

Phase II Environmental Site Assessment

**42, 46, 50, and 58-66 Canal Street,
Lyons, Wayne County, New York**

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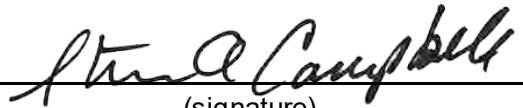




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FIGURES

Figure 1: Site Location Map

Figure 2: Sample Location Map

TABLES

Table 1: Summary of Soil Analytical Results Compared to SCOs Applicable to the Site

APPENDICES

Appendix A: Regulated Building Material Reports

Appendix B: Soil Boring Logs

Appendix C: Laboratory Analytical Reports

Appendix D: Data Usability Summary Report

ACRONYMS AND ABBREVIATIONS

ACM	Asbestos-Containing Material
AHERA	Asbestos Hazard Emergency Response Act
CU	Commercial Use
DUSR	Data Usability Summary Reports
ELAP	Environmental Laboratory Accreditation Program
ESA	Environmental Site Assessment
eV	Electron volt
ft bgs	feet below ground surface
GMR	Gravimetric Matrix Reduction
GPR	ground penetrating radar
GPS	Global positioning system
HID	High Intensity Discharge
HUD	Department of Housing and Urban Development
LBP	lead-based paint
LCS	Laboratory control spike
LCSD	Laboratory control spike duplicate
MS	matrix spike
MSD	matrix spike duplicate
ND	non-detect
NIST	National Institute of Standards and Technology
NOB	non-friable organically bound material
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OSHA	Occupational Safety and Health Administration
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PID	photoionization detector
PLM	Polarized Light Microscopy
ppm	parts per million
PVC	polyvinyl chloride
QA/QC	quality assurance/quality control
QAPP	Quality Assurance Project Plan
RBM	Regulated Building Materials
RCRA	Resource Conservation and Recovery Act
REC	recognized environmental condition
SAP	Sampling and Analysis Plan
SCOs	Soil Cleanup Objectives
SVOC	Semi-Volatile Organic Compound
TCLP	Toxicity Characteristic Leaching Procedure
TEM	Transmission Electron Microscopy
TREC	TREC Environmental, Inc.
TSI	Thermal Systems Insulation



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USEPA	United States Environmental Protection Agency
UU	Unrestricted Use
UWR	Universal Waste Rule
VOC	Volatile Organic Compound
WCLB	Wayne County Regional Land Bank

1.0 EXECUTIVE SUMMARY

Stantec Consulting Services Inc. (Stantec) prepared this Phase II Environmental Site Assessment (ESA) report on behalf of the Wayne County Land Bank (WCLB). The report documents field investigations, sampling and associated laboratory analyses performed on four adjacent parcels of land located at 42, 46, 50, and 58-66 Canal Street in the Town of Lyons, Wayne County, New York (collectively referred to hereinafter as “the Site” or “the Property”). The scope of work for the Phase II ESA was designed to assess potential impacts to the Property’s subsurface based on the Recognized Environmental Conditions (RECs) identified for the Property in four separate Phase I ESA reports completed by Stantec for the Property dated June 2021 (Stantec 2021a-d). Work on the project was completed in accordance with a Sampling and Analysis Plan (SAP) and a Regulated Building Material Survey (RBM) SAP prepared by Stantec dated May 24, 2022 and March 23, 2022, respectively (Stantec 2022a, Stantec, 2022b), utilizing protocols detailed in a Quality Assurance Project Plan (QAPP) dated April 14, 2021 (Stantec, 2021e). The QAPP and SAP were previously approved, July 13, 2020, and July 18, 2022, respectively, by the United States Environmental Protection Agency (USEPA).

The work was funded through a USEPA Brownfields Assessment Grant awarded to the WCLB in 2020 (Cooperative Agreement No. BF-96240019-0). The purpose of the Phase II ESA was to evaluate current soil, groundwater, and the presence of RBMs to assist with real estate decisions related to the redevelopment of these parcels. The assessment will also provide information used to evaluate if soil vapor intrusion testing will be required based on future redevelopment plans for demolition or renovation.

The Property is generally flat and vacant in a predominately commercial/residential neighborhood in Lyons, New York. When the Property was visited by Stantec in March 2021 for the Phase I ESAs, the Property contained two of the three structures constructed in the late 1800s. On 42 and 46 Canal Street, there was an approximately 4,500 square-foot, 3-story brick downtown row type building built in 1880 that entirely occupied the entire parcel footprints. At 58-66 Canal Street, there was an approximately 3,100 square-foot, 3-story commercial and residential building believed to have been constructed prior to 1900. A third 3-story approximately 6,000 square-foot structure (50 Canal Street) also constructed in 1880 was demolished due to structural concerns in early 2021. The 50 Canal Street parcel remained developed with a gravel lot.

Field work for the Phase II ESA was completed by Stantec on August 30, 2022 and included collection of one (1) soil sample from four (3) soil borings at near surface and deep intervals depending on substrate composition, installation of six (6) temporary groundwater monitoring wells. Soil samples from both shallow and deep intervals were not possible at most borings due to the lack of sampleable soil substrate, and groundwater samples were not able to be collected from the temporary groundwater monitoring wells due to a lack of groundwater recharging the wells.

On the 50 Canal Street parcel, two of the soil boring/monitoring wells and one of the soil borings could not be completed due to the presence of utility lines and/or the existing building structure. At 58-66 Canal Street, the two soil boring/monitoring wells could not be installed in the western portion of the building due to the existing building structure, access limitations and integrity. The locations of most investigation points were adjusted based on field observations of nearby utility lines and the internal building structure.

Lu Engineers conducted RBM surveys on the buildings at 42, 44-46, and 58-66 Canal Street in June 2022. The surveys included sampling of asbestos, lead paint, and Polychlorinated Biphenyl (PCB) caulk in anticipation of building demolition or redevelopment.

1.1 FINDINGS

1.1.1 Soil

Soils encountered during the Phase II ESA predominantly consisted of sand and silt, with intervals of sandy, silty clays. Unconsolidated fill including fine and coarse stone with traces of brick were observed at most locations from the surface down to 8.0-10.0 feet below ground surface (ft. bgs).

No Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), Polycyclic Aromatic Hydrocarbons (PAHs), or PCBs were reported in soil at concentrations above Unrestricted Use (UU) or Commercial Use (CU) Soil Cleanup Objectives (SCOs). Given the anticipated future redevelopment with mixed use including commercial space and multi-family apartment-style housing, UU SCOs are considered most applicable to the Site.

Lead, was reported in one (1) near-surface soil sample collected from SB/MW-9 located in the eastern portion of the 58-66 Canal Street building. The concentration of lead in this sample exceeds the UU SCO, but is below the Restricted Use-Commercial SCO for Protection of Human Health (CU). Given the anticipated future mixed use of the Property, UU SCOs would only be applicable to soils that are proposed to be removed from the Property.

1.1.2 Groundwater

Temporary monitoring wells were installed in six (6) of the nine (9) investigation locations. Multiple borings experienced collapse during well construction due to surrounding unconsolidated fill and wells could not be set to the original bottom of exploration depths, therefore screen interval bottoms ranged from 3.8-14.5 ft bgs. Groundwater was not encountered in any of the temporary groundwater monitoring wells installed on the Site. Although not encountered, groundwater is expected to flow predominantly to the southeast towards the Erie Canal, approximately 0.19 miles from the Site.

1.1.3 Asbestos

In 2021, Asbestos-Containing and Hazardous Materials Inspection Reports were conducted by LiRo Engineers, Inc. (LiRo) on the buildings located at 46 and 58-66 Canal Street. During the 2021 surveys, roofing materials were assumed to be asbestos containing on both buildings, and nine materials were identified to be Asbestos Containing Materials (ACMs) at 58-66 Canal Street.

To cover areas not sampled during LiRo's work, Lu Engineers conducted RBM Surveys on the buildings in June 2022 in anticipation of demolition of the building at 58-66 Canal Street, and redevelopment of the buildings at 42, and 44-46 Canal Street. At 42 Canal Street, eight (8) ACMs were identified. In the 44-46 Canal Street building, seven (7) ACMs were identified, as well as one roofing material that contains less than 1% asbestos and is not considered an ACM, however, must be handled as asbestos containing during removal. At 58-66 Canal Street, the results of the 2022 Lu Engineers RBM survey identified 20 ACMs including materials also identified in the 2021 LiRo report.

1.1.4 PCB Caulks

During the 2021 and 2022 building surveys, no PCB containing caulks were identified. In the 46 and 58-66 Canal Street buildings, suspect caulk was identified around windows and entry doors at both buildings during the 2021 LiRo surveys, and results were Non Detect (ND), below laboratory detection levels for PCBs. At 42 and 44-46 Canal Street, no suspect PCB containing caulks were observed or sampled during the 2022 surveys conducted by Lu Engineers.

1.1.5 Lead Paint

A limited paint chip sampling survey for Lead Based Paint (LBP) was conducted at 46 and 58-66 Canal Street by LiRo in 2021. Although the sampling was not a comprehensive inspection according to the Department of Housing and Urban Development (HUD) Guidelines, the survey tested representative painted surfaces, components, substrates, and identified types of paint, construction, and paint history. Two areas with LBP as defined by USEPA's Federal guidelines were identified at 46 Canal Street, and one additional area was identified with paint that contains lead but is below the concentration threshold to be considered LBP. At 58-66 Canal Street, the results identified two LBPs, and three paints that are lead containing but below concentration to be considered LBP by the USEPA.

During the 2022 Lu Engineers survey at 42 Canal Street, six (6) areas of LBP were identified, and eleven (11) LBP areas were identified at 44-46 Canal Street.

1.1.6 Hazardous Building Materials

The 2021 LiRo survey identified multiple building materials in the 58-66 Canal Street building with the possibility to contain mercury including light ballasts, fire extinguishers, refrigerators and freezers, fluorescent lights, smoke detectors, paints and varnishes, and other building materials. Hazardous building materials were not included in the 2021 survey conducted at 46 Canal Street. The 2022 Lu Engineers reports also identified fluorescent bulbs and High Intensity Discharge (HID) light bulbs as possible sources of hazardous materials in all three of the buildings that would require disposal in accordance with New York State Regulations - Universal Waste Rule (UWR), 6 NYCRR 374-3.

1.2 RECOMMENDATIONS

Based on the Phase II ESA, the following actions are recommended:

- If impacted soils will be excavated for future construction, and that material has concentrations of RCRA metals which cannot be safely re-used on site given the proposed redevelopment, they will need to be properly managed with off-site disposal at a New York State Department of Environmental Conservation (NYSDEC)-permitted landfill.
- If metals impacted surface soils above applicable SCOs are proposed to remain on site (e.g., beneath impervious surfaces or in a landscaped berm with 12 inches of clean soil cover that will not be disturbed), those proposed plans should be shared with NYSDEC to confirm the proposed plan is acceptable.
- Development and implementation of a Soil Management Plan for the Property if future excavation work will occur, which will address handling of impacted soils in aforementioned recommendations and needs for supplemental soil vapor intrusion sampling.
- Prior to demolition of the building at 46 and 58-66 Canal Street, NYCRR 56 requires that a copy of the 2022 Lu Engineers and the two 2021 LiRo reports be submitted to the local agency issuing the demolition permit and the regional NYSDOL office. During demolition and remodeling activities, all ACMs identified within the two 2021 LiRo and three 2022 Lu Engineers reports must be abated by a licensed abatement contractor prior to the beginning of renovation and demolition work. If any previously not identified suspect ACMs are encountered during demolition and/or renovation activities, the building owner must be notified within 24 hours, current activities in the area of the suspect material ceased, and the suspect material sampled by a licensed asbestos contractor.
- All paints identified in the two 2021 LiRo reports and three 2022 Lu Engineers reports as containing lead must be handled and disposed of in accordance with a lead worker protection specification

consistent with Occupational Safety and Health Administration (OSHA) regulations. Although the USEPA considers a material as Lead Based Paint if the concentration is equal to or greater than 0.5% by weight or 1.0 mg/cm³, OSHA Regulation 29 CFR 1926.62 considers any amount of lead in paint to be of concern and the employer shall assure that no employee is exposed to lead concentrations greater than 50 mg/m³ of air averaged over an eight-hour period.

- Fluorescent bulbs which may contain mercury, and HID light bulbs which may contain mercury vapor, high pressure sodium, or metal halides can be handled as Universal Waste in accordance with New York State's Universal Waste Rule (UWR), 6 NYCRR 374-3 and EPA RCRA regulations.

2.0 INTRODUCTION

This report documents and presents the findings of a Phase II ESA completed by Stantec of the parcels located 42, 46, 50, and 58-66 Canal Street (Parcel IDs: 71111-09-136667, 71111-09-138667, 71111-09-141667, 71111-09-157668) in the Town of Lyons, Wayne County, New York (the “Site” or “Property”). The scope of work was completed in accordance with the *Phase II Environmental Site Assessment Sampling and Analysis Plan* and *Sampling and Analysis Plan for Regulated Building Material Survey 42, 46, 58-66 Canal Street, Lyons, Wayne County, New York* prepared by Stantec dated May 24, 2022 and March 23, 2022, respectively. Stantec, followed the protocols described in the Master Quality Assurance Project Plan (Revision 0) for Implementation of U.S. EPA Brownfields Assessment Grants at Petroleum and Hazardous Substances Sites dated April 14, 2021. The QAPP and SAP were approved by the USEPA, July 13, 2020, and March 19, 2021A, respectively. The work was funded through a USEPA Brownfields Assessment Grant awarded to the WCLB in 2020 (Cooperative Agreement No. BF-96240019-0). Eligibility of the Site for use of petroleum grant funds was approved on January 15, 2021, but the funding source was subsequently revised by U.S. EPA with approval of the use of hazardous substances grant funds on January 19, 2022. The purpose of the Phase II ESA was to evaluate current soil and groundwater conditions to investigate for possible subsurface impairment from historical usage of the site and from neighboring properties, and the presence of RBMs to be used to assist in the redevelopment of these parcels. The assessment will also provide information used to evaluate if soil vapor intrusion testing will be required based on future redevelopment plans for demolition or renovation.

2.1 GENERAL

The purpose of the Phase II ESA was to assess subsurface RECs for the Site identified in the four separate Phase I ESA reports (Stantec 2021a-d) and to evaluate current soil and groundwater conditions, and the presence of RBMs for potential Site redevelopment activities. The assessment will also provide information used to evaluate if soil vapor intrusion testing will be required based on future redevelopment plans for demolition or renovation. A Property Location Map is included as Figure 1.

2.2 SITE DESCRIPTION/BACKGROUND

The Property is generally flat and vacant in a predominately commercial/residential neighborhood in Lyons, New York. When the Property was visited by Stantec in March 2021 for the Phase I ESAs, the Property contained two of the three structures constructed in the late 1800s. On 42 and 46 Canal Street, there was an approximately 4,500 square-foot, 3-story brick downtown row type building built in 1880 that entirely occupied the entire parcel footprints. At 58-66 Canal Street, there was an approximately 3,100 square-foot, 3-story commercial and residential building believed to have been constructed prior to 1900. A third 3-story approximately 6,000 square-foot structure (50 Canal Street) also constructed in 1880 was demolished due to structural concerns in early 2021. The 50 Canal Street parcel remained developed with a gravel lot.

The Property consists of four separate tax parcels owned by the Wayne County Land Bank and located in the Town of Lyons, Wayne County, New York; 42 Canal Street (tax parcel ID: 71111-09-136667), 46 Canal Street (tax parcel ID: 71111-09-138667), 50 Canal Street (tax parcel ID: 71111-09-141667) and 58-66 Canal Street (tax parcel ID: 71111-09-157668). The four parcels total approximately 0.22 acres and are along the south side of Canal Street in the Town of Lyons, New York, Wayne. The 42, 46 and 50 Canal Street parcels are located immediately adjacent to each other on the west side of Geneva Street. The 58-66 Canal Street subject parcel is located on the opposite side, east, of Geneva Street and non-subject parcel 52-54 Canal Street from the other subject parcels (see Figure 2).

The current and historical use of each subject parcel are as follows:

- 42 Canal Street is developed with a 3-story approximately 4,473 square-foot building constructed in 1880. The documented first use of the subject parcel was commercial specifically as a Dentist, Clothing Store and Tailor. The Sanborn records further indicate that the parcel was used for commercial ventures (labeled as a store) until at least 1949. Reportedly, between the 1950s to mid-1960s this parcel was used as a variety store and as an antique store from 1981 to the mid-1990s. The building has been vacant since that time.
- 46 Canal Street is developed with a 4,473 square-foot 3-story building constructed in 1880. The documented first use of the subject parcel was commercial specifically a Dry Goods store in 1884. The historical and environmental records further indicate that the parcel was used for commercial ventures (labeled as a store) until at least 1949. Reportedly, between the 1950s to mid-1960s the parcel was used as a variety store. The subject parcel contained dry cleaning operations from the mid-1960s until the mid-1990s. The building has been vacant since that time.
- 50 Canal Street is currently a vacant gravel lot. It formerly housed an approximately 5,964 square-foot three-story building constructed in 1880 and was demolished in 2021. The documented first use of the subject parcel was a Hardware Store in 1884. The Sanborn records further indicate that the Property was used for commercial ventures (labeled as a store) until at least 1949. Reportedly, between the 1950s to mid-1960s the subject parcel was used as a variety store. 50 Canal Street contained a laundromat (washers and dryers) from the mid-1960s until the mid-1990s. The subject building was vacant from the mid-1990s until it was demolished in 2021.
- 58-66 Canal Street is developed with a three story approximately 11,073 square-foot mixed commercial and residential building constructed in 1900 (according to municipal building records); however, based on historical Sanborn maps the building may have been built prior to 1900. The documented first use of this subject parcel was for retail shops by at least 1884, specifically as a Tinware Shop, a Furnishings Shop, a Drug Store, and a Hats & Caps Shop. The Sanborn map records further indicate that the Property was used for commercial ventures (labeled as a store) until at least 1949. The Property is currently vacant but the most recent use of the Property was for apartments. Four separate vacant apartment units are located in the building.

The Property is bounded to the north by Canal Street followed by several commercial storefronts; parking and commercial areas to the east; to the south by an unnamed road followed by a vacant commercial building with a sign for Kwik Fill and Red Apple; and to the west by an adjoining three-story commercial building. The 58-66 Canal Street subject parcel is located adjacent to an L shaped parcel, 52-54 Canal Street, which wraps around the Property on the west and south.

The Property is generally level, at an approximate average elevation of 410 feet above sea level (amsl). The topography in the vicinity of the Property slopes downward to the southeast towards the Erie Canal, which is located approximately 0.19 miles from the Property. Based on the local surface topography, local shallow groundwater is expected to flow to the southeast towards the Erie Canal. Man-made features such as wells, roads, filled areas, buried utility lines and sewers, and drainage ditches may alter the natural shallow groundwater flow direction.

2.3 ENVIRONMENTAL CONCERNS

In the four 2021 Phase I ESA completed by Stantec for the each of the tax parcels, the following RECs were identified for the Property:

- Former dry cleaning operations were previously located on the Property (46 Canal Street parcel) from the mid-1960s to the mid-1990s. Dry-cleaning operations of this vintage typically used chlorinated solvents and it is unknown how the chemicals may have been handled and disposed. The long-term use of the Property for dry cleaning was identified as a REC.
- A gasoline fueling station has been located at 30 Geneva Street south of the 42, 46 and 50 Canal Street subject parcels since at least 1949. This property no longer appears to be in operation. Five spills were reported between 1998 and 2016. This adjacent gasoline fueling station is a REC for the Property.
- The presence of a service station from at least 1949 until the 1990s on the adjacent 52-54 Canal Street property is a REC for the Property. According to historical maps three gasoline tanks were present in at least 1949 on this adjacent property. Reportedly, four underground storage tanks were removed in 1999.

Based on Stantec's observations, findings, and conclusions presented in the Phase I ESA reports, it was recommended that a Phase II ESA be conducted to further evaluate whether the identified RECs have impacted soil, groundwater, or soil vapor intrusion conditions at the Property, and the presence of RBMs that would be encountered during redevelopment or demolition activities. It was recommended that the Phase II include soil borings, monitoring well installation, and sampling/analysis of soil and to assess potential impacts at the Property, as well as surveys to identify and sample RBMs. The assessment will provide information used to evaluate if soil vapor intrusion testing will be required based on future redevelopment plans for demolition or renovation.

3.0 DESCRIPTION OF INVESTIGATION

Field activities completed during the Phase II ESA are discussed in the following subsections. Protocols for site safety outlined in the Stantec safety documents were adhered to while on-site. Workers and visitors to the Site were documented on a daily Project Sign-In sheet.

3.1 GEOPHYSICAL AND SOIL

Prior to the start of the proposed subsurface activities in August 2022, TREC Environmental, Inc. (TREC), a subcontractor to Stantec, contacted DigSafelyNY to perform a public utility mark out at the Site prior to drilling activities. Utilities existing within the Right-of-Way were marked prior to the start of intrusive work. Based on the location of marked utilities, multiple sampling locations were adjusted from the originally planned investigation locations depicted in the SAP.

Given the presence of post-demolition back-fill encompassing the planned investigation locations on 50 Canal Street, and existing buildings covering the entirety of parcels 42, 46, and 58-66 Canal Street, an additional ground penetrating radar (GPR) and electromagnetic induction geophysical investigation were not performed to mark existing utilities in previously excavated areas on the Site.

Soil borings SB/MW-8, SB-9, and SB/MW-10 depicted in the SAP located at 50 Canal Street could not be completed outside of the former building footprint due to close proximity to marked utility lines. At 58-66 Canal Street, SB/MW-12 and SB/MW-14 shown in the SAP also could not be installed in the western portion of the building due to the existing building structure, access limitations and integrity. The planned investigation location of SB/MW-5 remained consistent, while all other planned borings were moved away from their originally marked locations initially presented within the SAP due to field observations of nearby utility lines and the internal building structure.

On August 30, 2022, TREC, under the supervision of Stantec personnel, advanced three (3) soil borings (SB-1, SB-4, and SB-8) and six (6) temporary groundwater monitoring wells (SB/MW-2, S/MW-3, SB/MW-5 through SB/MW-7, and SB/MW-9) at the locations shown on Figure 2. The soil borings were advanced with a track-mounted Geoprobe® using direct-push sampling methods. The borings were advanced to maximum depths of approximately 16 ft bgs. Temporary groundwater monitoring wells were extended to below the groundwater table or as deep as screen intervals could be installed due to collapse of surrounding unconsolidated fill. Screen interval bottoms ranged from 3.8-14.5 ft bgs.

Probe drilling rods and soil sampling equipment were clean when brought to the Site. Geoprobe MacroCore™ samplers were decontaminated with an Alconox® wash and potable water rinse prior to the advancement and collection of each soil boring. New disposable polyethylene sampling sleeves were used for collection of each soil sample to minimize the potential for cross-contamination between soil samples.

Soil cores were collected continuously from the ground surface to the bottom of the boring. The Stantec field geologist/environmental scientist physically examined the soil cores and made observations of the general composition (percentages of gravel, sand, silt, and clay), visible layering, evidence of non-native fill/anthropogenic materials, indications of chemical or other staining, odors, and other distinctive features. Field observations of soil cores are summarized and detailed on the soil boring logs provided in Appendix B. During the Phase II investigation, the boreholes not identified for installation of temporary wells were backfilled with soil cuttings from that borehole and the ground surface was restored to match preexisting conditions to the extent practical.

Portions of the soil cores from every 4-foot interval were field screened for the presence of VOCs using a photoionization detector (PID) equipped with a 10.6 electronvolt (eV) lamp calibrated to 100 parts per million isobutylene gas calibration standard specifications. Portions of soil core from each interval were placed into Ziploc® storage bags, sealed, labeled, and allowed a period of time for vapors to accumulate. Headspace vapors were subsequently screened with the PID using a five to ten second interval. Maximum headspace readings in parts per million (ppm) were recorded and included on the soil boring logs presented in Appendix B.

Soil samples were selected for laboratory analysis based upon depth, field evidence for the presence of fill materials, moisture content, field screening, and PID readings, in accordance with rationale detailed for each boring on Table 1 of the SAP. Soil samples from both shallow and deep intervals were not possible at the borings due to the lack of sampleable soil substrate.

Shallow soil samples were obtained from approximately 0 to 4 ft bgs due to poor recovery of sampleable soil materials. Deep soil samples were selected based on depth, moisture content, field screening (PID readings), possible odors, possible staining or other notable characteristic indicative of potential environmental impairment. All deep soil samples selected for analysis were collected from just above saturated soils, indicative of the water table, then placed directly into laboratory-supplied containers, preserved as appropriate, and immediately placed in a cooler on ice for shipping to Eurofins TestAmerica ("Project Laboratory") in Amherst, New York (New York State Department of Health [NYSDOH] Environmental Laboratory Accreditation Program [ELAP] certified) under chain-of-custody protocol. The samples were transported to the lab and received by the following day by FedEx Delivery. The name for each soil sample incorporates the boring number and sample depth (in ft. bgs).

Stantec submitted the Phase II ESA soil samples for the analysis of a combination of the following compounds as per the SAP:

- VOCs NYSDEC Part 375/CP-51 lists using USEPA Methods 5035 and 8260C;
- SVOCs and PAHs Part 375/NYSDEC CP-51 list using USEPA Method 8270D-SIM;
- PCBs using USEPA Method 8082A; and
- RCRA metals using USEPA Methods 6010D and 7471B.

Samples analyzed for VOCs were not collected using Terra Core™ sampling kits due to the large substrate and lack of core-able soil constituents, and instead were sampled using 2oz glass jars, packed with no headspace. One field duplicate soil sample and one matrix spike (MS)/matrix spike duplicate (MSD) soil sample were also submitted for analysis for the above listed analytes at a frequency of one per twenty samples collected in accordance with the SAP. The Level 2 laboratory reports are presented in Appendix C. The Level 4 laboratory reports can be forwarded as a separate file upon request. Analytical results for soil samples are summarized on Table 1 and discussed in Section 4.4. Quality Assurance/Quality Control (QA/QC) data for soil are discussed in Section 4.5.

The approximate locations for each outdoor soil boring were measured during boring layout by Stantec personnel using a Trimble® global positioning system (GPS) unit. Borings conducted inside buildings were measured from exterior walls of the buildings. All boring and monitoring well locations are depicted on Figure 2.

3.2 GROUNDWATER

During the soil boring program, a total of six (6) temporary monitoring wells were installed within soil boreholes SB/MW-2, S/MW-3, SB/MW-5 through SB/MW-7, and SB/MW-9 to enable collection of groundwater samples

at these locations. The wells were constructed using one-inch diameter schedule 40 polyvinyl chloride (PVC) casing with 10-foot long 10 slot (0.010-inch) screens, bottoms ranged from 3.8-14.5 ft bgs. During well construction multiple borings experienced collapse due to surrounding unconsolidated fill, and wells could not be set to the original bottom of exploration depths. Sand packs were placed in the annulus to above the screen interval and bentonite seals were placed above that to the surface.

Measurements of groundwater elevation measurements were attempted; however groundwater was not detected in any of the temporary monitoring wells. Due to the lack of sampleable groundwater, no groundwater samples were collected during this Phase II investigation.

The locations of the temporary wells were surveyed by Stantec using a Trimble® (GPS) survey instrument with sub-meter accuracy and the survey data were used to plot the locations as shown on Figure 2.

3.3 REGULATED BUILDING MATERIAL SURVEYS

Prior to the subsurface investigation, Lu Engineers, a subcontractor to Stantec, conducted RBM Surveys at 42, 44-46, and 58-66 Canal Street in June, 2022 in anticipation of demolition or redevelopment of the buildings. The RBM surveys investigated for the presence and quantity of ACMs, LBP, and PCB containing caulks by means of sample collection and analysis, and conducted a visual survey for other hazardous building materials. These surveys expanded on the sampling initially conducted in the 46 and 58-66 Canal Street buildings by LiRo in 2021, and is summarized below in Section 4.6.

Destructive sampling was required to thoroughly inspect building materials. The sampling resulted in damage to some building materials. Attempts were made to collect samples from already damaged building materials where possible, to avoid further damage. Sample location repair was not performed at the time of sampling given the plans for building demolition or renovation.

The asbestos surveys process focused on identifying the following materials that would be disturbed during building demolitions:

- 1) Surface Treatments;
- 2) Thermal system insulation (TSI); and
- 3) Miscellaneous materials.

Samples for asbestos were not collected from homogenous areas where the inspector determined that the material was a non-ACM (such as materials that were obviously fibrous glass, foam glass, wood, plastic, rubber, or metal). Samples of materials identified as suspect ACM by the survey inspectors were collected using guidelines outlined in NYS Industrial Code Rule 56.

ACM sampling was performed using guidelines outlined in NYS Industrial Code Rule 56. Care was taken to penetrate all layers of the material, as feasible. The suspect ACM samples were extracted using a utility knife, chisel, hand saw, and/or hammer. Each sample was then placed in an airtight container and labeled appropriately. Standard chain-of-custody procedures were followed.

OSHA and 40 CFR 763 Subpart E – Asbestos Hazard Emergency Response Act (AHERA) bulk sampling protocols were followed.

- Three (3) samples of a homogenous surfacing material in quantities of 1,000 Square Feet (SF) or less were collected.

- Five (5) samples of a homogenous surfacing material in quantities greater than 1,000 SF but less than 5,000 SF were collected.
- Seven (7) samples of a homogenous surfacing material in quantities greater than 5,000 SF were collected.
- Three (3) samples of Thermal System Insulation (TSI) material were collected.
- Two (2) samples of each miscellaneous material were collected.

Following collection, the suspect ACM samples were submitted to an accredited NYSDOH ELAP laboratory Paradigm Environmental Services for analysis of asbestos content by Polarized Light Microscopy (PLM), Gravimetric Matrix Reduction (GMR) and/or Transmission Electron Microscopy (TEM). The bulk sample asbestos analytical report is presented in Appendix C, along with the chain of custody reports.

NYSDOH has two specific bulk materials categories:

1. Friable: Friable materials are those materials which, when dry, may be crumbled, pulverized or reduced to powder by hand-pressure and includes previously non-friable materials after such previously non-friable materials become damaged to the extent that when dry, it may be crumbled, pulverized or reduced to powder by hand pressure. The analytical procedures used for the analysis of friable materials consisted of PLM analysis. Following PLM analysis, if trace NOBs are found to be present, they are then sent for TEM analysis.
2. Non-friable Organically Bound Materials: NOBs refer to a category of non-friable building materials embedded in flexible to rigid asphalt or vinyl materials. The typical types of material that fall within this classification include floor tiles, mastic, asphalt shingles, and roofing materials.

Suspect asbestos samples were analyzed via stop positive protocols, if a positive sample of a series was found, the other samples were not analyzed. The samples were analyzed using the following methods as per the RBM SAP:

- Friable samples were analyzed using NYS ELAP Method 198.1, PLM;
- Non-friable organically bound (NOB) samples were analyzed using NYS ELAP Method 198.6 (PLM),
- If NOBs were found to be negative by 198.6, samples were then analyzed using NYS ELAP Method 198.4, TEM.

As required by NYSDOH, all NOBs were analyzed using Gravimetric Matrix Reduction (GMR). Following reduction to an ash residue, one of three scenarios occurred:

- If the ash residue was less than one percent of the original weight, the material was assumed to be non-asbestos and no further testing was required.
- If the ash residue was greater than one percent by weight of the original material, it was then analyzed by PLM, and if the PLM result was greater than one percent asbestos the material was confirmed to be 'asbestos containing' and no further testing was required; or
- If the ash residue was greater than one percent by weight of the original material, and, upon PLM analysis, was found to be negative, or less than one percent asbestos, TEM confirmation was performed before this material could be determined to be non-asbestos containing.

During the 2022 building survey at 58-66 Canal Street, No LBP or suspect PCB caulks were sampled in addition to materials previously sampled in 2021 by LiRo. The painted surfaces and caulks observed during the 2022 survey were sampled in 2021, no new materials were observed.

A lead-based paint inspection was conducted by Lu Engineers at 42 and 44-46 Canal Street during the 2022 surveys. Suspect painted surfaces were tested using a RMD model LPA-1 XRF analyzer, calibrated before and after each area with a National Institute of Standards and Technology (NIST) calibration block in accordance with the manufacturer's calibration procedures.

The surface investigation was conducted room-by-room, and testing combinations were identified using this zones approach. Each XRF reading was identified by the side of the room it was collected from (A, B, C & D), the component analyzed and the substrate. The A wall was defined as the wall on the entry side of the space. Sides "B, C and D" were identified in a clockwise direction from side "A". Representative samples of suspect painted building components were collected.

Paint conditions were described using the following definitions:

- Intact paint is defined as no peeling paint on the component, or the entire surface is intact;
- Fair paint is defined as less than or equal to 2 square feet of peeling or damaged paint for large components (such as walls, ceilings, floors, and doors), and for small components (such as baseboards, moldings, and window frames), Fair paint is defined as less than or equal to 10% of the total surface area with peeling or damaged paint; and
- Poor paint is defined as more than 2 square feet of peeling or damaged paint for large components, and Poor paint on small components is defined as more than 10% of the total surface area has peeling or damaged

No caulks suspected of containing PCBs were observed or sampled during Lu Engineer's surveys of 42 and 44-46 Canal Street.

Potential PCB containing equipment including light ballasts were inventoried during the surveys conducted by LiRo and Lu Engineers, no dismantling or sampling of existing fixtures or pieces of equipment occurred. The 2022 Lu Engineers reports identified fluorescent bulbs and HID light bulbs as possible sources of hazardous waste that could contain mercury, low/high pressure sodium, metal halide, and phosphorus.

4.0 RESULTS OF INVESTIGATION

4.1 SUBSURFACE CONDITIONS

4.1.1 Soil and Fill

Soils throughout the Site predominantly consisted of sand and silt, with intervals of sandy, silty clays. Unconsolidated fill including fine and coarse stone with traces of brick were observed at most locations from the surface down to 8.0-10.0 feet below ground surface (ft. bgs). No evidence of suspect asbestos containing materials were observed, therefore, no asbestos samples were collected. Soil boring logs are presented in Appendix B.

4.1.2 Groundwater

The water table was not encountered in the temporary monitoring wells, extending below 14.5 ft bgs on the Site. Based on surface topography, groundwater is expected to flow predominantly to the southeast towards the Erie Canal, approximately 0.19 miles from the Site.

4.2 FIELD SCREENING RESULTS

PID readings of samples collected from the boreholes were at 0.0 ppm, with the exception of one sample collected from 50 Canal Street. At SB/MW-7, a maximum PID reading of 1 ppm was encountered at a depth of 10.0 ft. bgs. Sample collection as per the SAP was conducted as much as was feasible given the lack of sampleable soil substrate throughout many of the borings that contained unconsolidated fill. The near-surface samples were all collected from approximately 0 to 4 ft bgs due to poor recovery of sampleable soil materials and the deeper samples were collected from just above the water table. No odors or unnatural staining were observed in any of the boreholes. The PID screening results are presented on the soil borings logs in Appendix B.

4.3 REGULATORY STANDARDS, OBJECTIVES AND GUIDANCE VALUES

The soil data is summarized in Table 1. Table 1 displays the results of the soil analyses. The analytical table compares the lab results to New York State Standards, Objectives, and Guidance Values. The following are included in the comparisons where applicable: NYSDEC 6 NYCRR Part 375 (NYSDEC, 2006a) SCOs for Protection of Human Health – Commercial Use (CU), and Unrestricted Use (UU) in Table 1.

For this Site, given its anticipated future redevelopment with mixed use commercial space and multi-family apartment-style housing, the UU SCOs are considered most applicable.

4.4 SOIL SAMPLING LABORATORY ANALYTICAL RESULTS

Laboratory analytical data for soil are summarized on Tables 1. The laboratory analytical reports and chain-of-custody forms for the soil samples are presented in Appendix C. The results are discussed in detail in the following sections.

4.4.1 VOCs

None of the soil samples were reported with VOC concentrations exceeding SCOs. No odors or elevated PID readings were observed from the screened soils or samples.

4.4.2 SVOC and PAH Compounds

SVOC and PAH compounds were not reported in the soil samples at concentrations above the laboratory reporting limits.

4.4.3 PCBs

PCBs were not reported in the soil samples at concentrations above the laboratory reporting limits.

4.4.4 Metals

The RCRA metal lead was reported in the SB/MW-9 shallow soil sample at concentrations that exceed the UU SCO. None of the RCRA metals were reported with exceedances of Commercial Use SCOs.

The exceedance of UU SCOs will be evaluated as necessary for soils that may be removed from the Property.

4.5 QUALITY ASSURANCE / QUALITY CONTROL

Analyses of soil samples were conducted at the ELAP certified laboratory, Eurofins TestAmerica of Amherst, NY. QA/QC sample results including MS/MSD and field duplicates were collected. The results of these analyses were considered in preparation of Data Usability Summary Reports (DUSRs).

Laboratory reports received from Eurofins TestAmerica were reviewed by a Stantec Chemist for usability of the laboratory analytical data. Results of the reviews were reported by the Stantec Chemist in a DUSR, which is presented in Appendix D.

All data generated for the Phase II ESA were validated according to the QAPP (Stantec 2021e). Data were reviewed for accuracy based on the surrogate spike, laboratory control sample/laboratory control sample duplicate (LCS/LCSD), and MS/MSD percent recoveries. Precision was reviewed based on the relative percent differences of LCS/LCSD, MS/MSD and field duplicate sample pairs. In addition, initial calibration, second-source initial calibration verification, and continuing calibration verification data for the soil and groundwater samples were reviewed for analytical precision. Samples were evaluated for representativeness of laboratory and site conditions based on the review of laboratory and field blank sample results and sample receipt conditions. Results were also reviewed for completeness and comparability based on the analytical method requirements, the holding time criteria, and the reporting limits for the samples analyzed. In addition, the National Functional Guidelines for Inorganic (USEPA 2017a) and Organic (USEPA 2017b) Data Review were used to provide overall guidance for the validation process.

An evaluation of the precision, accuracy, representativeness, comparability, completeness, and sensitivity of the data was performed for each analytical method.

In summary, the laboratory data were found to be usable as reported by the lab or usable with qualification. These data are of known and acceptable quality and meet the data quality objectives of the Project.

4.6 REGULATED BUILDING MATERIAL SURVEYS

The sampling results of the 2022 survey at 58-66 Canal Street, and two surveys conducted in 2021, are provided in the respective reports included in Appendix A, with each report's laboratory analytical reports and chain-of-custody forms.

4.6.1 Asbestos

The 2022 Lu Engineers survey at 42 Canal Street identified the following eight (8) materials as ACMs:

PHASE II ESA

42, 46, 50, and 58-66 Canal Street, Lyons, Wayne County, New York

January 25, 2023

- Dark Red 9" x 9" Floor Tile - 1,000 SF
- Black Floor Tile Mastic - 1,000 SF
- Black Vapor Barrier (under HA #1 and 2) - 1,000 SF
- Green 9" x 9" Floor Tile with Tan Streaks - 1,000 SF
- Black Floor Tile Mastic - 1,000 SF
- Cloth Wiring - 3 LF
- Grey Boiler Insulation - 94 SF
- Grey Aircell Pipe Insulation - 5 LF

ACMs were identified during the 2021 and 2022 surveys at 46 and 44-46 Canal Street. The roof at 46 Canal Street was assumed to be asbestos containing in LiRo's 2021 survey, totaling 2,600 SF of material. No other materials were determined to be asbestos containing at the building in 2021. Lu Engineer's 2022 RBM survey of 44-46 Canal Street identified the following seven (7) ACMs, including the roof materials assumed positive by LiRo's report:

- Green Pebble Pattern Linoleum - 160 SF
- Silver Coating - 2,250 SF
- Black Tar Paper - 2,250 SF
- Black Tar Paper - 2,250 SF
- Black Tar - 2,250 SF
- Grey Cementitious Chimney - 40 LF
- White Door Insulation - 24 SF

At 58-66 Canal Street, the roof was presumed to be asbestos containing during LiRo's 2021 survey and was confirmed to include ACMs during sampling conducted by Lu Engineers in 2022. The following ACMs were identified in Lu Engineers 2022 RBM survey, as well as LiRo's 2021 survey of 58-66 Canal Street:

- *Brown 9" x 9" Floor Tile - 250 SF
- *Black Floor Tile Mastic (under HA #1) - 250 SF
- Brown 9" x 9" Floor Tile - 26 SF
- Black 9" x 9" Floor Tile with Red Streaks - 26 SF
- Black Floor Tile Mastic - 26 SF
- Black Sink Undercoating - 10 SF
- *White 9" x 9" Floor Tile - 120 SF
- *Black Floor Tile Mastic (under HA #15) - 120 SF
- Grey Transite Panel - 12 SF
- Black Tar Paper - 3,900 SF
- Black Tar Paper - 3,900 SF
- *Black Sink Mastic - 5 SF
- *Tan Speckled 9" x 9" Floor Tile - 875 SF
- *Black Floor Tile Mastic (under HA #43) 875 SF1
- *White Duct Tape - 30 SF
- *Red Linoleum - 400 SF
- *Black Mastic (under HA #54) - 400 SF
- *Brown 9" x 9" Floor Tile - 300 SF
- *Black Floor Tile Mastic (under HA #64) - 300 SF
- *Green Linoleum - 300 SF

Materials denoted with an asterisk (*) were sampled and identified as asbestos containing in the surveys conducted by both LiRo and Lu Engineers.

4.6.2 PCB Caulks

PCBs were not reported in the caulk samples collected during the 2021 LiRo surveys at concentrations above the laboratory detection levels. One sample of caulk observed around windows and an entry door was collected and analyzed for each building at 46 and 58-66 Canal Street. During the 2022 Lu Engineers surveys, no suspect PCB containing caulks were observed in the buildings.

4.6.3 Lead Paint

During the 2022 Lu Engineers survey of 42 Canal Street, six (6) locations of LBP were identified:

- Purple paint on window frames in Exterior Room 1,
- Purple paint on window trim in Exterior Room 1,
- White paint on a door in Exterior Room 1;
- Green paint on a door in the Store Front Interior Room 1;
- Tan paint on a concrete wall in the Store Front Interior Room 1; and
- Green paint on the floor in the Store Front Interior Room 1.

In the building at 46 Canal Street, LiRo identified two locations of LBP in 2021:

- Tan paint on the walls of the 1st floor; and
- Dark green paint on the walls of the 2nd floor.

One additional area of light green paint on the west wall of the first floor was identified in 2021 with paint that contains lead but is below the concentration threshold to be considered LBP.

During Lu Engineer's 2022 survey of 44-46 Canal Street, the following eleven (11) areas of LBP were identified:

- Orange paint on three (3) plaster walls in Exterior Room 2 on the 2nd floor;
- White paint around two (2) windows in Exterior Room 2 on the 2nd floor;
- Brown paint around windows in Exterior Room 3;
- Gray paint on the walls in Exterior Room 4;
- Brown paint on the walls in Exterior Room 3;
- Green paint on plaster in Exterior Room 6;
- Gray paint on door trim in Exterior Room 6;
- Brown paint on the wall in Interior Room 3.

At 58-66 Canal Street, the following two locations of LBP were identified by LiRo in 2021:

- Beige paint in unit 58 on stairwell/hallway walls; and
- White/black paint in unit 64 apartment D.

Three additional areas were identified with paint that contains lead but is below the concentration threshold to be considered LBP at 58-66 Canal Street:

- Red paint in unit 62-bedroom closet;

- Light blue paint building unit 64 in apartment D; and
- Tan paint building unit 64 in apartment D.

4.6.4 Hazardous Building Materials

The 2021 LiRo visual survey of 58-66 Canal Street identified the following suspect hazardous building materials:

- 36 PCB light ballasts;
- 2 fire extinguishers;
- 7 refrigerators/freezers;
- 100 fluorescent lights;
- 22 smoke detectors;
- 6 gallons of paints/varnish; and
- 8 gallons of building materials.

The 2022 Lu Engineers reports also identified fluorescent bulbs and HID light bulbs as possible sources of universal waste for their potential to contain mercury, mercury vapor, low/high pressure sodium, or metal halides, and phosphorus. Although not a regulated material, Lu's 2022 reports also noted heavy deposits of pigeon waste throughout much of the second and third floors at 58-66 Canal Street.

5.0 FINDINGS, CONCLUSIONS AND RECOMMENDATIONS

5.1 SOIL

Soils encountered during the Phase II ESA predominantly consisted of sand and silt, with intervals of sandy, silty clays. Unconsolidated fill including fine and course stone with traces of brick were observed at most locations from the surface down to 8.0-10.0 ft. bgs.

No VOCs, SVOCs, PAHs, or PCBs were reported in soil at concentrations above UU or CU SCOs. Given the anticipated future redevelopment with mixed use including commercial space and multi-family apartment-style housing, UU SCOs are considered most applicable to the Site.

The RCRA metal, lead, was reported in one (1) near-surface soil sample collected from SB/MW-9 located in the eastern portion of the 58-66 Canal Street building. The concentration of lead in this sample exceeds the UU SCO, but is below the CU. Given the anticipated future mixed use of the Property, UU SCOs would only be applicable to soils that are proposed to be removed from the Property.

5.2 GROUNDWATER

Temporary monitoring wells were installed in six (6) of the nine (9) investigation locations. Multiple borings experienced collapse during well construction due to surrounding unconsolidated fill and wells could not be set to the original bottom of exploration depths, therefore screen interval bottoms ranged from 3.8-14.5 ft bgs. Groundwater was not encountered in any of the temporary groundwater monitoring wells installed on the Site. Although not encountered, groundwater is interpreted to flow predominantly to the southeast towards the Erie Canal, approximately 0.19 miles from the Site.

5.3 ASBESTOS

In 2021, Asbestos-Containing and Hazardous Materials Inspection Reports were conducted by LiRo Engineers, Inc. (LiRo) on the buildings located at 46 and 58-66 Canal Street. During the 2021 surveys, roofing materials were assumed to be asbestos containing on both buildings, and nine materials were identified to be Asbestos Containing Materials (ACMs) at 58-66 Canal Street.

Lu Engineers conducted RBM Surveys on the buildings in June 2022 in anticipation of demolition of the building at 58-66 Canal Street, and redevelopment of the buildings at 42, and 44-46 Canal Street. At 42 Canal Street, eight (8) ACMs were identified. In the 44-46 Canal Street building, seven (7) ACMs were identified, as well as one roofing material that contains less than 1% asbestos and is not considered an ACM, however, must be handed as asbestos containing during removal. At 58-66 Canal Street, the results of the 2022 Lu Engineers RBM survey identified 20 ACMs including the materials also identified in the 2021 LiRo report.

5.4 PCB CAULKS

During the 2021 and 2022 building surveys, no PCB containing caulks were identified. In the 46 and 58-66 Canal Street buildings, suspect caulk was identified around windows and entry doors at both buildings during the 2021 LiRo surveys, and results were Non Detect (ND), below laboratory detection levels for PCBs. At 42 and 44-46 Canal Street, no suspect PCB containing caulks were observed or sampled during the 2022 surveys conducted by Lu Engineers.

5.5 LEAD PAINT

A limited paint chip sampling survey for Lead Based Paint (LBP) was conducted at 46 and 58-66 Canal Street by LiRo in 2021. Although the sampling was not a comprehensive inspection according to the Department of Housing and Urban Development (HUD) Guidelines, the survey tested representative painted surfaces, components, substrates, and identified types of paint, construction, and paint history. Two areas with LBP as defined by USEPA's Federal guidelines were identified at 46 Canal Street, and one additional area was identified with paint that contains lead but is below the concentration threshold to be considered a LBP. At 58-66 Canal Street, the results identified two LBPs, and three paints that are lead containing but below concentration to be considered LBP by the USEPA.

During the 2022 Lu Engineers survey at 42 Canal Street, six (6) areas of LBP were identified, and eleven (11) LBP areas were identified at 44-46 Canal Street.

5.6 HAZARDOUS BUILDING MATERIALS

The 2021 LiRo survey identified multiple building materials in the 58-66 Canal Street building with the possibility to contain mercury including light ballasts, fire extinguishers, refrigerators and freezers, fluorescent lights, smoke detectors, paints and varnishes, and other building materials. Hazardous building materials were not included in the 2021 survey conducted at 46 Canal Street. The 2022 Lu Engineers reports also identified fluorescent bulbs and High Intensity Discharge (HID) light bulbs as possible sources of hazardous waste in all three of the buildings that would require disposal in accordance with New York State Hazardous Waste Regulations or the Universal Waste Rule (UWR), 6 NYCRR 374-3.

5.7 RECOMMENDATIONS

Based on the Phase II ESA, the following actions are recommended:

- If impacted soils will be excavated for future construction, and that material has concentrations of RCRA metals which cannot be safely re-used on site given the proposed redevelopment, they will need to be properly managed with off-site disposal at a New York State Department of Environmental Conservation (NYSDEC)-permitted landfill.
- If metals impacted surface soils above applicable SCOs are proposed to remain on site (e.g., beneath impervious surfaces or in a landscaped berm with 12 inches of clean soil cover that will not be disturbed), those proposed plans should be shared with NYSDEC to confirm the proposed plan is acceptable.
- Development and implementation of a Soil Management Plan for the Property if future excavation work will occur, which will address handling of impacted soils in aforementioned recommendations and needs for supplemental soil vapor intrusion sampling.
- Prior to demolition of the building at 46 and 58-66 Canal Street, NYCRR 56 requires that a copy of the 2022 Lu Engineers and the two 2021 LiRo reports be submitted to the local agency issuing the demolition permit and the regional NYSDOL office. During demolition and remodeling activities, all ACMs identified within the two 2021 LiRo and three 2022 Lu Engineers reports must be abated by a licensed abatement contractor prior to the beginning of renovation and demolition work. If any previously not identified suspect ACMs are encountered during demolition and/or renovation activities, the building owner must be notified within 24 hours, current activities in the area of the suspect material ceased, and the suspect material sampled by a licensed asbestos contractor.
- All paints identified in the two 2021 LiRo reports and three 2022 Lu Engineers reports as containing lead must be handled and disposed of in accordance with a lead worker protection specification

consistent with Occupational Safety and Health Administration (OSHA) regulations. Although the USEPA considers a material as Lead Based Paint if the concentration is equal to or greater than 0.5% by weight or 1.0 mg/cm³, OSHA Regulation 29 CFR 1926.62 considers any amount of lead in paint to be of concern and the employer shall assure that no employee is exposed to lead concentrations greater than 50 mg/m³ of air averaged over an eight-hour period.

- Fluorescent bulbs which may contain mercury, and HID light bulbs which may contain mercury vapor, high pressure sodium, or metal halides can be handled as Universal Waste in accordance with New York State's Universal Waste Rule (UWR), 6 NYCRR 374-3 and EPA RCRA regulations.

6.0 DISCLAIMER AND LIMITATIONS

The Phase II ESA was performed in accordance with generally accepted practices of the profession for performing similar studies at the same time and in the same geographical area. Stantec observed that degree of care and skill generally exercised by the profession under similar circumstances and conditions. No other warranty is expressed or implied.

Stantec observations, findings, and opinions must not be considered as scientific certainties, but only an opinion based on our professional judgment concerning the significance of the data gathered during the investigation. Specifically, Stantec does not and cannot represent that the Site contains no hazardous or toxic materials or other latent condition beyond that observed by Stantec.

Stantec does not warrant that this submittal represents an exhaustive study of all possible environmental concerns at the project area. The items investigated as part of this study represent likely sources of environmental concerns at the project area and are consequently believed to adequately address the public at risk at the present time.

7.0 REFERENCES

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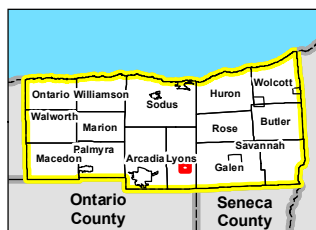
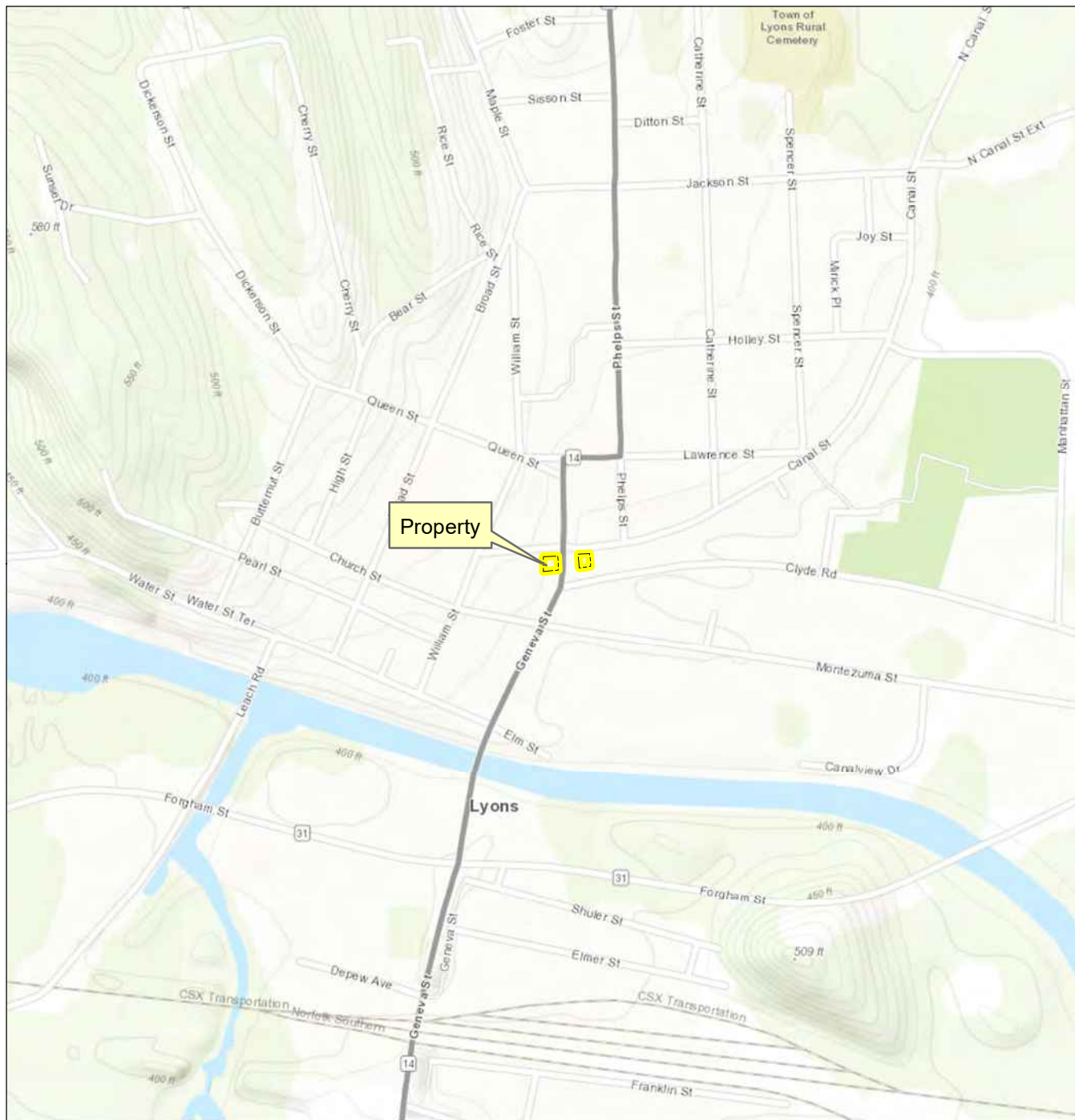
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FIGURES



Legend

 Property Boundary

0 400 800 Feet
(At original document size of 8.5x11)
1:9,600



Project Location
42-66 Canal Street, Lyons, NY
Wayne County, NY

Prepared by JNN on 2021-04-17
TR by KN on 2021-05-27
IR Review by SC on 2021-05-27

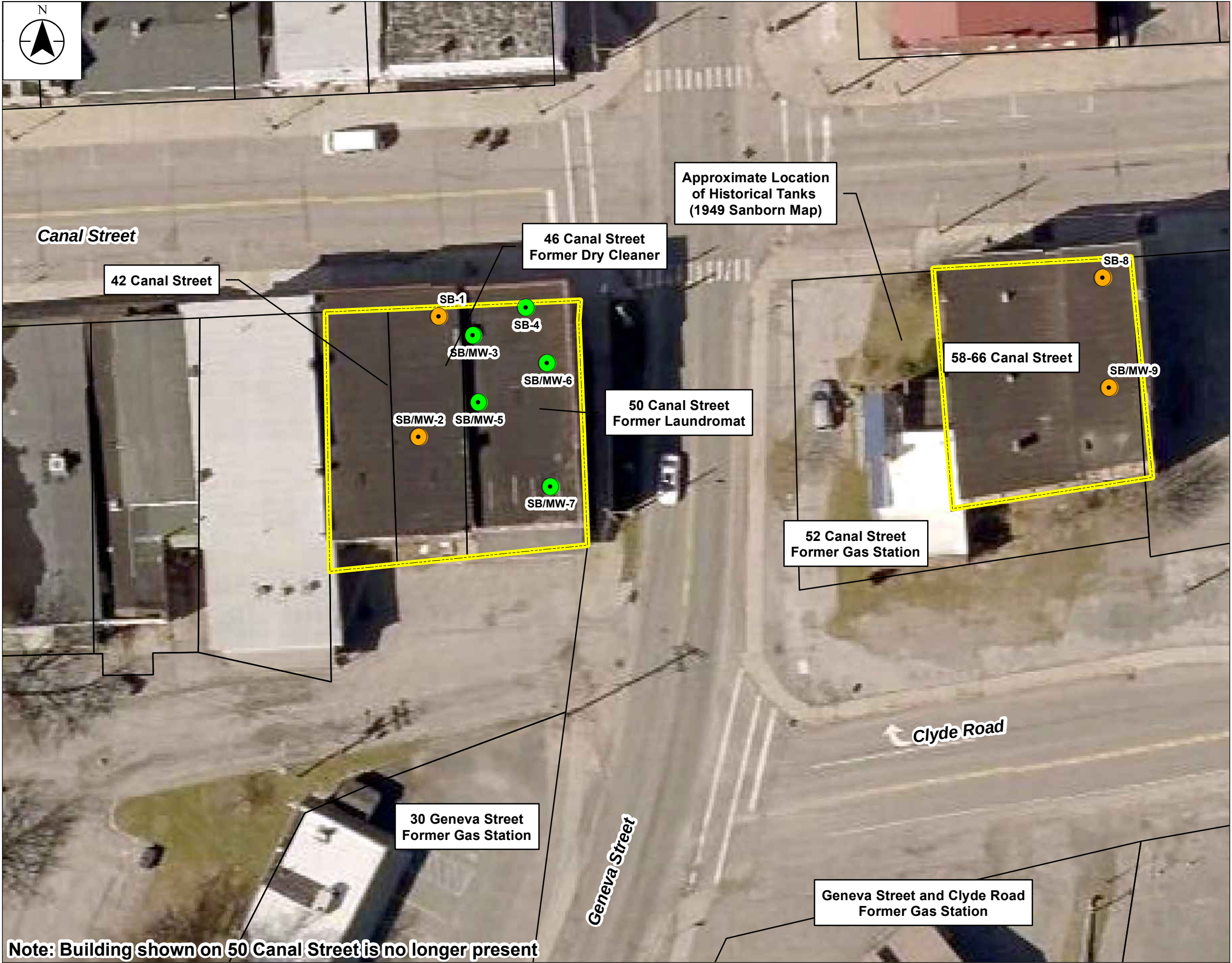
Client/Project
EPA Brownfield Assessment
Wayne County
Phase II Environmental Site Assessment
213414026

Figure No.
1

Title
Figure 1 - Site Location Map

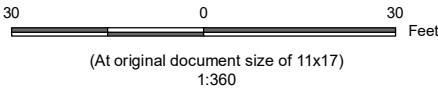
Notes

1. Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet
2. Data Sources: NYS GIS Clearinghouse (see Data Sources documentation, with inventory).
3. The Sites shown were derived from Wayne County Brownfields Inventory – Methodology and Final Results (March 29, 2021) and the EPA Eligibility Determination process prepared by Stantec and approved by USEPA Region 2.
4. Background: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



Legend

- Property Boundary
- Field Points 8-29-2022
- Hand Measured Points 8-29-2022



- Notes**
1. Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet
 2. Data Sources: Orthimagery from Eagleview 2018
 3. The building on 50 Canal Street Parcel is no longer present



Project Location
42-66 Canal Street, Lyons, NY
Wayne County, NY

Prepared by AM on 2022-10-06
TR by SC on 2023-01-24

Client/Project
EPA Brownfield Assessment
Wayne County

Figure No. 213414026

Title

Sample Location Map

TABLES

Table 1
Summary of Analytical Results in Soil
42, 46, 50, and 58-66 Canal Street
Lyons, Wayne County, NY

Sample Location			CSL-SB8		CSL-SBMW5	CSL-SBMW7		CSL-SBMW9
Sample Date			30-Aug-22	30-Aug-22	30-Aug-22	30-Aug-22	30-Aug-22	30-Aug-22
Sample ID			CSL-SB 8-2-4	CSL-DUP-S	CSL-SBMW5-S-12-16	CSL-SBMW7-S-0-4	CSL-SBMW7-S-8-12	CSL-SBMW9-S-2-3.8
Sample Depth			2 - 4 ft	2 - 4 ft	12 - 16 ft	0 - 4 ft	8 - 12 ft	2 - 3.85 ft
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			TALBU	TALBU	TALBU	TALBU	TALBU	TALBU
Laboratory Work Order			480-201197-1	480-201197-1	480-201197-1	480-201197-1	480-201197-1	480-201197-1
Laboratory Sample ID			480-201197-3	480-201197-5	480-201197-1	480-201197-6	480-201197-2	480-201197-4
Sample Type	Units	NYSDEC-Part 375		Field Duplicate				
Metals								
Arsenic	mg/kg	13 _n ^A 16 _g ^B	5.4	4.8	7.7	5.6	5.5	4.6
Barium	mg/kg	350 _n ^A 400 ^B	83.3	96.9	68.8	48.0	122	74.3 J
Cadmium	mg/kg	2.5 _n ^A 9.3 ^B	0.24	0.26	0.24 U	0.21 U	0.27 U	0.54
Chromium	mg/kg	30 _n ^A 1,500 ^B	15.3	13.9	10.9	14.3	16.1	11.8
Lead	mg/kg	63 _n ^A 1,000 ^B	49.9	51.7	14.7	11.3	51.8	72.2 J ^A
Mercury	mg/kg	0.18 _n ^A 2.8 _g ^B	0.087	0.096	0.023 U	0.019 U	0.11	0.13
Selenium	mg/kg	3.9 _n ^A 1,500 ^B	4.8 U	4.9 U	4.7 U	4.1 U	5.4 U	4.4 U
Silver	mg/kg	2 ^A 1,500 ^B	0.71 U	0.73 U	0.71 U	0.62 U	0.80 U	0.66 U
Polychlorinated Biphenyls								
Aroclor 1016	mg/kg	^{AB} _o	0.20 U	0.22 U	0.24 U	0.19 U	0.26 U	0.21 U
Aroclor 1221	mg/kg	^{AB} _o	0.20 U	0.22 U	0.24 U	0.19 U	0.26 U	0.21 U
Aroclor 1232	mg/kg	^{AB} _o	0.20 U	0.22 U	0.24 U	0.19 U	0.26 U	0.21 U
Aroclor 1242	mg/kg	^{AB} _o	0.20 U	0.22 U	0.24 U	0.19 U	0.26 U	0.21 U
Aroclor 1248	mg/kg	^{AB} _o	0.20 U	0.22 U	0.24 U	0.19 U	0.26 U	0.21 U
Aroclor 1254	mg/kg	^{AB} _o	0.20 U	0.22 U	0.24 U	0.19 U	0.26 U	0.21 U
Aroclor 1260	mg/kg	^{AB} _o	0.20 U	0.22 U	0.24 U	0.19 U	0.26 U	0.21 U
Polychlorinated Biphenyls (PCBs)	mg/kg	0.1 ^A 1 ^B	ND	ND	ND	ND	ND	ND
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	µg/kg	20,000 ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Acenaphthylene	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Anthracene	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Benzo(a)anthracene	µg/kg	1,000 _n ^A 5,600 ^B	200 U	200 U	190 U	170 U	220 U	190 U
Benzo(a)pyrene	µg/kg	1,000 _n ^A 1,000 _g ^B	200 U	200 U	190 U	170 U	220 U	190 U
Benzo(b)fluoranthene	µg/kg	1,000 _n ^A 5,600 ^B	200 U	200 U	190 U	170 U	220 U	190 U
Benzo(g,h,i)perylene	µg/kg	100,000 ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Benzo(k)fluoranthene	µg/kg	800 _n ^A 56,000 ^B	200 U	200 U	190 U	170 U	220 U	190 U
Chrysene	µg/kg	1,000 _n ^A 56,000 ^B	200 U	200 U	190 U	170 U	220 U	190 U
Dibenzo(a,h)anthracene	µg/kg	330 _m ^A 560 ^B	200 U	200 U	190 U	170 U	220 U	190 U
Fluoranthene	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Fluorene	µg/kg	30,000 ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Indeno(1,2,3-cd)pyrene	µg/kg	500 _n ^A 5,600 ^B	200 U	200 U	190 U	170 U	220 U	190 U
Naphthalene	µg/kg	12,000 ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Phenanthrene	µg/kg	100,000 ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Pyrene	µg/kg	100,000 ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Semi-Volatile Organic Compounds								
Acetophenone	µg/kg	100,000 _a ^A	200 U	200 U	190 U	170 U	220 U	190 U
Atrazine	µg/kg	100,000 _a ^A	200 U	200 U	190 U	170 U	220 U	190 U
Benzaldehyde	µg/kg	100,000 _a ^A	200 U	200 U	190 U	170 U	220 U	190 U
Biphenyl	µg/kg	100,000 _a ^A	200 U	200 U	190 U	170 U	220 U	190 U
Bis(2-Chloroethoxy)methane	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Bis(2-Chloroethoxy)ether	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Bis(2-Chloroisopropyl)ether (2,2-oxybis(1-Chloropropan-2-yl) ether)	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Bromophenyl Phenyl Ether, 4-	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Butyl Benzyl Phthalate	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Caprolactam	µg/kg	100,000 _a ^A	200 U	200 U	190 U	170 U	220 U	190 U
Carbazole	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Chloro-3-methyl phenol, 4-	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 UJ
Chloroaniline, 4-	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Chloronaphthalene, 2-	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Chlorophenol, 2- (ortho-Chlorophenol)	µg/kg	100,000 _a ^A 500,000 _c ^B	390 U	390 U	370 U	330 U	440 U	360 UJ
Chlorophenyl Phenyl Ether, 4-	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Cresol, o- (Methylphenol, 2-)	µg/kg	330 _m ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 UJ
Cresol, p- (Methylphenol, 4-)	µg/kg	330 _m ^A 500,000 _c ^B	390 U	390 U	370 U	330 U	440 U	360 UJ
Dibenzofuran	µg/kg	7,000 ^A 350,000 ^B	200 U	200 U	190 U	170 U	220 U	190 U
Dibutyl Phthalate (DBP)	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Dichlorobenzidine, 3,3'-	µg/kg	100,000 _a ^A 500,000 _c ^B	390 U	390 U	370 U	330 U	440 U	360 U
Dichlorophenol, 2,4-	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 UJ
Diethyl Phthalate	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Dimethyl Phthalate	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Dimethylphenol, 2,4-	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 UJ
Dinitro-o-cresol, 4,6-	µg/kg	100,000 _a ^A 500,000 _c ^B	390 U	390 U	370 U	330 U	440 U	360 UJ
Dinitrophenol, 2,4-	µg/kg	100,000 _a ^A 500,000 _c ^B	2,000 U	1,900 U	1,900 U	1,700 U	2,200 U	1,800 UJ
Dinitrotoluene, 2,4-	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Dinitrotoluene, 2,6-	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Di-n-Octyl phthalate	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Hexachlorobenzene	µg/kg	330 _m ^A 6,000 ^B	200 U	200 U	190 U	170 U	220 U	190 U
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Hexachlorocyclopentadiene	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Hexachloroethane	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Isophorone	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Methylnaphthalene, 2-	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Nitroaniline, 2-	µg/kg	100,000 _a ^A 500,000 _c ^B	390 U	390 U	370 U	330 U	440 U	360 U
Nitroaniline, 3-	µg/kg	100,000 _a ^A 500,000 _c ^B	390 U	390 U	370 U	330 U	440 U	360 U
Nitroaniline, 4-	µg/kg	100,000 _a ^A 500,000 _c ^B	390 U	390 U	370 U	330 U	440 U	360 U
Nitrobenzene	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Nitrophenol, 2-	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 UJ
Nitrophenol, 4-	µg/kg	100,000 _a ^A 500,000 _c ^B	390 U	390 U	370 U	330 U	440 U	360 UJ
N-Nitrosodi-n-Propylamine	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
n-Nitrosodiphenylamine	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 U
Pentachlorophenol	µg/kg	800 _m ^A 6,700 ^B	390 U	390 U	370 U	330 U	440 U	360 UJ
Phenol	µg/kg	330 _m ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 UJ
Trichlorophenol, 2,4,5-	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 UJ
Trichlorophenol, 2,4,6-	µg/kg	100,000 _a ^A 500,000 _c ^B	200 U	200 U	190 U	170 U	220 U	190 UJ
SVOC TICs								
Total SVOC TICs	µg/kg	n/v	8,460 T J N	7,890 T J	11,340 T J N	8,520 T J N	8,910 T J N	5,240 T J N

Table 1
Summary of Analytical Results in Soil
42, 46, 50, and 58-66 Canal Street
Lyons, Wayne County, NY

Volatile Organic Compounds								
Acetone	µg/kg	50 ^A 500,000 _c ^B	30 U vs	29 U vs	28 U vs	25 U vs	33 U vs	28 UJ
Benzene	µg/kg	60 ^A 44,000 ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Bromodichloromethane	µg/kg	100,000 _a ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Bromoform (Tribromomethane)	µg/kg	100,000 _a ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Bromomethane (Methyl bromide)	µg/kg	100,000 _a ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Butylbenzene, n-	µg/kg	12,000 ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U	5.1 U vs	6.7 U vs	5.5 U vs
Butylbenzene, sec- (2-Phenylbutane)	µg/kg	11,000 ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U	5.1 U vs	6.7 U vs	5.5 U
Butylbenzene, tert-	µg/kg	5,900 ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U
Carbon Disulfide	µg/kg	100,000 _a ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Carbon Tetrachloride (Tetrachloromethane)	µg/kg	760 ^A 22,000 ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Chlorobenzene (Monochlorobenzene)	µg/kg	1,100 ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U	5.1 U vs	6.7 U vs	5.5 U vs
Chloroethane (Ethyl Chloride)	µg/kg	100,000 _a ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Chloroform (Trichloromethane)	µg/kg	370 ^A 350,000 ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Chloromethane	µg/kg	100,000 _a ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Cyclohexane	µg/kg	100,000 _a ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U	5.1 U vs	6.7 U vs	5.5 U vs
Dibromo-3-Chloropropane, 1,2- (DBCP)	µg/kg	100,000 _a ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Dibromochloromethane	µg/kg	100,000 _a ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U	5.1 U vs	6.7 U vs	5.5 U vs
Dichlorobenzene, 1,2-	µg/kg	1,100 ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Dichlorobenzene, 1,3-	µg/kg	2,400 ^A 280,000 ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Dichlorobenzene, 1,4-	µg/kg	1,800 ^A 130,000 ^B	5.9 U vs	5.7 U vs	5.6 U	5.1 U vs	6.7 U vs	5.5 U vs
Dichlorodifluoromethane (Freon 12)	µg/kg	100,000 _a ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Dichloroethane, 1,1-	µg/kg	270 ^A 240,000 ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Dichloroethane, 1,2-	µg/kg	20 _m ^A 30,000 ^B	5.9 U vs	5.7 U vs	5.6 U	5.1 U vs	6.7 U vs	5.5 U vs
Dichloroethene, 1,1-	µg/kg	330 ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Dichloroethene, cis-1,2-	µg/kg	250 ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U	15	6.7 U vs	5.5 U vs
Dichloroethene, trans-1,2-	µg/kg	190 ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Dichloropropane, 1,2-	µg/kg	100,000 _a ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Dichloropropene, cis-1,3-	µg/kg	100,000 _a ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U	5.1 U vs	6.7 U vs	5.5 U vs
Dichloropropene, trans-1,3-	µg/kg	100,000 _a ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U	5.1 U vs	6.7 U vs	5.5 U vs
Ethylbenzene	µg/kg	1,000 ^A 390,000 ^B	5.9 U vs	5.7 U vs	5.6 U	5.1 U vs	6.7 U vs	5.5 U vs
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/kg	100,000 _a ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U	5.1 U vs	6.7 U vs	5.5 U vs
Hexanone, 2- (Methyl Butyl Ketone)	µg/kg	100,000 _a ^A 500,000 _c ^B	30 U vs	29 U vs	28 U vs	25 U vs	33 U vs	28 U vs
Isopropylbenzene	µg/kg	100,000 _a ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U
Isopropyltoluene, p- (Cymene)	µg/kg	100,000 _a ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U	6.7 U vs	5.5 U
Methyl Acetate	µg/kg	100,000 _a ^A 500,000 _c ^B	30 U vs	29 U vs	28 U vs	25 U vs	33 U vs	28 U vs
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/kg	120 ^A 500,000 _c ^B	30 U vs	29 U vs	28 U vs	25 U vs	33 U vs	28 UJ
Methyl Isobutyl Ketone (MIBK)	µg/kg	100,000 _a ^A 500,000 _c ^B	30 U vs	29 U vs	28 U	25 U vs	33 U vs	28 U vs
Methyl tert-butyl ether (MTBE)	µg/kg	930 ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Methylcyclohexane	µg/kg	100,000 _a ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U	5.1 U vs	6.7 U vs	5.5 U vs
Methylene Chloride (Dichloromethane)	µg/kg	50 ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Naphthalene	µg/kg	12,000 ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Propylbenzene, n-	µg/kg	3,900 ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U	5.1 U vs	6.7 U vs	5.5 U vs
Styrene	µg/kg	100,000 _a ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U	5.1 U vs	6.7 U vs	5.5 U vs
Tetrachloroethane, 1,1,2,2-	µg/kg	100,000 _a ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Tetrachloroethene (PCE)	µg/kg	1,300 ^A 150,000 ^B	5.9 U vs	5.7 U vs	5.7	61	6.7 U vs	5.5 U vs
Toluene	µg/kg	700 ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U	5.1 U vs	6.7 U vs	5.5 U vs
Trichlorobenzene, 1,2,4-	µg/kg	100,000 _a ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U	5.1 U vs	6.7 U vs	5.5 U vs
Trichloroethane, 1,1,1-	µg/kg	680 ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Trichloroethane, 1,1,2-	µg/kg	100,000 _a ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Trichloroethene (TCE)	µg/kg	470 ^A 200,000 ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.5	6.7 U vs	5.5 U vs
Trichlorofluoromethane (Freon 11)	µg/kg	100,000 _a ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Trichlorotrifluoroethane (Freon 113)	µg/kg	100,000 _a ^A 500,000 _c ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Trimethylbenzene, 1,2,4-	µg/kg	3,600 ^A 190,000 ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Trimethylbenzene, 1,3,5-	µg/kg	8,400 ^A 190,000 ^B	5.9 U vs	5.7 U vs	5.6 U	5.1 U vs	6.7 U vs	5.5 U
Vinyl Chloride	µg/kg	20 ^A 13,000 ^B	5.9 U vs	5.7 U vs	5.6 U vs	5.1 U vs	6.7 U vs	5.5 U vs
Xylenes, Total	µg/kg	260 ^A 500,000 _c ^B	12 U vs	11 U vs	11 U	10 U vs	13 U vs	11 U vs

See notes on last page.

Table 1
Summary of Analytical Results in Soil
42, 46, 50, and 58-66 Canal Street
Lyons, Wayne County, NY

Notes:	
NYSDEC-Part 375	NYSDEC 6 NYCRR Part 375 Soil Clean-up Objectives (SCOs)
A	NYSDEC 6 NYCRR Part 375 - Unrestricted Use Soil Cleanup Objectives
B	NYSDEC 6 NYCRR Part 375 - Restricted Use SCO - Protection of Human Health - Commercial
6.5 ^A	Concentration exceeds the indicated standard.
15.2	Measured concentration did not exceed the indicated standard.
0.50 U	Laboratory reporting limit was greater than the applicable standard.
0.03 U	Analyte was not detected at a concentration greater than the laboratory reporting limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.
a	The SCOs for unrestricted use were capped at a maximum value of 100 mg/kg. See 6 NYCRR Part 375 TSD Section 9.3
c	The SCOs for commercial use were capped at a maximum value of 500 mg/kg. See TSD Section 9.3.
g	For constituents where the calculated SCO was lower than the rural soil background concentration as determined by the DEC/DOH rural soil survey, the rural soil background concentration is used as the Track 2 SCO value for this use of the site.
i	The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.
k	This SCO is the lower of the values for mercury (elemental) or mercury (inorganic salts). See 6 NYCRR Part 375 TSD Table 5.6-1.
m	For constituents where the calculated SCO was lower than the Contract Required Quantitation Limit (CRQL), the CRQL is used as the Track 1 SCO value.
n	For constituents where the calculated SCO was lower than the rural soil background concentration as determined by the DEC/DOH rural soil survey, the rural soil background concentration is used as the Track 1 SCO value for this use of the site.
n.i	For constituents where the calculated SCO was lower than the rural soil background concentration as determined by the DEC/DOH rural soil survey, the rural soil background concentration is used as the Track 1 SCO value for this use of the site.
o	The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.
J	Standard is applicable to total PCBs, and the individual Aroclors should be added for comparison.
N	The reported result is an estimated value.
ND	Indicates presumptive evidence of a compound. Identification of tentatively identified compound is based on a mass spectral library search.
T	Not detected.
UJ	Indicates analysis as total metal concentration
vs	Indicates estimated non-detect.
	Sample bottle contained visible sediment. Sample was shaken to obtain representative aliquot. Result may be biased high due to analyte present in sediment.

APPENDICES

APPENDIX A – REGULATED BUILDING MATERIAL REPORTS

ASBESTOS LEAD PAINT AND PCB CAULK SURVEY REPORT

**Abandoned Building
42 Canal Street
Lyons, Wayne County, New York**

Prepared For:

Wayne County
Contact: Brian Pincelli
9 Pearl Street, 2nd Floor
Lyons, New York 14489

Prepared By:

Lu Engineers
339 East Avenue, Suite 200
Rochester, New York 14604

July 2022

Project No. 50514-01



ASBESTOS, LEAD PAINT AND PCB CAULK SURVEY REPORT

Abandoned Building
42 Canal Street
Lyons, Wayne County, New York

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ATTACHMENTS

ATTACHMENT A	Licenses and Certifications
ATTACHMENT B	Field Data Sheet
ATTACHMENT C	Sample Location Plans, Analytical Reports, and Chain of Custody Forms
ATTACHMENT D	Asbestos Location Plans and Asbestos Inspection Summary Table

ATTACHMENTS (cont'd)

ATTACHMENT E

Lead Paint Inspection Report

1.0 INTRODUCTION AND PROJECT OVERVIEW

Lu Engineers was retained by Wayne County to provide an asbestos, lead paint and PCB caulk survey of the building located at 42 Canal Street, in Lyons, Wayne County, New York. This survey was performed in anticipation of planned redevelopment of the property.

The asbestos, lead paint and PCB caulk survey was conducted on June 17, 2022. The intent of this survey was to determine the presence and quantity of asbestos containing materials, lead paint and PCB containing caulk. The asbestos survey was conducted in accordance with New York State Department of Labor (NYSDOL) Industrial Code Rule (ICR) 56 by certified inspectors from Lu Engineers. A copy of Lu Engineers' license and inspectors' certifications can be found in Attachment A.

1.1 Records Review

Record drawings of the building or previous surveys were not available for review prior to conducting the asbestos survey.

2.0 SITE INSPECTION

2.1 Asbestos

One of the purposes of the visual inspection was to identify homogeneous areas of suspect asbestos containing materials that exist throughout the area of inspection, as defined in the scope of work. The Asbestos Hazard Emergency Response Act (AHERA) regulations define a homogeneous area as, "... an area of surfacing material, thermal insulation material, or miscellaneous material that is uniform in color and texture." Furthermore, homogeneous areas should consist of the same age and application.

The inspectors identified homogeneous areas that were present within the building. The suspect asbestos materials were given a homogeneous identification number based on color and texture of the material. A list of homogeneous area numbers of the materials encountered is included with the Asbestos Result Table in Section 3.1. Each room was given an identification (ID) number. The room ID number correlates with the ID number found on the Field Data Sheet in Attachment B. The Field Data Sheet details the specific homogenous materials identified within each room/space.

Occupational Safety and Health Administration (OSHA) and 40 CFR 763 Subpart E – Asbestos Hazard Emergency Response Act (AHERA) bulk sampling protocols were followed.

- Three (3) samples of a homogenous surfacing material in quantities of 1,000 Square Feet (SF) or less were collected.

- Five (5) samples of a homogenous surfacing material in quantities greater than 1,000 SF but less than 5,000 SF were collected.
- Seven (7) samples of a homogenous surfacing material in quantities greater than 5,000 SF were collected.
- Three (3) samples of Thermal System Insulation (TSI) material were collected.
- Two (2) samples of each miscellaneous material were collected.

The suspect asbestos containing materials were extracted using various hand tools, containerized and labeled with unique sample identification numbers. Samples were submitted to the laboratory using standard chain of custody protocols.

Paradigm Environmental Services was the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) approved laboratory used for analysis. A copy of Paradigm's credentials is located in Attachment A.

Friable samples were analyzed using NYS ELAP Method 198.1, Polarized Light Microscopy (PLM). Non-friable organically bound (NOB) samples were analyzed using NYS ELAP Method 198.6 (PLM) and, if found to be negative, NYS ELAP Method 198.4, Transmission Electron Microscopy (TEM). All Samples were analyzed via stop positive protocols meaning that once a positive sample of a series was found, the other samples were not analyzed.

Twenty-six (26) bulk samples were collected from the building as part of this project.

The sample identification number indicated on the Bulk Sample Location Plan corresponds to the homogeneous ID numbers which are also located on the laboratory analytical report and the chain of custody forms. The Bulk Sample Location Plan, laboratory analytical report and the chain of custody forms are included in Attachment C.

2.2 PCB Caulks

No suspect PCB caulks were sampled during Lu Engineer's site investigation.

2.3 Lead Paint

Steven Davis, an EPA Certified Lead Risk Assessor from Lu Engineers, conducted the lead inspection. A copy of Lu Engineers License and the Risk Assessor's Certification is included in Attachment A.

A RMD model LPA-1 XRF analyzer was used to test total of twenty-three (23) surfaces. The analyzer was calibrated before and after each area with a National Institute of Standards and Technology (NIST) calibration block in accordance with the manufacturer's calibration procedures.

Testing combinations were identified during the room-by-room surface investigation. Each XRF reading is identified by the side of the room it was collected from (A, B, C & D), the component analyzed and the substrate. The A wall is always the wall on the entry side of the space. Sides "B, C and D" progress in a clockwise direction from side "A". Representative samples of building components were collected.

The paint condition can be: I (*Intact*), F (*Fair*), or P (*Poor*). *Intact* paint is defined as no peeling paint on the component, or the entire surface is intact. For large components (such as walls, ceilings, floors, and doors), *Fair* paint is defined as less than or equal to 2 square feet of peeling or damaged paint and *Poor* paint is defined as more than 2 square feet of peeling or damaged paint. For small components (such as baseboards, moldings, and window frames), *Fair* paint is defined as less than or equal to 10% of the total surface area with peeling or damaged paint and *Poor* paint is defined as more than 10% of the total surface area has peeling or damaged paint. All of the painted surfaces were intact throughout the building.

The Mode used to obtain the calibration values was TC (time corrected mode). All of other readings were taken in the QM (quick mode). None of the surfaces tested required substrate correction based on the guidance provided by the LPA-1 performance characteristic sheet, as all readings were obtained in quick mode.

The lead concentrations are provided in mg/cm². XRF readings greater than or equal to 1.0 mg/cm² are considered to be lead-based paint. Copies of these XRF readings are included in Attachment E.

2.4 Miscellaneous Materials

Suspect miscellaneous hazardous materials were assessed throughout the building. High Intensity Discharge (HID) and fluorescent light bulbs that typically contain mercury, low/high pressure sodium, metal halide, and phosphorus were identified.

3.0 ANALYTICAL RESULTS

3.1 Asbestos Results

As defined by the New York State Department of Labor (NYSDOL) 12 NYCRR 56, a sample is considered to be asbestos containing if it contains greater than 1% asbestos by weight based on laboratory analysis.

A list of Homogeneous Areas (HA) identified for the building area surveyed is included below. The **bold** and *italicized* HA description indicates that the material is positive, based on the sample results.

Homogeneous Area No. (HA)	Description	Condition	Friability	Asbestos Content
1	Dark Red 9" x 9" Floor Tile	Intact	NF	Chrysotile 2.0%
2	Black Floor Tile Mastic	Intact	NF	Chrysotile 2.1%
3	Black Vapor Barrier (under HA #1 and 2)	Intact	NF	Chrysotile 7.5%
4	White Finish Coat Plaster	Intact	F	NAD
5	Grey Rough Coat Plaster	Intact	F	NAD
6	Tan 2' x 1' Ceiling Tile (Stapled to Furring Strips)	Intact	F	Note 1
7	Green 9" x 9" Floor Tile with Tan Streaks	Intact	NF	Chrysotile 5.8%
8	Black Floor Tile Mastic	Intact	NF	Chrysotile 2.0%
9	White Drywall (Furring Strips at Seams)	Intact	F	NAD
10	Cloth Wiring	Intact	NF	Assumed
11	Grey Boiler Insulation	Damaged	F	Chrysotile 40%
12	Grey Aircell Pipe Insulation	Damaged	F	Chrysotile 80%

NAD – No Asbestos Detected

F – Friable; NF – Non-Friable

Note 1 - <1.0% residue remaining, PLM and TEM not required.

3.2 PCB Caulk Results

EPA defines PCB bulk waste, "as waste derived from manufactured products containing PCBs in a non-liquid state, at any concentration where the concentration at the time of designation for disposal was > 50 ppm PCBs". Solid wastes containing 50 ppm by weight or greater are listed hazardous wastes in New York State (6 NYCRR Part 371.4(C)).

No suspect PCB caulks were identified or sampled at the time of this survey.

3.3 Lead Paint Results

According to the United States Environmental Protection Agency (EPA), paint is considered lead-based if the concentration is equal to or greater than 0.5% by weight or 1.0 mg/mm².

According to the Occupational Safety and Health Administration (OSHA), lead means metallic lead, all inorganic lead compounds and organic soaps with any concentrations of lead. Therefore, all samples collected are considered lead containing per OSHA standards.

Based on XRF analysis of painted and ceramic surfaces tested, there were six (6) lead based surfaces identified. Refer to Attachment E for detailed lead reports.

4.0 ASBESTOS MATERIALS AND APPROXIMATE QUANTITIES

Asbestos exists throughout the inspected areas. Based on the analytical results, the following table identifies the Homogeneous Areas that contain asbestos along with the material description and approximate quantity.

Homogeneous Area No. (HA)	Description	Approximate Quantity
1	Dark Red 9" x 9" Floor Tile	1,000 SF
2	Black Floor Tile Mastic	1,000 SF
3	Black Vapor Barrier (under HA #1 and 2)	1,000 SF
7	Green 9" x 9" Floor Tile with Tan Streaks	1,000 SF
8	Black Floor Tile Mastic	1,000 SF
10	Cloth Wiring	3 LF
11	Grey Boiler Insulation	94 SF
12	Grey Aircell Pipe Insulation	5 LF

SF = Square Feet

LF = Linear Feet

5.0 LIMITATIONS OF THE INVESTIGATION

This report has been prepared for the exclusive use of the client. This report relies on information supplied by the building owner, employees, tenants and other sources of information. Lu Engineers has prepared this report in accordance with generally accepted practices within the industry.

This report identifies and assesses the location, quantity, and condition of materials that were accessible and visible at the time of sampling. The condition of the suspect materials is based on the actual inspection date. The quantities indicated in the report are based on the visual inspection and are only estimates of the material present. Additional quantities may exist above ceilings, behind walls or in areas of the building beyond the scope of the survey.

This survey is not intended to be an abatement design. Per NYCRR 56, an abatement design must be completed by a certified Project Designer.

This survey is intended to be a pre-demolition survey. Destructive measures were taken with attempts to identify materials that may be not immediately visible.

6.0 RECOMMENDATIONS

6.1 Asbestos Containing Materials

Asbestos containing materials have been identified as part of this assessment as shown in Section 4.0. The locations of asbestos containing materials and a summary of quantities are included in Attachment D.

NYCRR 56 requires that a copy of this survey be submitted to the local agency where the demolition permit will be issued and the regional office of the New York State Department of Labor. Upon acceptance of this report, Lu Engineers can submit this report to the NYSDOL upon request of the client.

In accordance with 12 NYCRR 56, no renovation or demolition work shall be commenced by any owner or agent prior to completion of asbestos abatement performed by a licensed asbestos abatement contractor. NYSDOL regulations require that the asbestos containing material that will be disturbed by the renovation or demolition be removed prior to any disturbance of the material.

If suspect asbestos containing materials not identified in this asbestos survey report are discovered during the demolition and/or renovation process; it is required that the presence, location, and quantity of newly discovered material, be conveyed within twenty-four (24) hours of discovery to the building owner or their representative. All activities must cease in the area where the presumed asbestos containing material or suspect miscellaneous ACM is found, until a licensed asbestos contractor appropriately assesses and manages the discovered materials.

6.2 PCB Caulk

Caulks containing 50 parts per million (ppm) by weight (on a dry weight basis for other than liquid wastes) or greater of PCBs may be listed as hazardous waste in accordance with New York State Department of Conservation regulations (6 NYCRR Part 371). PCB wastes are also regulated by EPA in the 40 CFR Part 761 regulations.

There were no PCB containing caulks identified as part of this survey.

6.3 Lead Paint

According to the United States Environmental Protection Agency (USEPA), paint is considered lead based if the concentration is equal to or greater than 0.5% by weight or 1.0 mg/mm². The Occupational Safety and Health Administration (OSHA) Regulation in 29 CFR 1926.62 considers any amount of lead in paint to be of concern. The regulation states that the employer shall assure that no employee is exposed to lead concentrations greater than fifty micrograms per cubic meter (50 mg/m³) of air averaged over an eight-hour period.

Lead Paint was identified as part of this survey that will require special handling and disposal when removed. A lead worker protection specification, consistent with OSHA regulations, is recommended for the project.

6.4 Miscellaneous Materials

According to the New York State Department of Environmental Conservation (NYSDEC), standard fluorescent bulbs may contain mercury and HID light bulbs may contain mercury vapor, high pressure sodium, or metal halide and they must be treated as hazardous waste unless they pass the Toxicity Characteristics Leaching Procedure (TCLP). Lamps that fail the TCLP must be managed in accordance with New York State Hazardous Waste Regulations or the Universal Waste Rule (UWR), 6 NYCRR 374-3.

Light bulbs observed appear to be a mixture of HID and fluorescent bulbs. Disposal of these fixtures shall be according to NYSDEC regulations and USEPA Resource and Recovery Act (RCRA) regulations.

ATTACHMENT A

License and Certifications



ASBESTOS, LEAD PAINT and PCB CAULK SURVEY

ABADONED BUILDING
42 CANAL STREET
LYONS, WAYNE COUNTY, NEW YORK

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

Joseph C. Lu Engineering, P.C.
Suite 200
339 East Avenue
Rochester, NY 14604

FILE NUMBER: 99-0907
LICENSE NUMBER: 29286
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 04/20/2022
EXPIRATION DATE: 04/30/2023

Duly Authorized Representative – Mitchell Smith:

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.

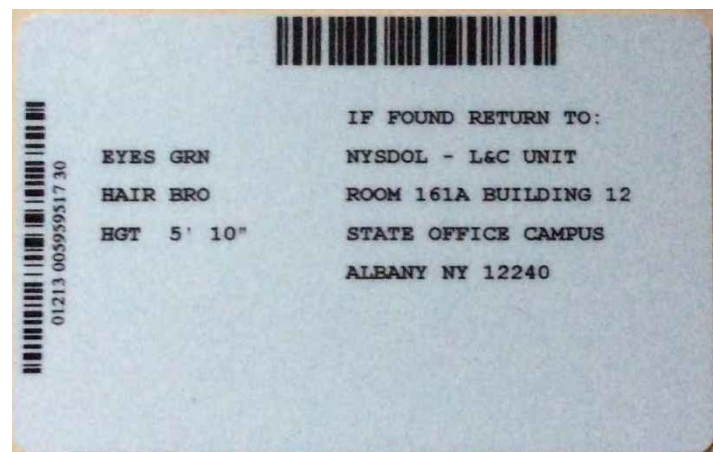
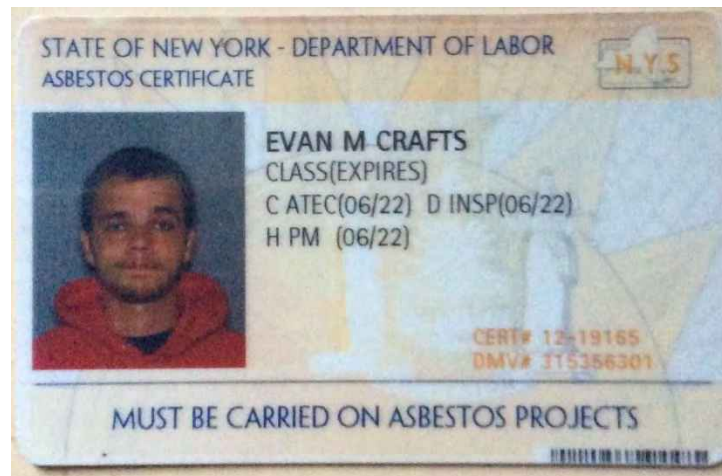
This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate,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



Amy Phillips, Director
For the Commissioner of Labor



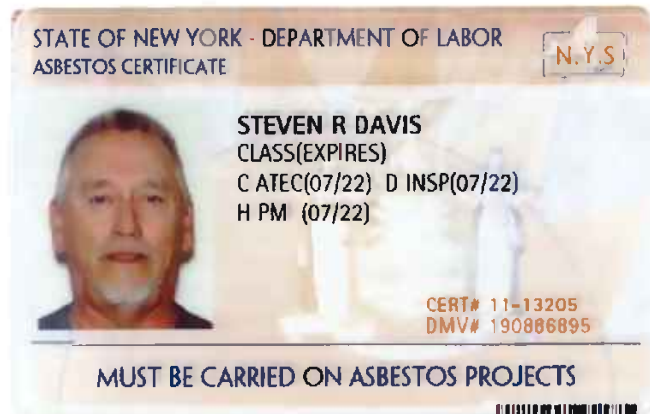
339 East Avenue, Suite 200
Rochester, New York 14604



EVAN CRAFTS
C – Air Sampling Technician
D – Inspector
H – Project Monitor



339 East Avenue, Suite 200
Rochester, New York 14604



EYES GRN
HAIR BRO
HGT 6' 01"

IF FOUND RETURN TO:
NYSDEL - L&C UNIT
ROOM 161A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

Steven Davis
D - Inspector
C - Air Technician
H- Project Monitor

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2023
Issued April 01, 2022

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. STEVE DEVITO
PARADIGM ENVIRONMENTAL SERVICES INC
179 LAKE AVENUE
ROCHESTER, NY 14608

NY Lab Id No: 10958

*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
Lead in Dust Wipes	EPA 6010C
Lead in Paint	EPA 6010C

Sample Preparation Methods

EPA 3050B

Serial No.: 64534

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.

ATTACHMENT B

Field Data Sheet



Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

ASBESTOS, LEAD PAINT and PCB CAULK SURVEY

ABANDONED BUILDING

42 CANAL STREET

LYONS, WAYNE COUNTY, NEW YORK

Field Data Sheet

Building Name: Abandoned Building

Project Number: 50514-01

Building Address: 42 Canal Street

Inspection Date: 6/17/2022

Lyons, Wayne County, New York

Space I.D.	Walls				Floor	Ceiling	TSI	Miscellaneous	Notes
	N	S	E	W					
First Floor Store Front	4, 5, Brick	4, 5, Brick	4, 5, Brick	4, 5, Brick	1, 2, 3, Hardwood	6, 4, 5			
Stairs to Basement	-	-	Wood	Wood	1, 2, 3, Wood				
Basement Open Area	9, Brick	9, Brick	9, Brick	9, Brick	7, 8, Concrete	9			
Basement Bathroom	9	9, Brick	9, Brick	9	7, 8, Concrete	9			
Basement Boiler Room	9	9	9	Metal Pan, 9, Brick	Concrete	Metal Pan	11, 12		

ATTACHMENT C

*Sample Location Plans,
Analytical Reports and
Chain of Custody Forms*

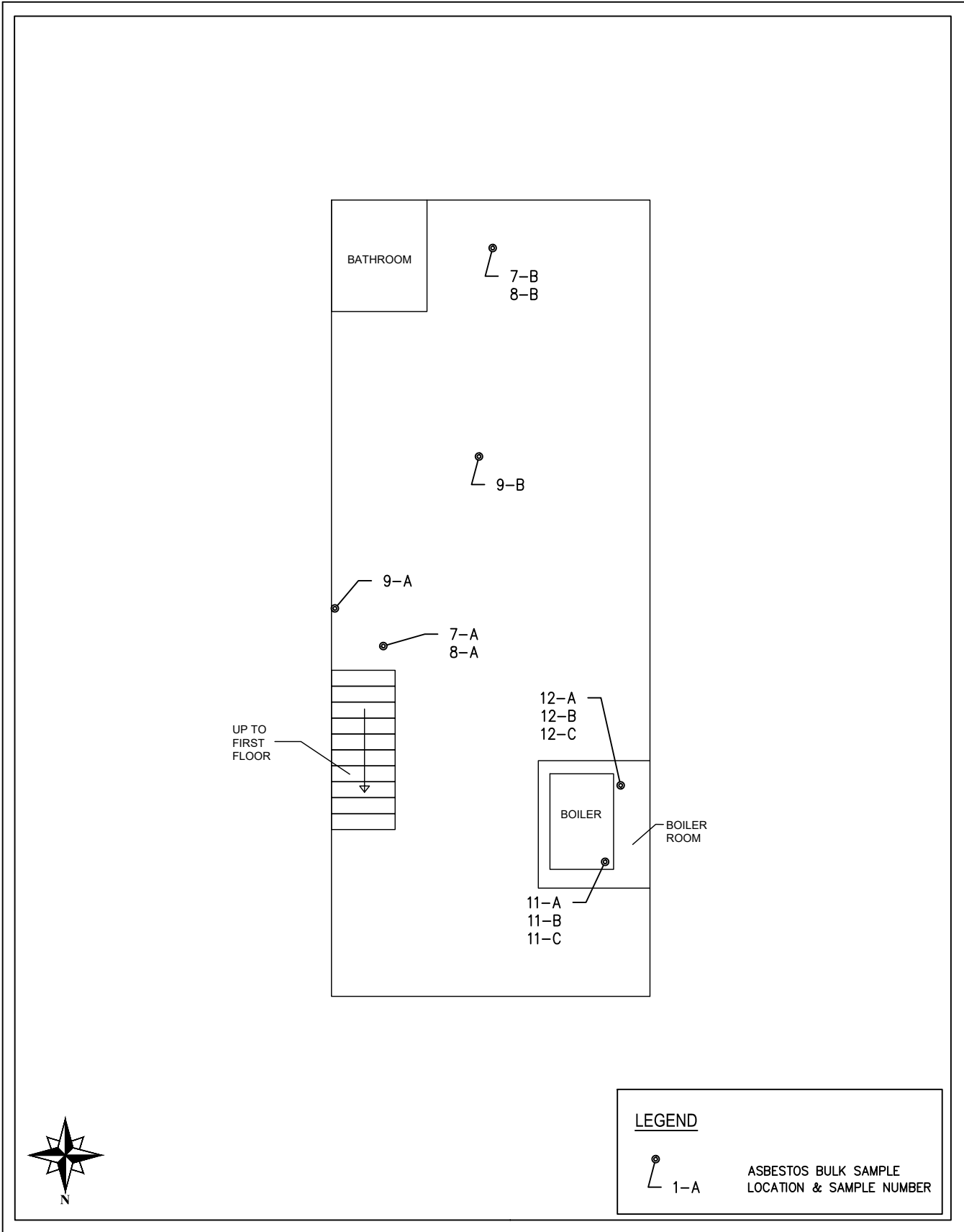


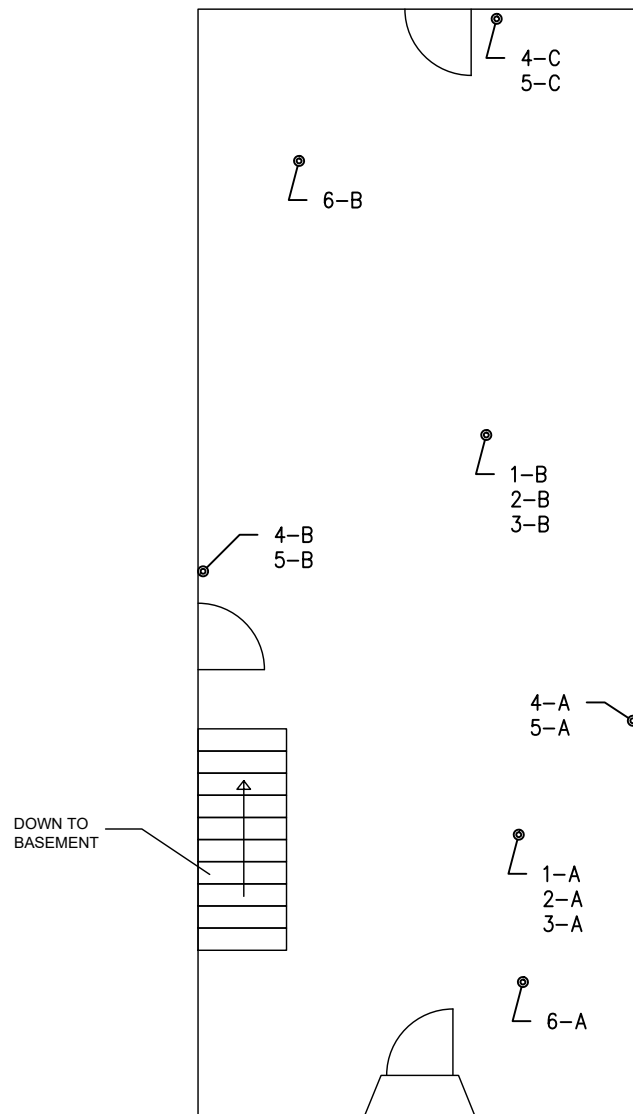
ASBESTOS, LEAD PAINT and PCB CAULK SURVEY

ABANDONED BUILDING

42 CANAL STREET

LYONS, WAYNE COUNTY, NEW YORK





LEGEND



ASBESTOS BULK SAMPLE
LOCATION & SAMPLE NUMBER

FIGURE 2. BULK SAMPLE LOCATION PLAN

42 CANAL STREET
LYONS | WAYNE COUNTY | NEW YORK

FIRST FLOOR PLAN

DATE: JULY 2022

SCALE: N.T.S.

PROJECT NO: 50514-01



PLM & TEM BULK ASBESTOS ANALYSIS REPORT
via NYSDOH ELAP Method 198.1, 198.4 and 198.6

Client: Lu Engineers
Location: Wayne County Land Bank - Canal Street
42 Canal Street, Lyons, New York
Sample Date: 6/17/2022

Job No: 4681-22
Page: 1 of 6

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	N O B	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	Non- Fibrous Matrix Material %
1-A	41096	First Floor Store Front North Side	Dark Red 9"x9" Floor Tile	Chrysotile 2.0%	2.0%	✓	Not Required	N/A	None Detected	98%
1-B	41097	First Floor Store Front Middle	Dark Red 9"x9" Floor Tile	STOP	POSITIVE	X	SAMPLE	NOT	ANALYZED	N/A
2-A	41098	First Floor Store Front North Side	Black Floor Tile Mastic	Chrysotile 2.1%	2.1%	✓	Not Required	N/A	None Detected	97.9%
2-B	41099	First Floor Store Front Middle	Black Floor Tile Mastic	STOP	POSITIVE	X	SAMPLE	NOT	ANALYZED	N/A
3-A	41100	First Floor Store Front North Side	Black Vapor Barrier	Inconclusive Trace Chrysotile Detected	<1.0%	✓	Chrysotile 7.5%	7.5%	None Detected	92.5%
3-B	41101	First Floor Store Front Middle	Black Vapor Barrier	Inconclusive No Asbestos Detected	0%	✓	Stop Positive ** No TEM	N/A	None Detected	100%
4-A	41102	First Floor Store Front West Wall	White Finish Coat Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
4-B	41103	First Floor Store Front East Wall	White Finish Coat Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
4-C	41104	First Floor Store Front South Wall	White Finish Coat Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
5-A	41105	First Floor Store Front West Wall	Gray Rough Coat Plaster	None Detected	0%		Not Required	N/A	None Detected	100%

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).

✓ NOB (non-friable organically bound) denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.

⚡ denotes material analyzed by ELAP Method 198.6 (PLM) per NYSDOH. This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.

denotes friable material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.

X denotes sample prepped only by ELAP Method 198.6.

** 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.

PLM Bulk Asbestos Analysis by New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.") or EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200530-0).



Lab Code 200530-0 for PLM Analysis

Microscope: Olympus BH-2 #211874

PLM Analyst: T. Bush

Date of Analysis: 7/8/2022

Microscope: JEOL-100CX-II #EM-156094-87

TEM Analyst: M. Lochner

Date of Analysis: 7/9/2022

Laboratory Results Approved By:

Asbestos Technical Director or Designee

Fernanda Weinman

Paradigm Environmental Services, Inc. is not responsible for the data supplied by an independent inspector. 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. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Quality control data (including 95% confidence limits and/or laboratory and analysts' precision) is available upon request.

ELAP ID No.: 10958



PLM & TEM BULK ASBESTOS ANALYSIS REPORT
via NYSDOH ELAP Method 198.1, 198.4 and 198.6

Client: Lu Engineers
Location: Wayne County Land Bank - Canal Street
42 Canal Street, Lyons, New York

Job No: 4681-22
Page: 2 of 6

Sample Date: 6/17/2022

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	N O B	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	Non- Fibrous Matrix Material %
5-B	41106	First Floor Store Front East Wall	Gray Rough Coat Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
5-C	41107	First Floor Store Front South Wall	Gray Rough Coat Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
6-A	41108	First Floor Store Front North	Tan 2'x1' Ceiling Tile	<1.0% Residue Remaining. PLM and TEM Not Required.	N/A	X	N/A	N/A	N/A	N/A
6-B	41109	First Floor Store Front South	Tan 2'x1' Ceiling Tile	<1.0% Residue Remaining. PLM and TEM Not Required.	N/A	X	N/A	N/A	N/A	N/A
7-A	41110	Basement at Stairs	Green 9"x9" Floor Tile with Tan Streaks	Chrysotile 5.8%	5.8%	✓	Not Required	N/A	None Detected	94.2%
7-B	41111	Basement South	Green 9"x9" Floor Tile with Tan Streaks	STOP	POSITIVE	X	SAMPLE	NOT	ANALYZED	N/A
8-A	41112	Basement at Stairs	Black Floor Tile Mastic	Inconclusive No Asbestos Detected	0%	✓	Chrysotile 2.0%	2.0%	None Detected	98%
8-B	41113	Basement South	Black Floor Tile Mastic	Inconclusive Trace Chrysotile Detected	<1.0%	✓	Stop Positive ** No TEM	N/A	None Detected	100%
9-A	41114	Basement East Wall	White Drywall	None Detected	0%		Not Required	N/A	None Detected	100%
9-B	41115	Basement Middle Ceiling	White Drywall	None Detected	0%		Not Required	N/A	Cellulose 5%	95%

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).

✓ NOB (non-friable organically bound) denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.

✓ denotes material analyzed by ELAP Method 198.6 (PLM) per NYSDOH. This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.

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Lab Code 200530-0 for PLM Analysis

Microscope: Olympus BH-2 #211874

PLM Analyst: T. Bush

Date of Analysis: 7/8/2022

Microscope: JEOL-100CX-II #EM-156094-87

TEM Analyst: M. Lochner

Date of Analysis: 7/9/2022

Laboratory Results Approved By:
Asbestos Technical Director or Designee

Fernanda Weinman
Fernanda Weinman

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ELAP ID No.: 10958



PLM & TEM BULK ASBESTOS ANALYSIS REPORT
via NYSDOH ELAP Method 198.1, 198.4 and 198.6

Client: Lu Engineers
Location: Wayne County Land Bank - Canal Street
42 Canal Street, Lyons, New York

Job No: 4681-22
Page: 3 of 6

Sample Date: 6/17/2022

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	N O B	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	Non- Fibrous Matrix Material %
11-A	41116	Basement on Boiler	Gray Fibrous Boiler Insulation	Chrysotile 40%	40%		Not Required	N/A	Cellulose 10%	50%
11-B	41117	Basement on Boiler	Gray Boiler Insulation	STOP	POSITIVE		SAMPLE	NOT	ANALYZED	N/A
11-C	41118	Basement on Boiler	Gray Boiler Insulation	STOP	POSITIVE		SAMPLE	NOT	ANALYZED	N/A
12-A	41119	Basement Boiler Room on Piping	Gray Fibrous Aircell Pipe Insulation	Chrysotile 80%	80%		Not Required	N/A	None Detected	20%
12-B	41120	Basement Boiler Room on Piping	Gray Aircell Pipe Insulation	STOP	POSITIVE		SAMPLE	NOT	ANALYZED	N/A
12-C	41121	Basement Boiler Room on Piping	Gray Aircell Pipe Insulation	STOP	POSITIVE		SAMPLE	NOT	ANALYZED	N/A

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).
 √ NOB (non-friable organically bound) denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.
 √ denotes material analyzed by ELAP Method 198.6 (PLM) per NYSDOH. This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.
 # denotes friable material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.
 X denotes sample prepped only by ELAP Method 198.6.
 ** 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.

PLM Bulk Asbestos Analysis by New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.") or EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200530-0),



Lab Code 200530-0 for PLM Analysis

Microscope: Olympus BH-2 #211874

PLM Analyst: T. Bush

Date of Analysis: 7/11/2022

Microscope: JEOL-100CX-II #EM-156094-87

TEM Analyst: N/A

Date of Analysis: N/A

Laboratory Results Approved By:
Asbestos Technical Director or Designee

Fernanda Weinman

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ELAP ID No.: 10958

Bulk Sample Chain of Custody



Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

42865
4681-22
1083

Project Name: Wayne County Land Bank – Canal Street		Lu Project # 50514-01	
Site Address: 42 Canal Street, Lyons, New York		Laboratory Name: Paradigm Environmental Services	
Results to: Lu Engineers 339 East Avenue, Suite 200 Rochester, NY 14604 Email: msmith@luengineers.com , sdavis@luengineers.com , ecrafts@luengineers.com		Laboratory Address: 179 Lake Avenue Rochester, New York	
Sample Type ☒ NYS ELAP PLM/TEM ☐ PLM Only ☐ TEM Only		Turn Around Time ☐ Immediate ☐ 12 HR ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 Day	
		Comments: STOP POSITIVE	

FIELD ID	SAMPLE LOCATION	MATERIAL	NOTES
4096 1-A	First Floor, Store Front – North Side	Dark Red 9" x 9" Floor Tile	
097 1-B	First Floor, Store Front – Middle	Dark Red 9" x 9" Floor Tile	
098 2-A	First Floor, Store Front – North Side	Black Floor Tile Mastic	
099 2-B	First Floor, Store Front – Middle	Black Floor Tile Mastic	
100 3-A	First Floor, Store Front – North Side	Black Vapor Barrier	Under HA # 1 and 2
101 3-B	First Floor, Store Front – Middle	Black Vapor Barrier	Under HA # 1 and 2
102 4-A	First Floor, Store Front – West Wall	White Finish Coat Plaster	
103 4-B	First Floor, Store Front – East Wall	White Finish Coat Plaster	
104 4-C	First Floor, Store Front – South Wall	White Finish Coat Plaster	
105 5-A	First Floor, Store Front – West Wall	Grey Rough Coat Plaster	

Date Sampled: 6-17-2022
Inspector: S. Davis/ E.Crafts
Relinquished By: Date/Time: 7/5/22
Received By: Date/Time: 7.5.22 1030

Bulk Sample Chain of Custody



Project Name: Wayne County Land Bank – Canal Street
Site Address: 42 Canal Street, Lyons, New York
Results to:
Lu Engineers
 339 East Avenue, Suite 200
 Rochester, NY 14604
 Email: msmith@luengineers.com, sdavis@luengineers.com, ecrafts@luengineers.com

Lu Project # 50514-01
Laboratory Name: Paradigm Environmental Services
Laboratory Address: 179 Lake Avenue
 Rochester, New York

Turn Around Time
☐ Immediate ☐ 12 HR
☐ 24 HR ☐ 48 HR
☐ 72 HR ☒ 5 Day

Comments:
 STOP POSITIVE

FIELD ID	SAMPLE LOCATION	MATERIAL	NOTES
41106 5-B	First Floor, Store Front – East Wall	Grey Rough Coat Plaster	
107 5-C	First Floor, Store Front – South Wall	Grey Rough Coat Plaster	
108 6-A	First Floor, Store Front – North	Tan 2' x 1' Ceiling Tile	Stapled to Furring Strips
109 6-B	First Floor, Store Front – South	Tan 2' x 1' Ceiling Tile	Stapled to Furring Strips
110 7-A	Basement at Stairs	Green 9" x 9" Floor Tile with Tan Streaks	
111 7-B	Basement - South	Green 9" x 9" Floor Tile with Tan Streaks	
112 8-A	Basement at Stairs	Black Floor Tile Mastic	
113 8-B	Basement - South	Black Floor Tile Mastic	
114 9-A	Basement – East Wall	White Drywall	Furring Strips at Seams
115 9-B	Basement – Middle, Ceiling	White Drywall	Furring Strips at Seams

Date Sampled: 6-17-2022
 Inspector: S. Davis/ E.Crafts
 Relinquished By:  Date/Time: 7/5/22
 Received By:  Date/Time: 7.5.22 1031

Bulk Sample Chain of Custody



Lu Engineers
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60865

Project Name: Wayne County Land Bank – Canal Street		Lu Project # 50514-01	
Site Address: 42 Canal Street, Lyons, New York		Laboratory Name: Paradigm Environmental Services	
Results to:		Laboratory Address: 179 Lake Avenue Rochester, New York	
Lu Engineers 339 East Avenue, Suite 200 Rochester, NY 14604 Email: msmith@luengineers.com , sdavis@luengineers.com , ecrafts@luengineers.com		Turn Around Time ☐ Immediate ☐ 12 HR ☐ 24 HR ☐ 48 HR ☒ 72 HR ☒ 5 Day	
		Comments: STOP POSITIVE	

4081-22

3073

FIELD ID	SAMPLE LOCATION	MATERIAL	NOTES
4116	Basement on Boiler	Grey Boiler Insulation	
117	Basement on Boiler	Grey Boiler Insulation	
118	Basement on Boiler	Grey Boiler Insulation	
119	Basement Boiler Room on Piping	Grey Aircell Pipe Insulation	
120	Basement Boiler Room on Piping	Grey Aircell Pipe Insulation	
121	Basement Boiler Room on Piping	Grey Aircell Pipe Insulation	

Date Sampled: 6-17-2022

Inspector: S. Davis/ E.Crafts

Relinquished By

Received By

Date/Time

Date/Time

7/5/22

7.5.22 1032

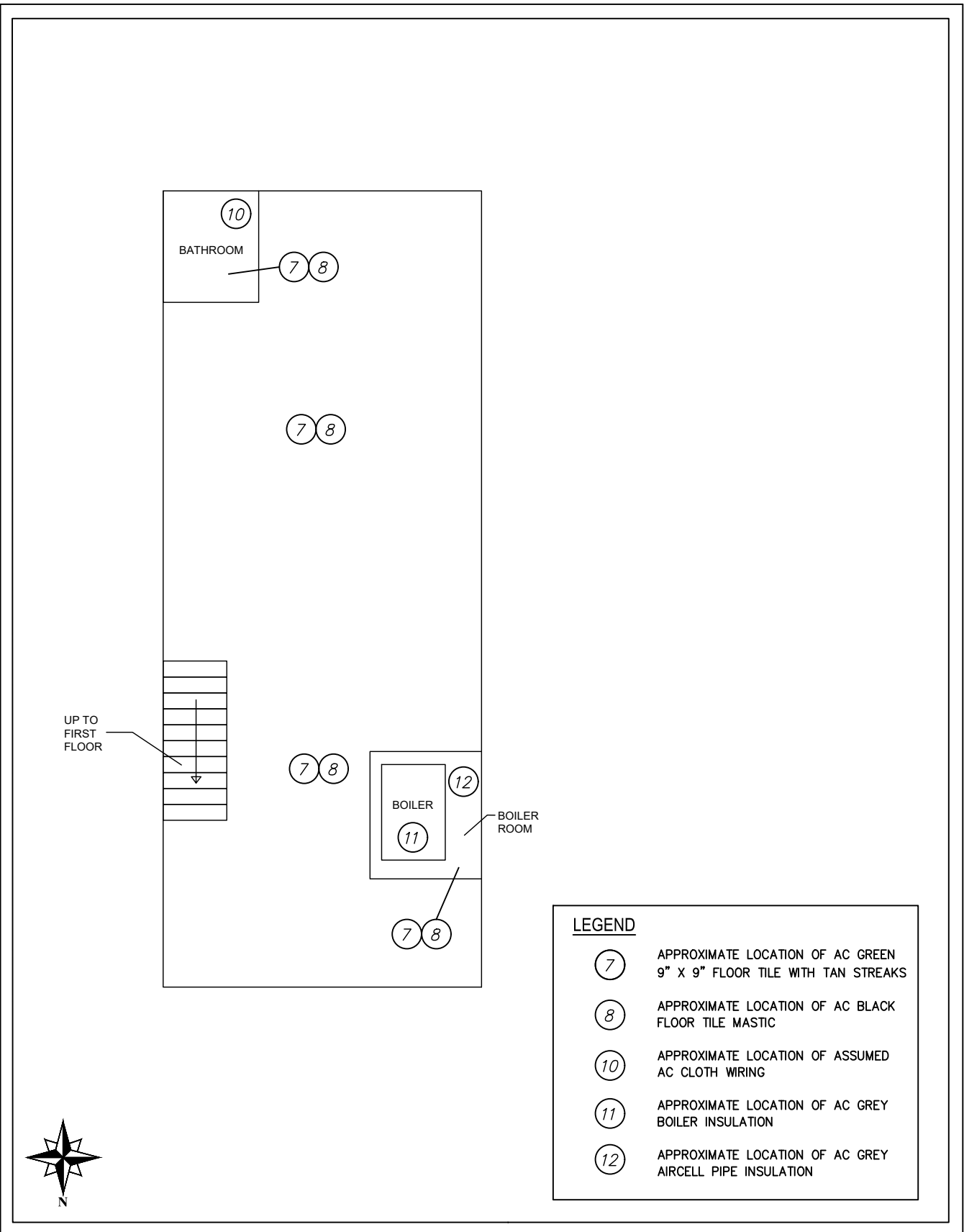
ATTACHMENT D

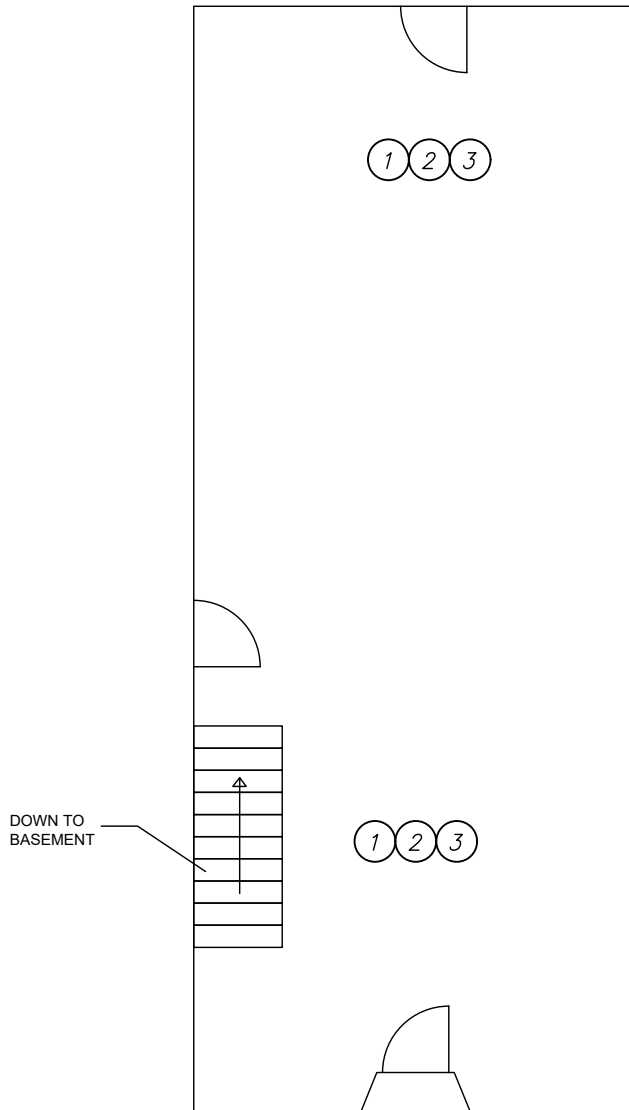
Asbestos Location Plans and Asbestos Inspection Summary Table



ASBESTOS, LEAD PAINT and PCB CAULK SURVEY

ABANDONED BUILDING
42 CANAL STREET
LYONS, WAYNE COUNTY, NEW YORK





LEGEND

- ① APPROXIMATE LOCATION OF AC DARK RED 9" X 9" FLOOR TILE
- ② APPROXIMATE LOCATION OF AC BLACK FLOOR TILE MASTIC
- ③ APPROXIMATE LOCATION OF AC BLACK VAPOR BARRIER

FIGURE 4. ASBESTOS LOCATION PLAN

42 CANAL STREET
LYONS | WAYNE COUNTY | NEW YORK
FIRST FLOOR PLAN

DATE: JULY 2022

SCALE: N.T.S.

PROJECT NO: 50514-01

ATTACHMENT E

Lead Paint Inspection Report



Lu Engineers
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ASBESTOS, LEAD PAINT and PCB CAULK SURVEY

ABANDONED BUILDING

42 CANAL STREET

LYONS, WAYNE COUNTY, NEW YORK

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#02030 - 06/17/22 08:52

INSPECTION FOR: LU Engineering

PERFORMED AT: 42-44 Canal Street
Lyons, NY

INSPECTION DATE: 06/17/22

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 02030

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: LBP-R-128134-1

This report has been produced in accordance with accepted guidelines. The measurement contained within are accurate to the best of our knowledge.

SIGNED: 

Steve Davis
Certified Risk Assessor

Date: 06.18.2022

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: LU Engineering

Inspection Date: 06/17/22 42-44 Canal Street
 Report Date: 6/20/2022 Lyons, NY
 Abatement Level: 1.0
 Report No. S#02030 - 06/17/22 08:52
 Total Readings: 51 Actionable: 17
 Job Started: 06/17/22 08:52
 Job Finished: 06/17/22 12:06

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Exterior Room 001 Ext.Unit									
017	A	Window	Lft	frame	I	wood	purple	8.1	QM
018	A	Window	Lft	trim	I	wood	purple	4.0	QM
019	A	Door	Lft	na	I	wood	White	5.0	QM
Exterior Room 002 2nd.fl									
027	A	Wall	U Lft		I	Plaster	orange	1.0	QM
028	A	Window	Lft	trim	I	wood	White	>9.9	QM
029	B	Wall	U Lft		I	Plaster	orange	>9.9	QM
030	C	Wall	U Lft		I	Plaster	orange	1.0	QM
031	C	Window	Lft	trim	I	wood	White	>9.9	QM
Exterior Room 003 3fdfl									
035	A	Window	Lft	trim	I	wood	brown	>9.9	QM
Exterior Room 004 nw rm									
037	C	Wall	U Lft		I	wood	gray	5.9	QM
Exterior Room 006 3flstair									
045	A	Wall	U Lft		I	Plaster	green	1.7	QM
044	A	Door	Lft	trim	I	wood	gray	>9.9	QM
Interior Room 001 store front									
004	A	Door	Lft	n/a	I	wood	green	>9.9	Std
006	B	Wall	U Lft		I	Concrete	Tan	2.4	Std
009	D	Floor	Lft		I	wood	green	>9.9	QM
Interior Room 003 3fl Ne Room									
039	A	Wall	Ctr		I	Wood	Brown	>9.9	QM
042	C	Wall	Ctr		I	Wood	Brown	>9.9	QM
Calibration Readings									

---- End of Readings ----

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR: LU Engineering

Inspection Date: 06/17/22 42-44 Canal Street
 Report Date: 6/20/2022 Lyons, NY
 Abatement Level: 1.0
 Report No. S#02030 - 06/17/22 08:52
 Total Readings: 51
 Job Started: 06/17/22 08:52
 Job Finished: 06/17/22 12:06

Read No.	Rm No.	Room Name	Wall Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
1		CALIBRATION							0.8	Std
2		CALIBRATION							1.0	Std
3		CALIBRATION							0.9	Std
4	001	store front	A Door		Lft n/a	I	wood	green	>9.9	Std
5	001	store front	B Wall		U Lft	I	Plaster	green	0.0	Std
6	001	store front	B Wall		U Lft	I	Concrete	Tan	2.4	Std
7	001	store front	C Wall		U Lft	I	Plaster	Tan	0.2	QM
8	001	store front	D Wall		U Lft	I	Concrete	green	0.0	QM
9	001	store front	D Floor		Lft	I	wood	green	>9.9	QM
10	001	store front	B Floor		Lft	I	wood	gray	0.1	QM
11	002	Basement	B Stairs		Lft Treads	I	wood	gray	0.0	QM
12	002	Basement	B Ceiling		Lft	I	Plaster	green	0.0	QM
13	002	Basement	A Wall		U Lft	I	Drywall	green	-0.1	QM
14	002	Basement	B Wall		U Lft	I	Plaster	green	0.0	QM
15	002	Basement	C Wall		U Lft	I	Drywall	green	0.1	QM
16	002	Basement	D Wall		U Lft	I	wood	green	0.1	QM
17	001	Ext.Unit	A Window		Lft frame	I	wood	purple	8.1	QM
18	001	Ext.Unit	A Window		Lft trim	I	wood	purple	4.0	QM
19	001	Ext.Unit	A Door		Lft na	I	wood	White	5.0	QM
20	001	Ext.Unit	C Wall		U Lft	I	Brick	White	0.0	QM
21		CALIBRATION							0.8	QM
22		CALIBRATION							1.0	QM
23		CALIBRATION							0.6	QM
24		CALIBRATION							0.7	QM
25		CALIBRATION							1.0	QM
26		CALIBRATION							0.7	QM
27	002	2nd.fl	A Wall		U Lft	I	Plaster	orange	1.0	QM
28	002	2nd.fl	A Window		Lft trim	I	wood	White	>9.9	QM
29	002	2nd.fl	B Wall		U Lft	I	Plaster	orange	>9.9	QM
30	002	2nd.fl	C Wall		U Lft	I	Plaster	orange	1.0	QM
31	002	2nd.fl	C Window		Lft trim	I	wood	White	>9.9	QM
32	002	2nd.fl	D Wall		U Lft	I	Plaster	orange	0.7	QM
33	002	2nd.fl	D Stairs		Lft Wall	I	Plaster	blue	-0.1	QM
34	002	2nd.fl	B Stairs		Lft Wall	I	Plaster	blue	-0.1	QM
35	003	3fdfl	A Window		Lft trim	I	wood	brown	>9.9	QM
36	004	nw rm	B Wall		U Lft	I	Plaster	green	0.2	QM
37	004	nw rm	C Wall		U Lft	I	wood	gray	5.9	QM
38	004	nw rm	D Wall		U Lft	I	Plaster	green	0.0	QM
39	003	3fl Ne Room	A Wall		Ctr	I	Wood	Brown	>9.9	QM

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR: LU Engineering

Read No.	Rm No.	Room Name	Wall Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
40	003	3fl Ne Room	A Wall		Ctr	I Plaster		Green	0.0	QM
41	003	3fl Ne Room	A Window		Ctr Header	I Wood		Brown	0.0	QM
42	003	3fl Ne Room	C Wall		Ctr	I Wood		Brown	>9.9	QM
43	003	3fl Ne Room	D Wall		Ctr	I Plaster		Gray	-0.1	QM
44	006	3flstair	A Door		Lft trim	I wood		gray	>9.9	QM
45	006	3flstair	A Wall		U Lft	I Plaster		green	1.7	QM
46	006	3flstair	B Wall		U Lft	I Plaster		green	0.2	QM
47	006	3flstair	C Wall		U Lft	I Plaster		green	-0.2	QM
48	006	3flstair	D Wall		U Lft	I Plaster		green	0.0	QM
49		CALIBRATION							1.0	QM
50		CALIBRATION							1.0	QM
51		CALIBRATION							1.0	QM

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: LU Engineering

Inspection Date: 06/17/22 42-44 Canal Street
 Report Date: 6/20/2022 Lyons, NY
 Abatement Level: 1.0
 Report No. S#02030 - 06/17/22 08:52
 Total Readings: 51
 Job Started: 06/17/22 08:52
 Job Finished: 06/17/22 12:06

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Ext.Unit									
017	A	Window	Lft	frame	I	wood	purple	8.1	QM
018	A	Window	Lft	trim	I	wood	purple	4.0	QM
019	A	Door	Lft	na	I	wood	White	5.0	QM
020	C	Wall	U Lft		I	Brick	White	0.0	QM
Exterior Room 002 2nd.fl									
027	A	Wall	U Lft		I	Plaster	orange	1.0	QM
028	A	Window	Lft	trim	I	wood	White	>9.9	QM
029	B	Wall	U Lft		I	Plaster	orange	>9.9	QM
034	B	Stairs	Lft	Wall	I	Plaster	blue	-0.1	QM
030	C	Wall	U Lft		I	Plaster	orange	1.0	QM
031	C	Window	Lft	trim	I	wood	White	>9.9	QM
032	D	Wall	U Lft		I	Plaster	orange	0.7	QM
033	D	Stairs	Lft	Wall	I	Plaster	blue	-0.1	QM
Exterior Room 003 3fdfl									
035	A	Window	Lft	trim	I	wood	brown	>9.9	QM
Exterior Room 004 nw rm									
036	B	Wall	U Lft		I	Plaster	green	0.2	QM
037	C	Wall	U Lft		I	wood	gray	5.9	QM
038	D	Wall	U Lft		I	Plaster	green	0.0	QM
Exterior Room 006 3flstair									
045	A	Wall	U Lft		I	Plaster	green	1.7	QM
044	A	Door	Lft	trim	I	wood	gray	>9.9	QM
046	B	Wall	U Lft		I	Plaster	green	0.2	QM
047	C	Wall	U Lft		I	Plaster	green	-0.2	QM
048	D	Wall	U Lft		I	Plaster	green	0.0	QM
Interior Room 001 store front									
004	A	Door	Lft	n/a	I	wood	green	>9.9	Std
005	B	Wall	U Lft		I	Plaster	green	0.0	Std
006	B	Wall	U Lft		I	Concrete	Tan	2.4	Std
010	B	Floor	Lft		I	wood	gray	0.1	QM
007	C	Wall	U Lft		I	Plaster	Tan	0.2	QM
008	D	Wall	U Lft		I	Concrete	green	0.0	QM
009	D	Floor	Lft		I	wood	green	>9.9	QM
Interior Room 002 Basement									
013	A	Wall	U Lft		I	Drywall	green	-0.1	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: LU Engineering

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
014	B	Wall	U Lft		I	Plaster	green	0.0	QM
012	B	Ceiling	Lft		I	Plaster	green	0.0	QM
011	B	Stairs	Lft	Treads	I	wood	gray	0.0	QM
015	C	Wall	U Lft		I	Drywall	green	0.1	QM
016	D	Wall	U Lft		I	wood	green	0.1	QM
Interior Room 003 3fl Ne Room									
041	A	Window	Ctr	Header	I	Wood	Brown	0.0	QM
039	A	Wall	Ctr		I	Wood	Brown	>9.9	QM
040	A	Wall	Ctr		I	Plaster	Green	0.0	QM
042	C	Wall	Ctr		I	Wood	Brown	>9.9	QM
043	D	Wall	Ctr		I	Plaster	Gray	-0.1	QM
Calibration Readings									
001								0.8	Std
002								1.0	Std
003								0.9	Std
021								0.8	QM
022								1.0	QM
023								0.6	QM
024								0.7	QM
025								1.0	QM
026								0.7	QM
049								1.0	QM
050								1.0	QM
051								1.0	QM

----- End of Readings -----

DISTRIBUTION REPORT OF LEAD PAINT INSPECTION FOR: LU Engineering

Inspection Date: 06/17/22 42-44 Canal Street
 Report Date: 6/20/2022 Lyons, NY
 Abatement Level: 1.0
 Report No. S#02030 - 06/17/22 08:52
 Total Reading Sets: 39
 Job Started: 06/17/22 08:52
 Job Finished: 06/17/22 12:06

Structure	Total	Structure Distribution			
		Positive	Negative	Inconclusive	
Ceiling	1	0 <0%>	1 <100%>	0 <0%>	
Door n/a	1	1 <100%>	0 <0%>	0 <0%>	
Door na	1	1 <100%>	0 <0%>	0 <0%>	
Door trim	1	1 <100%>	0 <0%>	0 <0%>	
Floor	2	1 <50%>	1 <50%>	0 <0%>	
Stairs Treads	1	0 <0%>	1 <100%>	0 <0%>	
Stairs Wall	2	0 <0%>	2 <100%>	0 <0%>	
Wall	24	8 <33%>	16 <67%>	0 <0%>	
Window frame	1	1 <100%>	0 <0%>	0 <0%>	
Window Header	1	0 <0%>	1 <100%>	0 <0%>	
Window trim	4	4 <100%>	0 <0%>	0 <0%>	
Inspection Totals:	39	17 < 44%>	22 < 56%>	0 < 0%>	

PROPERTY ADDRESS: 42 Canal Street		XRF NO.: 0852						
XRF Reading Number	Location	Side	Structure	Member	Substrate	Color	Condition	
1	CALIBRATION							
2	CALIBRATION							
3	CALIBRATION							
4	STORE FRONT	(A) B C D	DOOR		WOOD	GREEN	INTACT	
5		A (B) C D	WALL		PLASTER	GREEN	"	
		A (B) C D	WALL		CONCRETE	TAN	"	
		A B (C) D	WALL		PLASTER	TAN	POOR	
		A B C (D)	WALL		CONC.	GREEN	INTACT	
		A B C (D)	FLOOR		WOOD	GREEN	"	
10		A (B) C D	FLOOR		WOOD	GREEN	"	
	BASEMENT	A B C D	STAIRS	TREAD	WOOD	GREEN	"	
		A B C D	CEILING		PARTICLE BOARD	GREEN	"	
		(A) B C D	WALL		DRYWALL	GREEN	"	
		A (B) C D	WALL		PLASTER	GREEN	"	
15		A B (C) D	WALL		DW	GREEN	"	
		A B C (D)	WALL		WOOD	GREEN	"	
	EXTERNAL	(A) B C D	WINDOW	FRAME	WOOD	PURPLE	"	
		(A) B C D	"	TRIM	"	"	"	
		(A) B C D	DOOR		WOOD	WHITE	"	
20		A B (C) D	WALL		BRICK	WHITE	"	
21	CALIBRATION	A B C D						
22	"	A B C D						
23	"	A B C D						
		A B C D						
		A B C D						
24	CALIB.	A B C D						
25	"	A B C D						
26	"	A B C D						
27	SECOND FL.	(A) B C D	WALL		PLASTER	ORANGE		
		(A) B C D	WINDOW	TRIM	WOOD	WHITE		
		A (B) C D	WALL		PLASTER	ORANGE		
30		A B (C) D	WALL		X PLASTER	ORANGE		
		A B (C) D	WINDOW	TRIM	WOOD	WHITE		
		A B C (D)	WALL		PLASTER	ORANGE		
35	STAIRS	A B C (D)	WALL		PLASTER	BLUE		

42 CANAL ST, LYONS, NEW YORK FOR SHOTS 1-23.

44 CANAL ST, LYONS, NY FOR SHOTS 24-51

[illegible]

ASBESTOS LEAD PAINT AND PCB CAULK SURVEY REPORT

**Abandoned Building
44-46 Canal Street
Lyons, Wayne County, New York**

Prepared For:

Wayne County
Contact: Brian Pincelli
9 Pearl Street, 2nd Floor
Lyons, New York 14489

Prepared By:

Lu Engineers
339 East Avenue, Suite 200
Rochester, New York 14604

July 2022

Project No. 50514-01



ASBESTOS, LEAD PAINT AND PCB CAULK SURVEY REPORT

Abandoned Building
44-46 Canal Street
Lyons, Wayne County, New York

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ATTACHMENTS (cont'd)

ATTACHMENT E Lead Paint Inspection Report

ATTACHMENT F Previous Reports

1.0 INTRODUCTION AND PROJECT OVERVIEW

Lu Engineers was retained by Wayne County to provide an asbestos, lead paint and PCB caulk survey of the building located at 44-46 Canal Street, in Lyons, Wayne County, New York. This survey was performed in anticipation of planned redevelopment of the subject property.

The asbestos, lead paint and PCB caulk survey was conducted on June 17, 2022 and June 29, 2022. The intent of this survey was to determine the presence and quantity of asbestos containing materials, lead paint and PCB containing caulk. The asbestos survey was conducted in accordance with New York State Department of Labor (NYSDOL) Industrial Code Rule (ICR) 56 by certified inspectors from Lu Engineers. A copy of Lu Engineers' license and inspectors' certifications can be found in Attachment A.

1.1 Records Review

The following reports were reviewed as part of this survey and pertinent results were incorporated:

- *ACM and Hazardous Materials Inspection Report for 46 Canal Street prepared by LiRo Engineers, Inc., dated August 18th, 2021.* This report identified the following materials as asbestos containing:
 - o *Roofing, Felt Paper and Tar (Assumed)*

Previous reports along with analytical results can be found in Attachment F.

2.0 SITE INSPECTION

2.1 Asbestos

One of the purposes of the visual inspection was to identify homogeneous areas of suspect asbestos containing materials that exist throughout the area of inspection, as defined in the scope of work. The Asbestos Hazard Emergency Response Act (AHERA) regulations define a homogeneous area as, "... an area of surfacing material, thermal insulation material, or miscellaneous material that is uniform in color and texture." Furthermore, homogeneous areas should consist of the same age and application.

The inspectors identified homogeneous areas that were present within the building. The suspect asbestos materials were given a homogeneous identification number based on color and texture of the material. A list of homogeneous area numbers of the materials encountered is included with the Asbestos Result Table in Section 3.1. Each room was given an identification (ID) number. The room ID number correlates with the ID number found on the Field Data Sheet

in Attachment B. The Field Data Sheet details the specific homogenous materials identified within each room/space. Roof core profiles are also included in Attachment B.

Occupational Safety and Health Administration (OSHA) and 40 CFR 763 Subpart E – Asbestos Hazard Emergency Response Act (AHERA) bulk sampling protocols were followed.

- Three (3) samples of a homogenous surfacing material in quantities of 1,000 Square Feet (SF) or less were collected.
- Five (5) samples of a homogenous surfacing material in quantities greater than 1,000 SF but less than 5,000 SF were collected.
- Seven (7) samples of a homogenous surfacing material in quantities greater than 5,000 SF were collected.
- Three (3) samples of Thermal System Insulation (TSI) material were collected.
- Two (2) samples of each miscellaneous material were collected.

The suspect asbestos containing materials were extracted using various hand tools, containerized and labeled with unique sample identification numbers. Samples were submitted to the laboratory using standard chain of custody protocols.

Paradigm Environmental Services was the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) approved laboratory used for analysis. A copy of Paradigm's credentials is located in Attachment A.

Friable samples were analyzed using NYS ELAP Method 198.1, Polarized Light Microscopy (PLM). Non-friable organically bound (NOB) samples were analyzed using NYS ELAP Method 198.6 (PLM) and, if found to be negative, NYS ELAP Method 198.4, Transmission Electron Microscopy (TEM). All Samples were analyzed via stop positive protocols meaning that once a positive sample of a series was found, the other samples were not analyzed.

Twenty-eight (28) bulk samples were collected from the building as part of this project.

The sample identification number indicated on the Bulk Sample Location Plan corresponds to the homogeneous ID numbers which are also located on the laboratory analytical report and the chain of custody forms. The Bulk Sample Location Plan, laboratory analytical report and the chain of custody forms are included in Attachment C.

2.2 PCB Caulks

No suspect PCB caulks were sampled during Lu Engineer's site investigation.

2.3 Lead Paint

Steven Davis, an EPA Certified Lead Risk Assessor from Lu Engineers, conducted the lead inspection. A copy of Lu Engineers License and the Risk Assessor's Certification is included in Attachment A.

A RMD model LPA-1 XRF analyzer was used to test total of twenty-eight (28) surfaces. The analyzer was calibrated before and after each area with a National Institute of Standards and Technology (NIST) calibration block in accordance with the manufacturer's calibration procedures.

Testing combinations were identified during the room-by-room surface investigation. Each XRF reading is identified by the side of the room it was collected from (A, B, C & D), the component analyzed and the substrate. The A wall is always the wall on the entry side of the space. Sides "B, C and D" progress in a clockwise direction from side "A". Representative samples of building components were collected.

The paint condition can be: I (*Intact*), F (*Fair*), or P (*Poor*). *Intact* paint is defined as no peeling paint on the component or the entire surface is intact. For large components (such as walls, ceilings, floors, and doors), *Fair* paint is defined as less than or equal to 2 square feet of peeling or damaged paint and *Poor* paint is defined as more than 2 square feet of peeling or damaged paint. For small components (such as baseboards, moldings, and window frames), *Fair* paint is defined as less than or equal to 10% of the total surface area with peeling or damaged paint and *Poor* paint is defined as more than 10% of the total surface area has peeling or damaged paint. All of the painted surfaces were intact throughout the building.

The Mode used to obtain the calibration values was TC (time corrected mode). All of other readings were taken in the QM (quick mode). None of the surfaces tested required substrate correction based on the guidance provided by the LPA-1 performance characteristic sheet, as all readings were obtained in quick mode.

The lead concentrations are provided in mg/cm². XRF readings greater than or equal to 1.0 mg/cm² are considered to be lead-based paint. Copies of these XRF readings are included in Attachment E.

2.4 Miscellaneous Materials

Suspect miscellaneous hazardous materials were assessed throughout the building. High Intensity Discharge (HID) and fluorescent light bulbs that typically contain mercury, low/high pressure sodium, metal halide, and phosphorus were identified.

3.0 ANALYTICAL RESULTS

3.1 Asbestos Results

As defined by the New York State Department of Labor (NYSDOL) 12 NYCRR 56, a sample is considered to be asbestos containing if it contains greater than 1% asbestos by weight based on laboratory analysis.

A list of Homogeneous Areas (HA) identified for the building area surveyed is included below. The **bold** and *italicized* HA description indicates that the material is positive, based on the sample results.

Homogeneous Area No. (HA)	Description	Condition	Friability	Asbestos Content
1	Black Wiring	Damaged	NF	NAD
2	Grey Wall Plaster	Damaged	F	NAD
3	White Ceiling Plaster	Damaged	F	NAD
4	Black Linoleum Floor with Burlap Backing	Damaged	NF	NAD
5	<i>Green Pebble Pattern Linoleum</i>	<i>Damaged</i>	<i>NF</i>	<i>Chrysotile 8.7%</i>
6	Black Rolled Roofing	Damaged	NF	NAD
7	Black Felt Paper	Damaged	NF	Trace Chrysotile <1.0%
8	<i>Silver Coating</i>	<i>Damaged</i>	<i>NF</i>	<i>Chrysotile 2.5%</i>
9	<i>Black Tar Paper</i>	<i>Damaged</i>	<i>NF</i>	<i>Chrysotile 2.8%</i>
10	<i>Black Tar Paper</i>	<i>Damaged</i>	<i>NF</i>	<i>Chrysotile 1.7%</i>
11	<i>Black Tar</i>	<i>Damaged</i>	<i>NF</i>	<i>Chrysotile 2.8%</i>
12	<i>Grey Cementitious Chimney</i>	<i>Damaged</i>	<i>NF</i>	<i>Chrysotile 11%</i>
13	<i>White Door Insulation</i>	<i>Damaged</i>	<i>F</i>	<i>Assumed</i>
14	Tan 9"x 9" Floor Tile	Damaged	NF	Note 1
15	Yellow Floor Tile Mastic	Damaged	NF	Note 1
16	Grey Drywall	Damaged	F	Note 1
17	Grey Wall Plaster	Damaged	F	Note 1
18	Grey Duct Tape	Damaged	NF	Note 1
19	White Wall Plaster	Damaged	F	Note 1
20	Tiled Linoleum	Damaged	NF	Note 1
21	Yellow Linoleum Mastic	Damaged	NF	Note 1
22	White Drywall	Damaged	F	Note 1
23	Grey Ceiling Plaster	Damaged	F	Note 1
24	White Window Caulk	Damaged	NF	Note 1

NAD – No Asbestos Detected

F – Friable; NF – Non-Friable

Note 1 – Material was identified and sampled by LiRo Engineers, Inc. and was found to not contain asbestos. Analytical results can be found in Attachment F.

3.2 PCB Caulk Results

EPA defines PCB bulk waste, “as waste derived from manufactured products containing PCBs in a non-liquid state, at any concentration where the concentration at the time of designation for disposal was > 50 ppm PCBs”. Solid wastes containing 50 ppm by weight or greater are listed hazardous wastes in New York State (6 NYCRR Part 371.4(C)).

No suspect PCB caulks were identified or sampled at the time of this survey.

3.3 Lead Paint Results

According to the United States Environmental Protection Agency (EPA), paint is considered lead-based if the concentration is equal to or greater than 0.5% by weight or 1.0 mg/mm².

According to the Occupational Safety and Health Administration (OSHA), lead means metallic lead, all inorganic lead compounds and organic soaps with any concentrations of lead. Therefore, all samples collected are considered lead containing per OSHA standards.

Based on XRF analysis of painted and ceramic surfaces tested, there were eleven (11) lead based surfaces identified. Refer to Attachment E for detailed lead reports.

4.0 ASBESTOS MATERIALS AND APPROXIMATE QUANTITIES

Asbestos exists throughout the inspected areas. Based on the analytical results, the following table identifies the Homogeneous Areas that contain asbestos along with the material description and approximate quantity.

Homogeneous Area No. (HA)	Description	Approximate Quantity
5	Green Pebble Pattern Linoleum	160 SF
8	Silver Coating	2,250 SF
9	Black Tar Paper	2,250 SF
10	Black Tar Paper	2,250 SF
11	Black Tar	2,250 SF
12	Grey Cementitious Chimney	40 LF
13	White Door Insulation	24 SF

SF = Square Feet

LF = Linear Feet

5.0 LIMITATIONS OF THE INVESTIGATION

This report has been prepared for the exclusive use of the client. This report relies on information supplied by the building owner, employees, tenants and other sources of

information. Lu Engineers has prepared this report in accordance with generally accepted practices within the industry.

This report identifies and assesses the location, quantity, and condition of materials that were accessible and visible at the time of sampling. The condition of the suspect materials is based on the actual inspection date. The quantities indicated in the report are based on the visual inspection and are only estimates of the material present. Additional quantities may exist above ceilings, behind walls or in areas of the building beyond the scope of the survey.

This survey is not intended to be an abatement design. Per NYCRR 56, an abatement design must be completed by a certified Project Designer.

This survey is intended to be a pre-demolition survey. Destructive measures were taken with attempts to identify materials that may be not immediately visible.

6.0 RECOMMENDATIONS

6.1 Asbestos Containing Materials

Asbestos containing materials have been identified as part of this assessment as shown in Section 4.0. The locations of asbestos containing materials and a summary of quantities are included in Attachment D.

NYCRR 56 requires that a copy of this survey be submitted to the local agency where the demolition permit will be issued and the regional office of the New York State Department of Labor. Upon acceptance of this report, Lu Engineers can submit this report to the NYSDOL upon request of the client.

In accordance with 12 NYCRR 56, no renovation or demolition work shall be commenced by any owner or agent prior to completion of asbestos abatement performed by a licensed asbestos abatement contractor. NYSDOL regulations require that the asbestos containing material that will be disturbed by the renovation or demolition be removed prior to any disturbance of the material.

If suspect asbestos containing materials not identified in this asbestos survey report are discovered during the demolition and/or renovation process; it is required that the presence, location and quantity of newly discovered material, be conveyed within twenty-four (24) hours of discovery to the building owner or their representative. All activities must cease in the area where the presumed asbestos containing material or suspect miscellaneous ACM is found, until a licensed asbestos contractor appropriately assesses and manages the discovered materials.

6.2 PCB Caulk

Caulks containing 50 parts per million (ppm) by weight (on a dry weight basis for other than liquid wastes) or greater of PCBs may be listed as hazardous waste in accordance with New York State Department of Conservation regulations (6 NYCRR Part 371). PCB wastes are also regulated by EPA in the 40 CFR Part 761 regulations.

There were no PCB containing caulks identified as part of this survey.

6.3 Lead Paint

According to the United States Environmental Protection Agency (USEPA), paint is considered lead based if the concentration is equal to or greater than 0.5% by weight or 1.0 mg/mm². The Occupational Safety and Health Administration (OSHA) Regulation in 29 CFR 1926.62 considers any amount of lead in paint to be of concern. The regulation states that the employer shall assure that no employee is exposed to lead concentrations greater than fifty micrograms per cubic meter (50 mg/m³) of air averaged over an eight-hour period.

Lead Paint was identified as part of this survey that will require special handling and disposal when removed. A lead worker protection specification, consistent with OSHA regulations, is recommended for the project.

6.4 Miscellaneous Materials

According to the New York State Department of Environmental Conservation (NYSDEC), standard fluorescent bulbs may contain mercury and HID light bulbs may contain mercury vapor, high pressure sodium, or metal halide and they must be treated as hazardous waste unless they pass the Toxicity Characteristics Leaching Procedure (TCLP). Lamps that fail the TCLP must be managed in accordance with New York State Hazardous Waste Regulations or the Universal Waste Rule (UWR), 6 NYCRR 374-3.

Light bulbs observed appear to be a mixture of HID and fluorescent bulbs. Disposal of these fixtures shall be according to NYSDEC regulations and the EPA Resource and Recovery Act (RCRA) regulations.

ATTACHMENT A

License and Certifications



ASBESTOS, LEAD PAINT and PCB CAULK SURVEY

ABANDONED BUILDING

44-46 CANAL STREET

LYONS, WAYNE COUNTY, NEW YORK

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

Joseph C. Lu Engineering, P.C.
Suite 200
339 East Avenue
Rochester, NY 14604

FILE NUMBER: 99-0907
LICENSE NUMBER: 29286
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 04/20/2022
EXPIRATION DATE: 04/30/2023

Duly Authorized Representative – Mitchell Smith:

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.

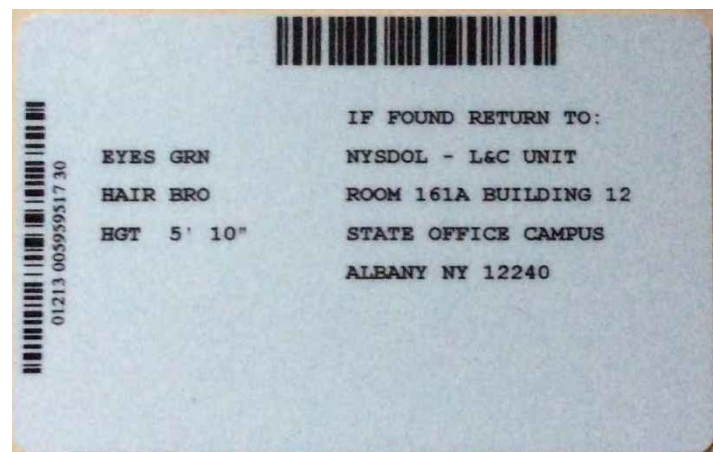
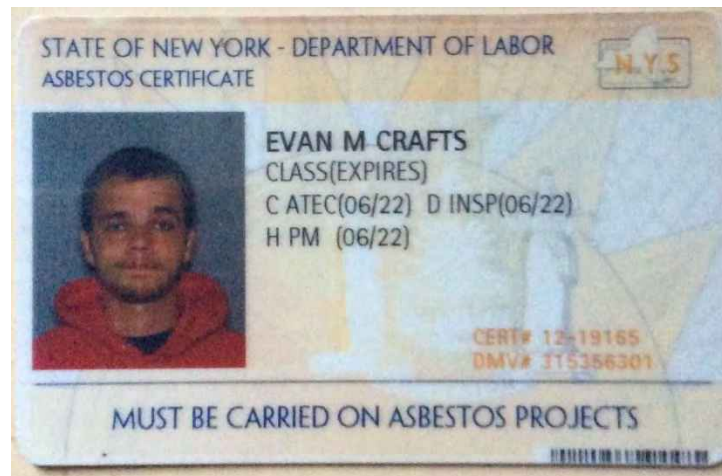
This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate,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



Amy Phillips, Director
For the Commissioner of Labor



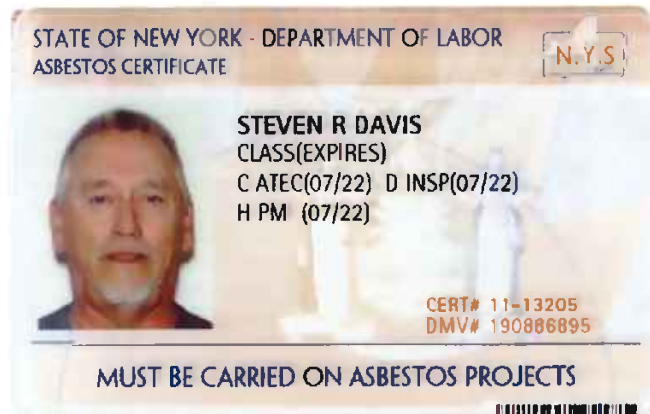
339 East Avenue, Suite 200
Rochester, New York 14604



EVAN CRAFTS
C – Air Sampling Technician
D – Inspector
H – Project Monitor



339 East Avenue, Suite 200
Rochester, New York 14604



EYES GRN
HAIR BRO
HGT 6' 01"

IF FOUND RETURN TO:
NYSDEL - L&C UNIT
ROOM 161A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

Steven Davis
D - Inspector
C - Air Technician
H- Project Monitor

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2023
Issued April 01, 2022

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. STEVE DEVITO
PARADIGM ENVIRONMENTAL SERVICES INC
179 LAKE AVENUE
ROCHESTER, NY 14608

NY Lab Id No: 10958

*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
Lead in Dust Wipes	EPA 6010C
Lead in Paint	EPA 6010C

Sample Preparation Methods

EPA 3050B

Serial No.: 64534

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.

ATTACHMENT B

Field Data Sheet And Roof Core Profiles



ASBESTOS, LEAD PAINT and PCB CAULK SURVEY

ABANDONED BUILDING
44-46 CANAL STREET
LYONS, WAYNE COUNTY, NEW YORK

Field Data Sheet

Building Name: Abandoned Building

Project Number: 50514-01

Building Address: 44-46 Canal Street

Inspection Date: 6/17/2022

Lyons, Wayne County, New York

Space I.D.	Walls				Floor	Ceiling	TSI	Miscellaneous	Notes
	N	S	E	W					
46 Canal St Basement	Brick	Brick	Brick	Brick	Concrete, Dirt	Wood	18		
46 Canal St First Floor	19, 17, Brick	19, 17, Brick	16, 19, 17, Brick	16, 19, 17, Brick	14, 15, 20, 21, Wood	23, Wood		13	
44 Canal St Entrance	19, 17, Brick	-	19, 17, Brick	19, 17, Brick	Wood	23, Wood			
46 Canal St Second Floor South	22	2, Brick	2, Brick	2	Wood	3, Wood			
46 Canal St Second Floor Middle	22	22	2, Brick	2	Wood	3, Wood			
46 Canal St Second Floor North	2, Brick	22	2, Brick	2	Wood	3, Wood			
44 Canal St Second Floor	2, Brick	2, Brick	2, Wood	2, Brick	4, 5, Wood	3, Wood			
46 Canal St Third Floor South (Attic)	Wood	Brick	Brick	Brick	Wood	Wood		1	
46 Canal St Third Floor Middle	2, Wood	Wood	2, Brick	2, Wood	Wood	3, Wood			
46 Canal St Third Floor North	2, Brick	2, Wood	2, Brick	2, Wood	Wood	Metal, 3, Wood			
44 Canal St Third Floor South (Attic)	Wood	Brick	Brick	Brick	Wood	Wood			

Field Data Sheet

Building Name: Abandoned Building

Project Number: 50514-01

Building Address: 44-46 Canal Street

Inspection Date: 6/17/2022

Lyons, Wayne County, New York

Space I.D.	Walls				Floor	Ceiling	TSI	Miscellaneous	Notes
	N	S	E	W					
44 Canal St Third Floor South (Bathroom)	Wood	Wood	Wood	Wood	14, 15, Wood	Wood			
44 Canal St Third Floor Hallway	2, Wood	2, Wood	2, Wood	2, Wood	Wood	3, Wood			
44 Canal St Third Floor Northeast Room 1	2, Wood	2, Wood	2, Wood	2, Wood	Wood	3, Wood			
44 Canal St Third Floor Northeast Room 2	2, Wood	2, Wood	2, Wood	2, Wood	Wood	3, Wood			
44 Canal St Third Floor West Room	2, Wood	2, Wood	2, Wood	2, Wood	Wood	3, Wood			
44 Canal St Third Floor Northwest Room 1	2, Wood	2, Wood	2, Wood	2, Wood	Wood	3, Wood			
44 Canal St Third Floor Northwest Room 2	2, Wood	2, Wood	2, Wood	2, Wood	Wood	3, Wood			

ROOF CORE PROFILES

Abandoned Building

44-46 Canal Street, Lyons, Wayne County, New York

July 2022

Core #1 – Southeast Side of Roof – 2" Depth

- Black Rolled Roofing (HA #6)
- Black Felt Paper (HA #7)
- ***Silver Coating (HA #8)***
- ***Black Tar Paper (HA #9)***
- ***Black Tar Paper (HA #10)***
- ***Black Tar (HA #11)***
- Wood Plank

Core #2 – Southwest Side of Roof – 2" Depth

- Black Rolled Roofing (HA #6)
- Black Felt Paper (HA #7)
- ***Silver Coating (HA #8)***
- ***Black Tar Paper (HA #9)***
- ***Black Tar Paper (HA #10)***
- ***Black Tar (HA #11)***
- Wood Plank

Lu Project #50514-01



Note:

1. ***Bold & italicized*** layers indicate materials are positive for asbestos.

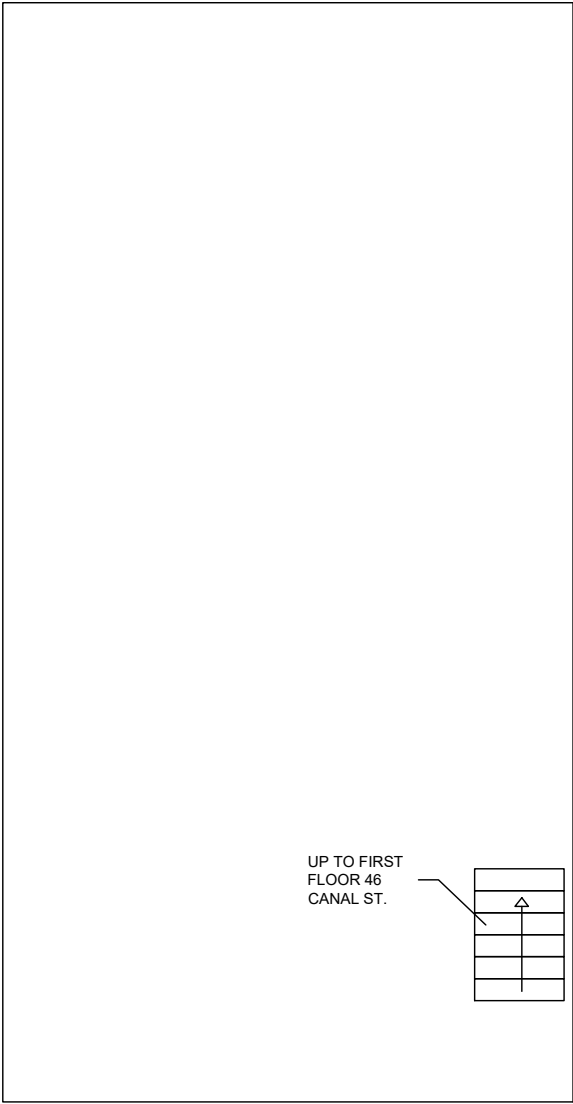
ATTACHMENT C

*Sample Location Plans,
Analytical Reports and
Chain of Custody Forms*

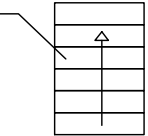


ASBESTOS, LEAD PAINT and PCB CAULK SURVEY

ABANDONED BUILDING
44-46 CANAL STREET
LYONS, WAYNE COUNTY, NEW YORK



UP TO FIRST
FLOOR 46
CANAL ST.

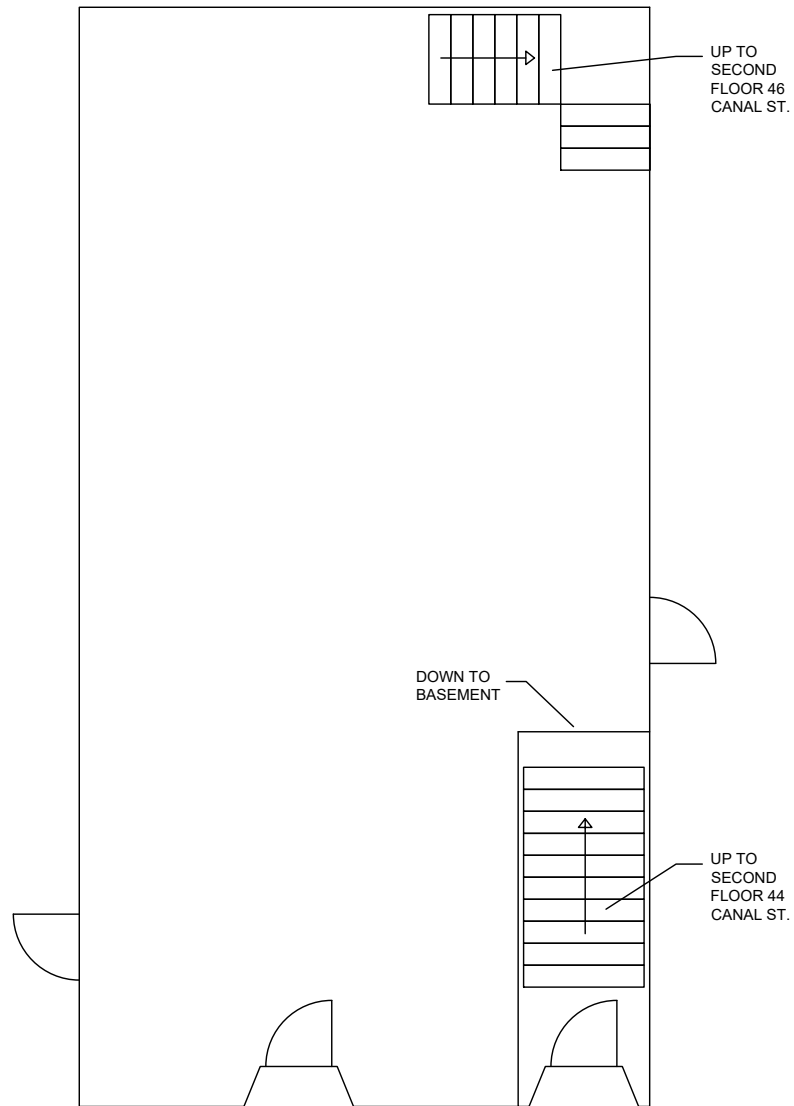


LEGEND



1-A

ASBESTOS BULK SAMPLE
LOCATION & SAMPLE NUMBER



LEGEND



ASBESTOS BULK SAMPLE
LOCATION & SAMPLE NUMBER

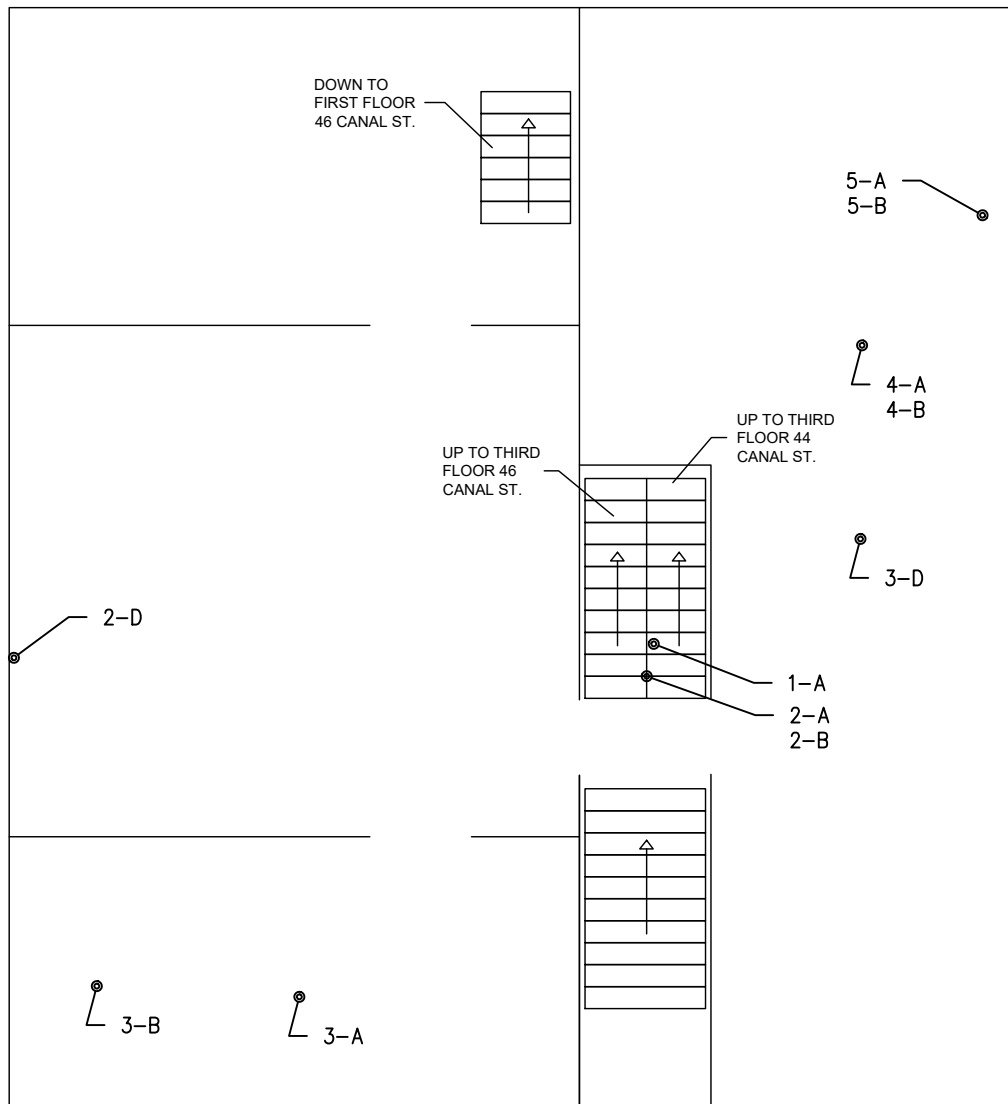
FIGURE 2. BULK SAMPLE LOCATION PLAN

44-46 CANAL STREET
LYONS | WAYNE COUNTY | NEW YORK
FIRST FLOOR PLAN

DATE: JULY 2022

SCALE: N.T.S.

PROJECT NO: 50514-01



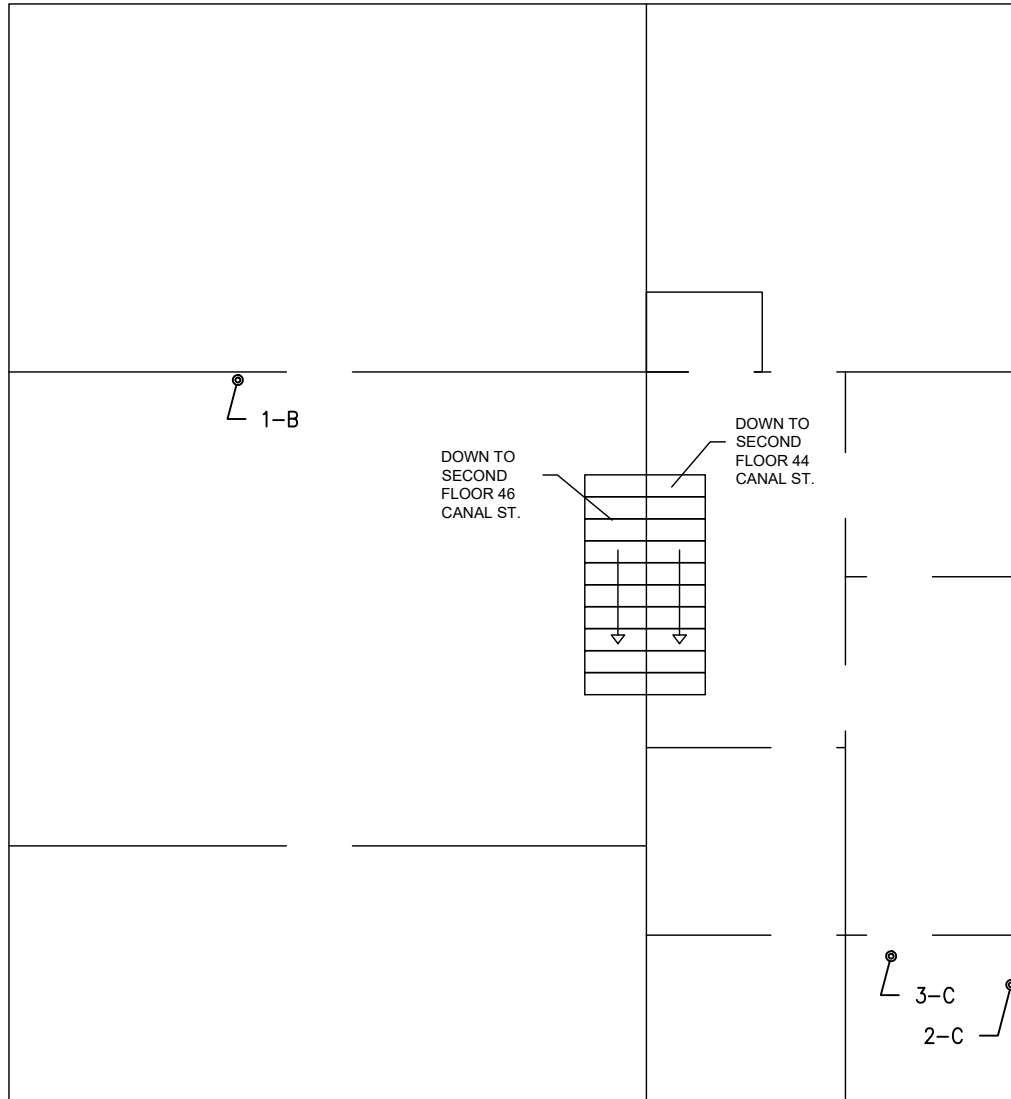
LEGEND



ASBESTOS BULK SAMPLE
LOCATION & SAMPLE NUMBER

FIGURE 3. BULK SAMPLE LOCATION PLAN

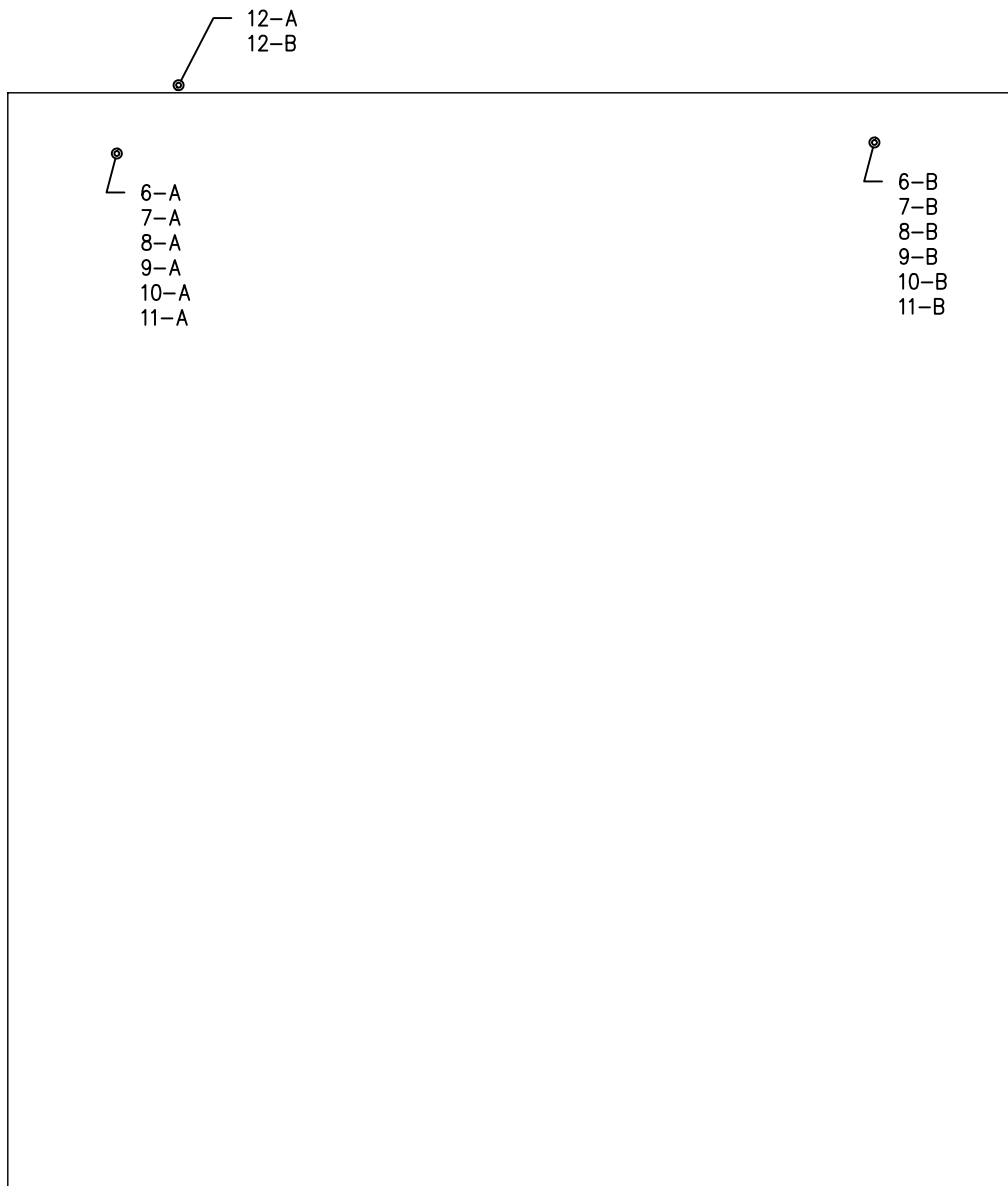
44-46 CANAL STREET
LYONS | WAYNE COUNTY | NEW YORK
SECOND FLOOR PLAN



LEGEND



ASBESTOS BULK SAMPLE
LOCATION & SAMPLE NUMBER



LEGEND



ASBESTOS BULK SAMPLE
LOCATION & SAMPLE NUMBER



PLM & TEM BULK ASBESTOS ANALYSIS REPORT
via NYSDOH ELAP Method 198.1, 198.4 and 198.6

Client: Lu Engineers
Location: Wayne County Land Bank-Canal Street
44-46 Canal Street, Lyons, New York

Job No: 4682-22
Page: 1 of 6

Sample Date: 6/17/2022

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	N O B	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	Non- Fibrous Matrix Material %
1-A	41122	Second to Third Floor Stairs	Black Wiring	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
1-B	41123	Third Floor	Black Wiring	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
2-A	41124	Second to Third Floor Stairs	Gray Wall Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
2-B	41125	Second to Third Floor Stairs	Gray Wall Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
2-C	41126	Third Floor Northwest Room	Gray Wall Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
2-D	41127	Second Floor East Wall	Gray Wall Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
3-A	41128	Second Floor North	White Ceiling Plaster	None Detected	0%		Not Required	N/A	Animal Hair 1%	99%
3-B	41129	Second Floor North	White Ceiling Plaster	None Detected	0%		Not Required	N/A	Animal Hair 1%	99%
3-C	41130	Third Floor Northwest Room	White Ceiling Plaster	None Detected	0%		Not Required	N/A	None Detected	100%
3-D	41131	Second Floor Ceiling- Middle	White Ceiling Plaster	None Detected	0%		Not Required	N/A	None Detected	100%

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).

✓ NOB (non-friable organically bound) denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.

⚡ denotes material analyzed by ELAP Method 198.6 (PLM) per NYSDOH. This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.

denotes friable material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.

X denotes sample prepped only by ELAP Method 198.6.

** 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.

PLM Bulk Asbestos Analysis by New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.") or EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200530-0),



Lab Code 200530-0 for PLM Analysis

Microscope: Olympus BH-2 #211874

PLM Analyst: T. Bush

Date of Analysis: 7/11/2022

Microscope: JEOL-100CX-II #EM-156094-87

TEM Analyst: F. Weinman

Date of Analysis: 7/12/2022

Laboratory Results Approved By:
Asbestos Technical Director or Designee

Fernanda Weinman

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ELAP ID No.: 10958



PLM & TEM BULK ASBESTOS ANALYSIS REPORT
via NYSDOH ELAP Method 198.1, 198.4 and 198.6

Client: Lu Engineers
Location: Wayne County Land Bank-Canal Street
44-46 Canal Street, Lyons, New York

Job No: 4682-22

Page: 2 of 6

Sample Date: 6/17/2022

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	N O B	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	Non- Fibrous Matrix Material %
4-A	41132	Second Floor Middle	Black Linoleum with Burlap Backing	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
4-B	41133	Second Floor Middle	Black Linoleum with Burlap Backing	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
5-A	41134	Second Floor West Side	Green Pebble Linoleum	Chrysotile 8.7%	8.7%	#	Not Required	N/A	None Detected	91.3%
5-B	41135	Second Floor West Side	Green Pebble Linoleum	STOP	POSITIVE	X	SAMPLE	NOT	ANALYZED	N/A
6-A	41136	Southeast Side of Roof	Black Rolled Roofing	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	Fiberglass 1%	99%
6-B	41137	Southwest Side of Roof	Black Rolled Roofing	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	Fiberglass 1%	99%
7-A	41138	Southeast Side of Roof	Black Fibrous Felt Paper	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	Fiberglass 10%	90%
7-B	41139	Southwest Side of Roof	Black Fibrous Felt Paper	Inconclusive Trace Chrysotile Detected	<1.0%	✓	None Detected	<1.0%	Fiberglass 10%	90%
8-A	41140	Southeast Side of Roof	Silver Coating	Chrysotile 2.5%	2.5%	✓	Not Required	N/A	None Detected	97.5%
8-B	41141	Southwest Side of Roof	Silver Coating	STOP	POSITIVE	X	SAMPLE	NOT	ANALYZED	N/A

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).

✓ NOB (non-friable organically bound) denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.

✓ denotes material analyzed by ELAP Method 198.6 (PLM) per NYSDOH. This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.

denotes friable material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.

X denotes sample prepped only by ELAP Method 198.6.

** 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.

PLM Bulk Asbestos Analysis by New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.") or EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200530-0).



Lab Code 200530-0 for PLM Analysis

Microscope: Olympus BH-2 #211874

PLM Analyst: T. Bush

Date of Analysis: 7/11/2022

Microscope: JEOL-100CX-II #EM-156094-87

TEM Analyst: T. Ma

Date of Analysis: 7/12/2022

ELAP ID No.: 10958

Laboratory Results Approved By:
Asbestos Technical Director or Designee

Fernanda Weinman

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PLM & TEM BULK ASBESTOS ANALYSIS REPORT
via NYSDOH ELAP Method 198.1, 198.4 and 198.6

Client: Lu Engineers
Location: Wayne County Land Bank-Canal Street
44-46 Canal Street, Lyons, New York

Job No: 4682-22

Page: 3 of 6

Sample Date: 6/17/2022

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	N O B	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	Non- Fibrous Matrix Material %
9-A	41142	Southeast Side of Roof	Black Tar Paper	Chrysotile 2.8%	2.8%	✓	Not Required	N/A	None Detected	97.2%
9-B	41143	Southwest Side of Roof	Black Tar Paper	STOP	POSITIVE	X	SAMPLE	NOT	ANALYZED	N/A
10-A	41144	Southeast Side of Roof	Black Tar Paper	Chrysotile 1.7%	1.7%	✓	Not Required	N/A	None Detected	98.3%
10-B	41145	Southwest Side of Roof	Black Tar Paper	STOP	POSITIVE	X	SAMPLE	NOT	ANALYZED	N/A
11-A	41146	Southeast Side of Roof	Black Tar	Chrysotile 2.8%	2.8%	✓	Not Required	N/A	None Detected	97.2%
11-B	41147	Southwest Side of Roof	Black Tar	STOP	POSITIVE	X	SAMPLE	NOT	ANALYZED	N/A
12-A	41148	Southeast Corner of Building, Exterior	Gray Fibrous Cementitious Chimney	Chrysotile 11%	11%		Not Required	N/A	None Detected	89%
12-B	41149	Southeast Corner of Building, Exterior	Gray Cementitious Chimney	STOP	POSITIVE	X	SAMPLE	NOT	ANALYZED	N/A

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).

✓ NOB (non-friable organically bound) denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.

√ denotes material analyzed by ELAP Method 198.6 (PLM) per NYSDOH. This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.

denotes friable material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.

X denotes sample prepped only by ELAP Method 198.6.

** 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.

PLM Bulk Asbestos Analysis by New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.") or EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200530-0).



Lab Code 200530-0 for PLM Analysis

Microscope: Olympus BH-2 #211874

PLM Analyst: T Bush

Date of Analysis: 7/11/2022

Microscope: JEOL-100CX-II #EM-156094-87

TEM Analyst: N/A

Date of Analysis: N/A

Laboratory Results Approved By:
Asbestos Technical Director or Designee

Fernanda Weinman

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ELAP ID No.: 10958

Bulk Sample Chain of Custody



Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

Project Name: Wayne County Land Bank – Canal Street
Site Address: 44-46 Canal Street, Lyons, New York
Results to:
 Lu Engineers
 339 East Avenue, Suite 200
 Rochester, NY 14604
 Email: msmith@luengineers.com, sdavis@luengineers.com, ecrafts@luengineers.com

Sample Type
☒ NYS ELAP PLM/TEM
☐ PLM Only
☐ TEM Only

Lu Project # 50514-01
Laboratory Name: Paradigm Environmental Services
Laboratory Address: 179 Lake Avenue
 Rochester, New York

Turn Around Time
☐ Immediate ☐ 12 HR
☐ 24 HR ☐ 48 HR
☒ 72 HR ☒ 5 Day

Comments:
 STOP POSITIVE

FIELD ID	SAMPLE LOCATION	MATERIAL	NOTES
1-A	Second to Third Floor Stairs	Black Wiring	
1-B	Third Floor	Black Wiring	
2-A	Second to Third Floor Stairs	Grey Wall Plaster	
2-B	Second to Third Floor Stairs	Grey Wall Plaster	
2-C	Third Floor Northwest Room	Grey Wall Plaster	
2-D	Second Floor East Wall	Grey Wall Plaster	
3-A	Second Floor North	White Ceiling Plaster	
3-B	Second Floor North	White Ceiling Plaster	
3-C	Third Floor Northwest Room	White Ceiling Plaster	
3-D	Second Floor Ceiling - Middle	White Ceiling Plaster	

Date Sampled: 6-17-2022
Inspector: S. Davis/ E.Crafts
Relinquished By: [Signature] **Date/Time:** 6/15/22
Received By: [Signature] **Date/Time:** 7.5.22 1036
 339 East Avenue, Suite 200, Rochester, NY 14604 | Ph 585.385.7417 | Fax 585.546.1634 | luengineers.com

Bulk Sample Chain of Custody



Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

5046 DS

Project Name: Wayne County Land Bank – Canal Street		Lu Project # 50514-01	
Site Address: 44-46 Canal Street, Lyons, New York		Laboratory Name: Paradigm Environmental Services	
Results to:		Laboratory Address: 179 Lake Avenue Rochester, New York	
Lu Engineers 339 East Avenue, Suite 200 Rochester, NY 14604 Email: msmith@luengineers.com , sdavis@luengineers.com , ecrafts@luengineers.com		Sample Type ☒ NYS ELAP PLM/TEM ☐ PLM Only ☐ TEM Only	
		Turn Around Time ☐ Immediate ☐ 12 HR ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 Day	
		Comments: STOP POSITIVE	

4682-22
2043

FIELD ID	SAMPLE LOCATION	MATERIAL	NOTES
41132	4-A	Black Linoleum with Burlap Backing	
133	4-B	Black Linoleum with Burlap Backing	
134	5-A	Green Pebble Linoleum	
135	5-B	Green Pebble Linoleum	
136	6-A	Black Rolled Roofing	
137	6-B	Black Rolled Roofing	
138	7-A	Black Felt Paper	
139	7-B	Black Felt Paper	
140	8-A	Silver Coating	
141	8-B	Silver Coating	

Date Sampled: 6-17-2022

Inspector: S. Davis/ E.Crafts

Relinquished By

Date/Time

Received By

Date/Time

[Signature] 7/5/22
[Signature] 7-5-22 1037

Bulk Sample Chain of Custody



Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

6066DS

Project Name: Wayne County Land Bank – Canal Street		Lu Project # 50514-01	
Site Address: 44-46 Canal Street, Lyons, New York		Laboratory Name: Paradigm Environmental Services	
Results to:		Laboratory Address: 179 Lake Avenue Rochester, New York	
Lu Engineers 339 East Avenue, Suite 200 Rochester, NY 14604 Email: msmith@luengineers.com , sdavis@luengineers.com , ecrafts@luengineers.com		Sample Type ☒ NYS ELAP PLM/TEM ☐ PLM Only ☐ TEM Only	
		Turn Around Time ☐ Immediate ☐ 24 HR ☐ 72 HR	Comments: ☐ 12 HR ☐ 48 HR ☒ 5 Day
		STOP POSITIVE	
FIELD ID	SAMPLE LOCATION	MATERIAL	NOTES
41142 9-A	Southeast Side of Roof	Black Tar Paper	
143 9-B	Southwest Side of Roof	Black Tar Paper	
144 10-A	Southeast Side of Roof	Black Tar Paper	
145 10-B	Southwest Side of Roof	Black Tar Paper	
146 11-A	Southeast Side of Roof	Black Tar	
147 11-B	Southwest Side of Roof	Black Tar	
148 12-A	Southeast Corner of Building, Exterior	Grey Cementitious Chimney	
149 12-B	Southeast Corner of Building, Exterior	Grey Cementitious Chimney	

Date Sampled: 6-17-2022
 Inspector: S. Davis/ E.Crafts
 Relinquished By: Date/Time: 7/5/22
 Received By: Date/Time: 7.5.22 1038
 339 East Avenue, Suite 200, Rochester, NY 14604 | Ph 585.385.7417 | Fax 585.546.1634 | luengineers.com

ATTACHMENT D

Asbestos Location Plans and Asbestos Inspection Summary Table



ASBESTOS, LEAD PAINT and PCB CAULK SURVEY

ABANDONED BUILDING
44-46 CANAL STREET
LYONS, WAYNE COUNTY, NEW YORK

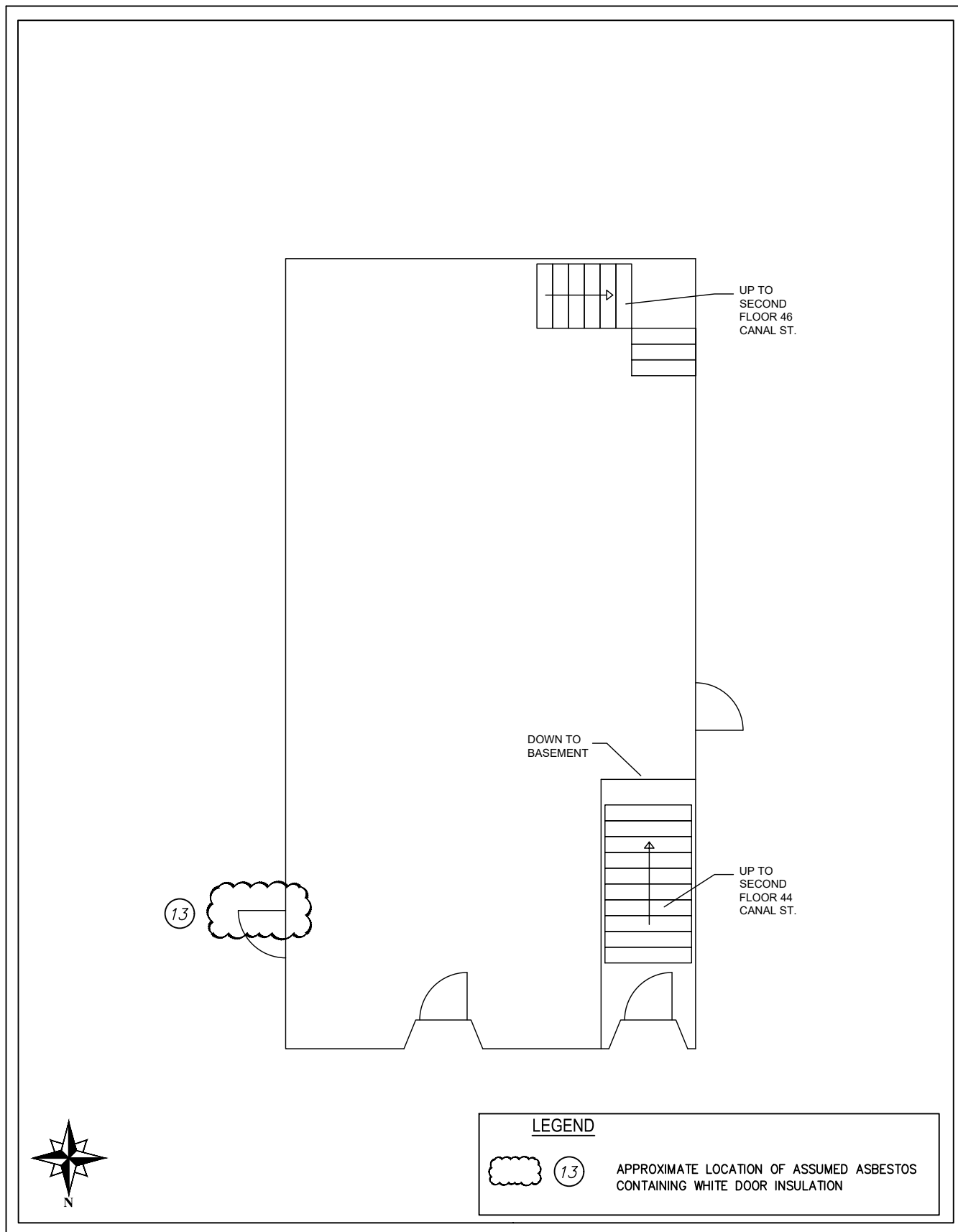


FIGURE 6. ASBESTOS LOCATION PLAN

44-46 CANAL STREET
 LYONS | WAYNE COUNTY | NEW YORK
 FIRST FLOOR PLAN

DATE: JULY 2022

SCALE: N.T.S.

PROJECT NO: 50514-01

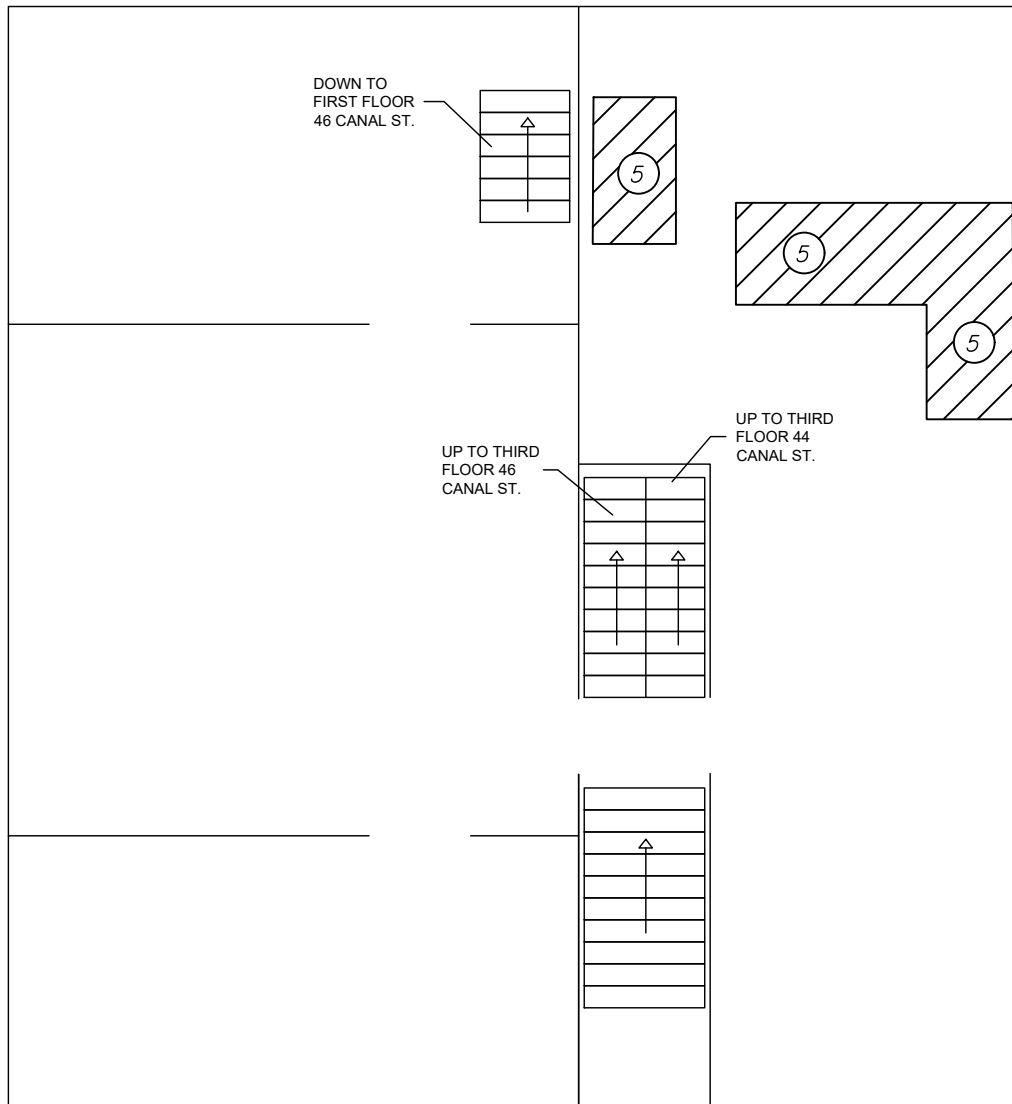


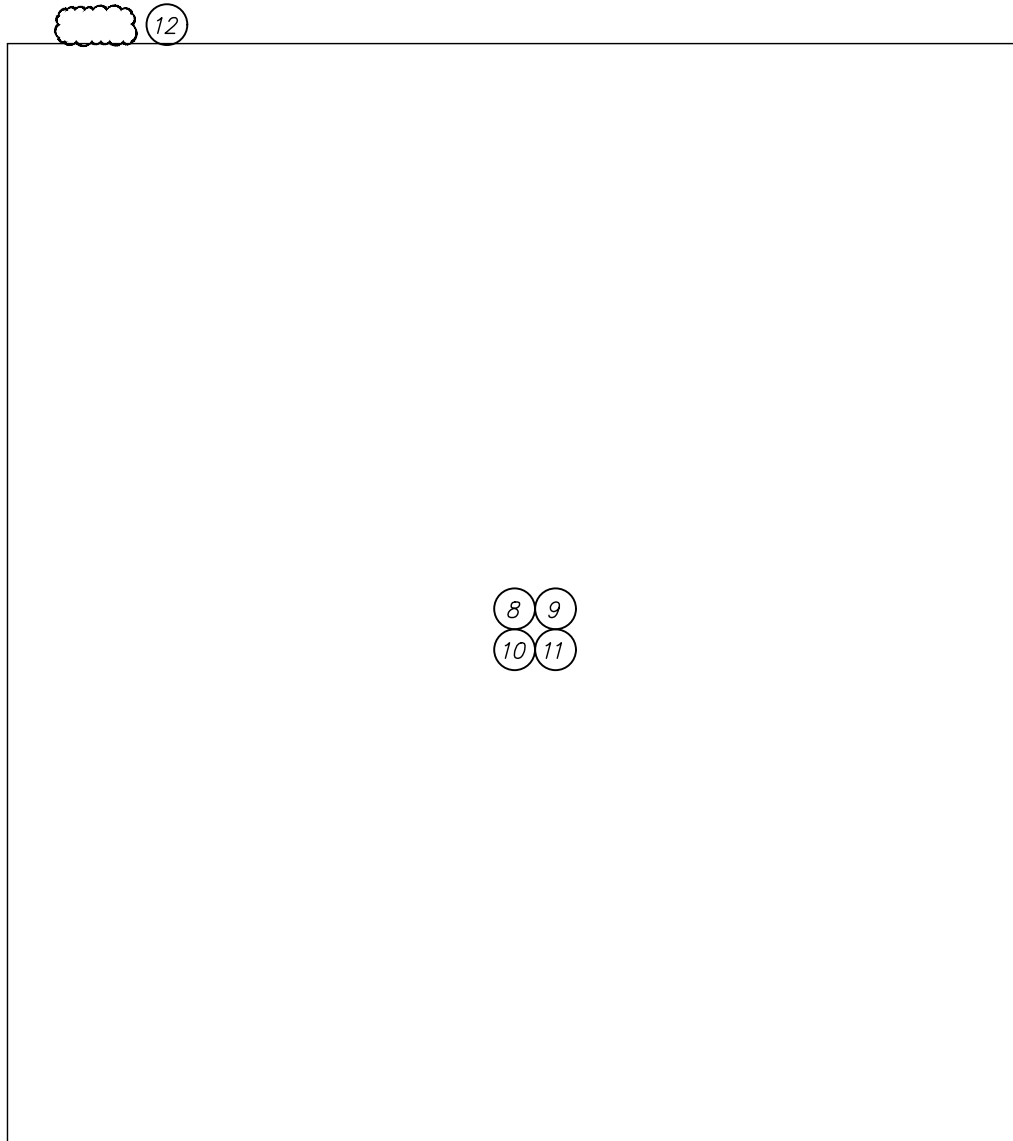
FIGURE 7. ASBESTOS LOCATION PLAN

44-46 CANAL STREET
LYONS | WAYNE COUNTY | NEW YORK
SECOND FLOOR PLAN

DATE: JULY 2022

SCALE: N.T.S.

PROJECT NO: 50514-01



LEGEND

-  APPROXIMATE LOCATION OF ASBESTOS CONTAINING SILVER COATING
-  APPROXIMATE LOCATION OF ASBESTOS CONTAINING BLACK TAR PAPER
-  APPROXIMATE LOCATION OF ASBESTOS CONTAINING BLACK TAR PAPER
-  APPROXIMATE LOCATION OF ASBESTOS CONTAINING BLACK TAR
-  APPROXIMATE LOCATION OF ASBESTOS CONTAINING GREY CEMENTITIOUS CHIMNEY

Asbestos Inspection Summary Table
44-46 Canal Street
Lyons, Wayne County, New York

<u>Homogeneous Area Description</u>	<u>Homogeneous Area ID No.</u>	<u>Floor & Location</u>	<u>Tested or Assumed</u>	<u>ACM (Y/N)</u>	<u>Approx. Quantity</u>
Green Pebble Pattern Linoleum	5	44 Canal Street Second Floor	Tested	Y	160 SF
				Total	160 SF
Silver Coating	8	44-46 Canal Street Roof	Tested	Y	2,250 SF
				Total	2,250 SF
Black Tar Paper	9	44-46 Canal Street Roof	Tested	Y	2,250 SF
				Total	2,250 SF
Black Tar Paper	10	44-46 Canal Street Roof	Tested	Y	2,250 SF
				Total	2,250 SF
Black Tar	11	44-46 Canal Street Roof	Tested	Y	2,250 SF
				Total	2,250 SF
Grey Cementitious Chimney	12	46 Canal Street Southeast Corner - Exterior	Tested	Y	40 LF
				Total	40 LF
White Door Insulation	13	46 Canal Street First Floor Exterior Door	Assumed	Y	24 SF
				Total	24 SF

ATTACHMENT E

Lead Paint Inspection Report



Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

ASBESTOS, LEAD PAINT and PCB CAULK SURVEY

ABANDONED BUILDING

44-46 CANAL STREET

LYONS, WAYNE COUNTY, NEW YORK

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#02030 - 06/17/22 08:52

INSPECTION FOR: LU Engineering

PERFORMED AT: 42-44 Canal Street
Lyons, NY

INSPECTION DATE: 06/17/22

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 02030

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: LBP-R-128134-1

This report has been produced in accordance with accepted guidelines. The measurement contained within are accurate to the best of our knowledge.

SIGNED: 

Steve Davis
Certified Risk Assessor

Date: 06.18.2022

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: LU Engineering

Inspection Date: 06/17/22 42-44 Canal Street
 Report Date: 6/20/2022 Lyons, NY
 Abatement Level: 1.0
 Report No. S#02030 - 06/17/22 08:52
 Total Readings: 51 Actionable: 17
 Job Started: 06/17/22 08:52
 Job Finished: 06/17/22 12:06

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Exterior Room 001 Ext.Unit									
017	A	Window	Lft	frame	I	wood	purple	8.1	QM
018	A	Window	Lft	trim	I	wood	purple	4.0	QM
019	A	Door	Lft	na	I	wood	White	5.0	QM
Exterior Room 002 2nd.fl									
027	A	Wall	U Lft		I	Plaster	orange	1.0	QM
028	A	Window	Lft	trim	I	wood	White	>9.9	QM
029	B	Wall	U Lft		I	Plaster	orange	>9.9	QM
030	C	Wall	U Lft		I	Plaster	orange	1.0	QM
031	C	Window	Lft	trim	I	wood	White	>9.9	QM
Exterior Room 003 3fdfl									
035	A	Window	Lft	trim	I	wood	brown	>9.9	QM
Exterior Room 004 nw rm									
037	C	Wall	U Lft		I	wood	gray	5.9	QM
Exterior Room 006 3flstair									
045	A	Wall	U Lft		I	Plaster	green	1.7	QM
044	A	Door	Lft	trim	I	wood	gray	>9.9	QM
Interior Room 001 store front									
004	A	Door	Lft	n/a	I	wood	green	>9.9	Std
006	B	Wall	U Lft		I	Concrete	Tan	2.4	Std
009	D	Floor	Lft		I	wood	green	>9.9	QM
Interior Room 003 3fl Ne Room									
039	A	Wall	Ctr		I	Wood	Brown	>9.9	QM
042	C	Wall	Ctr		I	Wood	Brown	>9.9	QM
Calibration Readings									

---- End of Readings ----

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR: LU Engineering

Inspection Date: 06/17/22 42-44 Canal Street
 Report Date: 6/20/2022 Lyons, NY
 Abatement Level: 1.0
 Report No. S#02030 - 06/17/22 08:52
 Total Readings: 51
 Job Started: 06/17/22 08:52
 Job Finished: 06/17/22 12:06

Read No.	Rm No.	Room Name	Wall Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
1		CALIBRATION							0.8	Std
2		CALIBRATION							1.0	Std
3		CALIBRATION							0.9	Std
4	001	store front	A Door	Lft	n/a	I	wood	green	>9.9	Std
5	001	store front	B Wall	U	Lft	I	Plaster	green	0.0	Std
6	001	store front	B Wall	U	Lft	I	Concrete	Tan	2.4	Std
7	001	store front	C Wall	U	Lft	I	Plaster	Tan	0.2	QM
8	001	store front	D Wall	U	Lft	I	Concrete	green	0.0	QM
9	001	store front	D Floor	Lft		I	wood	green	>9.9	QM
10	001	store front	B Floor	Lft		I	wood	gray	0.1	QM
11	002	Basement	B Stairs	Lft	Treads	I	wood	gray	0.0	QM
12	002	Basement	B Ceiling	Lft		I	Plaster	green	0.0	QM
13	002	Basement	A Wall	U	Lft	I	Drywall	green	-0.1	QM
14	002	Basement	B Wall	U	Lft	I	Plaster	green	0.0	QM
15	002	Basement	C Wall	U	Lft	I	Drywall	green	0.1	QM
16	002	Basement	D Wall	U	Lft	I	wood	green	0.1	QM
17	001	Ext.Unit	A Window	Lft	frame	I	wood	purple	8.1	QM
18	001	Ext.Unit	A Window	Lft	trim	I	wood	purple	4.0	QM
19	001	Ext.Unit	A Door	Lft	na	I	wood	White	5.0	QM
20	001	Ext.Unit	C Wall	U	Lft	I	Brick	White	0.0	QM
21		CALIBRATION							0.8	QM
22		CALIBRATION							1.0	QM
23		CALIBRATION							0.6	QM
24		CALIBRATION							0.7	QM
25		CALIBRATION							1.0	QM
26		CALIBRATION							0.7	QM
27	002	2nd.fl	A Wall	U	Lft	I	Plaster	orange	1.0	QM
28	002	2nd.fl	A Window	Lft	trim	I	wood	White	>9.9	QM
29	002	2nd.fl	B Wall	U	Lft	I	Plaster	orange	>9.9	QM
30	002	2nd.fl	C Wall	U	Lft	I	Plaster	orange	1.0	QM
31	002	2nd.fl	C Window	Lft	trim	I	wood	White	>9.9	QM
32	002	2nd.fl	D Wall	U	Lft	I	Plaster	orange	0.7	QM
33	002	2nd.fl	D Stairs	Lft	Wall	I	Plaster	blue	-0.1	QM
34	002	2nd.fl	B Stairs	Lft	Wall	I	Plaster	blue	-0.1	QM
35	003	3fdfl	A Window	Lft	trim	I	wood	brown	>9.9	QM
36	004	nw rm	B Wall	U	Lft	I	Plaster	green	0.2	QM
37	004	nw rm	C Wall	U	Lft	I	wood	gray	5.9	QM
38	004	nw rm	D Wall	U	Lft	I	Plaster	green	0.0	QM
39	003	3fl Ne Room	A Wall	Ctr		I	Wood	Brown	>9.9	QM

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR: LU Engineering

Read No.	Rm No.	Room Name	Wall Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
40	003	3fl Ne Room	A Wall		Ctr	I Plaster		Green	0.0	QM
41	003	3fl Ne Room	A Window		Ctr Header	I Wood		Brown	0.0	QM
42	003	3fl Ne Room	C Wall		Ctr	I Wood		Brown	>9.9	QM
43	003	3fl Ne Room	D Wall		Ctr	I Plaster		Gray	-0.1	QM
44	006	3flstair	A Door		Lft trim	I wood		gray	>9.9	QM
45	006	3flstair	A Wall		U Lft	I Plaster		green	1.7	QM
46	006	3flstair	B Wall		U Lft	I Plaster		green	0.2	QM
47	006	3flstair	C Wall		U Lft	I Plaster		green	-0.2	QM
48	006	3flstair	D Wall		U Lft	I Plaster		green	0.0	QM
49		CALIBRATION							1.0	QM
50		CALIBRATION							1.0	QM
51		CALIBRATION							1.0	QM

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: LU Engineering

Inspection Date: 06/17/22 42-44 Canal Street
 Report Date: 6/20/2022 Lyons, NY
 Abatement Level: 1.0
 Report No. S#02030 - 06/17/22 08:52
 Total Readings: 51
 Job Started: 06/17/22 08:52
 Job Finished: 06/17/22 12:06

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Ext.Unit									
017	A	Window	Lft	frame	I	wood	purple	8.1	QM
018	A	Window	Lft	trim	I	wood	purple	4.0	QM
019	A	Door	Lft	na	I	wood	White	5.0	QM
020	C	Wall	U Lft		I	Brick	White	0.0	QM
Exterior Room 002 2nd.fl									
027	A	Wall	U Lft		I	Plaster	orange	1.0	QM
028	A	Window	Lft	trim	I	wood	White	>9.9	QM
029	B	Wall	U Lft		I	Plaster	orange	>9.9	QM
034	B	Stairs	Lft	Wall	I	Plaster	blue	-0.1	QM
030	C	Wall	U Lft		I	Plaster	orange	1.0	QM
031	C	Window	Lft	trim	I	wood	White	>9.9	QM
032	D	Wall	U Lft		I	Plaster	orange	0.7	QM
033	D	Stairs	Lft	Wall	I	Plaster	blue	-0.1	QM
Exterior Room 003 3fdfl									
035	A	Window	Lft	trim	I	wood	brown	>9.9	QM
Exterior Room 004 nw rm									
036	B	Wall	U Lft		I	Plaster	green	0.2	QM
037	C	Wall	U Lft		I	wood	gray	5.9	QM
038	D	Wall	U Lft		I	Plaster	green	0.0	QM
Exterior Room 006 3flstair									
045	A	Wall	U Lft		I	Plaster	green	1.7	QM
044	A	Door	Lft	trim	I	wood	gray	>9.9	QM
046	B	Wall	U Lft		I	Plaster	green	0.2	QM
047	C	Wall	U Lft		I	Plaster	green	-0.2	QM
048	D	Wall	U Lft		I	Plaster	green	0.0	QM
Interior Room 001 store front									
004	A	Door	Lft	n/a	I	wood	green	>9.9	Std
005	B	Wall	U Lft		I	Plaster	green	0.0	Std
006	B	Wall	U Lft		I	Concrete	Tan	2.4	Std
010	B	Floor	Lft		I	wood	gray	0.1	QM
007	C	Wall	U Lft		I	Plaster	Tan	0.2	QM
008	D	Wall	U Lft		I	Concrete	green	0.0	QM
009	D	Floor	Lft		I	wood	green	>9.9	QM
Interior Room 002 Basement									
013	A	Wall	U Lft		I	Drywall	green	-0.1	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: LU Engineering

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
014	B	Wall	U Lft		I	Plaster	green	0.0	QM
012	B	Ceiling	Lft		I	Plaster	green	0.0	QM
011	B	Stairs	Lft	Treads	I	wood	gray	0.0	QM
015	C	Wall	U Lft		I	Drywall	green	0.1	QM
016	D	Wall	U Lft		I	wood	green	0.1	QM
Interior Room 003 3fl Ne Room									
041	A	Window	Ctr	Header	I	Wood	Brown	0.0	QM
039	A	Wall	Ctr		I	Wood	Brown	>9.9	QM
040	A	Wall	Ctr		I	Plaster	Green	0.0	QM
042	C	Wall	Ctr		I	Wood	Brown	>9.9	QM
043	D	Wall	Ctr		I	Plaster	Gray	-0.1	QM
Calibration Readings									
001								0.8	Std
002								1.0	Std
003								0.9	Std
021								0.8	QM
022								1.0	QM
023								0.6	QM
024								0.7	QM
025								1.0	QM
026								0.7	QM
049								1.0	QM
050								1.0	QM
051								1.0	QM

----- End of Readings -----

DISTRIBUTION REPORT OF LEAD PAINT INSPECTION FOR: LU Engineering

Inspection Date: 06/17/22 42-44 Canal Street
 Report Date: 6/20/2022 Lyons, NY
 Abatement Level: 1.0
 Report No. S#02030 - 06/17/22 08:52
 Total Reading Sets: 39
 Job Started: 06/17/22 08:52
 Job Finished: 06/17/22 12:06

Structure	Total	Structure Distribution			
		Positive	Negative	Inconclusive	
Ceiling	1	0 <0%>	1 <100%>	0 <0%>	
Door n/a	1	1 <100%>	0 <0%>	0 <0%>	
Door na	1	1 <100%>	0 <0%>	0 <0%>	
Door trim	1	1 <100%>	0 <0%>	0 <0%>	
Floor	2	1 <50%>	1 <50%>	0 <0%>	
Stairs Treads	1	0 <0%>	1 <100%>	0 <0%>	
Stairs Wall	2	0 <0%>	2 <100%>	0 <0%>	
Wall	24	8 <33%>	16 <67%>	0 <0%>	
Window frame	1	1 <100%>	0 <0%>	0 <0%>	
Window Header	1	0 <0%>	1 <100%>	0 <0%>	
Window trim	4	4 <100%>	0 <0%>	0 <0%>	
Inspection Totals:	39	17 < 44%>	22 < 56%>	0 < 0%>	

PROPERTY ADDRESS: 42 Canal Street		XRF NO.: 0852						
XRF Reading Number	Location	Side	Structure	Member	Substrate	Color	Condition	
1	CALIBRATION							
2	CALIBRATION							
3	CALIBRATION							
4	STORE FRONT	(A) B C D	DOOR		WOOD	GREEN	INTACT	
5		A (B) C D	WALL		PLASTER	GREEN	"	
		A (B) C D	WALL		CONCRETE	TAN	"	
		A B (C) D	WALL		PLASTER	TAN	POOR	
		A B C (D)	WALL		CONC.	GREEN	INTACT	
		A B C (D)	FLOOR		WOOD	GREEN	"	
10		A (B) C D	FLOOR		WOOD	GREEN	"	
	BASEMENT	A B C D	STAIRS	TREAD	WOOD	GREEN	"	
		A B C D	CEILING		PARTICLE BOARD	GREEN	"	
		(A) B C D	WALL		DRYWALL	GREEN	"	
		A (B) C D	WALL		PLASTER	GREEN	"	
15		A B (C) D	WALL		DW	GREEN	"	
		A B C (D)	WALL		WOOD	GREEN	"	
	EXTERNAL	(A) B C D	WINDOW	FRAME	WOOD	PURPLE	"	
		(A) B C D	"	TRIM	"	"	"	
		(A) B C D	DOOR		WOOD	WHITE	"	
20		A B (C) D	WALL		BRICK	WHITE	"	
21	CALIBRATION	A B C D						
22	"	A B C D						
23	"	A B C D						
		A B C D						
		A B C D						
24	CALIB.	A B C D						
25	"	A B C D						
26	"	A B C D						
27	SECOND FL.	(A) B C D	WALL		PLASTER	ORANGE		
		(A) B C D	WINDOW	TRIM	WOOD	WHITE		
		A (B) C D	WALL		PLASTER	ORANGE		
30		A B (C) D	WALL		X PLASTER	ORANGE		
		A B (C) D	WINDOW	TRIM	WOOD	WHITE		
		A B C (D)	WALL		PLASTER	ORANGE		
35	STAIRS	A B C (D)	WALL		PLASTER	BLUE		

42 CANAL ST, LYONS, NEW YORK FOR SHOTS 1-23.

44 CANAL ST, LYONS, NY FOR SHOTS 24-51

[illegible]

ATTACHMENT F

Previous Reports



ASBESTOS, LEAD PAINT and PCB CAULK SURVEY

ABANDONED BUILDING
44-46 CANAL STREET
LYONS, WAYNE COUNTY, NEW YORK

**ACM and Hazardous Materials
Inspection Report
For
46 Canal Street
Lyons, New York 14489**

**Prepared For:
Wayne County Regional Land Bank
16 William Street
Lyons, NY 14489**

Prepared By:



**690 Delaware Avenue
Buffalo, NY 14209**

August 18th, 2021

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Appendices

Appendix A: Sample Analysis Results in Tabular Form

Appendix B: Bulk Sample Chain of Custodies & Laboratory Results

Appendix C: Certifications and Accreditations

Appendix D: Bulk Sample Location Drawings

1.0 EXECUTIVE SUMMARY

At the request of the Wayne County Regional Land Bank, LiRo Engineers, Inc. (LiRo) has performed an inspection for the presence or absence of Asbestos Containing Material (ACM), Lead Based Paint (LBP) and Polychlorinated Biphenyls (PCBs) at 46 Canal Street, Lyons NY 14489.

1.1 Asbestos Containing Materials (ACM):

LiRo investigated suspect materials which are anticipated to be impacted during the planned demolition. Identified suspect materials include the following:

- Wall Plaster, Gray
- Wall Plaster, White
- Drywall, White
- Duct Tape /Sealant, Gray
- 9x9" Floor Tile, Tan
- Mastic associated with Tan 9x9" FT, Yellow
- Tiled Linoleum
- Mastic associated with Linoleum, Yellow
- Ceiling Plaster, Gray
- Exterior Window Caulk, Off-White

The following material has been identified as **ACM** (greater than 1%):

- **Assumed Roofing, Felt Paper and Tar, 2,600 SF, Intact, Non-Friable**

1.2 Lead Based Paint (LBP)

LiRo performed limited paint chip sampling of painted surfaces to evaluate the likelihood of encountering lead-based paint (LBP) and creating a lead dust hazard during construction activities. A comprehensive inspection as established by Department of Housing and Urban Development (HUD) Guidelines was not conducted, however, representative surfaces/components were tested in a manner designed to adequately represent the different components, substrates, types of paint, construction and paint history. Federal guidelines characterize paint to be lead based if it contains greater than 1.0 mg/cm² lead by surface area or greater than 0.5% lead by weight (5,000 mg/Kg). A full list of sampled coatings is provided in Section 3.2 of this report.

The following coatings have been determined to be **lead-based paint**:

- **Tan Paint on the walls throughout the 1st Floor.**
- **Dark Green Paint on walls throughout 2nd Floor.**

Additionally, lead was determined to be present in concentrations below the threshold for characterization as lead-based paint in the below listed coatings:

- Light Green Paint on West Wall on 1st Floor.

Precautions should be taken by personnel disturbing any painted surfaces to ensure that workers are not exposed to lead in excess of the permissible exposure limit. All work shall be performed in accordance with applicable federal, state and local requirements including OSHA 29 CFR 1926.62 (the OSHA lead in construction standard). At minimum, all generated paint dust, chips and other debris shall require cleaning utilizing wet methods.

1.3 Polychlorinated Biphenyls (PCBs)

Polychlorinated biphenyls (PCBs) were frequently used in the production of caulks used during building construction, renovation and repair activities from the 1950s through 1978. The United States Environmental Protection Agency (EPA) regulates caulk containing PCBs at concentrations greater than or equal to 50 parts per million (ppm) as PCB bulk product waste. PCB bulk product wastes require disposal in accordance with 40 CFR 761.62.

No samples analyzed were found to be PCB Bulk product waste.

2.0 FIELD SURVEY PROCEDURES AND SAMPLE ANALYSIS METHODS

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

Field information was organized in accordance with the AHERA methodology of homogenous area (HA). During the survey, reasonable effort was made to identify all locations and types of ACM materials associated with the scope of work. Sampling has included multiple samples of the same materials chosen at random. However, due to inconsistencies of a manufacturer's processes and the contractor's installation methods, materials of similar construction may contain various amounts of asbestos. Furthermore, some materials that were not originally specified to contain asbestos may in fact contain this mineral.

Bulk samples of suspect ACM were analyzed using polarized light microscopy (PLM) coupled with dispersion staining, as described in 40 CFR Part 763 and the National Emissions Standard for Hazardous Air Pollutants (NESHAPS). NESHAPS is the standard industry protocol for the determination of asbestos in building materials. A suspect material is immersed in a solution of known refractive index and subjected to illumination by polarized light. The color displays that result are compared to a standardized atlas whereby the specific variety of asbestos is determined. It should also be recognized that PLM is primarily a qualitative identification method whereby asbestos percentage, if any, is estimated. While EPA and New York State regulations governing ACM consider materials containing greater than 1-percent as asbestos, accurately quantifying asbestos content below 5-percent has been shown to be unreliable.

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

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

Bulk asbestos samples collected were initially analyzed by Polarized Light Microscopy. Samples which yielded a negative PLM result and which are classified as a "non-friable" material were then re-analyzed utilizing Transmission Electron Microscopy methodology described above. The laboratories performing the analysis procedures was EMSL Analytical, Inc. (EMSL) located at 490 Rowley Road, Depew, New York, 14043. EMSL is accredited with the following agencies:

- New York State Environmental Laboratory Approval Program (ELAP) Lab No. 11606
- National Voluntary Laboratory Accreditation Program (NVLAP) Lab Code 200056-0

All Lead Paint and PCB samples were analyzed by EMSL Analytical, Inc. located at 200 Route 130 North, Cinnaminson, NJ 08077.

3.0 INSPECTION SCOPE AND RESULTS

3.1 Asbestos Containing Materials (ACM):

At the request of the Wayne County Regional Land Bank, LiRo Engineers, Inc. (LiRo) has performed an inspection for the presence or absence of Asbestos Containing Material (ACM) at 46 Canal Street, Lyons, NY 14489. NYSDOL Certified Inspector John Seward (#15-20772) of LiRo performed asbestos bulk sampling on August 13, 2021.

LiRo investigated for suspect materials which are anticipated to be impacted during planned demolition activities. Identified suspect materials include the following:

- Wall Plaster, Gray
- Wall Plaster, White
- Drywall, White
- Duct Tape /Sealant, Gray
- 9x9" Floor Tile, Tan
- Mastic associated with Tan 9x9" FT, Yellow
- Tiled Linoleum
- Mastic associated with Linoleum, Yellow
- Ceiling Plaster, Gray
- Exterior Window Caulk, Off-White

The following material has been identified as **ACM** (greater than 1%):

- **Assumed Roofing, Felt Paper and Tar, 2,600 SF, Intact, Non-Friable**

A summary of analytical results for all bulk asbestos samples collected is included in Appendix A of this report. Asbestos bulk sampling laboratory report forms are included in Appendix B. Certifications for inspection personnel and the analytical laboratory are provided in Appendix C. Bulk sample location drawings are provided in Appendix D. A photographic log is located in Appendix E.

3.2 Lead Based Paint (LBP)

A comprehensive lead paint inspection (as established by Department of Housing and Urban Development Guidelines) was not conducted, however LiRo performed limited paint chip sampling of painted surfaces throughout sections of the facility impacted by the planned construction scope to evaluate the likelihood of creating a lead dust hazard during construction activities. Federal guidelines characterize paint to be lead based if it contains greater than 1.0 mg/cm² lead by surface area or greater than 0.5% lead by weight (5,000 mg/Kg).

ACM and HAZ Inspection Report

A summary of LBP sampling results is included in the table below. Laboratory reports of the paint chip analysis are provided in Appendix B. Sample locations are shown on the Drawings included as Appendix D of this report.

<u>Lead Paint Analytical Results Summary</u>				
<u>Sample ID</u>	<u>Sample Location</u>	<u>Description of Material</u>	<u>Substrate</u>	<u>Lead Concentration (%)</u>
LBP-1	1st Floor, East Wall	Tan Paint	Plaster	0.65
LBP-2	1 st Floor, West Wall	Light Green Paint	Plaster	0.049
LBP-3	2nd Floor, West Wall	Dark Green Paint	Plaster	0.82

3.3 Polychlorinated Biphenyls (PCBs)

Caulking expected to be impacted by the construction scope were sampled for PCBs. A summary of the PCB sampling results is included the table provided below. PCB sampling laboratory report forms are included in Appendix B. Sample locations are shown on the Drawings included as Appendix D of this report.

PCB in Building Material Analysis Summary			
Sample ID	Location	Material	PCB Concentration (ppm)
CA-1, 2, 3	Exterior Window Entry Door	White Window Caulk	Aroclor-1016 – ND Aroclor-1221 – ND Aroclor 1232 – ND Aroclor 1242 – ND Aroclor-1248 – ND Aroclor-1254 – ND Aroclor-1260 – ND Aroclor-1262 – ND Aroclor-1268 – ND

Notes:

- ppm: parts per million
- ND: Not Detected

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Asbestos Containing Materials (ACM):

LiRo has performed an inspection for the presence or absence of ACM in support of the demolition project located at 46 Canal Street, Lyons, NY 14489. All ACM shall require removal and disposal in accordance with all applicable federal, state and local regulations including 12NYCRR Part 56 (NYS DOL Asbestos), 40 CFR Part 61 (EPA National Emission Standard for Air Pollutants), 29 CFR Part 1910 (OSHA Asbestos), and OSHA Part 1926 (OSHA Construction).

LiRo investigated for suspect materials which are anticipated to be impacted during planned demolition activities. Identified suspect materials include the following:

- Wall Plaster, Gray
- Wall Plaster, White
- Drywall, White
- Duct Tape /Sealant, Gray
- 9x9" Floor Tile, Tan
- Mastic associated with Tan 9x9" FT, Yellow
- Tiled Linoleum
- Mastic associated with Linoleum, Yellow
- Ceiling Plaster, Gray
- Exterior Window Caulk, Off-White

The following material has been identified as **ACM** (greater than 1%):

- **Assumed Roofing, Felt Paper and Tar, 2,600 SF, Intact, Non-Friable**

4.2 Lead Based Paint (LBP)

LiRo performed limited paint chip sampling of painted surfaces to evaluate the likelihood of encountering lead-based paint (LBP) and creating a lead dust hazard during construction activities. A comprehensive inspection as established by Department of Housing and Urban Development (HUD) Guidelines was not conducted, however, representative surfaces/components were tested in a manner designed to adequately represent the different components, substrates, types of paint, construction and paint history. Federal guidelines characterize paint to be lead-based if it contains greater than 1.0 mg/cm² lead by surface area or greater than 0.5% lead by weight (5,000 mg/Kg).

Based on the investigation by LiRo, the following coatings have been determined to be lead-based paint:

- **Tan Paint on the walls throughout the 1st Floor.**
Dark Green Paint on walls throughout 2nd Floor.

Additionally, lead was determined to be present in concentrations below the threshold for characterization as lead-based paint in additional test coatings.

- Light Green Paint on West Wall on 1st Floor.

Precautions should be taken by personnel disturbing any painted surfaces to ensure that workers are not exposed to lead in excess of the permissible exposure limit. All work shall be performed in accordance with applicable federal, state and local requirements including OSHA 29 CFR 1926.62 (the OSHA lead in construction standard). At minimum all generated paint dust, chips and other debris shall require cleaning utilizing wet methods.

4.3 Polychlorinated Biphenyls (PCBs)

Polychlorinated biphenyls (PCBs) were frequently used in the production of caulks used during building construction, renovation and repair activities from the 1950s through 1978. The United States Environmental Protection Agency (EPA) regulates caulk containing PCBs at concentrations greater than or equal to 50 parts per million (ppm) as PCB bulk product waste. PCB bulk product wastes require disposal in accordance with 40 CFR 761.62.

No samples analyzed were found to be PCB Bulk product waste.

APPENDIX A:
SAMPLE ANALYSIS RESULTS IN TABULAR FORM

APPENDIX A
SAMPLE ANALYSIS RESULTS IN TABULAR FORM
46 Canal Street
Lyons, New York 14489

Sample No.	HA	Location	Material	Quantity	Results	Friable (Y/N)	Condition
FT1-1	FT	1 st Floor	Tan 9x9” Floor Tile	N/A	NAD	N	I
FT1-2		1 st Floor			NAD		
FTM1-1	FTM	1 st Floor	Yellow Mastic (Tan 9x9”)	N/A	Trace	N	I
FTM1-2		1 st Floor			NA		
DW1-1	DW	1 st Floor	Gray Drywall	N/A	NAD	Y	I
DW1-2		1 st Floor			NAD		
DW1-3		1 st Floor			NAD		
PL1-1	PL	1 st Floor	Gray Wall Plaster	N/A	NAD	Y	I
PL1-2		1 st Floor			NAD		
PL1-3		1 st Floor			NAD		
DT1-1	DT	Basement	Gray Duct Tape	N/A	NAD	N	I
DT1-2		Basement			NAD		
WP1-1	WP	1 st Floor	White Wall Plaster	N/A	NAD	Y	I
WP1-2		1 st Floor			NAD		
WP1-3		1 st Floor			NAD		
TL1-1	TL	1 st Floor	Tiled Linoleum	N/A	NAD	N	SD
TL1-2		1 st Floor			NAD		

Bold – Indicates that material is Asbestos Containing (>1% Asbestos)
***Indicates that material is ACM contaminated due to association with ACM**
 NAD – No Asbestos Detected
 NA – Not Analyzed
 NA/PS – Not Analyzed/Positive Stop

HA – Homogeneous Area
 I – Intact (little or no damage)
 D – Damaged (≤25% local or ≤10% distributed)
 SD – Significantly Damaged (≥25% local or ≥10% distributed)
 N/A – Not Applicable

APPENDIX A
SAMPLE ANALYSIS RESULTS IN TABULAR FORM
46 Canal Street
Lyons, New York 14489

Sample No.	HA	Location	Material	Quantity	Results	Friable (Y/N)	Condition
TLM1-1	TLM	1 st Floor	Yellow Mastic (Tiled Linoleum)	N/A	NAD	N	I
TLM1-2		1 st Floor			NAD		
DW2-1	DW	2 nd Floor	White Drywall	N/A	NAD	Y	I
DW2-2		2 nd Floor			NAD		
DW2-3		2 nd Floor			NAD		
CP1-1	CP	1 st Floor	Gray Ceiling Plaster	N/A	NAD	Y	SD
CP1-2		1 st Floor			NAD		
CP1-3		1 st Floor			NAD		
CA1-1	CA	Exterior- Front Entry	White Window Caulk	N/A	NAD	N	I
CA1-2		Exterior- Front Entry			NAD		

Bold – Indicates that material is Asbestos Containing (>1% Asbestos)
***Indicates that material is ACM contaminated due to association with ACM**
NAD – No Asbestos Detected
NA – Not Analyzed
NA/PS – Not Analyzed/Positive Stop

HA – Homogeneous Area
I – Intact (little or no damage)
D – Damaged ($\leq 25\%$ local or $\leq 10\%$ distributed)
SD – Significantly Damaged ($\geq 25\%$ local or $\geq 10\%$ distributed)
N/A – Not Applicable

APPENDIX B:
BULK SAMPLE CHAIN OF CUSTODY
AND LABORATORY RESULTS



EMSL Analytical, Inc.

2975 Brighton Henrietta Town Line Rd ,100 Ste 130 Rochester, NY 14623

Tel/Fax: (585) 957-9436 / (585) 957-9437

<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 532101424

Customer ID: LIRO50

Customer PO: 19-241-2291

Project ID:

Attention: Jason Colvin
The LiRo Group
690 Delaware Avenue
Buffalo, NY 14209

Phone: (716) 882-5476

Fax: (716) 882-9640

Received Date: 08/13/2021 2:30 PM

Analysis Date: 08/17/2021

Collected Date:

Project: 19-241-2291. Wayne County Regional Land Bank. Lyons, NY. 46 Canal St.

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID FT1-1 532101424-0001		Description 1st Floor - Tan 9x9 Floor Tile Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/17/2021	Tan		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/17/2021	Tan		100.00% Other	None Detected
Sample ID FT1-2 532101424-0002		Description 1st Floor - Tan 9x9 Floor Tile Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/17/2021	Tan		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/17/2021	Tan		100.00% Other	None Detected
Sample ID FTM-1 532101424-0003		Description 1st Floor - Yellow Mastic (9x9 FT) Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/17/2021	Yellow		100.00% Other	Inconclusive: None Detected
Sample below method recommended minimum weight; analyzed at client's request.					
TEM NYS 198.4 NOB	08/17/2021	Yellow	None	100.00% Other	<1% Chrysotile
Sample ID FTM-2 532101424-0004		Description 1st Floor - Yellow Mastic (9x9 FT) Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/17/2021				Insufficient Material
TEM NYS 198.4 NOB	08/17/2021				Insufficient Material
Sample ID DW1-1 532101424-0005		Description 1st Floor - Gray Drywall Homogeneity Heterogeneous			
PLM NYS 198.1 Friable	08/17/2021	Brown/ White	12.00% Cellulose	85.00% Gypsum 3.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

Initial report from: 08/17/2021 13:57:21



EMSL Analytical, Inc.

2975 Brighton Henrietta Town Line Rd , 100 Ste 130 Rochester, NY 14623

Tel/Fax: (585) 957-9436 / (585) 957-9437

<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 532101424

Customer ID: LIRO50

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID DW1-2 532101424-0006			Description 1st Floor - Gray Drywall Homogeneity Heterogeneous		
PLM NYS 198.1 Friable	08/17/2021	Brown/ White	12.00% Cellulose	85.00% Gypsum 3.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID DW1-3 532101424-0007			Description 1st Floor - Gray Drywall Homogeneity Heterogeneous		
PLM NYS 198.1 Friable	08/17/2021	Brown/ White	12.00% Cellulose	85.00% Gypsum 3.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID PL1-1 532101424-0008			Description 1st Floor - Gray Wall Plaster Homogeneity Homogeneous		
PLM NYS 198.1 Friable	08/17/2021	Gray	<1.00% Hair	10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID PL1-2 532101424-0009			Description 1st Floor - Gray Wall Plaster Homogeneity Homogeneous		
PLM NYS 198.1 Friable	08/17/2021	Gray	<1.00% Hair	10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID PL1-3 532101424-0010			Description 1st Floor - Gray Wall Plaster Homogeneity Homogeneous		
PLM NYS 198.1 Friable	08/17/2021	Gray	2.00% Hair	5.00% Ca Carbonate 93.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID DT1-1 532101424-0011			Description Basement - Gray Duct Tape/Sealant Homogeneity Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/17/2021	Brown/ Black	<1.00% Fibrous (other) <1.00% Min. Wool	100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/17/2021	Brown/ Black		100.00% Other	None Detected

Initial report from: 08/17/2021 13:57:21



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<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 532101424

Customer ID: LIRO50

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID DT1-2 532101424-0012		Description Homogeneity	Basement - Gray Duct Tape/Sealant Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/17/2021	Brown/ Black	<1.00% Min. Wool	100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/17/2021	Brown/ Black		100.00% Other	None Detected
Sample ID WP1-1 532101424-0013		Description Homogeneity	1st Floor - White Wall Plaster Heterogeneous		
PLM NYS 198.1 Friable	08/17/2021	Brown/ White	5.00% Cellulose <1.00% Glass	85.00% Gypsum 10.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID WP1-2 532101424-0014		Description Homogeneity	1st Floor - White Wall Plaster Heterogeneous		
PLM NYS 198.1 Friable	08/17/2021	Brown/ White	5.00% Cellulose <1.00% Glass	85.00% Gypsum 10.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID WP1-3 532101424-0015		Description Homogeneity	1st Floor - White Wall Plaster Homogeneous		
PLM NYS 198.1 Friable	08/17/2021	White	2.00% Cellulose	<1.00% Ca Carbonate 85.00% Gypsum 13.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID TL1-1 532101424-0016		Description Homogeneity	1st Floor - Tiled Linoleum Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/17/2021	Tan	<1.00% Glass <1.00% Wollastonite	100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/17/2021	Tan		100.00% Other	None Detected
Sample ID TL1-2 532101424-0017		Description Homogeneity	1st Floor - Tiled Linoleum Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/17/2021	Tan	<1.00% Glass <1.00% Wollastonite	100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/17/2021	Tan		100.00% Other	None Detected

Initial report from: 08/17/2021 13:57:21



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EMSL Order: 532101424

Customer ID: LIRO50

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID TLM1-1 532101424-0018		Description 1st Floor - Mastic Yellow (Linoleum)			
		Homogeneity Heterogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB 08/17/2021 White/ Yellow Result includes a small amount of inseparable attached material				100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB 08/17/2021 White/ Yellow				100.00% Other	None Detected
Sample ID TLM1-2 532101424-0019		Description 1st Floor - Mastic Yellow (Linoleum)			
		Homogeneity Heterogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB 08/17/2021 White/ Yellow Result includes a small amount of inseparable attached material				100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB 08/17/2021 White/ Yellow		9.70% Fibrous (other)		90.30% Other	None Detected
Sample ID DW2-1 532101424-0020		Description 2nd Floor - White Drywall			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable 08/17/2021 White		2.00% Cellulose		85.00% Gypsum 13.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID DW2-2 532101424-0021		Description 2nd Floor - White Drywall			
		Homogeneity Heterogeneous			
PLM NYS 198.1 Friable 08/17/2021 Brown/ White		5.00% Cellulose		85.00% Gypsum 10.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID DW2-3 532101424-0022		Description 2nd Floor - White Drywall			
		Homogeneity Heterogeneous			
PLM NYS 198.1 Friable 08/17/2021 Brown/ White		12.00% Cellulose		85.00% Gypsum 3.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID CP1-1-Plaster 1 532101424-0023		Description 1st Floor - Gray Ceiling Plaster			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable 08/17/2021 Beige				15.00% Ca Carbonate 85.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

Initial report from: 08/17/2021 13:57:21



EMSL Analytical, Inc.

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<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 532101424

Customer ID: LIRO50

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID CP1-1-Plaster 2 532101424-0023A		Description 1st Floor - Gray Ceiling Plaster			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable	08/17/2021	Gray	<1.00% Hair	10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID CP1-2-Plaster 1 532101424-0024		Description 1st Floor - Gray Ceiling Plaster			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable	08/17/2021	Beige		15.00% Ca Carbonate 85.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID CP1-2-Plaster 2 532101424-0024A		Description 1st Floor - Gray Ceiling Plaster			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable	08/17/2021	Gray	<1.00% Hair	10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID CP1-3-Plaster 1 532101424-0025		Description 1st Floor - Gray Ceiling Plaster			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable	08/17/2021	White		15.00% Ca Carbonate 85.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID CP1-3-Plaster 2 532101424-0025A		Description 1st Floor - Gray Ceiling Plaster			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable	08/17/2021	Gray	2.00% Hair	98.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID CA1-1 532101424-0026		Description Exterior- Front Entry Way - White Window Caulk			
		Homogeneity Heterogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/17/2021	White/ Red		100.00% Other	Inconclusive: None Detected
Result includes a small amount of inseparable attached material					
TEM NYS 198.4 NOB	08/17/2021	White/ Red		100.00% Other	None Detected

Initial report from: 08/17/2021 13:57:21



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<http://www.EMSL.com> / rochesterlab@EMSL.com

EMSL Order: 532101424

Customer ID: LIRO50

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

		Non-Asbestos			
Test	Analyzed Date	Color	Fibrous	Non-Fibrous	Asbestos
Sample ID	CA1-2	Description	Exterior- Front Entry Way - White Window Caulk		
	532101424-0027	Homogeneity	Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/17/2021	White/ Red		100.00% Other	Inconclusive: None Detected
Result includes a small amount of inseparable attached material					
TEM NYS 198.4 NOB	08/17/2021	White/ Red		100.00% Other	None Detected

Initial report from: 08/17/2021 13:57:21



EMSL Analytical, Inc.

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Tel/Fax: (585) 957-9436 / (585) 957-9437

<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 532101424

Customer ID: LIRO50

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via NYS ELAP Approved Methods. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 8/13/2021

Sample Receipt Time: 2:30 PM

Analysis Completed Date: 8/17/2021

Analysis Completed Time: 8:48 AM

Analyst(s):

Jessica Schwartz PLM NYS 198.1 Friable (6)

Jessica Schwartz PLM NYS 198.6 NOB (11)

Melissa Hartwig PLM NYS 198.1 Friable (12)

Melissa Hartwig TEM NYS 198.4 NOB (11)

Samples reviewed and approved by:

Peter Donato, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. All samples examined for the presence of vermiculite when analyzed via NYS 198.1. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos. Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government. 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. NOB= Non friable organically bound; N/A= Not applicable VCM= Vermiculite containing material.

Samples analyzed by EMSL Analytical, Inc. Rochester, NY NYS ELAP 12088, NVLAP Lab Code 600183-0

Initial report from: 08/17/2021 13:57:21

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminon, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>cinnaminonleadlab@emsl.com

EMSL Order: 202106295

CustomerID: LIRO50

CustomerPO: 19-241-2291

ProjectID:

Attn: **Jason Colvin**
The LiRo Group
690 Delaware Avenue
Buffalo, NY 14209

Phone: (716) 882-5476
Fax: (716) 882-9640
Received: 08/16/21 10:00 AM
Collected: 8/13/2021

Project: **Wayne County Regional Land Bank, Lyons, NY / 46 Canal St.****Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)***

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>Lead Concentration</i>
PAINT-1	202106295-0001	8/13/2021	8/18/2021	0.2505 g	0.65 % wt
	Site: 1ST FLOOR - TAN PAINT				
PAINT-2	202106295-0002	8/13/2021	8/18/2021	0.2543 g	0.049 % wt
	Site: 1ST FLOOR - LIGHT GREEN PAINT				
PAINT-3	202106295-0003	8/13/2021	8/18/2021	0.2522 g	0.82 % wt
	Site: 2ND FLOOR - DARK GREEN PAINT				

Phillip Worby, Lead Laboratory Manager
or other approved signatory

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Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminon, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 08/23/2021 09:43:06



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn:

J. Seward
The LiRo Group
690 Delaware Avenue
Buffalo, NY 14209

8/23/2021

Phone: (716) 882-5476
Fax: (716) 882-9640

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 8/16/2021. The results are tabulated on the attached data pages for the following client designated project:

Wayne County Regional Land Bank

The reference number for these samples is EMSL Order #012109236. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

Phillip Worby, Environmental Chemistry
Laboratory Director



The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.
NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, CA ELAP 1877

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.EMSL.com>EnvChemistry2@emsl.com

EMSL Order: 012109236
CustomerID: LIRO50
CustomerPO: 19-241-2291
ProjectID:

Attn: **J. Seward**
The LiRo Group
690 Delaware Avenue
Buffalo, NY 14209

Phone: (716) 882-5476
Fax: (716) 882-9640
Received: 8/16/2021 08:45 AM

Project: **Wayne County Regional Land Bank****Analytical Results**

Client Sample Description CA - 1,2,3
Exterior - Entry way window

Collected: 8/13/2021 11:45:00 AM

Lab ID: 012109236-0001

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
GC-SVOA					
3540C/8082	Aroclor-1016	ND D	0.91 mg/Kg	8/17/2021 ER	8/18/2021 EH 00:00
3540C/8082	Aroclor-1221	ND D	0.91 mg/Kg	8/17/2021 ER	8/18/2021 EH 00:00
3540C/8082	Aroclor-1232	ND D	0.91 mg/Kg	8/17/2021 ER	8/18/2021 EH 00:00
3540C/8082	Aroclor-1242	ND D	0.91 mg/Kg	8/17/2021 ER	8/18/2021 EH 00:00
3540C/8082	Aroclor-1248	ND D	0.91 mg/Kg	8/17/2021 ER	8/18/2021 EH 00:00
3540C/8082	Aroclor-1254	ND D	0.91 mg/Kg	8/17/2021 ER	8/18/2021 EH 00:00
3540C/8082	Aroclor-1260	ND D	0.91 mg/Kg	8/17/2021 ER	8/18/2021 EH 00:00
3540C/8082	Aroclor-1262	ND D	0.91 mg/Kg	8/17/2021 ER	8/18/2021 EH 00:00
3540C/8082	Aroclor-1268	ND D	0.91 mg/Kg	8/17/2021 ER	8/18/2021 EH 00:00

Definitions:

MDL - method detection limit

J - Result was below the reporting limit, but at or above the MDL

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit (Analytical)

D - Dilution Sample required a dilution which was used to calculate final results

APPENDIX C:
CERTIFICATIONS AND ACCREDITATIONS

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 600183-0

EMSL Analytical, Inc. Rochester, NY
Rochester, NY

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

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2021-01-01 through 2021-12-31

Effective Dates



A handwritten signature in blue ink, which appears to read "Peter S. Lander".

For the National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

EMSL Analytical, Inc. Rochester, NY

2975 Brighton Henrietta Town Line Rd.

Building 100, Suite 130

Rochester, NY 14623

Mr. Peter Donato

Phone: 585-957-9436 Fax: 585-957-9437

Email: pdonato@emsl.com

<http://www.emsl.com>

ASBESTOS FIBER ANALYSIS

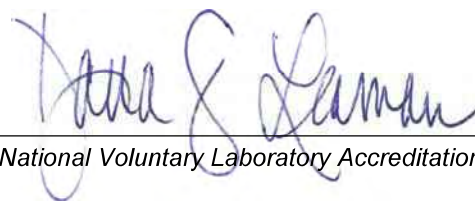
NVLAP LAB CODE 600183-0

Bulk Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

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



For the National Voluntary Laboratory Accreditation Program

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2022
Issued April 01, 2021
Revised May 05, 2021

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. PHILLIP M. WORBY
EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:*

Bacteriology

Coliform, Total / E. coli (Qualitative)	SM 20, 21-23 9223B (-04) (Colilert)
Heterotrophic Plate Count	SM 20, 21-23 9215B (-04)

Disinfection By-products

Bromide	EPA 300.0 Rev. 2.1

Fuel Additives

Methyl tert-butyl ether	EPA 524.2
Naphthalene	EPA 524.2

Metals I

Arsenic, Total	EPA 200.8 Rev. 5.4
Barium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Cadmium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Chromium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Copper, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Iron, Total	EPA 200.7 Rev. 4.4
Lead, Total	EPA 200.8 Rev. 5.4
Manganese, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Mercury, Total	EPA 245.1 Rev. 3.0
Selenium, Total	EPA 200.8 Rev. 5.4
Silver, Total	EPA 200.7 Rev. 4.4

Metals I

Silver, Total	EPA 200.8 Rev. 5.4
Zinc, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4

Metals II

Aluminum, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Antimony, Total	EPA 200.8 Rev. 5.4
Beryllium, Total	EPA 200.8 Rev. 5.4
Nickel, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Thallium, Total	EPA 200.8 Rev. 5.4

Metals III

Calcium, Total	EPA 200.7 Rev. 4.4
Magnesium, Total	EPA 200.7 Rev. 4.4
Potassium, Total	EPA 200.7 Rev. 4.4
Sodium, Total	EPA 200.7 Rev. 4.4
Uranium (Mass)	EPA 200.8 Rev. 5.4

Microextractables

1,2,3-Trichloropropane, Low Level	EPA 504.1
1,2-Dibromo-3-chloropropane, Low Level	EPA 504.1
1,2-Dibromoethane, Low Level	EPA 504.1

Miscellaneous

Asbestos	EPA 100.1
	EPA 100.2

Serial No.: 63577

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2022
Issued April 01, 2021
Revised May 05, 2021

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. PHILLIP M. WORBY
EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

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ENVIRONMENTAL ANALYSES POTABLE WATER
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Miscellaneous

Organic Carbon, Total	SM 21-23 5310C (-00)
Surfactant (MBAS)	SM 21-23 5540C (-00)
Turbidity	SM 21-23 2130 B (-01)
	EPA 180.1 Rev. 2.0

Non-Metals

Alkalinity	SM 21-23 2320B (-97)
Calcium Hardness	EPA 200.7 Rev. 4.4
Chloride	EPA 300.0 Rev. 2.1
Color	SM 21-23 2120B (-01)
Cyanide	SM 20, 21-23 4500-CN E
	SM 20, 21-23 4500-CN G
Fluoride, Total	EPA 300.0 Rev. 2.1
Nitrate (as N)	EPA 300.0 Rev. 2.1
Nitrite (as N)	EPA 300.0 Rev. 2.1
Orthophosphate (as P)	EPA 300.0 Rev. 2.1
Silica, Total	EPA 200.7 Rev. 4.4
Solids, Total Dissolved	SM 21-23 2540C (-97)
Specific Conductance	SM 21-23 2510B (-97)
Sulfate (as SO ₄)	EPA 300.0 Rev. 2.1

Perfluorinated Alkyl Acids

Perfluorooctanesulfonic acid (PFOS)	EPA 537
	EPA 537.1
Perfluorooctanoic acid (PFOA)	EPA 537
	EPA 537.1

Radiological Analytes

Gamma Emitters	EPA 901.1
Gross Alpha	EPA 900.0
Gross Beta	EPA 900.0
Radium-226	EPA 903.0
Radium-228	EPA 904.0
Radon	SM 20-22 7500-Rn B(-06)
Tritium	EPA 906.0
Uranium (Activity)	EPA 908.0

Trihalomethanes

Bromodichloromethane	EPA 524.2
Bromoform	EPA 524.2
Chloroform	EPA 524.2
Dibromochloromethane	EPA 524.2

Volatile Aromatics

1,2,3-Trichlorobenzene	EPA 524.2
1,2,4-Trichlorobenzene	EPA 524.2
1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2
1,3-Dichlorobenzene	EPA 524.2
1,4-Dichlorobenzene	EPA 524.2
2-Chlorotoluene	EPA 524.2
4-Chlorotoluene	EPA 524.2
Benzene	EPA 524.2
Bromobenzene	EPA 524.2

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Volatile Aromatics

Chlorobenzene	EPA 524.2
Ethyl benzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
p-Isopropyltoluene (P-Cymene)	EPA 524.2
sec-Butylbenzene	EPA 524.2
Styrene	EPA 524.2
tert-Butylbenzene	EPA 524.2
Toluene	EPA 524.2
Total Xylenes	EPA 524.2

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethene	EPA 524.2
1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2
1,2-Dichloroethane	EPA 524.2
1,2-Dichloropropane	EPA 524.2
1,3-Dichloropropane	EPA 524.2
2,2-Dichloropropane	EPA 524.2

Volatile Halocarbons

Bromochloromethane	EPA 524.2
Bromomethane	EPA 524.2
Carbon tetrachloride	EPA 524.2
Chloroethane	EPA 524.2
Chloromethane	EPA 524.2
cis-1,2-Dichloroethene	EPA 524.2
cis-1,3-Dichloropropene	EPA 524.2
Dibromomethane	EPA 524.2
Dichlorodifluoromethane	EPA 524.2
Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Trichlorofluoromethane	EPA 524.2
Vinyl chloride	EPA 524.2

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Acrylates

Acrolein (Propenal)	EPA 8260D
	EPA 624.1
Acrylonitrile	EPA 8260D
	EPA 624.1

Amines

1,2-Diphenylhydrazine	EPA 8270E
1,4-Phenylenediamine	EPA 8270E
1-Naphthylamine	EPA 8270E
2-Naphthylamine	EPA 8270E
2-Nitroaniline	EPA 8270E
3-Nitroaniline	EPA 8270E
4-Chloroaniline	EPA 8270E
4-Nitroaniline	EPA 8270E
5-Nitro-o-toluidine	EPA 8270E
Aniline	EPA 625.1
	EPA 8270E
Carbazole	EPA 625.1
	EPA 8270E
Pronamide	EPA 8270E
Propionitrile	EPA 8260D
Pyridine	EPA 8260D
	EPA 625.1
	EPA 8270E

Bacteriology

Heterotrophic Plate Count	SM 18-21 9215B

Benzidines

3,3'-Dichlorobenzidine	EPA 625.1
	EPA 8270E
3,3'-Dimethylbenzidine	EPA 8270E
Benzidine	EPA 625.1
	EPA 8270E

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
	EPA 608.3
4,4'-DDE	EPA 8081B
	EPA 608.3
4,4'-DDT	EPA 8081B
	EPA 608.3
Aldrin	EPA 8081B
	EPA 608.3
alpha-BHC	EPA 8081B
	EPA 608.3
alpha-Chlordane	EPA 8081B
beta-BHC	EPA 8081B
	EPA 608.3
Chlordane Total	EPA 8081B
	EPA 608.3
Chlorobenzilate	EPA 8270E
delta-BHC	EPA 8081B
	EPA 608.3
Diallate	EPA 8270E

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Chlorinated Hydrocarbon Pesticides

Dieldrin	EPA 8081B EPA 608.3
Endosulfan I	EPA 8081B EPA 608.3
Endosulfan II	EPA 8081B EPA 608.3
Endosulfan sulfate	EPA 8081B EPA 608.3
Endrin	EPA 8081B EPA 608.3
Endrin aldehyde	EPA 8081B EPA 608.3
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 8081B EPA 608.3
Heptachlor epoxide	EPA 8081B EPA 608.3
Isodrin	EPA 8270E
Kepone	EPA 8270E
Lindane	EPA 8081B EPA 608.3
Methoxychlor	EPA 8081B EPA 608.3
Mirex	EPA 8081B
PCNB	EPA 8270E

Chlorinated Hydrocarbon Pesticides

Toxaphene	EPA 8081B EPA 608.3

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260D
1,2,4,5-Tetrachlorobenzene	EPA 8270E
1,2,4-Trichlorobenzene	EPA 625.1 EPA 8270E
2-Chloronaphthalene	EPA 625.1 EPA 8270E
Hexachlorobenzene	EPA 625.1 EPA 8270E
Hexachlorobutadiene	EPA 625.1 EPA 8270E
Hexachlorocyclopentadiene	EPA 625.1 EPA 8270E
Hexachloroethane	EPA 8260D EPA 625.1 EPA 8270E
Hexachloropropene	EPA 8270E
Pentachlorobenzene	EPA 8270E

Chlorophenoxy Acid Pesticides

2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A

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Metals I		Metals I	
Calcium, Total	EPA 6010D	Manganese, Total	EPA 200.8, Rev. 5.4 (1994)
	EPA 6020B		EPA 200.7, Rev. 4.4 (1994)
	EPA 200.8, Rev. 5.4 (1994)		EPA 6010D
Chromium, Total	EPA 200.7, Rev. 4.4 (1994)	Nickel, Total	EPA 6020B
	EPA 6010D		EPA 200.8, Rev. 5.4 (1994)
	EPA 6020B		EPA 200.7, Rev. 4.4 (1994)
Copper, Total	EPA 200.8, Rev. 5.4 (1994)	Potassium, Total	EPA 6010D
	EPA 200.7, Rev. 4.4 (1994)		EPA 6020B
	EPA 6010D		EPA 200.8, Rev. 5.4 (1994)
Iron, Total	EPA 6020B	Silver, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 200.8, Rev. 5.4 (1994)		EPA 6010D
	EPA 200.7, Rev. 4.4 (1994)		EPA 6020B
Lead, Total	EPA 6010D	Sodium, Total	EPA 200.8, Rev. 5.4 (1994)
	EPA 6020B		EPA 200.7, Rev. 4.4 (1994)
	EPA 200.8, Rev. 5.4 (1994)		EPA 6010D
Magnesium, Total	EPA 200.7, Rev. 4.4 (1994)	Strontium, Total	EPA 6020B
	EPA 6010D		EPA 200.8, Rev. 5.4 (1994)
	EPA 6020B		EPA 6010D
Manganese, Total	EPA 200.8, Rev. 5.4 (1994)	Antimony, Total	EPA 6020B
	EPA 200.7, Rev. 4.4 (1994)		EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D		EPA 6010D
	EPA 6020B		EPA 6020B

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Metals II		Metals II	
Antimony, Total	EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)	Zinc, Total	EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Arsenic, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)	Metals III	
Beryllium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)	Cobalt, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Chromium VI	EPA 7196A SM 3500-Cr B-2011	Gold, Total	SM 3111B-2011
Mercury, Total	EPA 245.1, Rev. 3.0 (1994) EPA 7470A SM 3112B-2011	Molybdenum, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Selenium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)	Palladium, Total	SM 3111B-2011
Vanadium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)	Platinum, Total	SM 3111B-2011
Zinc, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D	Thallium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)
		Tin, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)
		Titanium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B

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Metals III		Miscellaneous	
Titanium, Total	EPA 200.8, Rev. 5.4 (1994)	Phenols	EPA 9065
Uranium (Mass)	EPA 200.8, Rev. 5.4 (1994)	Silica, Dissolved	EPA 200.7, Rev. 4.4 (1994)
Mineral		Specific Conductance	EPA 120.1 (Rev. 1982)
Acidity	SM 2310B-2011		SM 2510B-2011
Alkalinity	SM 2320B-2011	Sulfide (as S)	EPA 9050A
Chloride	EPA 300.0, Rev. 2.1 (1993)		EPA 9034
	EPA 9056A		SM 4500-S2- D-2011
Fluoride, Total	EPA 300.0, Rev. 2.1 (1993)	Surfactant (MBAS)	SM 5540C-2011
	EPA 9056A	Turbidity	SM 2130 B-2011
Hardness, Total	EPA 200.7, Rev. 4.4 (1994)	Nitroaromatics and Isophorone	
Sulfate (as SO ₄)	EPA 300.0, Rev. 2.1 (1993)	1,3,5-Trinitrobenzene	EPA 8270E
	EPA 9056A	1,3-Dinitrobenzene	EPA 8270E
Miscellaneous		1,4-Naphthoquinone	EPA 8270E
Boron, Total	EPA 200.7, Rev. 4.4 (1994)	2,4-Dinitrotoluene	EPA 625.1
	EPA 6010D		EPA 8270E
	EPA 6020B	2,6-Dinitrotoluene	EPA 625.1
Bromide	EPA 300.0, Rev. 2.1 (1993)		EPA 8270E
	EPA 9056A	Isophorone	EPA 625.1
Color	SM 2120B-2011		EPA 8270E
Cyanide, Total	EPA 9014	Nitrobenzene	EPA 625.1
	SM 4500-CN E-2011		EPA 8270E
non-Polar Extractable Material (TPH)	EPA 1664A	Nitrosoamines	
Oil and Grease Total Recoverable (HEM)	EPA 1664A	N-Nitrosodiethylamine	EPA 8270E
Organic Carbon, Total	SM 5310C-2011	N-Nitrosodimethylamine	EPA 625.1
Phenols	EPA 420.1 (Rev. 1978)		EPA 8270E

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Nitrosoamines

N-Nitrosodi-n-butylamine	EPA 8270E
N-Nitrosodi-n-propylamine	EPA 625.1
	EPA 8270E
N-Nitrosodiphenylamine	EPA 625.1
	EPA 8270E
N-nitrosomethylethylamine	EPA 8270E
N-nitrosomorpholine	EPA 8270E
N-Nitrosopyrrolidine	EPA 8270E

Nutrient

Ammonia (as N)	SM 4500-NH3 C-2011
Kjeldahl Nitrogen, Total	SM 4500-NH3 C-2011
Nitrate (as N)	EPA 300.0, Rev. 2.1 (1993)
	EPA 9056A
Nitrite (as N)	EPA 300.0, Rev. 2.1 (1993)
	EPA 9056A
Orthophosphate (as P)	EPA 300.0, Rev. 2.1 (1993)
	EPA 9056A
Phosphorus, Total	SM 4500-P E-2011

Organophosphate Pesticides

Atrazine	EPA 8270E
Dimethoate	EPA 8270E
Disulfoton	EPA 8270E
Famphur	EPA 8270E
Parathion ethyl	EPA 8270E
Parathion methyl	EPA 8270E

Petroleum Hydrocarbons

Diesel Range Organics	EPA 8015D
Gasoline Range Organics	EPA 8015D

Phthalate Esters

Benzyl butyl phthalate	EPA 625.1
	EPA 8270E
Bis(2-ethylhexyl) phthalate	EPA 625.1
	EPA 8270E
Diethyl phthalate	EPA 625.1
	EPA 8270E
Dimethyl phthalate	EPA 625.1
	EPA 8270E
Di-n-butyl phthalate	EPA 625.1
	EPA 8270E
Di-n-octyl phthalate	EPA 625.1
	EPA 8270E

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016)	EPA 8082A
	EPA 608.3
Aroclor 1221 (PCB-1221)	EPA 8082A
	EPA 608.3
Aroclor 1232 (PCB-1232)	EPA 8082A
	EPA 608.3
Aroclor 1242 (PCB-1242)	EPA 8082A
	EPA 608.3
Aroclor 1248 (PCB-1248)	EPA 8082A

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Polychlorinated Biphenyls

Aroclor 1248 (PCB-1248)	EPA 608.3
Aroclor 1254 (PCB-1254)	EPA 8082A
	EPA 608.3
Aroclor 1260 (PCB-1260)	EPA 8082A
	EPA 608.3
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A
PCB 1	EPA 8082A
PCB 101	EPA 8082A
PCB 110	EPA 8082A
PCB 138	EPA 8082A
PCB 141	EPA 8082A
PCB 151	EPA 8082A
PCB 153	EPA 8082A
PCB 170	EPA 8082A
PCB 18	EPA 8082A
PCB 180	EPA 8082A
PCB 183	EPA 8082A
PCB 187	EPA 8082A
PCB 206	EPA 8082A
PCB 31	EPA 8082A
PCB 44	EPA 8082A
PCB 5	EPA 8082A
PCB 52	EPA 8082A
PCB 66	EPA 8082A
PCB 87	EPA 8082A

Polynuclear Aromatics

2-Acetylaminofluorene	EPA 8270E
3-Methylcholanthrene	EPA 8270E
7,12-Dimethylbenzyl (a) anthracene	EPA 8270E
Acenaphthene	EPA 625.1
	EPA 8270E
Acenaphthylene	EPA 625.1
	EPA 8270E
Anthracene	EPA 625.1
	EPA 8270E
Benzo(a)anthracene	EPA 625.1
	EPA 8270E
Benzo(a)pyrene	EPA 625.1
	EPA 8270E
Benzo(b)fluoranthene	EPA 625.1
	EPA 8270E
Benzo(g,h,i)perylene	EPA 625.1
	EPA 8270E
Benzo(k)fluoranthene	EPA 625.1
	EPA 8270E
Chrysene	EPA 625.1
	EPA 8270E
Dibenzo(a,h)anthracene	EPA 625.1
	EPA 8270E
Fluoranthene	EPA 625.1
	EPA 8270E
Fluorene	EPA 625.1

Serial No.: 62815

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**NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER**



Expires 12:01 AM April 01, 2022
Issued April 01, 2021

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. PHILLIP M. WORBY
EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Polynuclear Aromatics

Fluorene	EPA 8270E
Indeno(1,2,3-cd)pyrene	EPA 625.1
	EPA 8270E
Naphthalene	EPA 625.1
	EPA 8270E
Phenanthrene	EPA 625.1
	EPA 8270E
Pyrene	EPA 625.1
	EPA 8270E

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270E
2,4,5-Trichlorophenol	EPA 625.1
	EPA 8270E
2,4,6-Trichlorophenol	EPA 625.1
	EPA 8270E
2,4-Dichlorophenol	EPA 625.1
	EPA 8270E
2,4-Dimethylphenol	EPA 625.1
	EPA 8270E
2,4-Dinitrophenol	EPA 625.1
	EPA 8270E
2,6-Dichlorophenol	EPA 8270E
2-Chlorophenol	EPA 625.1
	EPA 8270E
2-Methyl-4,6-dinitrophenol	EPA 625.1

Priority Pollutant Phenols

2-Methyl-4,6-dinitrophenol	EPA 8270E
2-Methylphenol	EPA 625.1
	EPA 8270E
2-Nitrophenol	EPA 625.1
	EPA 8270E
3-Methylphenol	EPA 8270E
4-Chloro-3-methylphenol	EPA 625.1
	EPA 8270E
4-Methylphenol	EPA 625.1
	EPA 8270E
4-Nitrophenol	EPA 625.1
	EPA 8270E
Cresols, Total	EPA 8270E
Pentachlorophenol	EPA 625.1
	EPA 8270E
Phenol	EPA 625.1
	EPA 8270E

Residue

Settleable Solids	SM 2540 F-2011
Solids, Total	SM 2540 B-2011
Solids, Total Dissolved	SM 2540 C-2011
Solids, Total Suspended	SM 2540 D-2011
Solids, Volatile	EPA 160.4 (Issued 1971)

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270E

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Semi-Volatile Organics

1,2-Dichlorobenzene, Semi-volatile	EPA 8270E
1,3-Dichlorobenzene, Semi-volatile	EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270E
2-Methylnaphthalene	EPA 8270E
4-Amino biphenyl	EPA 8270E
Acetophenone	EPA 8270E
Aramite	EPA 8270E
Benzaldehyde	EPA 8270E
Benzoic Acid	EPA 8270E
Caprolactam	EPA 8270E
Dibenzofuran	EPA 8270E
Ethyl methanesulfonate	EPA 8270E
Isosafrole	EPA 8270E
Methyl methanesulfonate	EPA 8270E
n-Decane	EPA 625.1
n-Octadecane	EPA 625.1
O,O,O-Triethyl phosphorothioate	EPA 8270E
p-Dimethylaminoazobenzene	EPA 8270E
Phenacetin	EPA 8270E
Safrole	EPA 8270E

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260D
1,2,4-Trimethylbenzene	EPA 8260D
1,2-Dichlorobenzene	EPA 8260D
	EPA 624.1

Volatile Aromatics

1,3,5-Trimethylbenzene	EPA 8260D
1,3-Dichlorobenzene	EPA 8260D
	EPA 624.1
1,4-Dichlorobenzene	EPA 8260D
	EPA 624.1
2-Chlorotoluene	EPA 8260D
4-Chlorotoluene	EPA 8260D
Benzene	EPA 8260D
	EPA 624.1
Bromobenzene	EPA 8260D
Chlorobenzene	EPA 8260D
	EPA 624.1
Ethyl benzene	EPA 8260D
	EPA 624.1
Isopropylbenzene	EPA 8260D
m/p-Xylenes	EPA 8260D
	EPA 624.1
Naphthalene, Volatile	EPA 8260D
n-Butylbenzene	EPA 8260D
n-Propylbenzene	EPA 8260D
o-Xylene	EPA 8260D
	EPA 624.1
p-Isopropyltoluene (P-Cymene)	EPA 8260D
sec-Butylbenzene	EPA 8260D
Styrene	EPA 8260D
	EPA 624.1

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Volatile Aromatics

tert-Butylbenzene	EPA 8260D
Toluene	EPA 8260D
	EPA 624.1
Total Xylenes	EPA 8260D
	EPA 624.1

Volatile Chlorinated Organics

Benzyl chloride	EPA 8260D

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260D
1,1,1-Trichloroethane	EPA 8260D
	EPA 624.1
1,1,2,2-Tetrachloroethane	EPA 8260D
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260D
1,1,2-Trichloroethane	EPA 8260D
	EPA 624.1
1,1-Dichloroethane	EPA 8260D
	EPA 624.1
1,1-Dichloroethene	EPA 8260D
	EPA 624.1
1,1-Dichloropropene	EPA 8260D
1,2,3-Trichloropropane	EPA 8260D
1,2-Dibromo-3-chloropropane	EPA 8260D
1,2-Dibromoethane	EPA 8260D
1,2-Dichloroethane	EPA 8260D
	EPA 624.1

Volatile Halocarbons

1,2-Dichloropropane	EPA 8260D
	EPA 624.1
1,3-Dichloropropane	EPA 8260D
2,2-Dichloropropane	EPA 8260D
2-Chloro-1,3-butadiene (Chloroprene)	EPA 8260D
2-Chloroethylvinyl ether	EPA 8260D
	EPA 624.1
3-Chloropropene (Allyl chloride)	EPA 8260D
Bromochloromethane	EPA 8260D
Bromodichloromethane	EPA 8260D
	EPA 624.1
Bromoform	EPA 8260D
	EPA 624.1
Bromomethane	EPA 8260D
	EPA 624.1
Carbon tetrachloride	EPA 8260D
	EPA 624.1
Chloroethane	EPA 8260D
	EPA 624.1
Chloroform	EPA 8260D
	EPA 624.1
Chloromethane	EPA 8260D
	EPA 624.1
cis-1,2-Dichloroethene	EPA 8260D
	EPA 624.1
cis-1,3-Dichloropropene	EPA 8260D

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Volatile Halocarbons

cis-1,3-Dichloropropene	EPA 624.1
Dibromochloromethane	EPA 8260D
	EPA 624.1
Dibromomethane	EPA 8260D
Dichlorodifluoromethane	EPA 8260D
Hexachlorobutadiene, Volatile	EPA 8260D
Methyl iodide	EPA 8260D
Methylene chloride	EPA 8260D
	EPA 624.1
Tetrachloroethene	EPA 8260D
	EPA 624.1
trans-1,2-Dichloroethene	EPA 8260D
	EPA 624.1
trans-1,3-Dichloropropene	EPA 8260D
	EPA 624.1
trans-1,4-Dichloro-2-butene	EPA 8260D
Trichloroethene	EPA 8260D
	EPA 624.1
Trichlorofluoromethane	EPA 8260D
	EPA 624.1
Vinyl chloride	EPA 8260D
	EPA 624.1

Volatiles Organics

1,4-Dioxane	EPA 8260D
2-Butanone (Methylethyl ketone)	EPA 8260D

Volatiles Organics

2-Hexanone	EPA 8260D
4-Methyl-2-Pentanone	EPA 8260D
Acetone	EPA 8260D
Acetonitrile	EPA 8260D
Carbon Disulfide	EPA 8260D
Cyclohexane	EPA 8260D
Di-ethyl ether	EPA 8260D
Ethylene Glycol	EPA 8015D
Isobutyl alcohol	EPA 8260D
Isopropanol	EPA 8260D
Methyl acetate	EPA 8260D
Methyl cyclohexane	EPA 8260D
o-Toluidine	EPA 8270E
Vinyl acetate	EPA 8260D

Sample Preparation Methods

SM 4500-P B(5)-2011
EPA 5030C
SM 4500-CN B-2011 and C-201
EPA 3015A
EPA 9030B
EPA 3010A
EPA 3005A
EPA 3510C
EPA 3520C
SM 4500-NH3 B-2011

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Sample Preparation Methods

SM 4500-N Org B-2011 or C-2011
EPA 9010C



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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
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Acrylates		Characteristic Testing	
Acrolein (Propenal)	EPA 8260D	TCLP	EPA 1311
Acrylonitrile	EPA 8260D	Chlorinated Hydrocarbon Pesticides	
Amines		4,4'-DDD	EPA 8081B
1,2-Diphenylhydrazine	EPA 8270E	4,4'-DDE	EPA 8081B
1-Naphthylamine	EPA 8270E	4,4'-DDT	EPA 8081B
2-Naphthylamine	EPA 8270E	Aldrin	EPA 8081B
3-Nitroaniline	EPA 8270E	alpha-BHC	EPA 8081B
4-Chloroaniline	EPA 8270E	alpha-Chlordane	EPA 8081B
4-Nitroaniline	EPA 8270E	beta-BHC	EPA 8081B
5-Nitro-o-toluidine	EPA 8270E	Chlordane Total	EPA 8081B
a,a-Dimethylphenethylamine	EPA 8270E	Chlorobenzilate	EPA 8270E
Aniline	EPA 8270E	delta-BHC	EPA 8081B
Carbazole	EPA 8270E	Dieldrin	EPA 8081B
Diphenylamine	EPA 8270E	Endosulfan I	EPA 8081B
Pronamide	EPA 8270E	Endosulfan II	EPA 8081B
Benzidines		Endosulfan sulfate	EPA 8081B
3,3'-Dichlorobenzidine	EPA 8270E	Endrin	EPA 8081B
3,3'-Dimethylbenzidine	EPA 8270E	Endrin aldehyde	EPA 8081B
Benzidine	EPA 8270E	Endrin Ketone	EPA 8081B
Characteristic Testing		gamma-Chlordane	EPA 8081B
Corrosivity (pH)	EPA 9045D	Heptachlor	EPA 8081B
Free Liquids	EPA 9095B	Heptachlor epoxide	EPA 8081B
Ignitability	EPA 1010A	Isodrin	EPA 8270E
Synthetic Precipitation Leaching Proc.	EPA 1312	Kepone	EPA 8270E
		Lindane	EPA 8081B

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Chlorinated Hydrocarbon Pesticides

Methoxychlor	EPA 8081B
Pentachloronitrobenzene	EPA 8270E
Toxaphene	EPA 8081B

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260D
1,2,4,5-Tetrachlorobenzene	EPA 8270E
1,2,4-Trichlorobenzene	EPA 8270E
2-Chloronaphthalene	EPA 8270E
Hexachlorobenzene	EPA 8270E
Hexachlorobutadiene	EPA 8270E
Hexachlorocyclopentadiene	EPA 8270E
Hexachloroethane	EPA 8260D
	EPA 8270E
Hexachlorophene	EPA 8270E
Hexachloropropene	EPA 8270E
Pentachlorobenzene	EPA 8270E

Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 8270E
4-Bromophenylphenyl ether	EPA 8270E
4-Chlorophenylphenyl ether	EPA 8270E
Bis(2-chloroethoxy)methane	EPA 8270E
Bis(2-chloroethyl)ether	EPA 8270E

Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthene Low Level	EPA 8270E SIM

Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthylene Low Level	EPA 8270E SIM
Anthracene Low Level	EPA 8270E SIM
Benzo(a)anthracene Low Level	EPA 8270E SIM
Benzo(a)pyrene Low Level	EPA 8270E SIM
Benzo(b)fluoranthene Low Level	EPA 8270E SIM
Benzo(g,h,i)perylene Low Level	EPA 8270E SIM
Benzo(k)fluoranthene Low Level	EPA 8270E SIM
Chrysene Low Level	EPA 8270E SIM
Dibenzo(a,h)anthracene Low Level	EPA 8270E SIM
Fluoranthene Low Level	EPA 8270E SIM
Fluorene Low Level	EPA 8270E SIM
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270E SIM
Naphthalene Low Level	EPA 8270E SIM
Phenanthrene Low Level	EPA 8270E SIM
Pyrene Low Level	EPA 8270E SIM

Metals I

Barium, Total	EPA 6010D
	EPA 6020B
Cadmium, Total	EPA 6010D
	EPA 6020B
Calcium, Total	EPA 6010D
	EPA 6020B
Chromium, Total	EPA 6010D
	EPA 6020B
Copper, Total	EPA 6010D

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Metals I

Copper, Total	EPA 6020B
Iron, Total	EPA 6010D EPA 6020B
Lead, Total	EPA 6010D EPA 6020B EPA 7000B
Magnesium, Total	EPA 6010D EPA 6020B
Manganese, Total	EPA 6010D EPA 6020B
Nickel, Total	EPA 6010D EPA 6020B
Potassium, Total	EPA 6010D EPA 6020B
Silver, Total	EPA 6010D EPA 6020B
Sodium, Total	EPA 6010D
Strontium, Total	EPA 6010D EPA 6020B

Metals II

Aluminum, Total	EPA 6010D EPA 6020B
Antimony, Total	EPA 6010D EPA 6020B
Arsenic, Total	EPA 6010D

Metals II

Arsenic, Total	EPA 6020B
Beryllium, Total	EPA 6010D EPA 6020B
Chromium VI	EPA 7196A
Lithium, Total	EPA 6010D
Mercury, Total	EPA 7471B
Selenium, Total	EPA 6010D EPA 6020B
Vanadium, Total	EPA 6010D EPA 6020B
Zinc, Total	EPA 6010D EPA 6020B

Metals III

Cobalt, Total	EPA 6010D EPA 6020B
Molybdenum, Total	EPA 6010D EPA 6020B
Thallium, Total	EPA 6010D EPA 6020B
Tin, Total	EPA 6010D EPA 6020B
Titanium, Total	EPA 6010D EPA 6020B

Minerals

Bromide	EPA 9056A

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Minerals		Nitrosoamines	
Chloride	EPA 9056A	N-Nitrosodiphenylamine	EPA 8270E
Fluoride, Total	EPA 9056A	N-nitrosomethylethylamine	EPA 8270E
Sulfate (as SO ₄)	EPA 9056A	N-nitrosomorpholine	EPA 8270E
Miscellaneous		N-Nitrosopyrrolidine	EPA 8270E
Boron, Total	EPA 6010D	Nutrients	
	EPA 6020B		
Cyanide, Total	EPA 9014		
Phenols	EPA 9065	Nitrate (as N)	EPA 9056A
Sulfide (as S)	EPA 9034	Nitrite (as N)	EPA 9056A
Nitroaromatics and Isophorone		Orthophosphate (as P)	EPA 9056A
1,3,5-Trinitrobenzene	EPA 8270E	Petroleum Hydrocarbons	
1,3-Dinitrobenzene	EPA 8270E	Diesel Range Organics	EPA 8015D
1,4-Naphthoquinone	EPA 8270E	Gasoline Range Organics	EPA 8015D
2,4-Dinitrotoluene	EPA 8270E	Oil and Grease Total Recoverable (HEM)	EPA 9071B (Solvent:Hexane)
2,6-Dinitrotoluene	EPA 8270E	Phthalate Esters	
4-Nitroquinoline-1-oxide	EPA 8270E	Benzyl butyl phthalate	EPA 8270E
Isophorone	EPA 8270E	Bis(2-ethylhexyl) phthalate	EPA 8270E
Nitrobenzene	EPA 8260D	Diethyl phthalate	EPA 8270E
	EPA 8270E	Dimethyl phthalate	EPA 8270E
Nitrosoamines		Di-n-butyl phthalate	EPA 8270E
N-Nitrosodiethylamine	EPA 8270E	Di-n-octyl phthalate	EPA 8270E
N-Nitrosodimethylamine	EPA 8270E	Polychlorinated Biphenyls	
N-Nitrosodi-n-butylamine	EPA 8270E	Aroclor 1016 (PCB-1016)	EPA 8082A
N-Nitrosodi-n-propylamine	EPA 8270E	Aroclor 1221 (PCB-1221)	EPA 8082A
		Aroclor 1232 (PCB-1232)	EPA 8082A
		Aroclor 1242 (PCB-1242)	EPA 8082A

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Polychlorinated Biphenyls

Aroclor 1248 (PCB-1248)	EPA 8082A
Aroclor 1254 (PCB-1254)	EPA 8082A
Aroclor 1260 (PCB-1260)	EPA 8082A
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A
PCB 1	EPA 8082A
PCB 101	EPA 8082A
PCB 110	EPA 8082A
PCB 138	EPA 8082A
PCB 141	EPA 8082A
PCB 151	EPA 8082A
PCB 153	EPA 8082A
PCB 170	EPA 8082A
PCB 18	EPA 8082A
PCB 180	EPA 8082A
PCB 183	EPA 8082A
PCB 187	EPA 8082A
PCB 206	EPA 8082A
PCB 31	EPA 8082A
PCB 44	EPA 8082A
PCB 5	EPA 8082A
PCB 52	EPA 8082A
PCB 66	EPA 8082A
PCB 87	EPA 8082A

Polynuclear Aromatic Hydrocarbons

2-Acetylaminofluorene	EPA 8270E
Acenaphthene	EPA 8270E
Acenaphthylene	EPA 8270E
Anthracene	EPA 8270E
Benzo(a)anthracene	EPA 8270E
Benzo(a)pyrene	EPA 8270E
Benzo(b)fluoranthene	EPA 8270E
Benzo(g,h,i)perylene	EPA 8270E
Benzo(k)fluoranthene	EPA 8270E
Chrysene	EPA 8270E
Dibenzo(a,h)anthracene	EPA 8270E
Fluoranthene	EPA 8270E
Fluorene	EPA 8270E
Indeno(1,2,3-cd)pyrene	EPA 8270E
Naphthalene	EPA 8270E
Phenanthrene	EPA 8270E
Pyrene	EPA 8270E

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270E
2,4,5-Trichlorophenol	EPA 8270E
2,4,6-Trichlorophenol	EPA 8270E
2,4-Dichlorophenol	EPA 8270E
2,4-Dimethylphenol	EPA 8270E
2,4-Dinitrophenol	EPA 8270E
2,6-Dichlorophenol	EPA 8270E

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WADSWORTH CENTER



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All approved analytes are listed below:*

Priority Pollutant Phenols

2-Chlorophenol	EPA 8270E
2-Methyl-4,6-dinitrophenol	EPA 8270E
2-Methylphenol	EPA 8270E
2-Nitrophenol	EPA 8270E
3-Methylphenol	EPA 8270E
4-Chloro-3-methylphenol	EPA 8270E
4-Methylphenol	EPA 8270E
4-Nitrophenol	EPA 8270E
Pentachlorophenol	EPA 8270E
Phenol	EPA 8270E

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270E
1,2-Dichlorobenzene, Semi-volatile	EPA 8270E
1,3-Dichlorobenzene, Semi-volatile	EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270E
2-Methylnaphthalene	EPA 8270E
2-Picoline	EPA 8270E
4-Amino biphenyl	EPA 8270E
Acetophenone	EPA 8270E
Aramite	EPA 8270E
Benzaldehyde	EPA 8270E
Benzoic Acid	EPA 8270E
Benzyl alcohol	EPA 8270E
Caprolactam	EPA 8270E
Dibenzofuran	EPA 8270E

Semi-Volatile Organics

Ethyl methanesulfonate	EPA 8270E
Methyl methanesulfonate	EPA 8270E
Phenacetin	EPA 8270E
Safrole	EPA 8270E

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260D
1,2,4-Trimethylbenzene	EPA 8260D
1,2-Dichlorobenzene	EPA 8260D
1,3,5-Trimethylbenzene	EPA 8260D
1,3-Dichlorobenzene	EPA 8260D
1,4-Dichlorobenzene	EPA 8260D
2-Chlorotoluene	EPA 8260D
4-Chlorotoluene	EPA 8260D
Benzene	EPA 8260D
Bromobenzene	EPA 8260D
Chlorobenzene	EPA 8260D
Ethyl benzene	EPA 8260D
Isopropylbenzene	EPA 8260D
m/p-Xylenes	EPA 8260D
Naphthalene, Volatile	EPA 8260D
n-Butylbenzene	EPA 8260D
n-Propylbenzene	EPA 8260D
o-Xylene	EPA 8260D
p-Isopropyltoluene (P-Cymene)	EPA 8260D
sec-Butylbenzene	EPA 8260D

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Volatile Aromatics

Styrene	EPA 8260D
tert-Butylbenzene	EPA 8260D
Toluene	EPA 8260D
Total Xylenes	EPA 8260D

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260D
1,1,1-Trichloroethane	EPA 8260D
1,1,2,2-Tetrachloroethane	EPA 8260D
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260D
1,1,2-Trichloroethane	EPA 8260D
1,1-Dichloroethane	EPA 8260D
1,1-Dichloroethene	EPA 8260D
1,1-Dichloropropene	EPA 8260D
1,2,3-Trichloropropane	EPA 8260D
1,2-Dibromo-3-chloropropane	EPA 8260D
1,2-Dibromoethane	EPA 8260D
1,2-Dichloroethane	EPA 8260D
1,2-Dichloropropane	EPA 8260D
1,3-Dichloropropane	EPA 8260D
2,2-Dichloropropane	EPA 8260D
2-Chloroethylvinyl ether	EPA 8260D
Bromochloromethane	EPA 8260D
Bromodichloromethane	EPA 8260D
Bromoform	EPA 8260D
Bromomethane	EPA 8260D

Volatile Halocarbons

Carbon tetrachloride	EPA 8260D
Chloroethane	EPA 8260D
Chloroform	EPA 8260D
Chloromethane	EPA 8260D
cis-1,2-Dichloroethene	EPA 8260D
cis-1,3-Dichloropropene	EPA 8260D
Dibromochloromethane	EPA 8260D
Dibromomethane	EPA 8260D
Dichlorodifluoromethane	EPA 8260D
Hexachlorobutadiene, Volatile	EPA 8260D
Methyl iodide	EPA 8260D
Methylene chloride	EPA 8260D
Tetrachloroethene	EPA 8260D
trans-1,2-Dichloroethene	EPA 8260D
trans-1,3-Dichloropropene	EPA 8260D
trans-1,4-Dichloro-2-butene	EPA 8260D
Trichloroethene	EPA 8260D
Trichlorofluoromethane	EPA 8260D
Vinyl chloride	EPA 8260D

Volatile Organics

2-Butanone (Methylethyl ketone)	EPA 8260D
2-Hexanone	EPA 8260D
4-Methyl-2-Pentanone	EPA 8260D
Acetone	EPA 8260D
Acetonitrile	EPA 8260D

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All approved analytes are listed below:*

Volatile Organics

Carbon Disulfide	EPA 8260D
Ethylene Glycol	EPA 8015C
Methyl acetate	EPA 8260D
Methyl tert-butyl ether	EPA 8260D
o-Toluidine	EPA 8270E
tert-butyl alcohol	EPA 8260D
Vinyl acetate	EPA 8260D



Sample Preparation Methods

EPA 5035A-L
EPA 5035A-H
EPA 9030B
EPA 3010A
EPA 3005A
EPA 3050B
EPA 3550C
EPA 3540C
EPA 3546
EPA 3051A
EPA 3585
EPA 3060A
EPA 3541
EPA 9010C

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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 6010C EPA 7000B

Sample Preparation Methods

EPA 3050B
EPA 3051A

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All approved analytes are listed below:*

Acrylates

Acetonitrile	EPA TO-15
Acrylonitrile	EPA TO-15
Ethyl acrylate	EPA TO-15
Methyl methacrylate	EPA TO-15

Chlorinated Hydrocarbons

Hexachlorobutadiene	EPA TO-15
Hexachloroethane	EPA TO-15

Miscellaneous

Formaldehyde	EPA TO-15
Radon	Charcoal - Liquid Scintillation

Polychlorinated Biphenyls

PCBs and Aroclors	EPA TO-10A EPA TO-4A

Polynuclear Aromatics

Naphthalene	EPA TO-15

Priority Pollutant Phenols

Phenol	EPA TO-15

Purgeable Aromatics

1,2,4-Trimethylbenzene	EPA TO-15
1,2-Dichlorobenzene	EPA TO-15
1,3,5-Trimethylbenzene	EPA TO-15
1,3-Dichlorobenzene	EPA TO-15
1,4-Dichlorobenzene	EPA TO-15

Purgeable Aromatics

2-Chlorotoluene	EPA TO-15
Benzene	EPA TO-15
Chlorobenzene	EPA TO-15
Ethyl benzene	EPA TO-15
Isopropylbenzene	EPA TO-15
m/p-Xylenes	EPA TO-15
o-Xylene	EPA TO-15
Styrene	EPA TO-15
Toluene	EPA TO-15
Total Xylenes	EPA TO-15

Purgeable Halocarbons

1,1,1-Trichloroethane	EPA TO-15
1,1,2,2-Tetrachloroethane	EPA TO-15
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA TO-15
1,1,2-Trichloroethane	EPA TO-15
1,1-Dichloroethane	EPA TO-15
1,1-Dichloroethene	EPA TO-15
1,2-Dibromo-3-chloropropane	EPA TO-15
1,2-Dibromoethane	EPA TO-15
1,2-Dichloroethane	EPA TO-15
1,2-Dichloropropane	EPA TO-15
3-Chloropropene (Allyl chloride)	EPA TO-15
Bromodichloromethane	EPA TO-15
Bromoform	EPA TO-15
Bromomethane	EPA TO-15

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CINNAMINSON, NJ 08077

NY Lab Id No: 10872

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ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:

Purgeable Halocarbons

Carbon tetrachloride	EPA TO-15
Chloroethane	EPA TO-15
Chloroform	EPA TO-15
Chloromethane	EPA TO-15
cis-1,2-Dichloroethene	EPA TO-15
cis-1,3-Dichloropropene	EPA TO-15
Dibromochloromethane	EPA TO-15
Dichlorodifluoromethane	EPA TO-15
Methylene chloride	EPA TO-15
Tetrachloroethene	EPA TO-15
trans-1,2-Dichloroethene	EPA TO-15
trans-1,3-Dichloropropene	EPA TO-15
Trichloroethene	EPA TO-15
Trichlorofluoromethane	EPA TO-15
Vinyl bromide	EPA TO-15
Vinyl chloride	EPA TO-15

Volatile Organics

4-Methyl-2-Pentanone	EPA TO-15
Acetaldehyde	EPA TO-15
Acetone	EPA TO-15
Acrolein (Propenal)	EPA TO-15
Carbon Disulfide	EPA TO-15
Cyclohexane	EPA TO-15
Hexane	EPA TO-15
Isopropanol	EPA TO-15
Methanol	EPA TO-15
Methyl iodide	EPA TO-15
Methyl tert-butyl ether	EPA TO-15
n-Heptane	EPA TO-15
Nitrobenzene	EPA TO-15
Propionaldehyde	EPA TO-15
tert-butyl alcohol	EPA TO-15
Vinyl acetate	EPA TO-15

Volatile Chlorinated Organics

Benzyl chloride	EPA TO-15
Epichlorohydrin	EPA TO-15

Volatile Organics

1,2-Dichlorotetrafluoroethane	EPA TO-15
1,3-Butadiene	EPA TO-15
1,4-Dioxane	EPA TO-15
2,2,4-Trimethylpentane	EPA TO-15
2-Butanone (Methylethyl ketone)	EPA TO-15

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Chlorinated Hydrocarbon Pesticides

Chlordane Total NIOSH 5510

Metals I

Lead, Total NIOSH 7082
40 CFR PART 50 2013 APP G

Metals II

Mercury, Total NIOSH 6009

Miscellaneous

Asbestos 40 CFR 763 APX A No. III
YAMATE, AGARWAL GIBB
NIOSH 7402
Fibers NIOSH 7400 A RULES
Particulate Matter 40 CFR PART 50 APP B
40 CFR PART 50 APP J (PM10)

Polychlorinated Biphenyls

PCBs and Aroclors NIOSH 5503

Purgeable Aromatics

Benzene NIOSH 1501
Toluene NIOSH 1501
Total Xylenes NIOSH 1501

Sample Preparation Methods

40 CFR PART 50 APP G

Serial No.: 62820

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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

LiRo Engineers, Inc.
690 Delaware Avenue
Buffalo, NY 14209

FILE NUMBER: 99-1147
LICENSE NUMBER: 28866
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 12/22/2020
EXPIRATION DATE: 12/31/2021

Duly Authorized Representative – Robert Kreuzer:

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

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



JOHN F SEWARD III

CLASS(EXPIRES)

C ATEC(02/22) D INSP(02/22)

H PM (02/22)

CERT# 15-20772

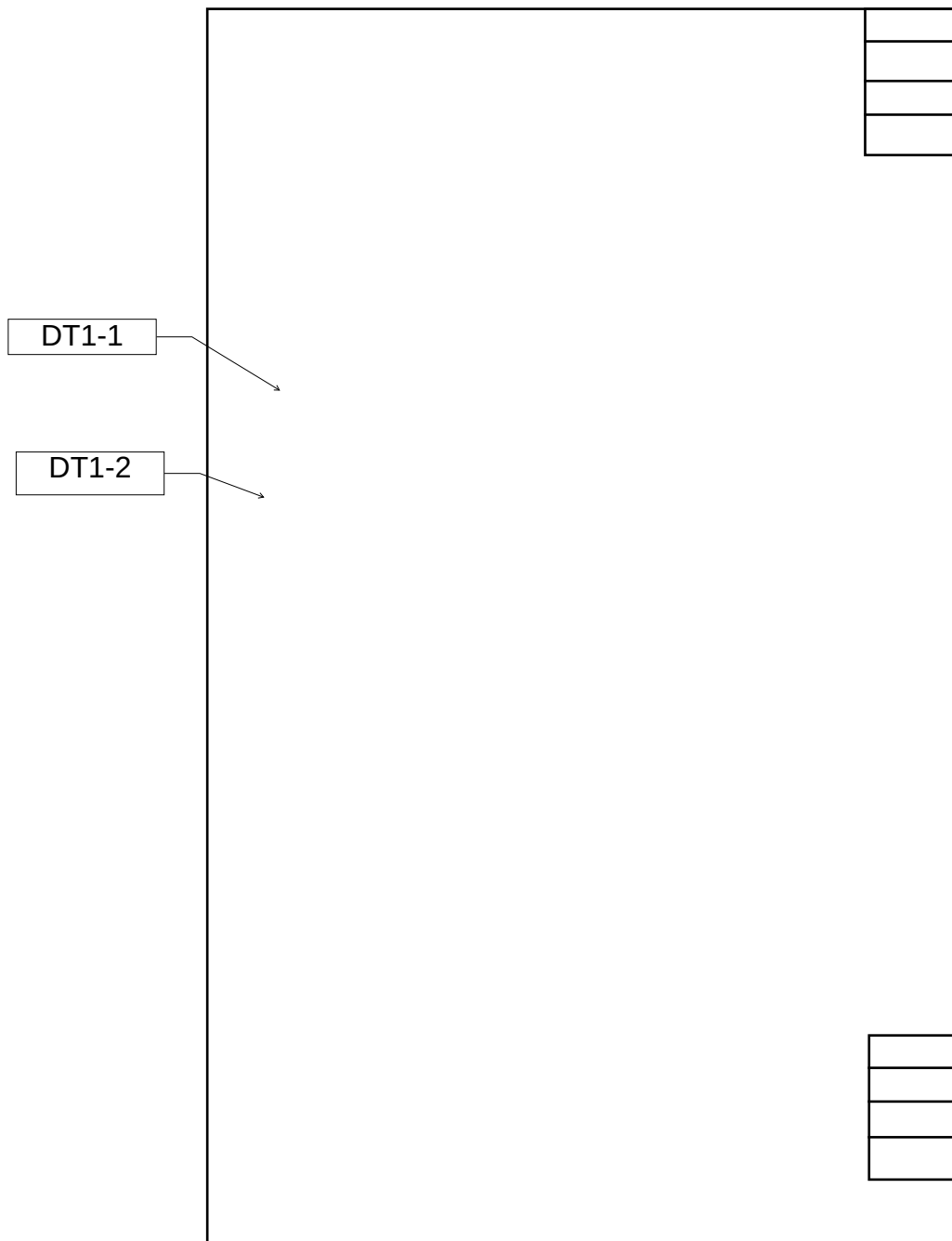
DMV# 323384175

MUST BE CARRIED ON ASBESTOS PROJECTS



APPENDIX D:
BULK SAMPLE LOCATION DRAWINGS

SAMPLE LOCATION DRAWING- 46 CANAL STREET- BASEMENT

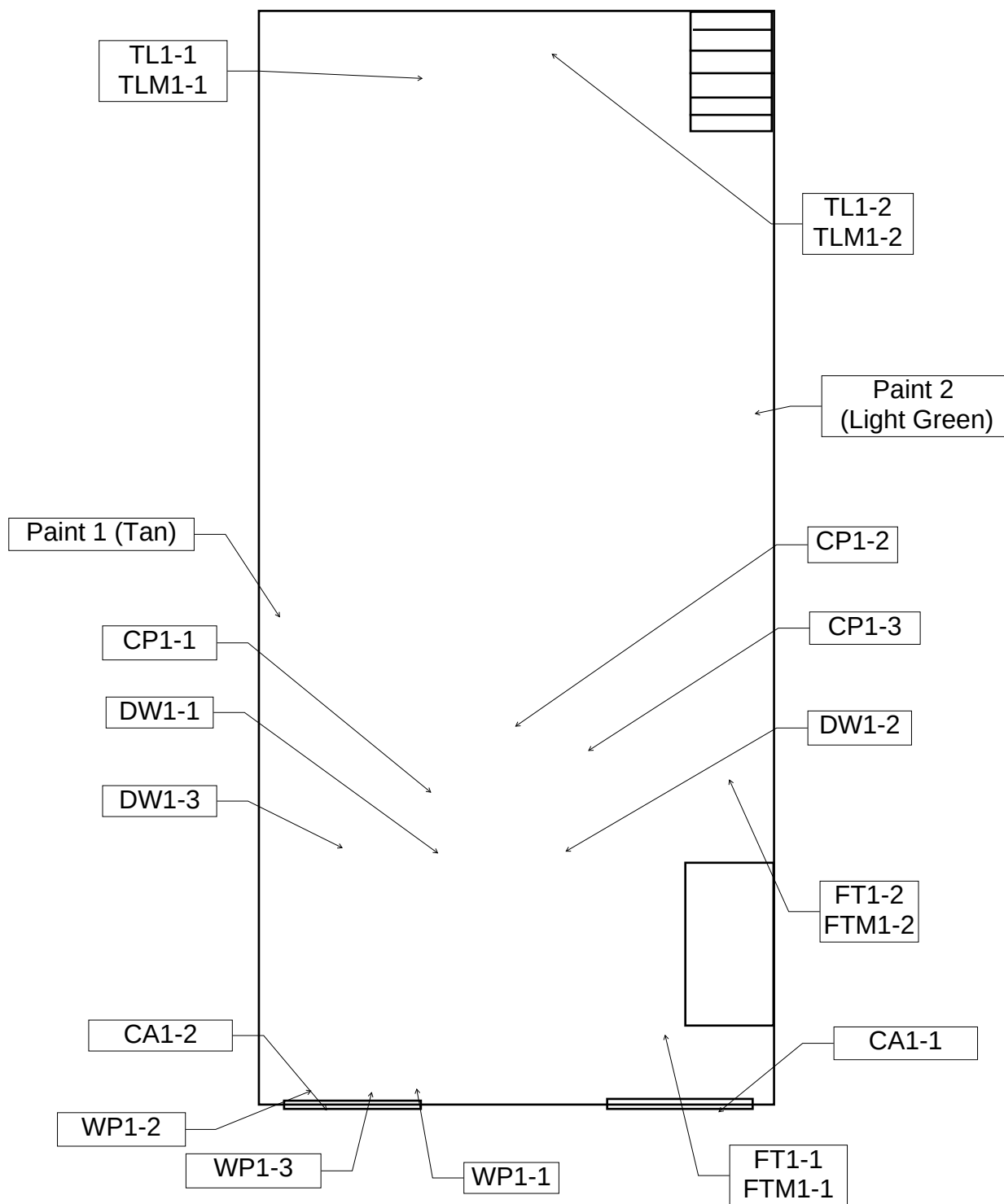


LEGEND

RED- Indicates Positive Sample

BLACK- Indicates Negative Sample

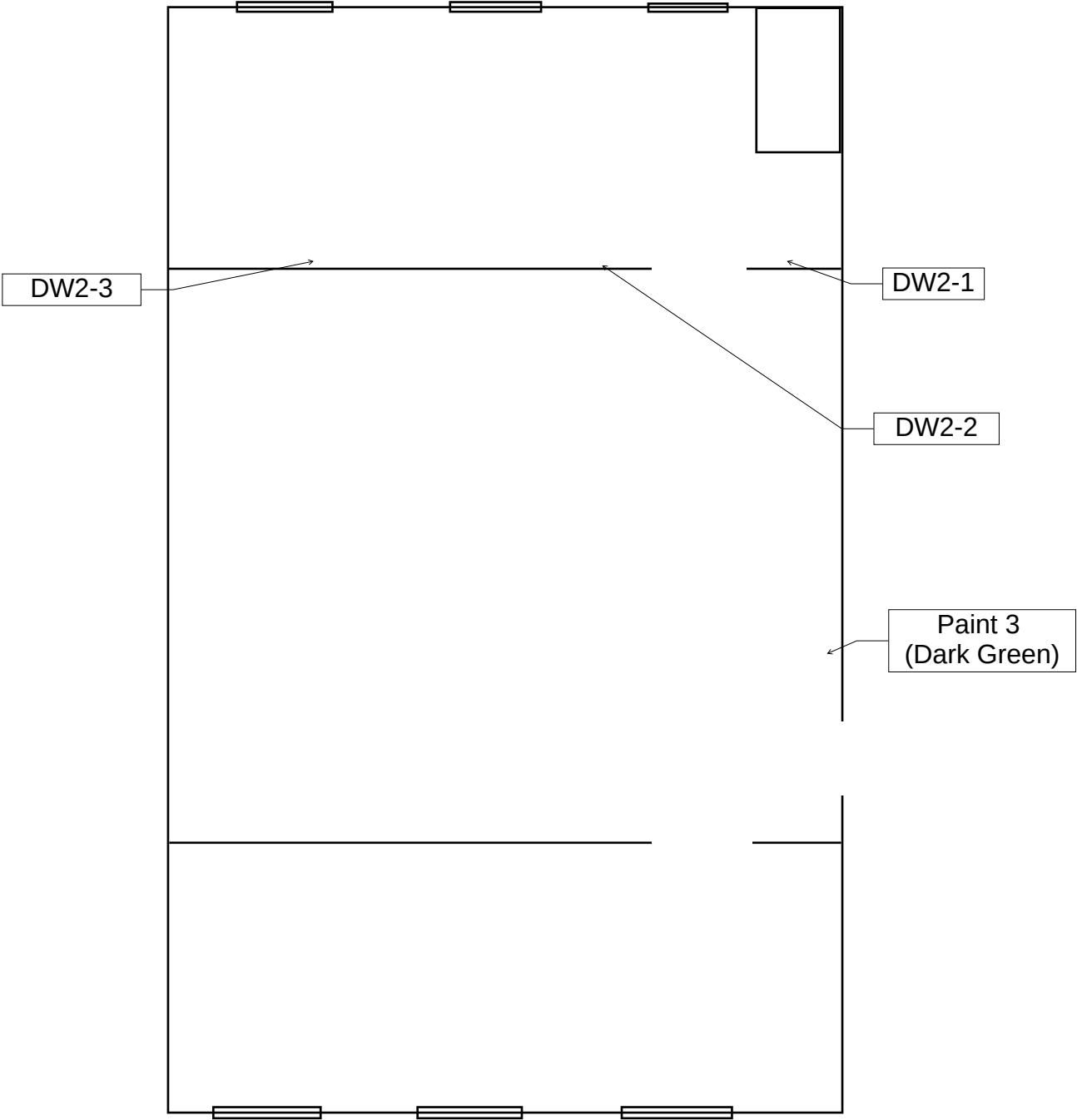
SAMPLE LOCATION DRAWING- 46 CANAL STREET, 1st FLOOR



LEGEND

RED- Indicates Positive Sample
BLACK- Indicates Negative Sample

SAMPLE LOCATION DRAWING-46 CANAL STREET- 2nd FLOOR



LEGEND

RED- Indicates Positive Sample

BLACK- Indicates Negative Sample

**ACM and Hazardous Materials
Inspection Report
For
46 Canal Street
Lyons, New York 14489**

**Prepared For:
Wayne County Regional Land Bank
16 William Street
Lyons, NY 14489**

Prepared By:



**690 Delaware Avenue
Buffalo, NY 14209**

August 18th, 2021

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Appendices

Appendix A: Sample Analysis Results in Tabular Form

Appendix B: Bulk Sample Chain of Custodies & Laboratory Results

Appendix C: Certifications and Accreditations

Appendix D: Bulk Sample Location Drawings

1.0 EXECUTIVE SUMMARY

At the request of the Wayne County Regional Land Bank, LiRo Engineers, Inc. (LiRo) has performed an inspection for the presence or absence of Asbestos Containing Material (ACM), Lead Based Paint (LBP) and Polychlorinated Biphenyls (PCBs) at 46 Canal Street, Lyons NY 14489.

1.1 Asbestos Containing Materials (ACM):

LiRo investigated suspect materials which are anticipated to be impacted during the planned demolition. Identified suspect materials include the following:

- Wall Plaster, Gray
- Wall Plaster, White
- Drywall, White
- Duct Tape /Sealant, Gray
- 9x9" Floor Tile, Tan
- Mastic associated with Tan 9x9" FT, Yellow
- Tiled Linoleum
- Mastic associated with Linoleum, Yellow
- Ceiling Plaster, Gray
- Exterior Window Caulk, Off-White

The following material has been identified as **ACM** (greater than 1%):

- **Assumed Roofing, Felt Paper and Tar, 2,600 SF, Intact, Non-Friable**

1.2 Lead Based Paint (LBP)

LiRo performed limited paint chip sampling of painted surfaces to evaluate the likelihood of encountering lead-based paint (LBP) and creating a lead dust hazard during construction activities. A comprehensive inspection as established by Department of Housing and Urban Development (HUD) Guidelines was not conducted, however, representative surfaces/components were tested in a manner designed to adequately represent the different components, substrates, types of paint, construction and paint history. Federal guidelines characterize paint to be lead based if it contains greater than 1.0 mg/cm² lead by surface area or greater than 0.5% lead by weight (5,000 mg/Kg). A full list of sampled coatings is provided in Section 3.2 of this report.

The following coatings have been determined to be **lead-based paint**:

- **Tan Paint on the walls throughout the 1st Floor.**
- **Dark Green Paint on walls throughout 2nd Floor.**

Additionally, lead was determined to be present in concentrations below the threshold for characterization as lead-based paint in the below listed coatings:

- Light Green Paint on West Wall on 1st Floor.

Precautions should be taken by personnel disturbing any painted surfaces to ensure that workers are not exposed to lead in excess of the permissible exposure limit. All work shall be performed in accordance with applicable federal, state and local requirements including OSHA 29 CFR 1926.62 (the OSHA lead in construction standard). At minimum, all generated paint dust, chips and other debris shall require cleaning utilizing wet methods.

1.3 Polychlorinated Biphenyls (PCBs)

Polychlorinated biphenyls (PCBs) were frequently used in the production of caulks used during building construction, renovation and repair activities from the 1950s through 1978. The United States Environmental Protection Agency (EPA) regulates caulk containing PCBs at concentrations greater than or equal to 50 parts per million (ppm) as PCB bulk product waste. PCB bulk product wastes require disposal in accordance with 40 CFR 761.62.

No samples analyzed were found to be PCB Bulk product waste.

2.0 FIELD SURVEY PROCEDURES AND SAMPLE ANALYSIS METHODS

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

Field information was organized in accordance with the AHERA methodology of homogenous area (HA). During the survey, reasonable effort was made to identify all locations and types of ACM materials associated with the scope of work. Sampling has included multiple samples of the same materials chosen at random. However, due to inconsistencies of a manufacturer's processes and the contractor's installation methods, materials of similar construction may contain various amounts of asbestos. Furthermore, some materials that were not originally specified to contain asbestos may in fact contain this mineral.

Bulk samples of suspect ACM were analyzed using polarized light microscopy (PLM) coupled with dispersion staining, as described in 40 CFR Part 763 and the National Emissions Standard for Hazardous Air Pollutants (NESHAPS). NESHAPS is the standard industry protocol for the determination of asbestos in building materials. A suspect material is immersed in a solution of known refractive index and subjected to illumination by polarized light. The color displays that result are compared to a standardized atlas whereby the specific variety of asbestos is determined. It should also be recognized that PLM is primarily a qualitative identification method whereby asbestos percentage, if any, is estimated. While EPA and New York State regulations governing ACM consider materials containing greater than 1-percent as asbestos, accurately quantifying asbestos content below 5-percent has been shown to be unreliable.

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

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

Bulk asbestos samples collected were initially analyzed by Polarized Light Microscopy. Samples which yielded a negative PLM result and which are classified as a "non-friable" material were then re-analyzed utilizing Transmission Electron Microscopy methodology described above. The laboratories performing the analysis procedures was EMSL Analytical, Inc. (EMSL) located at 490 Rowley Road, Depew, New York, 14043. EMSL is accredited with the following agencies:

- New York State Environmental Laboratory Approval Program (ELAP) Lab No. 11606
- National Voluntary Laboratory Accreditation Program (NVLAP) Lab Code 200056-0

All Lead Paint and PCB samples were analyzed by EMSL Analytical, Inc. located at 200 Route 130 North, Cinnaminson, NJ 08077.

3.0 INSPECTION SCOPE AND RESULTS

3.1 Asbestos Containing Materials (ACM):

At the request of the Wayne County Regional Land Bank, LiRo Engineers, Inc. (LiRo) has performed an inspection for the presence or absence of Asbestos Containing Material (ACM) at 46 Canal Street, Lyons, NY 14489. NYSDOL Certified Inspector John Seward (#15-20772) of LiRo performed asbestos bulk sampling on August 13, 2021.

LiRo investigated for suspect materials which are anticipated to be impacted during planned demolition activities. Identified suspect materials include the following:

- Wall Plaster, Gray
- Wall Plaster, White
- Drywall, White
- Duct Tape /Sealant, Gray
- 9x9" Floor Tile, Tan
- Mastic associated with Tan 9x9" FT, Yellow
- Tiled Linoleum
- Mastic associated with Linoleum, Yellow
- Ceiling Plaster, Gray
- Exterior Window Caulk, Off-White

The following material has been identified as **ACM** (greater than 1%):

- **Assumed Roofing, Felt Paper and Tar, 2,600 SF, Intact, Non-Friable**

A summary of analytical results for all bulk asbestos samples collected is included in Appendix A of this report. Asbestos bulk sampling laboratory report forms are included in Appendix B. Certifications for inspection personnel and the analytical laboratory are provided in Appendix C. Bulk sample location drawings are provided in Appendix D. A photographic log is located in Appendix E.

3.2 Lead Based Paint (LBP)

A comprehensive lead paint inspection (as established by Department of Housing and Urban Development Guidelines) was not conducted, however LiRo performed limited paint chip sampling of painted surfaces throughout sections of the facility impacted by the planned construction scope to evaluate the likelihood of creating a lead dust hazard during construction activities. Federal guidelines characterize paint to be lead based if it contains greater than 1.0 mg/cm² lead by surface area or greater than 0.5% lead by weight (5,000 mg/Kg).

ACM and HAZ Inspection Report

A summary of LBP sampling results is included in the table below. Laboratory reports of the paint chip analysis are provided in Appendix B. Sample locations are shown on the Drawings included as Appendix D of this report.

<u>Lead Paint Analytical Results Summary</u>				
<u>Sample ID</u>	<u>Sample Location</u>	<u>Description of Material</u>	<u>Substrate</u>	<u>Lead Concentration (%)</u>
LBP-1	1st Floor, East Wall	Tan Paint	Plaster	0.65
LBP-2	1 st Floor, West Wall	Light Green Paint	Plaster	0.049
LBP-3	2nd Floor, West Wall	Dark Green Paint	Plaster	0.82

3.3 Polychlorinated Biphenyls (PCBs)

Caulking expected to be impacted by the construction scope were sampled for PCBs. A summary of the PCB sampling results is included the table provided below. PCB sampling laboratory report forms are included in Appendix B. Sample locations are shown on the Drawings included as Appendix D of this report.

<u>PCB in Building Material Analysis Summary</u>			
<u>Sample ID</u>	<u>Location</u>	<u>Material</u>	<u>PCB Concentration (ppm)</u>
CA-1, 2, 3	Exterior Window Entry Door	White Window Caulk	Aroclor-1016 – ND Aroclor-1221 – ND Aroclor 1232 – ND Aroclor 1242 – ND Aroclor-1248 – ND Aroclor-1254 – ND Aroclor-1260 – ND Aroclor-1262 – ND Aroclor-1268 – ND

Notes:

- ppm: parts per million
- ND: Not Detected

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Asbestos Containing Materials (ACM):

LiRo has performed an inspection for the presence or absence of ACM in support of the demolition project located at 46 Canal Street, Lyons, NY 14489. All ACM shall require removal and disposal in accordance with all applicable federal, state and local regulations including 12NYCRR Part 56 (NYS DOL Asbestos), 40 CFR Part 61 (EPA National Emission Standard for Air Pollutants), 29 CFR Part 1910 (OSHA Asbestos), and OSHA Part 1926 (OSHA Construction).

LiRo investigated for suspect materials which are anticipated to be impacted during planned demolition activities. Identified suspect materials include the following:

- Wall Plaster, Gray
- Wall Plaster, White
- Drywall, White
- Duct Tape /Sealant, Gray
- 9x9" Floor Tile, Tan
- Mastic associated with Tan 9x9" FT, Yellow
- Tiled Linoleum
- Mastic associated with Linoleum, Yellow
- Ceiling Plaster, Gray
- Exterior Window Caulk, Off-White

The following material has been identified as **ACM** (greater than 1%):

- **Assumed Roofing, Felt Paper and Tar, 2,600 SF, Intact, Non-Friable**

4.2 Lead Based Paint (LBP)

LiRo performed limited paint chip sampling of painted surfaces to evaluate the likelihood of encountering lead-based paint (LBP) and creating a lead dust hazard during construction activities. A comprehensive inspection as established by Department of Housing and Urban Development (HUD) Guidelines was not conducted, however, representative surfaces/components were tested in a manner designed to adequately represent the different components, substrates, types of paint, construction and paint history. Federal guidelines characterize paint to be lead-based if it contains greater than 1.0 mg/cm² lead by surface area or greater than 0.5% lead by weight (5,000 mg/Kg).

Based on the investigation by LiRo, the following coatings have been determined to be lead-based paint:

- **Tan Paint on the walls throughout the 1st Floor.**
Dark Green Paint on walls throughout 2nd Floor.

Additionally, lead was determined to be present in concentrations below the threshold for characterization as lead-based paint in additional test coatings.

- Light Green Paint on West Wall on 1st Floor.

Precautions should be taken by personnel disturbing any painted surfaces to ensure that workers are not exposed to lead in excess of the permissible exposure limit. All work shall be performed in accordance with applicable federal, state and local requirements including OSHA 29 CFR 1926.62 (the OSHA lead in construction standard). At minimum all generated paint dust, chips and other debris shall require cleaning utilizing wet methods.

4.3 Polychlorinated Biphenyls (PCBs)

Polychlorinated biphenyls (PCBs) were frequently used in the production of caulks used during building construction, renovation and repair activities from the 1950s through 1978. The United States Environmental Protection Agency (EPA) regulates caulk containing PCBs at concentrations greater than or equal to 50 parts per million (ppm) as PCB bulk product waste. PCB bulk product wastes require disposal in accordance with 40 CFR 761.62.

No samples analyzed were found to be PCB Bulk product waste.

APPENDIX A:
SAMPLE ANALYSIS RESULTS IN TABULAR FORM

APPENDIX A
SAMPLE ANALYSIS RESULTS IN TABULAR FORM
46 Canal Street
Lyons, New York 14489

Sample No.	HA	Location	Material	Quantity	Results	Friable (Y/N)	Condition
FT1-1	FT	1 st Floor	Tan 9x9” Floor Tile	N/A	NAD	N	I
FT1-2		1 st Floor			NAD		
FTM1-1	FTM	1 st Floor	Yellow Mastic (Tan 9x9”)	N/A	Trace	N	I
FTM1-2		1 st Floor			NA		
DW1-1	DW	1 st Floor	Gray Drywall	N/A	NAD	Y	I
DW1-2		1 st Floor			NAD		
DW1-3		1 st Floor			NAD		
PL1-1	PL	1 st Floor	Gray Wall Plaster	N/A	NAD	Y	I
PL1-2		1 st Floor			NAD		
PL1-3		1 st Floor			NAD		
DT1-1	DT	Basement	Gray Duct Tape	N/A	NAD	N	I
DT1-2		Basement			NAD		
WP1-1	WP	1 st Floor	White Wall Plaster	N/A	NAD	Y	I
WP1-2		1 st Floor			NAD		
WP1-3		1 st Floor			NAD		
TL1-1	TL	1 st Floor	Tiled Linoleum	N/A	NAD	N	SD
TL1-2		1 st Floor			NAD		

Bold – Indicates that material is Asbestos Containing (>1% Asbestos)

***Indicates that material is ACM contaminated due to association with ACM**

NAD – No Asbestos Detected

NA – Not Analyzed

NA/PS – Not Analyzed/Positive Stop

HA – Homogeneous Area

I – Intact (little or no damage)

D – Damaged (≤25% local or ≤10% distributed)

SD – Significantly Damaged (≥25% local or ≥10% distributed)

N/A – Not Applicable

APPENDIX A
SAMPLE ANALYSIS RESULTS IN TABULAR FORM
46 Canal Street
Lyons, New York 14489

Sample No.	HA	Location	Material	Quantity	Results	Friable (Y/N)	Condition
TLM1-1	TLM	1 st Floor	Yellow Mastic (Tiled Linoleum)	N/A	NAD	N	I
TLM1-2		1 st Floor			NAD		
DW2-1	DW	2 nd Floor	White Drywall	N/A	NAD	Y	I
DW2-2		2 nd Floor			NAD		
DW2-3		2 nd Floor			NAD		
CP1-1	CP	1 st Floor	Gray Ceiling Plaster	N/A	NAD	Y	SD
CP1-2		1 st Floor			NAD		
CP1-3		1 st Floor			NAD		
CA1-1	CA	Exterior- Front Entry	White Window Caulk	N/A	NAD	N	I
CA1-2		Exterior- Front Entry			NAD		

Bold – Indicates that material is Asbestos Containing (>1% Asbestos)
***Indicates that material is ACM contaminated due to association with ACM**
NAD – No Asbestos Detected
NA – Not Analyzed
NA/PS – Not Analyzed/Positive Stop

HA – Homogeneous Area
I – Intact (little or no damage)
D – Damaged ($\leq 25\%$ local or $\leq 10\%$ distributed)
SD – Significantly Damaged ($\geq 25\%$ local or $\geq 10\%$ distributed)
N/A – Not Applicable

APPENDIX B:
BULK SAMPLE CHAIN OF CUSTODY
AND LABORATORY RESULTS



EMSL Analytical, Inc.

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<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 532101424

Customer ID: LIRO50

Customer PO: 19-241-2291

Project ID:

Attention: Jason Colvin
The LiRo Group
690 Delaware Avenue
Buffalo, NY 14209

Phone: (716) 882-5476

Fax: (716) 882-9640

Received Date: 08/13/2021 2:30 PM

Analysis Date: 08/17/2021

Collected Date:

Project: 19-241-2291. Wayne County Regional Land Bank. Lyons, NY. 46 Canal St.

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID FT1-1 532101424-0001		Description 1st Floor - Tan 9x9 Floor Tile Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/17/2021	Tan		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/17/2021	Tan		100.00% Other	None Detected
Sample ID FT1-2 532101424-0002		Description 1st Floor - Tan 9x9 Floor Tile Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/17/2021	Tan		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/17/2021	Tan		100.00% Other	None Detected
Sample ID FTM-1 532101424-0003		Description 1st Floor - Yellow Mastic (9x9 FT) Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/17/2021	Yellow		100.00% Other	Inconclusive: None Detected
Sample below method recommended minimum weight; analyzed at client's request.					
TEM NYS 198.4 NOB	08/17/2021	Yellow	None	100.00% Other	<1% Chrysotile
Sample ID FTM-2 532101424-0004		Description 1st Floor - Yellow Mastic (9x9 FT) Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/17/2021				Insufficient Material
TEM NYS 198.4 NOB	08/17/2021				Insufficient Material
Sample ID DW1-1 532101424-0005		Description 1st Floor - Gray Drywall Homogeneity Heterogeneous			
PLM NYS 198.1 Friable	08/17/2021	Brown/ White	12.00% Cellulose	85.00% Gypsum 3.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

Initial report from: 08/17/2021 13:57:21



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<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 532101424

Customer ID: LIRO50

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID DW1-2 532101424-0006			Description 1st Floor - Gray Drywall Homogeneity Heterogeneous		
PLM NYS 198.1 Friable	08/17/2021	Brown/ White	12.00% Cellulose	85.00% Gypsum 3.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID DW1-3 532101424-0007			Description 1st Floor - Gray Drywall Homogeneity Heterogeneous		
PLM NYS 198.1 Friable	08/17/2021	Brown/ White	12.00% Cellulose	85.00% Gypsum 3.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID PL1-1 532101424-0008			Description 1st Floor - Gray Wall Plaster Homogeneity Homogeneous		
PLM NYS 198.1 Friable	08/17/2021	Gray	<1.00% Hair	10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID PL1-2 532101424-0009			Description 1st Floor - Gray Wall Plaster Homogeneity Homogeneous		
PLM NYS 198.1 Friable	08/17/2021	Gray	<1.00% Hair	10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID PL1-3 532101424-0010			Description 1st Floor - Gray Wall Plaster Homogeneity Homogeneous		
PLM NYS 198.1 Friable	08/17/2021	Gray	2.00% Hair	5.00% Ca Carbonate 93.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID DT1-1 532101424-0011			Description Basement - Gray Duct Tape/Sealant Homogeneity Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/17/2021	Brown/ Black	<1.00% Fibrous (other) <1.00% Min. Wool	100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/17/2021	Brown/ Black		100.00% Other	None Detected

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EMSL Order: 532101424

Customer ID: LIRO50

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID DT1-2 532101424-0012		Description Homogeneity	Basement - Gray Duct Tape/Sealant Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/17/2021	Brown/ Black	<1.00% Min. Wool	100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/17/2021	Brown/ Black		100.00% Other	None Detected
Sample ID WP1-1 532101424-0013		Description Homogeneity	1st Floor - White Wall Plaster Heterogeneous		
PLM NYS 198.1 Friable	08/17/2021	Brown/ White	5.00% Cellulose <1.00% Glass	85.00% Gypsum 10.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID WP1-2 532101424-0014		Description Homogeneity	1st Floor - White Wall Plaster Heterogeneous		
PLM NYS 198.1 Friable	08/17/2021	Brown/ White	5.00% Cellulose <1.00% Glass	85.00% Gypsum 10.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID WP1-3 532101424-0015		Description Homogeneity	1st Floor - White Wall Plaster Homogeneous		
PLM NYS 198.1 Friable	08/17/2021	White	2.00% Cellulose	<1.00% Ca Carbonate 85.00% Gypsum 13.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID TL1-1 532101424-0016		Description Homogeneity	1st Floor - Tiled Linoleum Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/17/2021	Tan	<1.00% Glass <1.00% Wollastonite	100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/17/2021	Tan		100.00% Other	None Detected
Sample ID TL1-2 532101424-0017		Description Homogeneity	1st Floor - Tiled Linoleum Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/17/2021	Tan	<1.00% Glass <1.00% Wollastonite	100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/17/2021	Tan		100.00% Other	None Detected

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<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 532101424

Customer ID: LIRO50

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID TLM1-1 532101424-0018		Description 1st Floor - Mastic Yellow (Linoleum)			
		Homogeneity Heterogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB 08/17/2021 White/ Yellow Result includes a small amount of inseparable attached material				100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB 08/17/2021 White/ Yellow				100.00% Other	None Detected
Sample ID TLM1-2 532101424-0019		Description 1st Floor - Mastic Yellow (Linoleum)			
		Homogeneity Heterogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB 08/17/2021 White/ Yellow Result includes a small amount of inseparable attached material				100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB 08/17/2021 White/ Yellow		9.70% Fibrous (other)		90.30% Other	None Detected
Sample ID DW2-1 532101424-0020		Description 2nd Floor - White Drywall			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable 08/17/2021 White		2.00% Cellulose		85.00% Gypsum 13.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID DW2-2 532101424-0021		Description 2nd Floor - White Drywall			
		Homogeneity Heterogeneous			
PLM NYS 198.1 Friable 08/17/2021 Brown/ White		5.00% Cellulose		85.00% Gypsum 10.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID DW2-3 532101424-0022		Description 2nd Floor - White Drywall			
		Homogeneity Heterogeneous			
PLM NYS 198.1 Friable 08/17/2021 Brown/ White		12.00% Cellulose		85.00% Gypsum 3.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID CP1-1-Plaster 1 532101424-0023		Description 1st Floor - Gray Ceiling Plaster			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable 08/17/2021 Beige				15.00% Ca Carbonate 85.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

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<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 532101424

Customer ID: LIRO50

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID CP1-1-Plaster 2 532101424-0023A		Description 1st Floor - Gray Ceiling Plaster Homogeneity Homogeneous			
PLM NYS 198.1 Friable	08/17/2021	Gray	<1.00% Hair	10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID CP1-2-Plaster 1 532101424-0024		Description 1st Floor - Gray Ceiling Plaster Homogeneity Homogeneous			
PLM NYS 198.1 Friable	08/17/2021	Beige		15.00% Ca Carbonate 85.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID CP1-2-Plaster 2 532101424-0024A		Description 1st Floor - Gray Ceiling Plaster Homogeneity Homogeneous			
PLM NYS 198.1 Friable	08/17/2021	Gray	<1.00% Hair	10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID CP1-3-Plaster 1 532101424-0025		Description 1st Floor - Gray Ceiling Plaster Homogeneity Homogeneous			
PLM NYS 198.1 Friable	08/17/2021	White		15.00% Ca Carbonate 85.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID CP1-3-Plaster 2 532101424-0025A		Description 1st Floor - Gray Ceiling Plaster Homogeneity Homogeneous			
PLM NYS 198.1 Friable	08/17/2021	Gray	2.00% Hair	98.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID CA1-1 532101424-0026		Description Exterior- Front Entry Way - White Window Caulk Homogeneity Heterogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/17/2021	White/ Red		100.00% Other	Inconclusive: None Detected
Result includes a small amount of inseparable attached material					
TEM NYS 198.4 NOB	08/17/2021	White/ Red		100.00% Other	None Detected

Initial report from: 08/17/2021 13:57:21



EMSL Analytical, Inc.

2975 Brighton Henrietta Town Line Rd ,100 Ste 130 Rochester, NY 14623

Tel/Fax: (585) 957-9436 / (585) 957-9437

<http://www.EMSL.com> / rochesterlab@EMSL.com

EMSL Order: 532101424

Customer ID: LIRO50

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

		Non-Asbestos			
Test	Analyzed Date	Color	Fibrous	Non-Fibrous	Asbestos
Sample ID	CA1-2	Description	Exterior- Front Entry Way - White Window Caulk		
	532101424-0027	Homogeneity	Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/17/2021	White/ Red		100.00% Other	Inconclusive: None Detected
Result includes a small amount of inseparable attached material					
TEM NYS 198.4 NOB	08/17/2021	White/ Red		100.00% Other	None Detected

Initial report from: 08/17/2021 13:57:21



EMSL Analytical, Inc.

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Tel/Fax: (585) 957-9436 / (585) 957-9437

<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 532101424

Customer ID: LIRO50

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via NYS ELAP Approved Methods. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 8/13/2021

Sample Receipt Time: 2:30 PM

Analysis Completed Date: 8/17/2021

Analysis Completed Time: 8:48 AM

Analyst(s):

Jessica Schwartz PLM NYS 198.1 Friable (6)

Jessica Schwartz PLM NYS 198.6 NOB (11)

Melissa Hartwig PLM NYS 198.1 Friable (12)

Melissa Hartwig TEM NYS 198.4 NOB (11)

Samples reviewed and approved by:

Peter Donato, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. All samples examined for the presence of vermiculite when analyzed via NYS 198.1. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos. Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government. 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. NOB= Non friable organically bound; N/A= Not applicable VCM= Vermiculite containing material.

Samples analyzed by EMSL Analytical, Inc. Rochester, NY NYS ELAP 12088, NVLAP Lab Code 600183-0

Initial report from: 08/17/2021 13:57:21

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>cinnaminsonleadlab@emsl.com

EMSL Order: 202106295

CustomerID: LIRO50

CustomerPO: 19-241-2291

ProjectID:

Attn: **Jason Colvin**
The LiRo Group
690 Delaware Avenue
Buffalo, NY 14209

Phone: (716) 882-5476
Fax: (716) 882-9640
Received: 08/16/21 10:00 AM
Collected: 8/13/2021

Project: **Wayne County Regional Land Bank, Lyons, NY / 46 Canal St.****Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)***

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>Lead Concentration</i>
PAINT-1	202106295-0001	8/13/2021	8/18/2021	0.2505 g	0.65 % wt
	Site: 1ST FLOOR - TAN PAINT				
PAINT-2	202106295-0002	8/13/2021	8/18/2021	0.2543 g	0.049 % wt
	Site: 1ST FLOOR - LIGHT GREEN PAINT				
PAINT-3	202106295-0003	8/13/2021	8/18/2021	0.2522 g	0.82 % wt
	Site: 2ND FLOOR - DARK GREEN PAINT				

Phillip Worby, Lead Laboratory Manager
or other approved signatory

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Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 08/23/2021 09:43:06



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn:

J. Seward
The LiRo Group
690 Delaware Avenue
Buffalo, NY 14209

8/23/2021

Phone: (716) 882-5476
Fax: (716) 882-9640

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 8/16/2021. The results are tabulated on the attached data pages for the following client designated project:

Wayne County Regional Land Bank

The reference number for these samples is EMSL Order #012109236. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

Phillip Worby, Environmental Chemistry
Laboratory Director



The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.
NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, CA ELAP 1877

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.EMSL.com>EnvChemistry2@emsl.com

EMSL Order: 012109236
CustomerID: LIRO50
CustomerPO: 19-241-2291
ProjectID:

Attn: **J. Seward**
The LiRo Group
690 Delaware Avenue
Buffalo, NY 14209

Phone: (716) 882-5476
Fax: (716) 882-9640
Received: 8/16/2021 08:45 AM

Project: **Wayne County Regional Land Bank****Analytical Results**

Client Sample Description CA - 1,2,3
Exterior - Entry way window

Collected: 8/13/2021 11:45:00 AM

Lab ID: 012109236-0001

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
GC-SVOA					
3540C/8082	Aroclor-1016	ND D	0.91 mg/Kg	8/17/2021 ER	8/18/2021 EH 00:00
3540C/8082	Aroclor-1221	ND D	0.91 mg/Kg	8/17/2021 ER	8/18/2021 EH 00:00
3540C/8082	Aroclor-1232	ND D	0.91 mg/Kg	8/17/2021 ER	8/18/2021 EH 00:00
3540C/8082	Aroclor-1242	ND D	0.91 mg/Kg	8/17/2021 ER	8/18/2021 EH 00:00
3540C/8082	Aroclor-1248	ND D	0.91 mg/Kg	8/17/2021 ER	8/18/2021 EH 00:00
3540C/8082	Aroclor-1254	ND D	0.91 mg/Kg	8/17/2021 ER	8/18/2021 EH 00:00
3540C/8082	Aroclor-1260	ND D	0.91 mg/Kg	8/17/2021 ER	8/18/2021 EH 00:00
3540C/8082	Aroclor-1262	ND D	0.91 mg/Kg	8/17/2021 ER	8/18/2021 EH 00:00
3540C/8082	Aroclor-1268	ND D	0.91 mg/Kg	8/17/2021 ER	8/18/2021 EH 00:00

Definitions:

MDL - method detection limit

J - Result was below the reporting limit, but at or above the MDL

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit (Analytical)

D - Dilution Sample required a dilution which was used to calculate final results

APPENDIX C:
CERTIFICATIONS AND ACCREDITATIONS

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 600183-0

EMSL Analytical, Inc. Rochester, NY
Rochester, NY

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

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2021-01-01 through 2021-12-31

Effective Dates



A handwritten signature in blue ink, which appears to read "Peter S. Lander".

For the National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

EMSL Analytical, Inc. Rochester, NY

2975 Brighton Henrietta Town Line Rd.

Building 100, Suite 130

Rochester, NY 14623

Mr. Peter Donato

Phone: 585-957-9436 Fax: 585-957-9437

Email: pdonato@emsl.com

<http://www.emsl.com>

ASBESTOS FIBER ANALYSIS

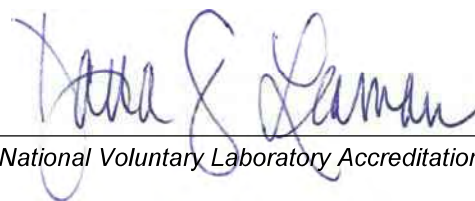
NVLAP LAB CODE 600183-0

Bulk Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

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



For the National Voluntary Laboratory Accreditation Program

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2022
Issued April 01, 2021
Revised May 05, 2021

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. PHILLIP M. WORBY
EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:*

Bacteriology

Coliform, Total / E. coli (Qualitative)	SM 20, 21-23 9223B (-04) (Colilert)
Heterotrophic Plate Count	SM 20, 21-23 9215B (-04)

Disinfection By-products

Bromide	EPA 300.0 Rev. 2.1

Fuel Additives

Methyl tert-butyl ether	EPA 524.2
Naphthalene	EPA 524.2

Metals I

Arsenic, Total	EPA 200.8 Rev. 5.4
Barium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Cadmium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Chromium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Copper, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Iron, Total	EPA 200.7 Rev. 4.4
Lead, Total	EPA 200.8 Rev. 5.4
Manganese, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Mercury, Total	EPA 245.1 Rev. 3.0
Selenium, Total	EPA 200.8 Rev. 5.4
Silver, Total	EPA 200.7 Rev. 4.4

Metals I

Silver, Total	EPA 200.8 Rev. 5.4
Zinc, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4

Metals II

Aluminum, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Antimony, Total	EPA 200.8 Rev. 5.4
Beryllium, Total	EPA 200.8 Rev. 5.4
Nickel, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Thallium, Total	EPA 200.8 Rev. 5.4

Metals III

Calcium, Total	EPA 200.7 Rev. 4.4
Magnesium, Total	EPA 200.7 Rev. 4.4
Potassium, Total	EPA 200.7 Rev. 4.4
Sodium, Total	EPA 200.7 Rev. 4.4
Uranium (Mass)	EPA 200.8 Rev. 5.4

Microextractables

1,2,3-Trichloropropane, Low Level	EPA 504.1
1,2-Dibromo-3-chloropropane, Low Level	EPA 504.1
1,2-Dibromoethane, Low Level	EPA 504.1

Miscellaneous

Asbestos	EPA 100.1
	EPA 100.2

Serial No.: 63577

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



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Revised May 05, 2021

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ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:*

Miscellaneous

Organic Carbon, Total	SM 21-23 5310C (-00)
Surfactant (MBAS)	SM 21-23 5540C (-00)
Turbidity	SM 21-23 2130 B (-01)
	EPA 180.1 Rev. 2.0

Non-Metals

Alkalinity	SM 21-23 2320B (-97)
Calcium Hardness	EPA 200.7 Rev. 4.4
Chloride	EPA 300.0 Rev. 2.1
Color	SM 21-23 2120B (-01)
Cyanide	SM 20, 21-23 4500-CN E
	SM 20, 21-23 4500-CN G
Fluoride, Total	EPA 300.0 Rev. 2.1
Nitrate (as N)	EPA 300.0 Rev. 2.1
Nitrite (as N)	EPA 300.0 Rev. 2.1
Orthophosphate (as P)	EPA 300.0 Rev. 2.1
Silica, Total	EPA 200.7 Rev. 4.4
Solids, Total Dissolved	SM 21-23 2540C (-97)
Specific Conductance	SM 21-23 2510B (-97)
Sulfate (as SO ₄)	EPA 300.0 Rev. 2.1

Perfluorinated Alkyl Acids

Perfluorooctanesulfonic acid (PFOS)	EPA 537
	EPA 537.1
Perfluorooctanoic acid (PFOA)	EPA 537
	EPA 537.1

Radiological Analytes

Gamma Emitters	EPA 901.1
Gross Alpha	EPA 900.0
Gross Beta	EPA 900.0
Radium-226	EPA 903.0
Radium-228	EPA 904.0
Radon	SM 20-22 7500-Rn B(-06)
Tritium	EPA 906.0
Uranium (Activity)	EPA 908.0

Trihalomethanes

Bromodichloromethane	EPA 524.2
Bromoform	EPA 524.2
Chloroform	EPA 524.2
Dibromochloromethane	EPA 524.2

Volatile Aromatics

1,2,3-Trichlorobenzene	EPA 524.2
1,2,4-Trichlorobenzene	EPA 524.2
1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2
1,3-Dichlorobenzene	EPA 524.2
1,4-Dichlorobenzene	EPA 524.2
2-Chlorotoluene	EPA 524.2
4-Chlorotoluene	EPA 524.2
Benzene	EPA 524.2
Bromobenzene	EPA 524.2

Serial No.: 63577

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2022
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Revised May 05, 2021

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MR. PHILLIP M. WORBY
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200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

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ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:*

Volatile Aromatics

Chlorobenzene	EPA 524.2
Ethyl benzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
p-Isopropyltoluene (P-Cymene)	EPA 524.2
sec-Butylbenzene	EPA 524.2
Styrene	EPA 524.2
tert-Butylbenzene	EPA 524.2
Toluene	EPA 524.2
Total Xylenes	EPA 524.2

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethene	EPA 524.2
1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2
1,2-Dichloroethane	EPA 524.2
1,2-Dichloropropane	EPA 524.2
1,3-Dichloropropane	EPA 524.2
2,2-Dichloropropane	EPA 524.2

Volatile Halocarbons

Bromochloromethane	EPA 524.2
Bromomethane	EPA 524.2
Carbon tetrachloride	EPA 524.2
Chloroethane	EPA 524.2
Chloromethane	EPA 524.2
cis-1,2-Dichloroethene	EPA 524.2
cis-1,3-Dichloropropene	EPA 524.2
Dibromomethane	EPA 524.2
Dichlorodifluoromethane	EPA 524.2
Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Trichlorofluoromethane	EPA 524.2
Vinyl chloride	EPA 524.2

Serial No.: 63577

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2022
Issued April 01, 2021

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MR. PHILLIP M. WORBY
EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Acrylates

Acrolein (Propenal)	EPA 8260D
	EPA 624.1
Acrylonitrile	EPA 8260D
	EPA 624.1

Amines

1,2-Diphenylhydrazine	EPA 8270E
1,4-Phenylenediamine	EPA 8270E
1-Naphthylamine	EPA 8270E
2-Naphthylamine	EPA 8270E
2-Nitroaniline	EPA 8270E
3-Nitroaniline	EPA 8270E
4-Chloroaniline	EPA 8270E
4-Nitroaniline	EPA 8270E
5-Nitro-o-toluidine	EPA 8270E
Aniline	EPA 625.1
	EPA 8270E
Carbazole	EPA 625.1
	EPA 8270E
Pronamide	EPA 8270E
Propionitrile	EPA 8260D
Pyridine	EPA 8260D
	EPA 625.1
	EPA 8270E

Bacteriology

Heterotrophic Plate Count	SM 18-21 9215B

Benzidines

3,3'-Dichlorobenzidine	EPA 625.1
	EPA 8270E
3,3'-Dimethylbenzidine	EPA 8270E
Benzidine	EPA 625.1
	EPA 8270E

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
	EPA 608.3
4,4'-DDE	EPA 8081B
	EPA 608.3
4,4'-DDT	EPA 8081B
	EPA 608.3
Aldrin	EPA 8081B
	EPA 608.3
alpha-BHC	EPA 8081B
	EPA 608.3
alpha-Chlordane	EPA 8081B
beta-BHC	EPA 8081B
	EPA 608.3
Chlordane Total	EPA 8081B
	EPA 608.3
Chlorobenzilate	EPA 8270E
delta-BHC	EPA 8081B
	EPA 608.3
Diallate	EPA 8270E

Serial No.: 62815

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.



NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2022
Issued April 01, 2021

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. PHILLIP M. WORBY
EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Chlorinated Hydrocarbon Pesticides

Dieldrin	EPA 8081B EPA 608.3
Endosulfan I	EPA 8081B EPA 608.3
Endosulfan II	EPA 8081B EPA 608.3
Endosulfan sulfate	EPA 8081B EPA 608.3
Endrin	EPA 8081B EPA 608.3
Endrin aldehyde	EPA 8081B EPA 608.3
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 8081B EPA 608.3
Heptachlor epoxide	EPA 8081B EPA 608.3
Isodrin	EPA 8270E
Kepone	EPA 8270E
Lindane	EPA 8081B EPA 608.3
Methoxychlor	EPA 8081B EPA 608.3
Mirex	EPA 8081B
PCNB	EPA 8270E

Chlorinated Hydrocarbon Pesticides

Toxaphene	EPA 8081B EPA 608.3

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260D
1,2,4,5-Tetrachlorobenzene	EPA 8270E
1,2,4-Trichlorobenzene	EPA 625.1 EPA 8270E
2-Chloronaphthalene	EPA 625.1 EPA 8270E
Hexachlorobenzene	EPA 625.1 EPA 8270E
Hexachlorobutadiene	EPA 625.1 EPA 8270E
Hexachlorocyclopentadiene	EPA 625.1 EPA 8270E
Hexachloroethane	EPA 8260D EPA 625.1 EPA 8270E
Hexachloropropene	EPA 8270E
Pentachlorobenzene	EPA 8270E

Chlorophenoxy Acid Pesticides

2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2022
Issued April 01, 2021

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. PHILLIP M. WORBY
EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Metals I		Metals I	
Calcium, Total	EPA 6010D	Manganese, Total	EPA 200.8, Rev. 5.4 (1994)
	EPA 6020B		EPA 200.7, Rev. 4.4 (1994)
	EPA 200.8, Rev. 5.4 (1994)		EPA 6010D
Chromium, Total	EPA 200.7, Rev. 4.4 (1994)	Nickel, Total	EPA 6020B
	EPA 6010D		EPA 200.8, Rev. 5.4 (1994)
	EPA 6020B		EPA 200.7, Rev. 4.4 (1994)
Copper, Total	EPA 200.8, Rev. 5.4 (1994)	Potassium, Total	EPA 6010D
	EPA 200.7, Rev. 4.4 (1994)		EPA 6020B
	EPA 6010D		EPA 200.8, Rev. 5.4 (1994)
Iron, Total	EPA 6020B	Silver, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 200.8, Rev. 5.4 (1994)		EPA 6010D
	EPA 200.7, Rev. 4.4 (1994)		EPA 6020B
Lead, Total	EPA 6010D	Sodium, Total	EPA 200.8, Rev. 5.4 (1994)
	EPA 6020B		EPA 200.7, Rev. 4.4 (1994)
	EPA 200.8, Rev. 5.4 (1994)		EPA 6010D
Magnesium, Total	EPA 200.7, Rev. 4.4 (1994)	Strontium, Total	EPA 6020B
	EPA 6010D		EPA 200.8, Rev. 5.4 (1994)
	EPA 6020B		EPA 6010D
Manganese, Total	EPA 200.8, Rev. 5.4 (1994)	Antimony, Total	EPA 6020B
	EPA 200.7, Rev. 4.4 (1994)		EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D		EPA 6010D
	EPA 6020B		EPA 6020B
Metals II		Metals II	
	EPA 200.7, Rev. 4.4 (1994)	Aluminum, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D		EPA 6010D
	EPA 6020B		EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)		EPA 200.8, Rev. 5.4 (1994)
	EPA 200.7, Rev. 4.4 (1994)		EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D		
	EPA 6020B		

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Metals II		Metals II	
Antimony, Total	EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)	Zinc, Total	EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Arsenic, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)	Metals III	
Beryllium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)	Cobalt, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Chromium VI	EPA 7196A SM 3500-Cr B-2011	Gold, Total	SM 3111B-2011
Mercury, Total	EPA 245.1, Rev. 3.0 (1994) EPA 7470A SM 3112B-2011	Molybdenum, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Selenium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)	Palladium, Total	SM 3111B-2011
Vanadium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)	Platinum, Total	SM 3111B-2011
Zinc, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D	Thallium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)
		Tin, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)
		Titanium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B

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Metals III		Miscellaneous	
Titanium, Total	EPA 200.8, Rev. 5.4 (1994)	Phenols	EPA 9065
Uranium (Mass)	EPA 200.8, Rev. 5.4 (1994)	Silica, Dissolved	EPA 200.7, Rev. 4.4 (1994)
Mineral		Specific Conductance	EPA 120.1 (Rev. 1982)
Acidity	SM 2310B-2011		SM 2510B-2011
Alkalinity	SM 2320B-2011		EPA 9050A
Chloride	EPA 300.0, Rev. 2.1 (1993)	Sulfide (as S)	EPA 9034
	EPA 9056A		SM 4500-S2- D-2011
Fluoride, Total	EPA 300.0, Rev. 2.1 (1993)	Surfactant (MBAS)	SM 5540C-2011
	EPA 9056A	Turbidity	SM 2130 B-2011
Hardness, Total	EPA 200.7, Rev. 4.4 (1994)	Nitroaromatics and Isophorone	
Sulfate (as SO4)	EPA 300.0, Rev. 2.1 (1993)	1,3,5-Trinitrobenzene	EPA 8270E
	EPA 9056A	1,3-Dinitrobenzene	EPA 8270E
Miscellaneous		1,4-Naphthoquinone	EPA 8270E
Boron, Total	EPA 200.7, Rev. 4.4 (1994)	2,4-Dinitrotoluene	EPA 625.1
	EPA 6010D		EPA 8270E
	EPA 6020B	2,6-Dinitrotoluene	EPA 625.1
Bromide	EPA 300.0, Rev. 2.1 (1993)		EPA 8270E
	EPA 9056A	Isophorone	EPA 625.1
Color	SM 2120B-2011		EPA 8270E
Cyanide, Total	EPA 9014	Nitrobenzene	EPA 625.1
	SM 4500-CN E-2011		EPA 8270E
non-Polar Extractable Material (TPH)	EPA 1664A	Nitrosoamines	
Oil and Grease Total Recoverable (HEM)	EPA 1664A	N-Nitrosodiethylamine	EPA 8270E
Organic Carbon, Total	SM 5310C-2011	N-Nitrosodimethylamine	EPA 625.1
Phenols	EPA 420.1 (Rev. 1978)		EPA 8270E

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Nitrosoamines

N-Nitrosodi-n-butylamine	EPA 8270E
N-Nitrosodi-n-propylamine	EPA 625.1
	EPA 8270E
N-Nitrosodiphenylamine	EPA 625.1
	EPA 8270E
N-nitrosomethylethylamine	EPA 8270E
N-nitrosomorpholine	EPA 8270E
N-Nitrosopyrrolidine	EPA 8270E

Nutrient

Ammonia (as N)	SM 4500-NH3 C-2011
Kjeldahl Nitrogen, Total	SM 4500-NH3 C-2011
Nitrate (as N)	EPA 300.0, Rev. 2.1 (1993)
	EPA 9056A
Nitrite (as N)	EPA 300.0, Rev. 2.1 (1993)
	EPA 9056A
Orthophosphate (as P)	EPA 300.0, Rev. 2.1 (1993)
	EPA 9056A
Phosphorus, Total	SM 4500-P E-2011

Organophosphate Pesticides

Atrazine	EPA 8270E
Dimethoate	EPA 8270E
Disulfoton	EPA 8270E
Famphur	EPA 8270E
Parathion ethyl	EPA 8270E
Parathion methyl	EPA 8270E

Petroleum Hydrocarbons

Diesel Range Organics	EPA 8015D
Gasoline Range Organics	EPA 8015D

Phthalate Esters

Benzyl butyl phthalate	EPA 625.1
	EPA 8270E
Bis(2-ethylhexyl) phthalate	EPA 625.1
	EPA 8270E
Diethyl phthalate	EPA 625.1
	EPA 8270E
Dimethyl phthalate	EPA 625.1
	EPA 8270E
Di-n-butyl phthalate	EPA 625.1
	EPA 8270E
Di-n-octyl phthalate	EPA 625.1
	EPA 8270E

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016)	EPA 8082A
	EPA 608.3
Aroclor 1221 (PCB-1221)	EPA 8082A
	EPA 608.3
Aroclor 1232 (PCB-1232)	EPA 8082A
	EPA 608.3
Aroclor 1242 (PCB-1242)	EPA 8082A
	EPA 608.3
Aroclor 1248 (PCB-1248)	EPA 8082A

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Polychlorinated Biphenyls

Aroclor 1248 (PCB-1248)	EPA 608.3
Aroclor 1254 (PCB-1254)	EPA 8082A
	EPA 608.3
Aroclor 1260 (PCB-1260)	EPA 8082A
	EPA 608.3
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A
PCB 1	EPA 8082A
PCB 101	EPA 8082A
PCB 110	EPA 8082A
PCB 138	EPA 8082A
PCB 141	EPA 8082A
PCB 151	EPA 8082A
PCB 153	EPA 8082A
PCB 170	EPA 8082A
PCB 18	EPA 8082A
PCB 180	EPA 8082A
PCB 183	EPA 8082A
PCB 187	EPA 8082A
PCB 206	EPA 8082A
PCB 31	EPA 8082A
PCB 44	EPA 8082A
PCB 5	EPA 8082A
PCB 52	EPA 8082A
PCB 66	EPA 8082A
PCB 87	EPA 8082A

Polynuclear Aromatics

2-Acetylaminofluorene	EPA 8270E
3-Methylcholanthrene	EPA 8270E
7,12-Dimethylbenzyl (a) anthracene	EPA 8270E
Acenaphthene	EPA 625.1
	EPA 8270E
Acenaphthylene	EPA 625.1
	EPA 8270E
Anthracene	EPA 625.1
	EPA 8270E
Benzo(a)anthracene	EPA 625.1
	EPA 8270E
Benzo(a)pyrene	EPA 625.1
	EPA 8270E
Benzo(b)fluoranthene	EPA 625.1
	EPA 8270E
Benzo(g,h,i)perylene	EPA 625.1
	EPA 8270E
Benzo(k)fluoranthene	EPA 625.1
	EPA 8270E
Chrysene	EPA 625.1
	EPA 8270E
Dibenzo(a,h)anthracene	EPA 625.1
	EPA 8270E
Fluoranthene	EPA 625.1
	EPA 8270E
Fluorene	EPA 625.1

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Polynuclear Aromatics

Fluorene	EPA 8270E
Indeno(1,2,3-cd)pyrene	EPA 625.1
	EPA 8270E
Naphthalene	EPA 625.1
	EPA 8270E
Phenanthrene	EPA 625.1
	EPA 8270E
Pyrene	EPA 625.1
	EPA 8270E

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270E
2,4,5-Trichlorophenol	EPA 625.1
	EPA 8270E
2,4,6-Trichlorophenol	EPA 625.1
	EPA 8270E
2,4-Dichlorophenol	EPA 625.1
	EPA 8270E
2,4-Dimethylphenol	EPA 625.1
	EPA 8270E
2,4-Dinitrophenol	EPA 625.1
	EPA 8270E
2,6-Dichlorophenol	EPA 8270E
2-Chlorophenol	EPA 625.1
	EPA 8270E
2-Methyl-4,6-dinitrophenol	EPA 625.1

Priority Pollutant Phenols

2-Methyl-4,6-dinitrophenol	EPA 8270E
2-Methylphenol	EPA 625.1
	EPA 8270E
2-Nitrophenol	EPA 625.1
	EPA 8270E
3-Methylphenol	EPA 8270E
4-Chloro-3-methylphenol	EPA 625.1
	EPA 8270E
4-Methylphenol	EPA 625.1
	EPA 8270E
4-Nitrophenol	EPA 625.1
	EPA 8270E
Cresols, Total	EPA 8270E
Pentachlorophenol	EPA 625.1
	EPA 8270E
Phenol	EPA 625.1
	EPA 8270E

Residue

Settleable Solids	SM 2540 F-2011
Solids, Total	SM 2540 B-2011
Solids, Total Dissolved	SM 2540 C-2011
Solids, Total Suspended	SM 2540 D-2011
Solids, Volatile	EPA 160.4 (Issued 1971)

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270E

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Semi-Volatile Organics

1,2-Dichlorobenzene, Semi-volatile	EPA 8270E
1,3-Dichlorobenzene, Semi-volatile	EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270E
2-Methylnaphthalene	EPA 8270E
4-Amino biphenyl	EPA 8270E
Acetophenone	EPA 8270E
Aramite	EPA 8270E
Benzaldehyde	EPA 8270E
Benzoic Acid	EPA 8270E
Caprolactam	EPA 8270E
Dibenzofuran	EPA 8270E
Ethyl methanesulfonate	EPA 8270E
Isosafrole	EPA 8270E
Methyl methanesulfonate	EPA 8270E
n-Decane	EPA 625.1
n-Octadecane	EPA 625.1
O,O,O-Triethyl phosphorothioate	EPA 8270E
p-Dimethylaminoazobenzene	EPA 8270E
Phenacetin	EPA 8270E
Safrole	EPA 8270E

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260D
1,2,4-Trimethylbenzene	EPA 8260D
1,2-Dichlorobenzene	EPA 8260D
	EPA 624.1

Volatile Aromatics

1,3,5-Trimethylbenzene	EPA 8260D
1,3-Dichlorobenzene	EPA 8260D
	EPA 624.1
1,4-Dichlorobenzene	EPA 8260D
	EPA 624.1
2-Chlorotoluene	EPA 8260D
4-Chlorotoluene	EPA 8260D
Benzene	EPA 8260D
	EPA 624.1
Bromobenzene	EPA 8260D
Chlorobenzene	EPA 8260D
	EPA 624.1
Ethyl benzene	EPA 8260D
	EPA 624.1
Isopropylbenzene	EPA 8260D
m/p-Xylenes	EPA 8260D
	EPA 624.1
Naphthalene, Volatile	EPA 8260D
n-Butylbenzene	EPA 8260D
n-Propylbenzene	EPA 8260D
o-Xylene	EPA 8260D
	EPA 624.1
p-Isopropyltoluene (P-Cymene)	EPA 8260D
sec-Butylbenzene	EPA 8260D
Styrene	EPA 8260D
	EPA 624.1

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Volatile Aromatics

tert-Butylbenzene	EPA 8260D
Toluene	EPA 8260D
	EPA 624.1
Total Xylenes	EPA 8260D
	EPA 624.1

Volatile Chlorinated Organics

Benzyl chloride	EPA 8260D

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260D
1,1,1-Trichloroethane	EPA 8260D
	EPA 624.1
1,1,2,2-Tetrachloroethane	EPA 8260D
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260D
1,1,2-Trichloroethane	EPA 8260D
	EPA 624.1
1,1-Dichloroethane	EPA 8260D
	EPA 624.1
1,1-Dichloroethene	EPA 8260D
	EPA 624.1
1,1-Dichloropropene	EPA 8260D
1,2,3-Trichloropropane	EPA 8260D
1,2-Dibromo-3-chloropropane	EPA 8260D
1,2-Dibromoethane	EPA 8260D
1,2-Dichloroethane	EPA 8260D
	EPA 624.1

Volatile Halocarbons

1,2-Dichloropropane	EPA 8260D
	EPA 624.1
1,3-Dichloropropane	EPA 8260D
2,2-Dichloropropane	EPA 8260D
2-Chloro-1,3-butadiene (Chloroprene)	EPA 8260D
2-Chloroethylvinyl ether	EPA 8260D
	EPA 624.1
3-Chloropropene (Allyl chloride)	EPA 8260D
Bromochloromethane	EPA 8260D
Bromodichloromethane	EPA 8260D
	EPA 624.1
Bromoform	EPA 8260D
	EPA 624.1
Bromomethane	EPA 8260D
	EPA 624.1
Carbon tetrachloride	EPA 8260D
	EPA 624.1
Chloroethane	EPA 8260D
	EPA 624.1
Chloroform	EPA 8260D
	EPA 624.1
Chloromethane	EPA 8260D
	EPA 624.1
cis-1,2-Dichloroethene	EPA 8260D
	EPA 624.1
cis-1,3-Dichloropropene	EPA 8260D

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Volatile Halocarbons

cis-1,3-Dichloropropene	EPA 624.1
Dibromochloromethane	EPA 8260D
	EPA 624.1
Dibromomethane	EPA 8260D
Dichlorodifluoromethane	EPA 8260D
Hexachlorobutadiene, Volatile	EPA 8260D
Methyl iodide	EPA 8260D
Methylene chloride	EPA 8260D
	EPA 624.1
Tetrachloroethene	EPA 8260D
	EPA 624.1
trans-1,2-Dichloroethene	EPA 8260D
	EPA 624.1
trans-1,3-Dichloropropene	EPA 8260D
	EPA 624.1
trans-1,4-Dichloro-2-butene	EPA 8260D
Trichloroethene	EPA 8260D
	EPA 624.1
Trichlorofluoromethane	EPA 8260D
	EPA 624.1
Vinyl chloride	EPA 8260D
	EPA 624.1

Volatiles Organics

1,4-Dioxane	EPA 8260D
2-Butanone (Methylethyl ketone)	EPA 8260D

Volatiles Organics

2-Hexanone	EPA 8260D
4-Methyl-2-Pentanone	EPA 8260D
Acetone	EPA 8260D
Acetonitrile	EPA 8260D
Carbon Disulfide	EPA 8260D
Cyclohexane	EPA 8260D
Di-ethyl ether	EPA 8260D
Ethylene Glycol	EPA 8015D
Isobutyl alcohol	EPA 8260D
Isopropanol	EPA 8260D
Methyl acetate	EPA 8260D
Methyl cyclohexane	EPA 8260D
o-Toluidine	EPA 8270E
Vinyl acetate	EPA 8260D

Sample Preparation Methods

SM 4500-P B(5)-2011
EPA 5030C
SM 4500-CN B-2011 and C-201
EPA 3015A
EPA 9030B
EPA 3010A
EPA 3005A
EPA 3510C
EPA 3520C
SM 4500-NH3 B-2011

Serial No.: 62815

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



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

MR. PHILLIP M. WORBY
EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Sample Preparation Methods

SM 4500-N Org B-2011 or C-2011
EPA 9010C



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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Acrylates		Characteristic Testing	
Acrolein (Propenal)	EPA 8260D	TCLP	EPA 1311
Acrylonitrile	EPA 8260D	Chlorinated Hydrocarbon Pesticides	
Amines		4,4'-DDD	EPA 8081B
1,2-Diphenylhydrazine	EPA 8270E	4,4'-DDE	EPA 8081B
1-Naphthylamine	EPA 8270E	4,4'-DDT	EPA 8081B
2-Naphthylamine	EPA 8270E	Aldrin	EPA 8081B
3-Nitroaniline	EPA 8270E	alpha-BHC	EPA 8081B
4-Chloroaniline	EPA 8270E	alpha-Chlordane	EPA 8081B
4-Nitroaniline	EPA 8270E	beta-BHC	EPA 8081B
5-Nitro-o-toluidine	EPA 8270E	Chlordane Total	EPA 8081B
a,a-Dimethylphenethylamine	EPA 8270E	Chlorobenzilate	EPA 8270E
Aniline	EPA 8270E	delta-BHC	EPA 8081B
Carbazole	EPA 8270E	Dieldrin	EPA 8081B
Diphenylamine	EPA 8270E	Endosulfan I	EPA 8081B
Pronamide	EPA 8270E	Endosulfan II	EPA 8081B
Benzidines		Endosulfan sulfate	EPA 8081B
3,3'-Dichlorobenzidine	EPA 8270E	Endrin	EPA 8081B
3,3'-Dimethylbenzidine	EPA 8270E	Endrin aldehyde	EPA 8081B
Benzidine	EPA 8270E	Endrin Ketone	EPA 8081B
Characteristic Testing		gamma-Chlordane	EPA 8081B
Corrosivity (pH)	EPA 9045D	Heptachlor	EPA 8081B
Free Liquids	EPA 9095B	Heptachlor epoxide	EPA 8081B
Ignitability	EPA 1010A	Isodrin	EPA 8270E
Synthetic Precipitation Leaching Proc.	EPA 1312	Kepone	EPA 8270E
		Lindane	EPA 8081B

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Chlorinated Hydrocarbon Pesticides

Methoxychlor	EPA 8081B
Pentachloronitrobenzene	EPA 8270E
Toxaphene	EPA 8081B

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260D
1,2,4,5-Tetrachlorobenzene	EPA 8270E
1,2,4-Trichlorobenzene	EPA 8270E
2-Chloronaphthalene	EPA 8270E
Hexachlorobenzene	EPA 8270E
Hexachlorobutadiene	EPA 8270E
Hexachlorocyclopentadiene	EPA 8270E
Hexachloroethane	EPA 8260D
	EPA 8270E
Hexachlorophene	EPA 8270E
Hexachloropropene	EPA 8270E
Pentachlorobenzene	EPA 8270E

Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 8270E
4-Bromophenylphenyl ether	EPA 8270E
4-Chlorophenylphenyl ether	EPA 8270E
Bis(2-chloroethoxy)methane	EPA 8270E
Bis(2-chloroethyl)ether	EPA 8270E

Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthene Low Level	EPA 8270E SIM

Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthylene Low Level	EPA 8270E SIM
Anthracene Low Level	EPA 8270E SIM
Benzo(a)anthracene Low Level	EPA 8270E SIM
Benzo(a)pyrene Low Level	EPA 8270E SIM
Benzo(b)fluoranthene Low Level	EPA 8270E SIM
Benzo(g,h,i)perylene Low Level	EPA 8270E SIM
Benzo(k)fluoranthene Low Level	EPA 8270E SIM
Chrysene Low Level	EPA 8270E SIM
Dibenzo(a,h)anthracene Low Level	EPA 8270E SIM
Fluoranthene Low Level	EPA 8270E SIM
Fluorene Low Level	EPA 8270E SIM
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270E SIM
Naphthalene Low Level	EPA 8270E SIM
Phenanthrene Low Level	EPA 8270E SIM
Pyrene Low Level	EPA 8270E SIM

Metals I

Barium, Total	EPA 6010D
	EPA 6020B
Cadmium, Total	EPA 6010D
	EPA 6020B
Calcium, Total	EPA 6010D
	EPA 6020B
Chromium, Total	EPA 6010D
	EPA 6020B
Copper, Total	EPA 6010D

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Metals I		Metals II	
Copper, Total	EPA 6020B	Arsenic, Total	EPA 6020B
Iron, Total	EPA 6010D	Beryllium, Total	EPA 6010D
	EPA 6020B		EPA 6020B
Lead, Total	EPA 6010D	Chromium VI	EPA 7196A
	EPA 6020B	Lithium, Total	EPA 6010D
	EPA 7000B	Mercury, Total	EPA 7471B
Magnesium, Total	EPA 6010D	Selenium, Total	EPA 6010D
	EPA 6020B		EPA 6020B
Manganese, Total	EPA 6010D	Vanadium, Total	EPA 6010D
	EPA 6020B		EPA 6020B
Nickel, Total	EPA 6010D	Zinc, Total	EPA 6010D
	EPA 6020B		EPA 6020B
Potassium, Total	EPA 6010D	Metals III	
	EPA 6020B	Cobalt, Total	EPA 6010D
Silver, Total	EPA 6010D		EPA 6020B
	EPA 6020B	Molybdenum, Total	EPA 6010D
Sodium, Total	EPA 6010D		EPA 6020B
Strontium, Total	EPA 6010D	Thallium, Total	EPA 6010D
	EPA 6020B		EPA 6020B
Metals II		Tin, Total	EPA 6010D
Aluminum, Total	EPA 6010D		EPA 6020B
	EPA 6020B	Titanium, Total	EPA 6010D
Antimony, Total	EPA 6010D		EPA 6020B
	EPA 6020B	Minerals	
Arsenic, Total	EPA 6010D	Bromide	EPA 9056A

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Minerals		Nitrosoamines	
Chloride	EPA 9056A	N-Nitrosodiphenylamine	EPA 8270E
Fluoride, Total	EPA 9056A	N-nitrosomethylethylamine	EPA 8270E
Sulfate (as SO ₄)	EPA 9056A	N-nitrosomorpholine	EPA 8270E
Miscellaneous		N-Nitrosopyrrolidine	EPA 8270E
Boron, Total	EPA 6010D	Nutrients	
	EPA 6020B		
Cyanide, Total	EPA 9014		
Phenols	EPA 9065	Nitrate (as N)	EPA 9056A
Sulfide (as S)	EPA 9034	Nitrite (as N)	EPA 9056A
Nitroaromatics and Isophorone		Orthophosphate (as P)	EPA 9056A
1,3,5-Trinitrobenzene	EPA 8270E	Petroleum Hydrocarbons	
1,3-Dinitrobenzene	EPA 8270E	Diesel Range Organics	EPA 8015D
1,4-Naphthoquinone	EPA 8270E	Gasoline Range Organics	EPA 8015D
2,4-Dinitrotoluene	EPA 8270E	Oil and Grease Total Recoverable (HEM)	EPA 9071B (Solvent:Hexane)
2,6-Dinitrotoluene	EPA 8270E	Phthalate Esters	
4-Nitroquinoline-1-oxide	EPA 8270E	Benzyl butyl phthalate	EPA 8270E
Isophorone	EPA 8270E	Bis(2-ethylhexyl) phthalate	EPA 8270E
Nitrobenzene	EPA 8260D	Diethyl phthalate	EPA 8270E
	EPA 8270E	Dimethyl phthalate	EPA 8270E
Nitrosoamines		Di-n-butyl phthalate	EPA 8270E
N-Nitrosodiethylamine	EPA 8270E	Di-n-octyl phthalate	EPA 8270E
N-Nitrosodimethylamine	EPA 8270E	Polychlorinated Biphenyls	
N-Nitrosodi-n-butylamine	EPA 8270E	Aroclor 1016 (PCB-1016)	EPA 8082A
N-Nitrosodi-n-propylamine	EPA 8270E	Aroclor 1221 (PCB-1221)	EPA 8082A
		Aroclor 1232 (PCB-1232)	EPA 8082A
		Aroclor 1242 (PCB-1242)	EPA 8082A

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Polychlorinated Biphenyls

Aroclor 1248 (PCB-1248)	EPA 8082A
Aroclor 1254 (PCB-1254)	EPA 8082A
Aroclor 1260 (PCB-1260)	EPA 8082A
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A
PCB 1	EPA 8082A
PCB 101	EPA 8082A
PCB 110	EPA 8082A
PCB 138	EPA 8082A
PCB 141	EPA 8082A
PCB 151	EPA 8082A
PCB 153	EPA 8082A
PCB 170	EPA 8082A
PCB 18	EPA 8082A
PCB 180	EPA 8082A
PCB 183	EPA 8082A
PCB 187	EPA 8082A
PCB 206	EPA 8082A
PCB 31	EPA 8082A
PCB 44	EPA 8082A
PCB 5	EPA 8082A
PCB 52	EPA 8082A
PCB 66	EPA 8082A
PCB 87	EPA 8082A

Polynuclear Aromatic Hydrocarbons

2-Acetylaminofluorene	EPA 8270E
Acenaphthene	EPA 8270E
Acenaphthylene	EPA 8270E
Anthracene	EPA 8270E
Benzo(a)anthracene	EPA 8270E
Benzo(a)pyrene	EPA 8270E
Benzo(b)fluoranthene	EPA 8270E
Benzo(g,h,i)perylene	EPA 8270E
Benzo(k)fluoranthene	EPA 8270E
Chrysene	EPA 8270E
Dibenzo(a,h)anthracene	EPA 8270E
Fluoranthene	EPA 8270E
Fluorene	EPA 8270E
Indeno(1,2,3-cd)pyrene	EPA 8270E
Naphthalene	EPA 8270E
Phenanthrene	EPA 8270E
Pyrene	EPA 8270E

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270E
2,4,5-Trichlorophenol	EPA 8270E
2,4,6-Trichlorophenol	EPA 8270E
2,4-Dichlorophenol	EPA 8270E
2,4-Dimethylphenol	EPA 8270E
2,4-Dinitrophenol	EPA 8270E
2,6-Dichlorophenol	EPA 8270E

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Priority Pollutant Phenols

2-Chlorophenol	EPA 8270E
2-Methyl-4,6-dinitrophenol	EPA 8270E
2-Methylphenol	EPA 8270E
2-Nitrophenol	EPA 8270E
3-Methylphenol	EPA 8270E
4-Chloro-3-methylphenol	EPA 8270E
4-Methylphenol	EPA 8270E
4-Nitrophenol	EPA 8270E
Pentachlorophenol	EPA 8270E
Phenol	EPA 8270E

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270E
1,2-Dichlorobenzene, Semi-volatile	EPA 8270E
1,3-Dichlorobenzene, Semi-volatile	EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270E
2-Methylnaphthalene	EPA 8270E
2-Picoline	EPA 8270E
4-Amino biphenyl	EPA 8270E
Acetophenone	EPA 8270E
Aramite	EPA 8270E
Benzaldehyde	EPA 8270E
Benzoic Acid	EPA 8270E
Benzyl alcohol	EPA 8270E
Caprolactam	EPA 8270E
Dibenzofuran	EPA 8270E

Semi-Volatile Organics

Ethyl methanesulfonate	EPA 8270E
Methyl methanesulfonate	EPA 8270E
Phenacetin	EPA 8270E
Safrole	EPA 8270E

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260D
1,2,4-Trimethylbenzene	EPA 8260D
1,2-Dichlorobenzene	EPA 8260D
1,3,5-Trimethylbenzene	EPA 8260D
1,3-Dichlorobenzene	EPA 8260D
1,4-Dichlorobenzene	EPA 8260D
2-Chlorotoluene	EPA 8260D
4-Chlorotoluene	EPA 8260D
Benzene	EPA 8260D
Bromobenzene	EPA 8260D
Chlorobenzene	EPA 8260D
Ethyl benzene	EPA 8260D
Isopropylbenzene	EPA 8260D
m/p-Xylenes	EPA 8260D
Naphthalene, Volatile	EPA 8260D
n-Butylbenzene	EPA 8260D
n-Propylbenzene	EPA 8260D
o-Xylene	EPA 8260D
p-Isopropyltoluene (P-Cymene)	EPA 8260D
sec-Butylbenzene	EPA 8260D

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Volatile Aromatics

Styrene	EPA 8260D
tert-Butylbenzene	EPA 8260D
Toluene	EPA 8260D
Total Xylenes	EPA 8260D

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260D
1,1,1-Trichloroethane	EPA 8260D
1,1,2,2-Tetrachloroethane	EPA 8260D
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260D
1,1,2-Trichloroethane	EPA 8260D
1,1-Dichloroethane	EPA 8260D
1,1-Dichloroethene	EPA 8260D
1,1-Dichloropropene	EPA 8260D
1,2,3-Trichloropropane	EPA 8260D
1,2-Dibromo-3-chloropropane	EPA 8260D
1,2-Dibromoethane	EPA 8260D
1,2-Dichloroethane	EPA 8260D
1,2-Dichloropropane	EPA 8260D
1,3-Dichloropropane	EPA 8260D
2,2-Dichloropropane	EPA 8260D
2-Chloroethylvinyl ether	EPA 8260D
Bromochloromethane	EPA 8260D
Bromodichloromethane	EPA 8260D
Bromoform	EPA 8260D
Bromomethane	EPA 8260D

Volatile Halocarbons

Carbon tetrachloride	EPA 8260D
Chloroethane	EPA 8260D
Chloroform	EPA 8260D
Chloromethane	EPA 8260D
cis-1,2-Dichloroethene	EPA 8260D
cis-1,3-Dichloropropene	EPA 8260D
Dibromochloromethane	EPA 8260D
Dibromomethane	EPA 8260D
Dichlorodifluoromethane	EPA 8260D
Hexachlorobutadiene, Volatile	EPA 8260D
Methyl iodide	EPA 8260D
Methylene chloride	EPA 8260D
Tetrachloroethene	EPA 8260D
trans-1,2-Dichloroethene	EPA 8260D
trans-1,3-Dichloropropene	EPA 8260D
trans-1,4-Dichloro-2-butene	EPA 8260D
Trichloroethene	EPA 8260D
Trichlorofluoromethane	EPA 8260D
Vinyl chloride	EPA 8260D

Volatile Organics

2-Butanone (Methylethyl ketone)	EPA 8260D
2-Hexanone	EPA 8260D
4-Methyl-2-Pentanone	EPA 8260D
Acetone	EPA 8260D
Acetonitrile	EPA 8260D

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All approved analytes are listed below:*

Volatile Organics

Carbon Disulfide	EPA 8260D
Ethylene Glycol	EPA 8015C
Methyl acetate	EPA 8260D
Methyl tert-butyl ether	EPA 8260D
o-Toluidine	EPA 8270E
tert-butyl alcohol	EPA 8260D
Vinyl acetate	EPA 8260D



Sample Preparation Methods

EPA 5035A-L
EPA 5035A-H
EPA 9030B
EPA 3010A
EPA 3005A
EPA 3050B
EPA 3550C
EPA 3540C
EPA 3546
EPA 3051A
EPA 3585
EPA 3060A
EPA 3541
EPA 9010C

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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 6010C EPA 7000B

Sample Preparation Methods

EPA 3050B
EPA 3051A

Serial No.: 62818

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2022
Issued April 01, 2021

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. PHILLIP M. WORBY
EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:*

Acrylates

Acetonitrile	EPA TO-15
Acrylonitrile	EPA TO-15
Ethyl acrylate	EPA TO-15
Methyl methacrylate	EPA TO-15

Chlorinated Hydrocarbons

Hexachlorobutadiene	EPA TO-15
Hexachloroethane	EPA TO-15

Miscellaneous

Formaldehyde	EPA TO-15
Radon	Charcoal - Liquid Scintillation

Polychlorinated Biphenyls

PCBs and Aroclors	EPA TO-10A EPA TO-4A

Polynuclear Aromatics

Naphthalene	EPA TO-15

Priority Pollutant Phenols

Phenol	EPA TO-15

Purgeable Aromatics

1,2,4-Trimethylbenzene	EPA TO-15
1,2-Dichlorobenzene	EPA TO-15
1,3,5-Trimethylbenzene	EPA TO-15
1,3-Dichlorobenzene	EPA TO-15
1,4-Dichlorobenzene	EPA TO-15

Purgeable Aromatics

2-Chlorotoluene	EPA TO-15
Benzene	EPA TO-15
Chlorobenzene	EPA TO-15
Ethyl benzene	EPA TO-15
Isopropylbenzene	EPA TO-15
m/p-Xylenes	EPA TO-15
o-Xylene	EPA TO-15
Styrene	EPA TO-15
Toluene	EPA TO-15
Total Xylenes	EPA TO-15

Purgeable Halocarbons

1,1,1-Trichloroethane	EPA TO-15
1,1,2,2-Tetrachloroethane	EPA TO-15
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA TO-15
1,1,2-Trichloroethane	EPA TO-15
1,1-Dichloroethane	EPA TO-15
1,1-Dichloroethene	EPA TO-15
1,2-Dibromo-3-chloropropane	EPA TO-15
1,2-Dibromoethane	EPA TO-15
1,2-Dichloroethane	EPA TO-15
1,2-Dichloropropane	EPA TO-15
3-Chloropropene (Allyl chloride)	EPA TO-15
Bromodichloromethane	EPA TO-15
Bromoform	EPA TO-15
Bromomethane	EPA TO-15

Serial No.: 62819

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2022
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MR. PHILLIP M. WORBY
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200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

is hereby **APPROVED** as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:

Purgeable Halocarbons

Carbon tetrachloride	EPA TO-15
Chloroethane	EPA TO-15
Chloroform	EPA TO-15
Chloromethane	EPA TO-15
cis-1,2-Dichloroethene	EPA TO-15
cis-1,3-Dichloropropene	EPA TO-15
Dibromochloromethane	EPA TO-15
Dichlorodifluoromethane	EPA TO-15
Methylene chloride	EPA TO-15
Tetrachloroethene	EPA TO-15
trans-1,2-Dichloroethene	EPA TO-15
trans-1,3-Dichloropropene	EPA TO-15
Trichloroethene	EPA TO-15
Trichlorofluoromethane	EPA TO-15
Vinyl bromide	EPA TO-15
Vinyl chloride	EPA TO-15

Volatile Organics

4-Methyl-2-Pentanone	EPA TO-15
Acetaldehyde	EPA TO-15
Acetone	EPA TO-15
Acrolein (Propenal)	EPA TO-15
Carbon Disulfide	EPA TO-15
Cyclohexane	EPA TO-15
Hexane	EPA TO-15
Isopropanol	EPA TO-15
Methanol	EPA TO-15
Methyl iodide	EPA TO-15
Methyl tert-butyl ether	EPA TO-15
n-Heptane	EPA TO-15
Nitrobenzene	EPA TO-15
Propionaldehyde	EPA TO-15
tert-butyl alcohol	EPA TO-15
Vinyl acetate	EPA TO-15

Volatile Chlorinated Organics

Benzyl chloride	EPA TO-15
Epichlorohydrin	EPA TO-15

Volatile Organics

1,2-Dichlorotetrafluoroethane	EPA TO-15
1,3-Butadiene	EPA TO-15
1,4-Dioxane	EPA TO-15
2,2,4-Trimethylpentane	EPA TO-15
2-Butanone (Methylethyl ketone)	EPA TO-15

Serial No.: 62819

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



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MR. PHILLIP M. WORBY
EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

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

Chlorinated Hydrocarbon Pesticides

Chlordane Total NIOSH 5510

Metals I

Lead, Total NIOSH 7082
40 CFR PART 50 2013 APP G

Metals II

Mercury, Total NIOSH 6009

Miscellaneous

Asbestos 40 CFR 763 APX A No. III
YAMATE, AGARWAL GIBB
NIOSH 7402
Fibers NIOSH 7400 A RULES
Particulate Matter 40 CFR PART 50 APP B
40 CFR PART 50 APP J (PM10)

Polychlorinated Biphenyls

PCBs and Aroclors NIOSH 5503

Purgeable Aromatics

Benzene NIOSH 1501
Toluene NIOSH 1501
Total Xylenes NIOSH 1501

Sample Preparation Methods

40 CFR PART 50 APP G

Serial No.: 62820

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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

LiRo Engineers, Inc.
690 Delaware Avenue
Buffalo, NY 14209

FILE NUMBER: 99-1147
LICENSE NUMBER: 28866
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 12/22/2020
EXPIRATION DATE: 12/31/2021

Duly Authorized Representative – Robert Kreuzer:

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

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



JOHN F SEWARD III

CLASS(EXPIRES)

C ATEC(02/22) D INSP(02/22)

H PM (02/22)

CERT# 15-20772

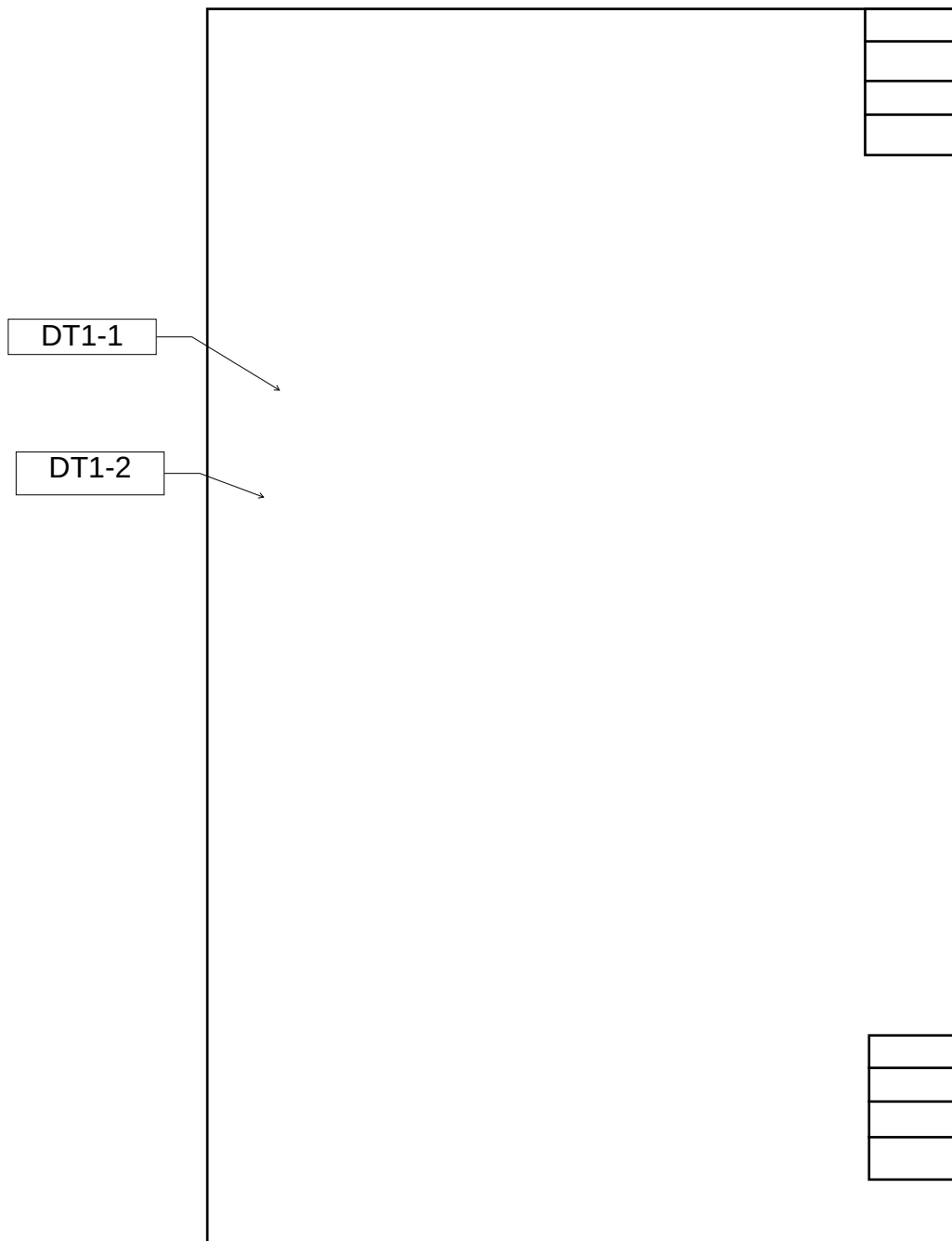
DMV# 323384175

MUST BE CARRIED ON ASBESTOS PROJECTS



APPENDIX D:
BULK SAMPLE LOCATION DRAWINGS

SAMPLE LOCATION DRAWING- 46 CANAL STREET- BASEMENT

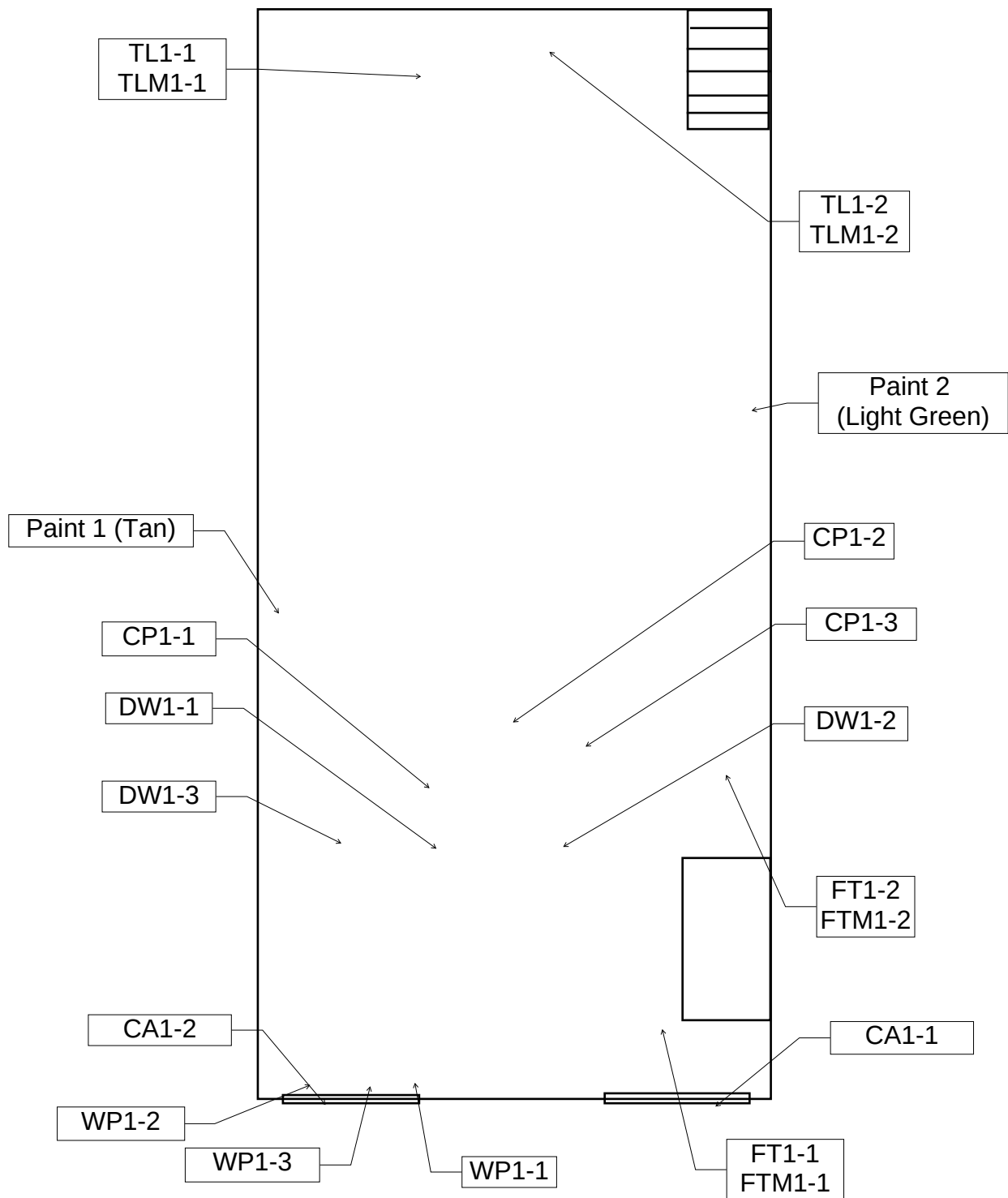


LEGEND

RED- Indicates Positive Sample

BLACK- Indicates Negative Sample

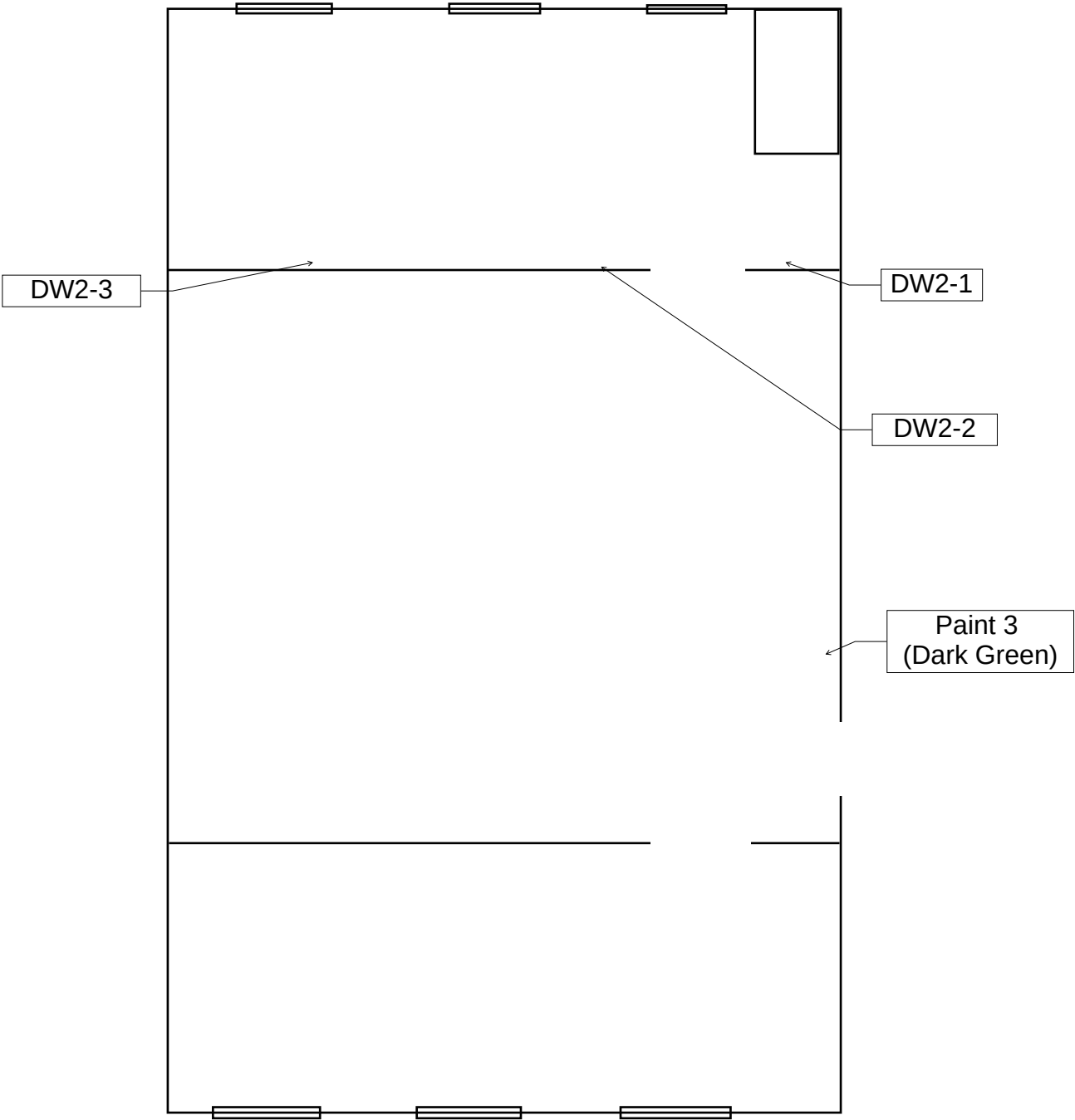
SAMPLE LOCATION DRAWING- 46 CANAL STREET, 1st FLOOR



LEGEND

RED- Indicates Positive Sample
BLACK- Indicates Negative Sample

SAMPLE LOCATION DRAWING-46 CANAL STREET- 2nd FLOOR



LEGEND

RED- Indicates Positive Sample

BLACK- Indicates Negative Sample

ASBESTOS LEAD PAINT AND PCB CAULK SURVEY REPORT

**Abandoned Building
58-66 Canal Street
Lyons, Wayne County, New York**

Prepared For:

Wayne County
Contact: Brian Pincelli
9 Pearl Street, 2nd Floor
Lyons, New York 14489

Prepared By:

Lu Engineers
339 East Avenue, Suite 200
Rochester, New York 14604

July 2022

Project No. 50514-01



ASBESTOS, LEAD PAINT AND PCB CAULK SURVEY REPORT

Abandoned Building
58-66 Canal Street
Lyons, Wayne County, New York

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ATTACHMENTS

ATTACHMENT A	Licenses and Certifications
ATTACHMENT B	Field Data Sheet and Roof Core Profiles
ATTACHMENT C	Sample Location Plans, Analytical Reports, and Chain of Custody Forms
ATTACHMENT D	Asbestos Location Plans and Asbestos Inspection Summary Table

ATTACHMENTS (cont'd)

ATTACHMENT E

Previous Survey Report

1.0 INTRODUCTION AND PROJECT OVERVIEW

Lu Engineers was retained by Wayne County to provide an asbestos, lead paint and PCB caulk survey of the building located at 58-66 Canal Street, in Lyons, Wayne County, New York. This survey was performed in anticipation of demolition of the building.

The asbestos, lead paint and PCB caulk survey was conducted on June 16, 2022, and June 29, 2022. The intent of this survey was to determine the presence and quantity of asbestos containing materials, lead paint and PCB containing caulk. The asbestos survey was conducted in accordance with New York State Department of Labor (NYSDOL) Industrial Code Rule (ICR) 56 by certified inspectors from Lu Engineers. A copy of Lu Engineers' license and inspectors' certifications can be found in Attachment A.

1.1 Records Review

The following reports were reviewed as part of this survey and pertinent results were incorporated:

- *Asbestos-Containing and Hazardous Materials Inspection Report for 58-66 Canal Street prepared by LiRo Engineers, Inc., dated September 17th, 2021.* This report identified the following materials as asbestos containing:
 - o *White Duct Tape Sealant*
 - o *Black Sink Mastic (Undercoating)*
 - o *Various 9" x 9" Floor Tiles with Associated Black Mastic*
 - o *Red Linoleum with Associated Black Mastic*
 - o *Green Linoleum*
 - o *Roofing, Felt Paper and Tar (Assumed)*

Previous reports and analytical results can be found in Attachment F

2.0 SITE INSPECTION

2.1 Asbestos

One of the purposes of the visual inspection was to identify homogeneous areas of suspect asbestos containing materials that exist throughout the area of inspection, as defined in the scope of work. The Asbestos Hazard Emergency Response Act (AHERA) regulations define a homogeneous area as, "... an area of surfacing material, thermal insulation material, or miscellaneous material that is uniform in color and texture." Furthermore, homogeneous areas should consist of the same age and application.

The inspectors identified homogeneous areas that were present within the building. The suspect asbestos materials were given a homogeneous identification number based on color and texture of the material. A list of homogeneous area numbers of the materials encountered is included with the Asbestos Result Table in Section 3.1. Each room was given an identification (ID) number. The room ID number correlates with the ID number found on the Field Data Sheet in Attachment B. The Field Data Sheet details the specific homogenous materials identified within each room/space. Roof core profiles are also included in Attachment B.

Occupational Safety and Health Administration (OSHA) and 40 CFR 763 Subpart E – Asbestos Hazard Emergency Response Act (AHERA) bulk sampling protocols were followed.

- Three (3) samples of a homogenous surfacing material in quantities of 1,000 Square Feet (SF) or less were collected.
- Five (5) samples of a homogenous surfacing material in quantities greater than 1,000 SF but less than 5,000 SF were collected.
- Seven (7) samples of a homogenous surfacing material in quantities greater than 5,000 SF were collected.
- Three (3) samples of Thermal System Insulation (TSI) material were collected.
- Two (2) samples of each miscellaneous material were collected.

The suspect asbestos containing materials were extracted using various hand tools, containerized and labeled with unique sample identification numbers. Samples were submitted to the laboratory using standard chain of custody protocols.

Paradigm Environmental Services was the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) approved laboratory used for analysis. A copy of Paradigm's credentials is located in Attachment A.

Friable samples were analyzed using NYS ELAP Method 198.1, Polarized Light Microscopy (PLM). Non-friable organically bound (NOB) samples were analyzed using NYS ELAP Method 198.6 (PLM) and, if found to be negative, NYS ELAP Method 198.4, Transmission Electron Microscopy (TEM). All Samples were analyzed via stop positive protocols meaning that once a positive sample of a series was found, the other samples were not analyzed.

Forty-two (42) bulk samples were collected from the building as part of this project.

The sample identification number indicated on the Bulk Sample Location Plan corresponds to the homogeneous ID numbers which are also located on the laboratory analytical report and the chain of custody forms. The Bulk Sample Location Plan, laboratory analytical report and the chain of custody forms are included in Attachment C.

2.2 PCB Caulks

No suspect PCB caulks were sampled during Lu Engineer's site investigation.

2.3 Lead Paint

According to the United States Environmental Protection Agency (EPA), paint is considered lead-based if the concentration is equal to or greater than 0.5% by weight or 1.0 mg/mm².

According to the Occupational Safety and Health Administration (OSHA), lead means metallic lead, all inorganic lead compounds and organic soaps with any concentrations of lead. Therefore, all samples collected are considered lead containing per OSHA standards.

Lead based paint was identified and sampled by LiRo Engineers, Inc. Refer to Attachment E for LiRo's Survey Report with pertinent information.

2.4 Miscellaneous Materials

Suspect miscellaneous hazardous materials were assessed throughout the building. High Intensity Discharge (HID) and fluorescent light bulbs that typically contain mercury, low/high pressure sodium, metal halide, and phosphorus were identified.

Pigeon waste was also identified throughout the buildings. Most of the heavy contamination was located on the second and third floors, with remnants throughout.

3.0 ANALYTICAL RESULTS

3.1 Asbestos Results

As defined by the New York State Department of Labor (NYSDOL) 12 NYCRR 56, a sample is considered to be asbestos containing if it contains greater than 1% asbestos by weight based on laboratory analysis.

A list of Homogeneous Areas (HA) identified for the building area surveyed is included below. The **bold** and *italicized* HA description indicates that the material is positive, based on the sample results.

Homogeneous Area No. (HA)	Description	Condition	Friability	Asbestos Content
1	<i>Brown 9" x 9" Floor Tile</i>	<i>Damaged</i>	<i>NF</i>	<i>Note 4</i>
2	<i>Black Floor Tile Mastic (under HA #1)</i>	<i>Damaged</i>	<i>NF</i>	<i>Note 4</i>
3	White Sink Undercoating	Damaged	NF	Note 1
4	Black Sink Undercoating	Damaged	NF	NAD

Homogeneous Area No. (HA)	Description	Condition	Friability	Asbestos Content
5	Grey Drywall	Damaged	F	Note 3
6	Tan Carpet Mastic	Damaged	NF	Trace Chrysotile <1.0%
7	Brown 9" x 9" Floor Tile	Damaged	NF	Chrysotile 3.9%
8	Black 9" x 9" Floor Tile with Red Streaks	Damaged	NF	Chrysotile 4.5%
9	Black Floor Tile Mastic	Damaged	NF	Chrysotile 2.8%
10	Tan Adhesive	Damaged	NF	NAD
11	White Joint Compound (with HA #5)	Damaged	NF	Note 3
12	Black Braided Wiring	Damaged	NF	NAD
13	Tan Parge Coating	Damaged	NF	NAD
14	Black Sink Undercoating	Damaged	NF	Chrysotile 5.8%
15	White 9" x 9" Floor Tile	Damaged	NF	Note 4
16	Black Floor Tile Mastic (under HA #15)	Damaged	NF	Note 4
17	Tan Floor Tile Mastic (under HA #22)	Damaged	NF	NAD
18	White Ceramic Floor Tile	Damaged	NF	NAD
19	Grey Grout	Damaged	NF	NAD
20	Yellow Mastic	Damaged	NF	NAD
21	Grey Transite Panel	Damaged	NF	Chrysotile 31%
22	White 12" x 12" Floor Tile	Damaged	NF	Note 3
23	Silver Coating	Damaged	NF	NAD
24	Black Tar Paper	Damaged	NF	Note 2
25	Black Tar	Damaged	NF	NAD
26	Black Tar Paper	Damaged	NF	Chrysotile 1.9%
27	Black Tar	Damaged	NF	Note 2
28	Black Tar Paper	Damaged	NF	Chrysotile 2.5%
29	Mottled Linoleum	Damaged	NF	Note 3
30	Black Mastic (under HA #29)	Damaged	NF	Note 3
31	White Skim Coat Plaster	Damaged	F	Note 3
32	Grey Rough Coat Plaster	Damaged	F	Note 3
33	White 12" x 12" Floor Tile	Damaged	F	Note 3
34	Yellow Mastic (under HA #33)	Damaged	F	Note 3
35	White Window Glaze	Damaged	NF	Note 3
36	Green Linoleum	Damaged	NF	Note 3
37	Yellow Mastic (under HA #36)	Damaged	NF	Note 3
38	Black Sink Mastic	Damaged	NF	Note 4
39	White Wire Jacketing	Damaged	NF	Note 3
40	White Window Caulk	Damaged	NF	Note 3

Homogeneous Area No. (HA)	Description	Condition	Friability	Asbestos Content
41	White Wall Patching	Damaged	F	Note 3
42	Brown 9" x 9" Ceiling Tile	Damaged	F	Note 3
43	<i>Tan Speckled 9" x 9" Floor Tile</i>	<i>Damaged</i>	<i>NF</i>	<i>Note 4</i>
44	<i>Black Floor Tile Mastic (under HA #43)</i>	<i>Damaged</i>	<i>NF</i>	<i>Note 4</i>
45	White Drywall	Damaged	F	Note 3
46	<i>White Duct Tape</i>	<i>Damaged</i>	<i>F</i>	<i>Note 4</i>
47	Marbled Linoleum	Damaged	NF	Note 3
48	-			
49	-			
50	Brick Linoleum	Damaged	NF	Note 3
51	Tan Mastic (under HA #50)	Damaged	NF	Note 3
52	Brown Block Linoleum	Damaged	NF	Note 3
53	Tan Mastic (under HA #52)	Damaged	NF	Note 3
54	<i>Red Linoleum</i>	<i>Damaged</i>	<i>NF</i>	<i>Note 4</i>
55	<i>Black Mastic (under HA #54)</i>	<i>Damaged</i>	<i>NF</i>	<i>Note 4</i>
56	Grey Drywall	Damaged	F	Note 3
57	White Skim Coat	Damaged	F	Note 3
58	White Plaster	Damaged	F	Note 3
59	Grey Plaster	Damaged	F	Note 3
60	White Joint Compound	Damaged	F	Note 3
61	Grey Tile Grout	Damaged	NF	Note 3
62	White Tile Cement	Damaged	NF	Note 3
63	White 2' x 4' Speckled Ceiling Tile	Damaged	F	Note 3
64	<i>Brown 9" x 9" Floor Tile</i>	<i>Damaged</i>	<i>NF</i>	<i>Note 4</i>
65	<i>Black Floor Tile Mastic (under HA #64)</i>	<i>Damaged</i>	<i>NF</i>	<i>Note 4</i>
66	<i>Green Linoleum</i>	<i>Damaged</i>	<i>NF</i>	<i>Note 4</i>
67	Yellow Linoleum Glue	Damaged	NF	Note 3
68	Squared Linoleum	Damaged	NF	Note 3

NAD – No Asbestos Detected

F – Friable; NF – Non-Friable

Note 1 - <1.0% residue remaining, PLM and TEM not required.

Note 2 – Laboratory was unable to separate the Black Tar Paper from the Black Tar on this layer of roofing.

Note 3 – Material was identified and sampled by LiRo Engineering, Inc.; and was determined to not contain asbestos.

Note 4 – Material was identified and sampled by LiRo Engineering, Inc.; and was determined to contain asbestos.

3.2 PCB Caulk Results

EPA defines PCB bulk waste, “as waste derived from manufactured products containing PCBs in a non-liquid state, at any concentration where the concentration at the time of designation for disposal was > 50 ppm PCBs”. Solid wastes containing 50 ppm by weight or greater are listed hazardous wastes in New York State (6 NYCRR Part 371.4(C)).

No suspect PCB caulks were identified or sampled at the time of this survey.

3.3 Lead Paint Results

According to the United States Environmental Protection Agency (EPA), paint is considered lead-based if the concentration is equal to or greater than 0.5% by weight or 1.0 mg/mm².

According to the Occupational Safety and Health Administration (OSHA), lead means metallic lead, all inorganic lead compounds and organic soaps with any concentrations of lead. Therefore, all samples collected are considered lead containing per OSHA standards.

Lead based paint was identified and sampled by LiRo Engineers, Inc. Refer to Attachment E for LiRo’s Survey Report with pertinent information.

4.0 **ASBESTOS MATERIALS AND APPROXIMATE QUANTITIES**

Asbestos exists throughout the inspected areas. Based on the analytical results, the following table identifies the Homogeneous Areas that contain asbestos along with the material description and approximate quantity.

Homogeneous Area No. (HA)	Description	Approximate Quantity
1	Brown 9” x 9” Floor Tile	250 SF ¹
2	Black Floor Tile Mastic (under HA #1)	250 SF ¹
7	Brown 9” x 9” Floor Tile	26 SF
8	Black 9” x 9” Floor Tile with Red Streaks	26 SF
9	Black Floor Tile Mastic	26 SF
14	Black Sink Undercoating	10 SF
15	White 9” x 9” Floor Tile	120 SF ¹
16	Black Floor Tile Mastic (under HA #15)	120 SF ¹
21	Grey Transite Panel	12 SF
26	Black Tar Paper	3,900 SF
28	Black Tar Paper	3,900 SF
38	Black Sink Mastic	5 SF ¹
43	Tan Speckled 9” x 9” Floor Tile	875 SF ¹

Homogeneous Area No. (HA)	Description	Approximate Quantity
44	Black Floor Tile Mastic (under HA #43)	875 SF ¹
46	White Duct Tape	30 SF ¹
54	Red Linoleum	400 SF ¹
55	Black Mastic (under HA #54)	400 SF ¹
64	Brown 9" x 9" Floor Tile	300 SF ¹
65	Black Floor Tile Mastic (under HA #64)	300 SF ¹
66	Green Linoleum	300 SF ¹

SF = Square Feet

LF = Linear Feet

¹ – Quantity was determined by LiRo Engineers, Inc.

5.0 LIMITATIONS OF THE INVESTIGATION

This report has been prepared for the exclusive use of the client. This report relies on information supplied by the building owner, employees, tenants and other sources of information. Lu Engineers has prepared this report in accordance with generally accepted practices within the industry.

This report identifies and assesses the location, quantity, and condition of materials that were accessible and visible at the time of sampling. The condition of the suspect materials is based on the actual inspection date. The quantities indicated in the report are based on the visual inspection and are only estimates of the material present. Additional quantities may exist above ceilings, behind walls or in areas of the building beyond the scope of the survey.

This survey is not intended to be an abatement design. Per NYCRR 56, an abatement design must be completed by a certified Project Designer.

This survey is intended to be a pre-demolition survey. Destructive measures were taken with attempts to identify materials that may be not immediately visible.

6.0 RECOMMENDATIONS

6.1 Asbestos Containing Materials

Asbestos containing materials have been identified as part of this assessment as shown in Section 4.0. The locations of asbestos containing materials and a summary of quantities are included in Attachment D.

NYCRR 56 requires that a copy of this survey be submitted to the local agency where the demolition permit will be issued and the regional office of the New York State Department of Labor. Upon acceptance of this report, Lu Engineers can submit this report to the NYSDOL upon request of the client.

In accordance with 12 NYCRR 56, no renovation or demolition work shall be commenced by any owner or agent prior to completion of asbestos abatement performed by a licensed asbestos abatement contractor. NYSDOL regulations require that the asbestos containing material that will be disturbed by the renovation or demolition be removed prior to any disturbance of the material.

If suspect asbestos containing materials not identified in this asbestos survey report are discovered during the demolition and/or renovation process; it is required that the presence, location and quantity of newly discovered material, be conveyed within twenty-four (24) hours of discovery to the building owner or their representative. All activities must cease in the area where the presumed asbestos containing material or suspect miscellaneous ACM is found, until a licensed asbestos contractor appropriately assesses and manages the discovered materials.

6.2 PCB Caulk

Caulks containing 50 parts per million (ppm) by weight (on a dry weight basis for other than liquid wastes) or greater of PCBs may be listed as hazardous waste in accordance with New York State Department of Conservation regulations (6 NYCRR Part 371). PCB wastes are also regulated by EPA in the 40 CFR Part 761 regulations.

There were no PCB containing caulks identified as part of this survey.

6.3 Lead Paint

According to the United States Environmental Protection Agency (USEPA), paint is considered lead based if the concentration is equal to or greater than 0.5% by weight or 1.0 mg/mm². The Occupational Safety and Health Administration (OSHA) Regulation in 29 CFR 1926.62 considers any amount of lead in paint to be of concern. The regulation states that the employer shall assure that no employee is exposed to lead concentrations greater than fifty micrograms per cubic meter (50 mg/m³) of air averaged over an eight hour period.

Lead Paint was identified as part of this survey that will require special handling and disposal when removed. A lead worker protection specification, consistent with OSHA regulations, is recommended for the project.

6.4 Miscellaneous Materials

According to the New York State Department of Environmental Conservation (NYSDEC), standard fluorescent bulbs may contain mercury and HID light bulbs may contain mercury vapor, high pressure sodium, or metal halide and they must be treated as hazardous waste unless they pass the Toxicity Characteristics Leaching Procedure (TCLP). Lamps that fail the TCLP must be managed in accordance with New York State Hazardous Waste Regulations or the Universal Waste Rule (UWR), 6 NYCRR 374-3.

Light bulbs observed appear to be a mixture of HID and fluorescent bulbs. Disposal of these fixtures shall be according to NYSDEC regulations and the EPA Resource and Recovery Act (RCRA) regulations.

ATTACHMENT A

License and Certifications



ASBESTOS, LEAD PAINT and PCB CAULK SURVEY

ABANDONED BUILDING
58-66 CANAL STREET
LYONS, WAYNE COUNTY, NEW YORK

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

Joseph C. Lu Engineering, P.C.
Suite 200
339 East Avenue
Rochester, NY 14604

FILE NUMBER: 99-0907
LICENSE NUMBER: 29286
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 04/20/2022
EXPIRATION DATE: 04/30/2023

Duly Authorized Representative – Mitchell Smith:

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.

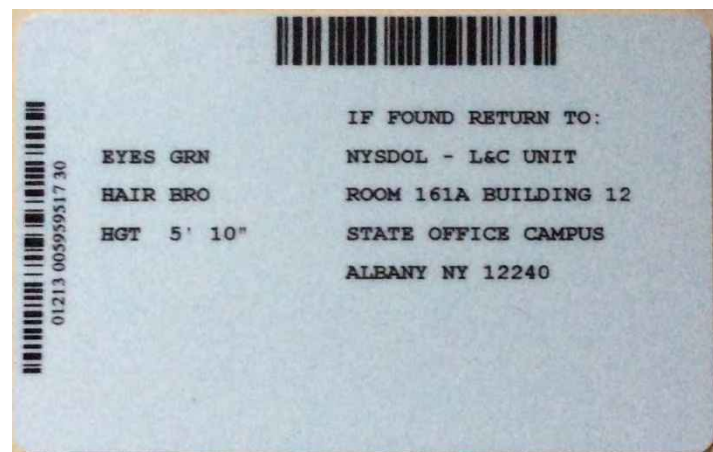
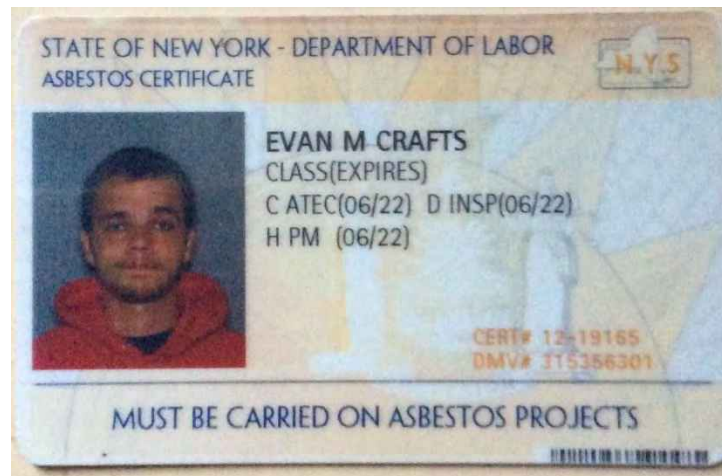
This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate,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



Amy Phillips, Director
For the Commissioner of Labor



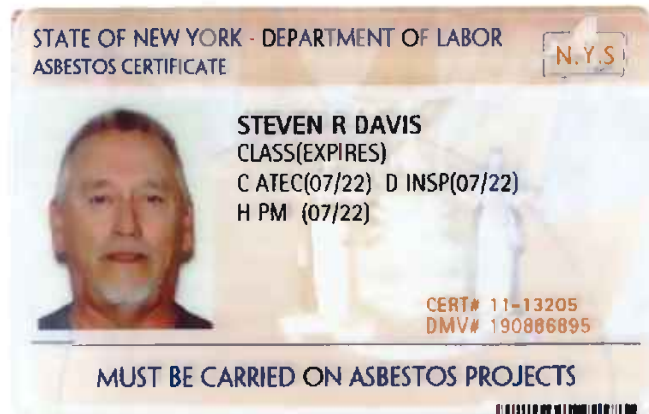
339 East Avenue, Suite 200
Rochester, New York 14604



EVAN CRAFTS
C – Air Sampling Technician
D – Inspector
H – Project Monitor



339 East Avenue, Suite 200
Rochester, New York 14604



EYES GRN
HAIR BRO
HGT 6' 01"

IF FOUND RETURN TO:
NYSDEL - L&C UNIT
ROOM 161A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

Steven Davis
D - Inspector
C - Air Technician
H- Project Monitor

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2023
Issued April 01, 2022

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. STEVE DEVITO
PARADIGM ENVIRONMENTAL SERVICES INC
179 LAKE AVENUE
ROCHESTER, NY 14608

NY Lab Id No: 10958

*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
Lead in Dust Wipes	EPA 6010C
Lead in Paint	EPA 6010C

Sample Preparation Methods

EPA 3050B

Serial No.: 64534

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.

ATTACHMENT B

Field Data Sheet And Roof Core Profiles



ASBESTOS, LEAD PAINT and PCB CAULK SURVEY

ABANDONED BUILDING
58-66 CANAL STREET
LYONS, WAYNE COUNTY, NEW YORK

Field Data Sheet

Building Name: Abandoned Building

Project Number: 50514-01

Building Address: 58-66 Canal Street

Inspection Date: 6/19/2022, 6/29/2022

Lyons, Wayne County, New York

Space I.D.	Walls				Floor	Ceiling	TSI	Miscellaneous	Notes
	N	S	E	W					
58 Canal Street Second Floor	5, 11, 31, 32	5, 11, 31, 32	5, 11, 31, 32	5, 11, 31, 32	1, 2, 29, 30, Wood	31, 32		3, 4, 35	
58 Canal Street Third Floor	5, 11, 31, 32	5, 11, 31, 32	5, 11, 31, 32	5, 11, 31, 32	15, 16, 22, 17, Carpet, 6, 7, 8, 9, Wood	31, 32		3, 4	
60 Canal Street First Floor	5, 11, 31, 32, 42, 10, 45	5, 11, 31, 32, 42, 10, 45	5, 11, 31, 32, 41, 42, 10, 45	5, 11, 31, 32, 42, 10, 45	36, 37, 43, 44	42, 10		38, 39	
62 Canal Street Basement	13, Brick	13, Brick	13, Brick	13, Brick	Dirt	Wood	46		
62 Canal Street First Floor	44, 31, 32	44, 31, 32	44, 31, 32	44, 31, 32	47, 43, 44, 50, 51, 52, 53, 54, 55, Wood	31, 32		12	
64 Canal Street Second Floor Apartment A	56, 57, 58, 59	56, 57, 58, 59	56, 57, 58, 59	56, 57, 58, 59	Ceramic Tile, 61, 62, Wood	63, 57, 58, 59		14	
64 Canal Street Second Floor Apartment B	56, 57, 58, 59	56, 57, 58, 59	56, 57, 58, 59	56, 57, 58, 59	66, Wood	63, 57, 58, 59			
64 Canal Street Second Floor Apartment D	56, 57, 58, 59	56, 57, 58, 59	56, 57, 58, 59	56, 57, 58, 59	64, 65, Wood	63, 57, 58, 59			
64 Canal Street Second Floor Apartment C	56, 57, 58, 59	56, 57, 58, 59	56, 57, 58, 59	56, 57, 58, 59	67, 68, 22, 17, Wood	63, 57, 58, 59			
66 Canal Street Basement	Brick	Brick	Brick	Brick	Dirt	Wood	21		
66 Canal Street First Floor	Wood, 58, 59	Wood, 58, 59	Wood, 58, 59	Wood, 58, 59	18, 19, 20, Concrete	Metal Pan, Fiberglass Tiles, Wood			

Field Data Sheet

Building Name: Abandoned Building

Project Number: 50514-01

Building Address: 58-66 Canal Street

Inspection Date: 6/19/2022, 6/29/2022

Lyons, Wayne County, New York

Space I.D.	Walls				Floor	Ceiling	TSI	Miscellaneous	Notes
	N	S	E	W					
58-66 Canal Street Exterior	Brick	Brick	Brick	Brick	23, 24, 25, 26, 27, 28, Wood (Roof)			40	

ROOF CORE PROFILES
Abandoned Building
58-66 Canal Street, Lyons, Wayne County, New York
July 2022

Core #1 – 58 Canal Street South Side of Roof –
2" Depth

- Silver Coating (HA #23)
- Black Tar Paper (HA #24)
- Black Tar (HA #25)
- ***Black Tar Paper (HA #26)***
- Black Tar (HA #27)
- ***Black Tar Paper (#28)***

Core #2 – Southwest Side of Roof – 2" Depth

- Silver Coating (HA #23)
- Black Tar Paper (HA #24)
- Black Tar (HA #25)
- ***Black Tar Paper (HA #26)***
- Black Tar (HA #27)
- ***Black Tar Paper (#28)***

Lu Project #50514-01



Note:

1. ***Bold & italicized*** layers indicate materials are positive for asbestos.

ATTACHMENT C

*Sample Location Plans,
Analytical Reports and
Chain of Custody Forms*

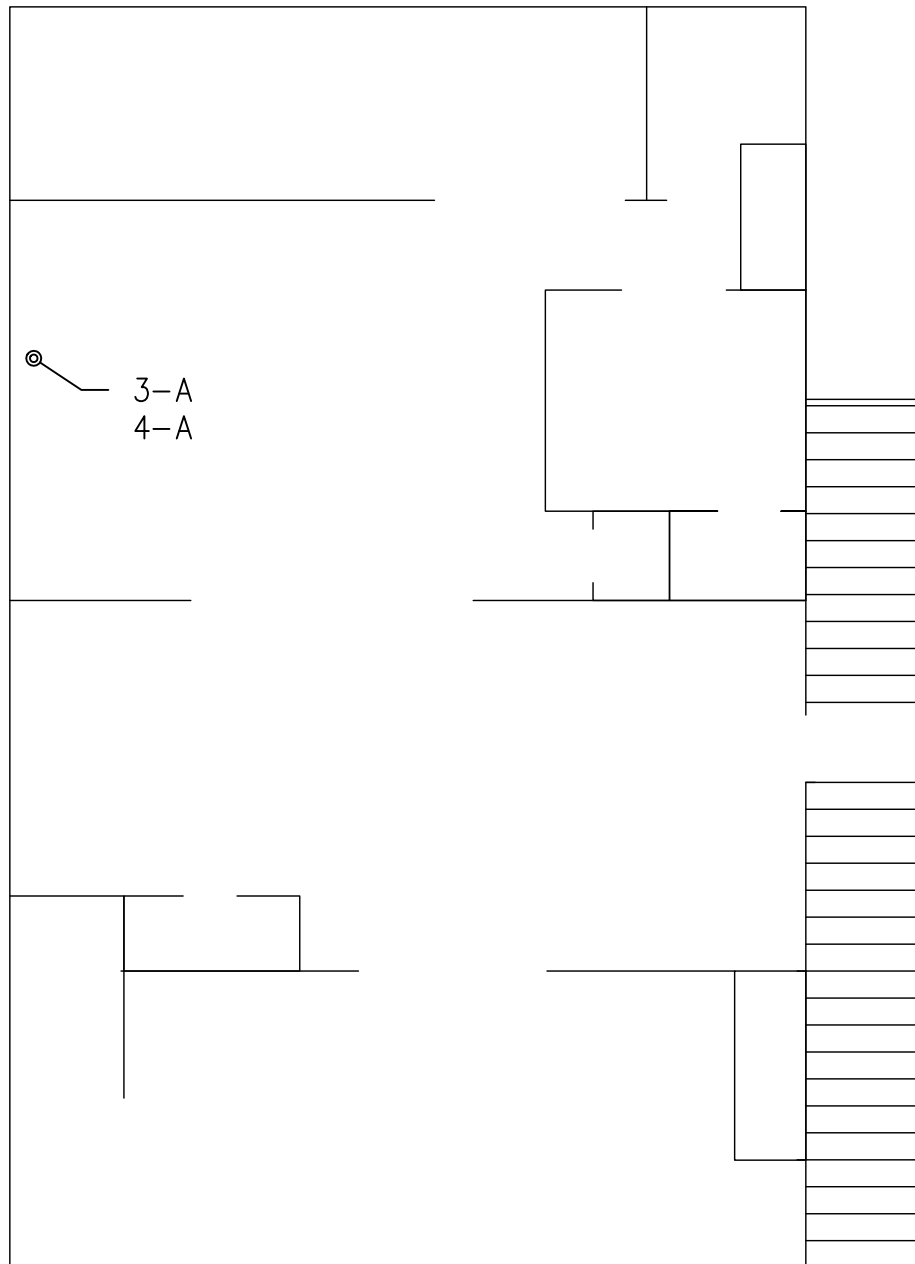


ASBESTOS, LEAD PAINT and PCB CAULK SURVEY

ABANDONED BUILDING

58-66 CANAL STREET

LYONS, WAYNE COUNTY, NEW YORK



LEGEND



1-A

ASBESTOS BULK SAMPLE
LOCATION & SAMPLE NUMBER

FIGURE 1. BULK SAMPLE LOCATION PLAN

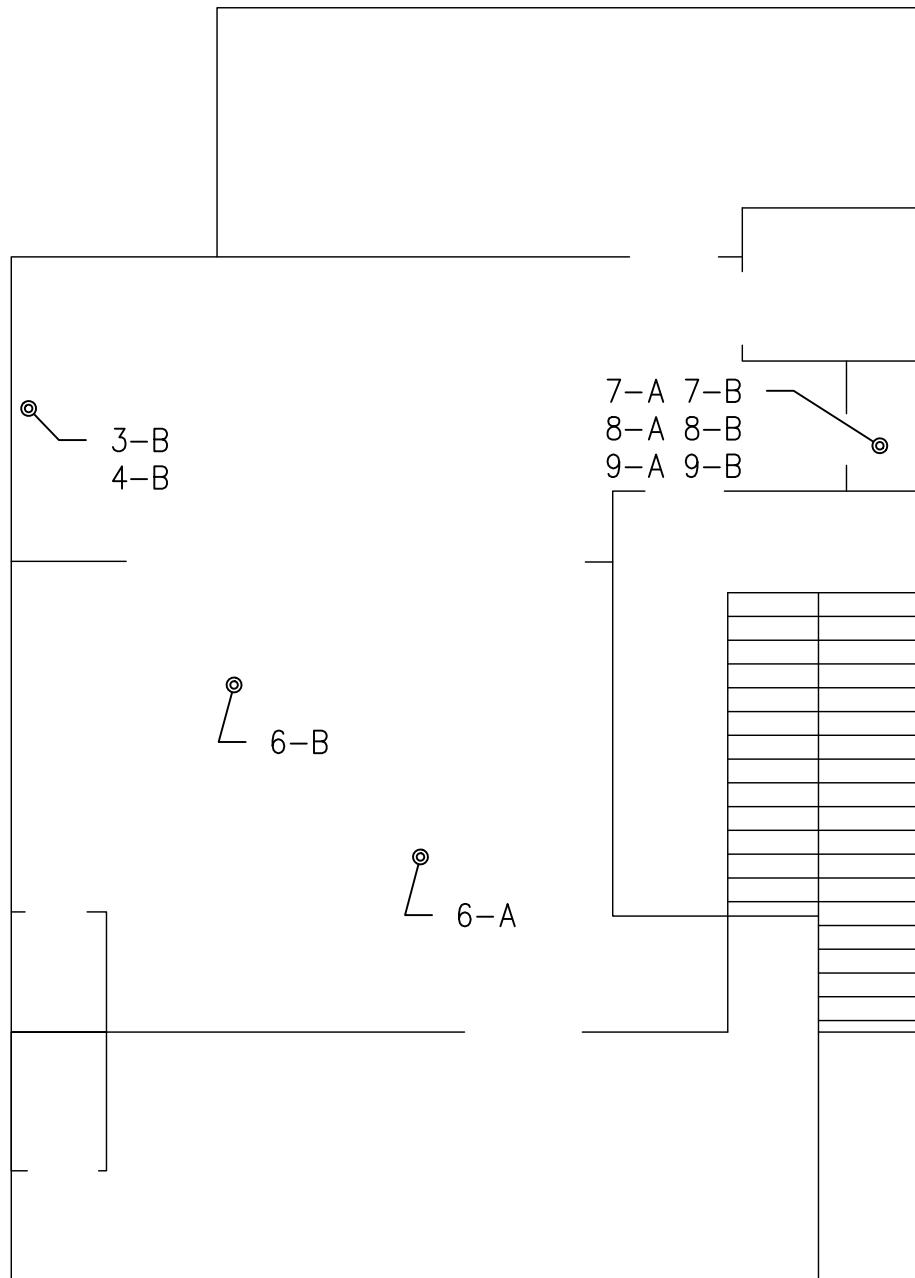
58-66 CANAL STREET
LYONS | WAYNE COUNTY | NEW YORK

58 CANAL STREET SECOND FLOOR PLAN

DATE: JULY 2022

SCALE: N.T.S.

PROJECT NO: 50514-01



LEGEND



1-A

ASBESTOS BULK SAMPLE
LOCATION & SAMPLE NUMBER

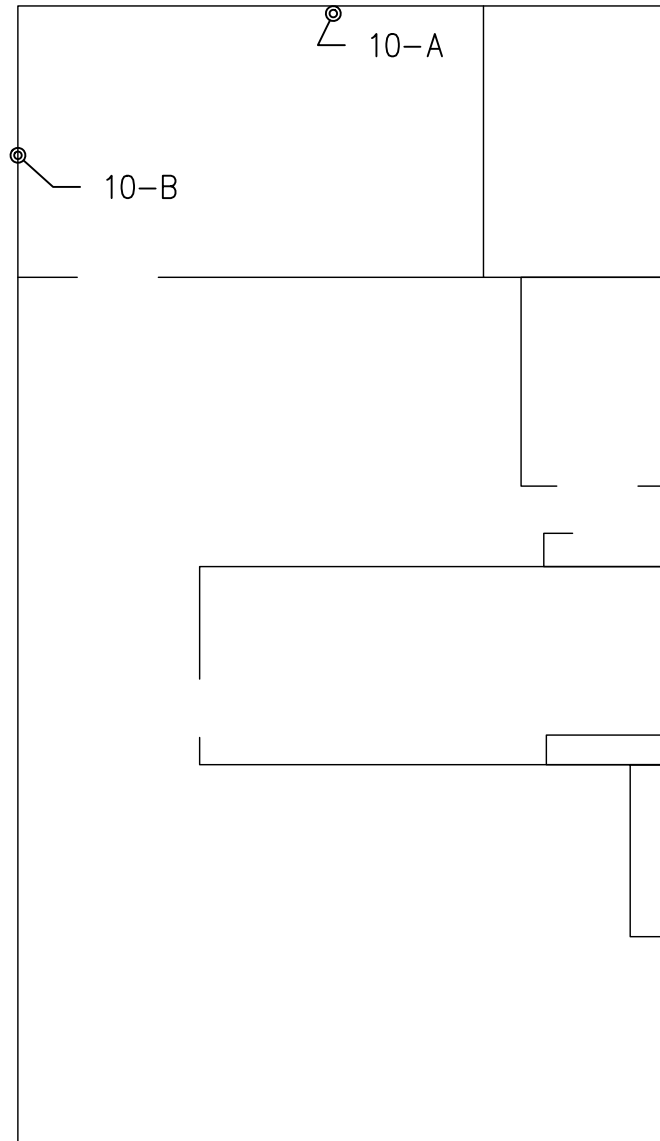
FIGURE 2. BULK SAMPLE LOCATION PLAN

58-66 CANAL STREET
LYONS | WAYNE COUNTY | NEW YORK
58 CANAL STREET THIRD FLOOR PLAN

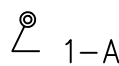
DATE: JULY 2022

SCALE: N.T.S.

PROJECT NO: 50514-01



LEGEND



1-A

ASBESTOS BULK SAMPLE
LOCATION & SAMPLE NUMBER

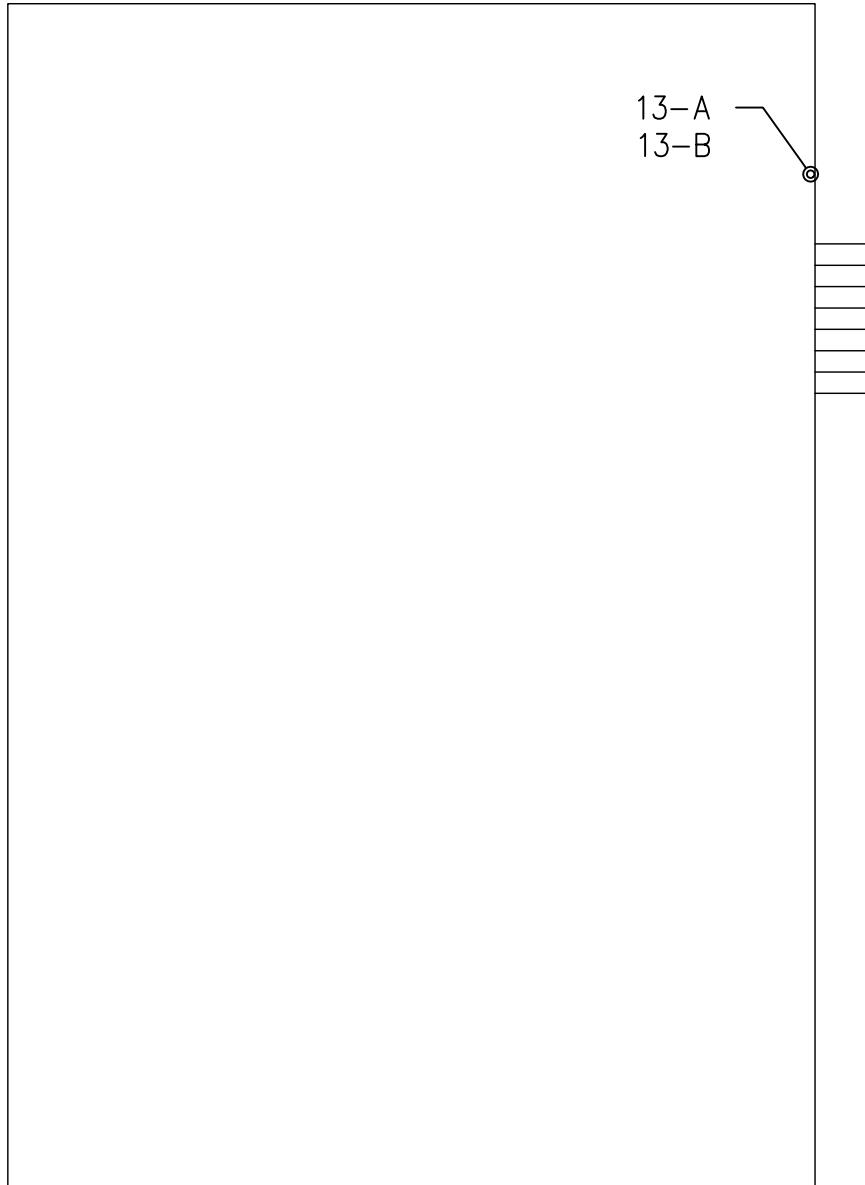
FIGURE 3. BULK SAMPLE LOCATION PLAN

58-66 CANAL STREET
LYONS | WAYNE COUNTY | NEW YORK
60 CANAL STREET FIRST FLOOR PLAN

DATE: JULY 2022

SCALE: N.T.S.

PROJECT NO: 50514-01



LEGEND



ASBESTOS BULK SAMPLE
LOCATION & SAMPLE NUMBER

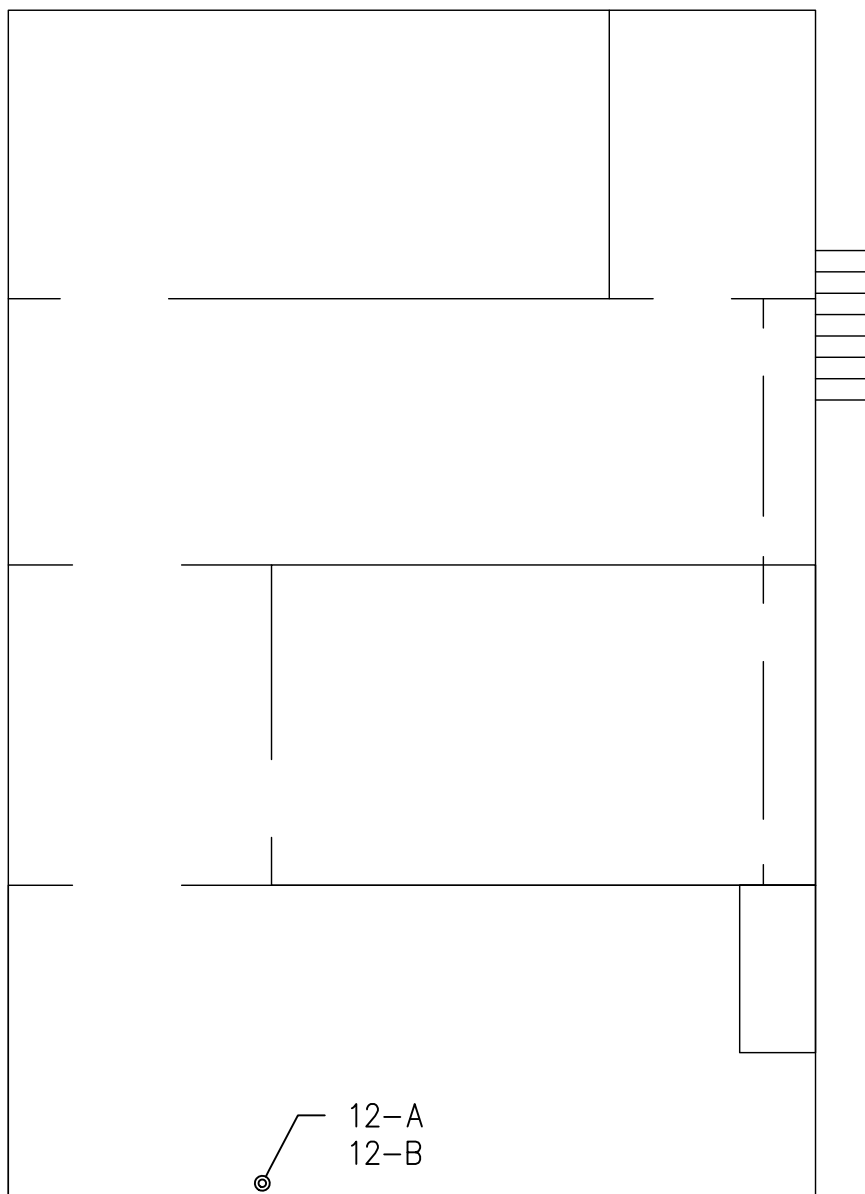
FIGURE 4. BULK SAMPLE LOCATION PLAN

58-66 CANAL STREET
LYONS | WAYNE COUNTY | NEW YORK
62 CANAL STREET BASEMENT PLAN

DATE: JULY 2022

SCALE: N.T.S.

PROJECT NO: 50514-01



LEGEND

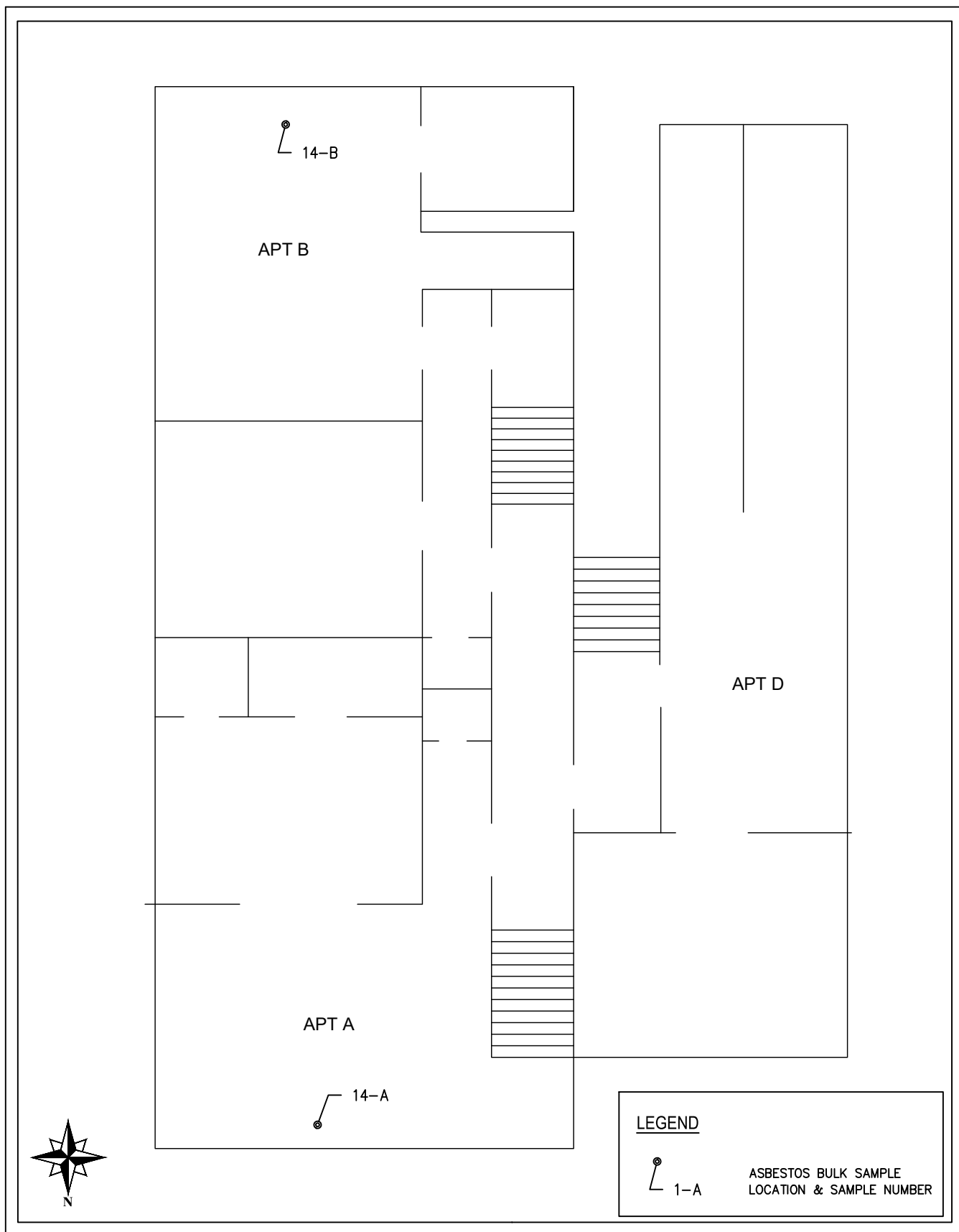


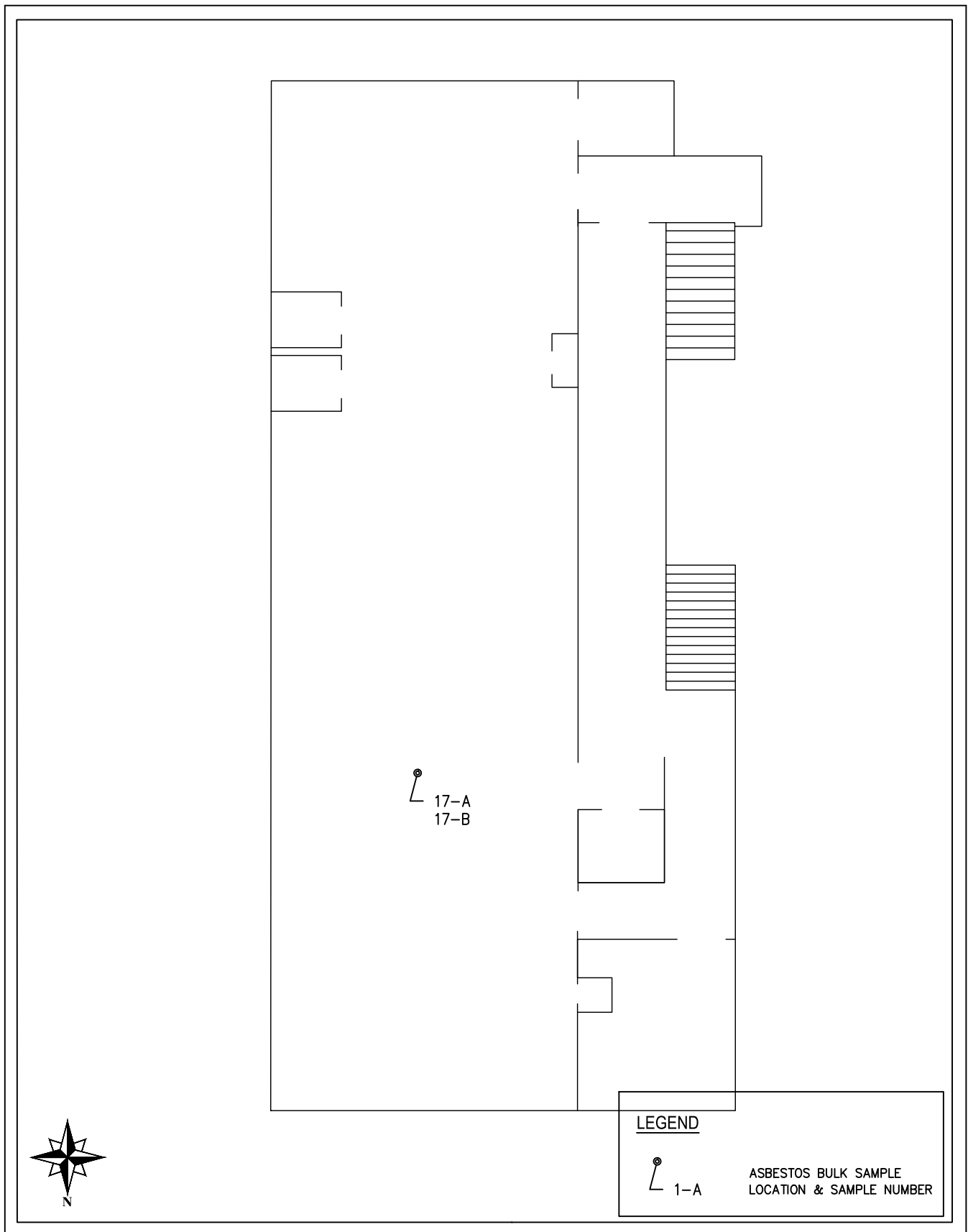
ASBESTOS BULK SAMPLE
LOCATION & SAMPLE NUMBER



FIGURE 5. BULK SAMPLE LOCATION PLAN
58-66 CANAL STREET
LYONS | WAYNE COUNTY | NEW YORK
62 CANAL STREET FIRST FLOOR PLAN

DATE:	JULY 2022
SCALE:	N.T.S.
PROJECT NO:	50514-01





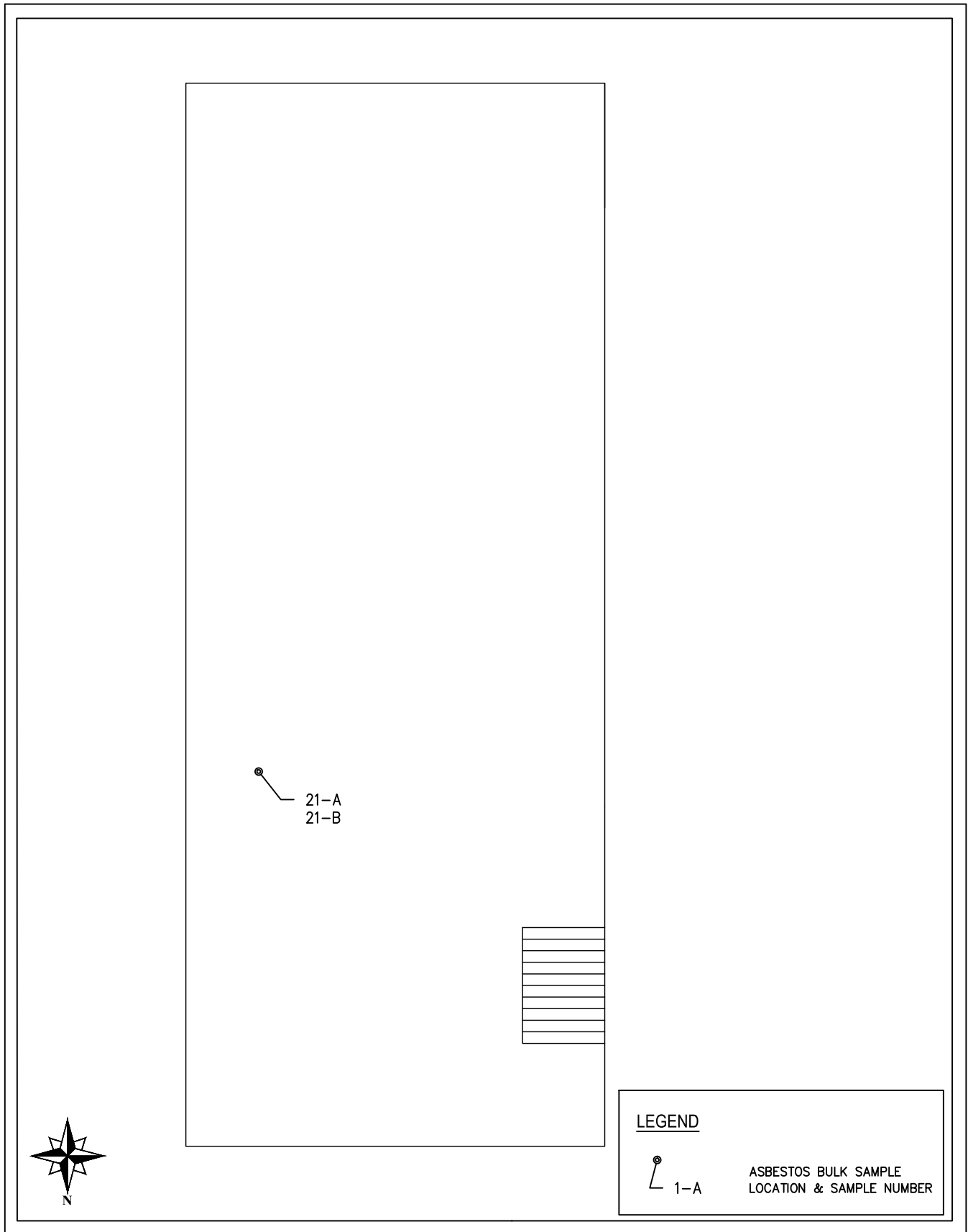


FIGURE 8. BULK SAMPLE LOCATION PLAN

58-66 CANAL STREET
LYONS | WAYNE COUNTY | NEW YORK
66 CANAL STREET BASEMENT FLOOR PLAN

DATE: JULY 2022

SCALE: N.T.S.

PROJECT NO: 50514-01

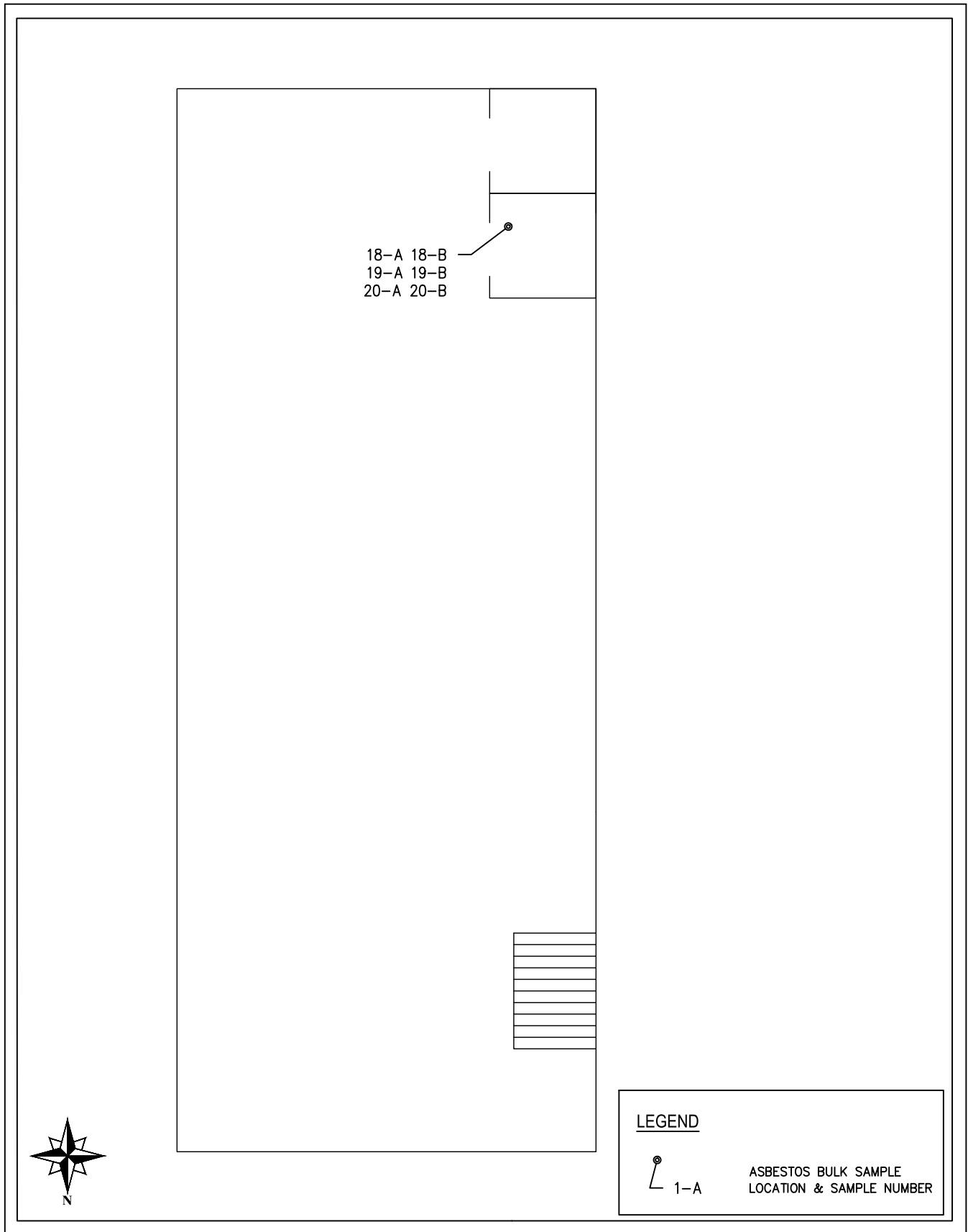


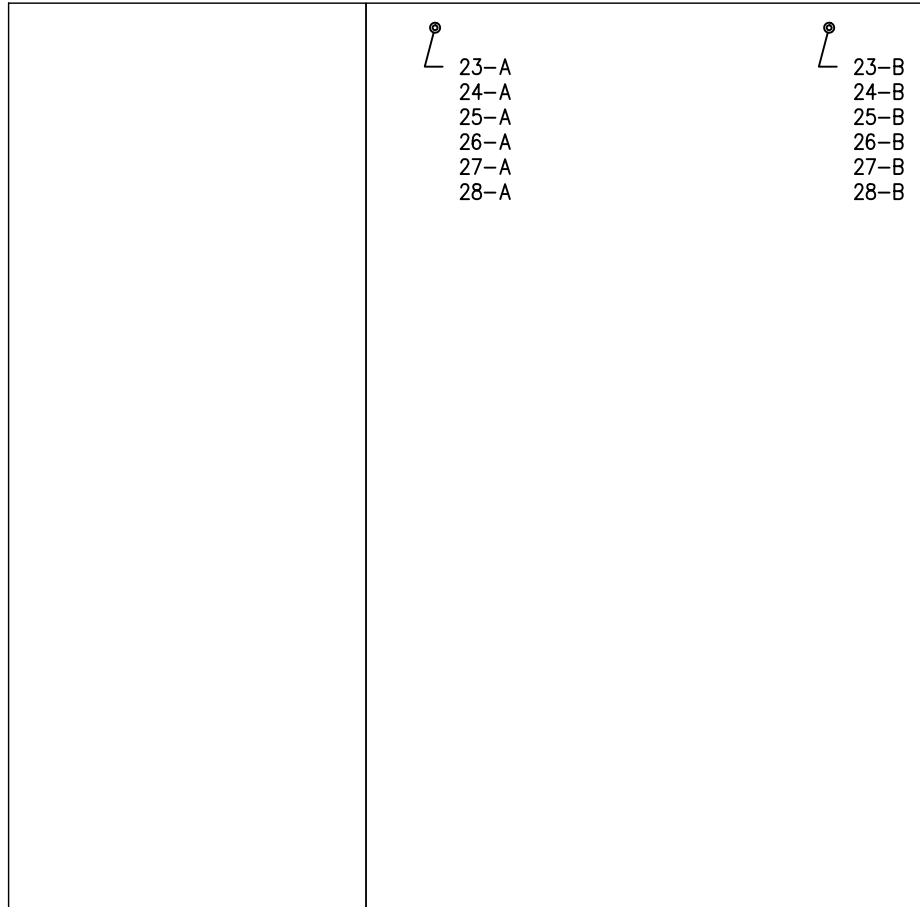
FIGURE 9. BULK SAMPLE LOCATION PLAN

58-66 CANAL STREET
LYONS | WAYNE COUNTY | NEW YORK
66 CANAL STREET FIRST FLOOR PLAN

DATE: JULY 2022

SCALE: N.T.S.

PROJECT NO: 50514-01



LEGEND



ASBESTOS BULK SAMPLE
LOCATION & SAMPLE NUMBER

FIGURE 10. BULK SAMPLE LOCATION PLAN

58-66 CANAL STREET
LYONS | WAYNE COUNTY | NEW YORK
58-66 CANAL STREET EXTERIOR

DATE: JULY 2022

SCALE: N.T.S.

PROJECT NO: 50514-01



PLM & TEM BULK ASBESTOS ANALYSIS REPORT
via NYSDOH ELAP Method 198.1, 198.4 and 198.6

Client: Lu Engineers
Location: Wayne County Land Bank
58-66 Canal Street, Lyons, New York

Job No: 4683-22
Page: 1 of 10

Sample Date: 6/16/2022

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	NOB	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	Non- Fibrous Matrix Material %
3-A	41150	58 Canal Street-Second Floor Kitchen Sink	White Sink Undercoating	<1.0% Residue Remaining. PLM and TEM Not Required.	N/A	X	N/A	N/A	N/A	N/A
3-B	41151	58 Canal Street-Third Floor Kitchen Sink	White Sink Undercoating	<1.0% Residue Remaining. PLM and TEM Not Required.	N/A	X	N/A	N/A	N/A	N/A
4-A	41152	58 Canal Street-Second Floor Kitchen Sink	Black Sink Undercoating	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
4-B	41153	58 Canal Street-Third Floor Kitchen Sink	Black Sink Undercoating	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
6-A	41154	58 Canal Street-Third Floor Living Room	Tan Carpet Mastic	Inconclusive No Asbestos Detected	0%	✓	Trace Chrysotile <1.0%	<1.0%	None Detected	100%
6-B	41155	58 Canal Street-Third Floor Living Room	Tan Carpet Mastic	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
7-A	41156	58 Canal Street-Third Floor Utility Closet	Brown 9"x9" Floor Tile	Chrysotile 3.9%	3.9%	✓	Not Required	N/A	None Detected	96.1%
7-B	41157	58 Canal Street-Third Floor Utility Closet	Brown 9"x9" Floor Tile	STOP	POSITIVE	X	SAMPLE	NOT	ANALYZED	N/A
8-A	41158	58 Canal Street-Third Floor Utility Room	Black 9"x9" Floor Tile with Red Streaks	Chrysotile 4.5%	4.5%	✓	Not Required	N/A	None Detected	95.5%
8-B	41159	58 Canal Street-Third Floor Utility Room	Black 9"x9" Floor Tile with Red Streaks	STOP	POSITIVE	X	SAMPLE	NOT	ANALYZED	N/A

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).

✓ NOB (non-friable organically bound) denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.

✓ denotes material analyzed by ELAP Method 198.6 (PLM) per NYSDOH. This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.

denotes friable material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.

X denotes sample prepped only by ELAP Method 198.6.

** 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.

PLM Bulk Asbestos Analysis by New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.") or EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200530-0).



Lab Code 200530-0 for PLM Analysis

Microscope: Olympus BH-2 #211874

PLM Analyst: T. Bush

Date of Analysis: 7/11/2022

Microscope: JEOL-100CX-II #EM-156094-87

TEM Analyst: M. Lochner

Date of Analysis: 7/12/2022

Laboratory Results Approved By:

Asbestos Technical Director or Designee

Fernanda Weinman

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ELAP ID No.: 10958



PLM & TEM BULK ASBESTOS ANALYSIS REPORT
via NYSDOH ELAP Method 198.1, 198.4 and 198.6

Client: Lu Engineers
Location: Wayne County Land Bank
58-66 Canal Street, Lyons, New York
Sample Date: 6/16/2022

Job No: 4683-22
Page: 2 of 10

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	NOB	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	Non- Fibrous Matrix Material %
9-A	41160	58 Canal Street-Third Floor Utility Room	Black Floor Tile Mastic	Inconclusive No Asbestos Detected	0%	✓	Trace Chrysotile <1.0%	<1.0%	None Detected	100%
9-B	41161	58 Canal Street-Third Floor Utility Room	Black Floor Tile Mastic	Inconclusive No Asbestos Detected	0%	✓	Chrysotile 2.8%	2.8%	None Detected	97.2%
10-A	41162	60 Canal Street-Kitchen at Ceiling	Tan Adhesive	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
10-B	41163	60 Canal Street-Kitchen at Ceiling	Tan Adhesive	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
12-A	41164	62 Canal Street-Front Room	Black Fibrous Braided Wiring	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	Fiberglass 35%	65%
12-B	41165	62 Canal Street-Front Room	Black Fibrous Braided Wiring	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	Fiberglass 35%	65%
13-A	41166	62 Canal Street- Basement at Brick	Tan Parge Coating	None Detected	0%		Not Required	N/A	None Detected	100%
13-B	41167	62 Canal Street- Basement at Brick	Tan Parge Coating	None Detected	0%		Not Required	N/A	None Detected	100%
14-A	41168	64 Canal Street- Apartment A, Kitchen Sink	Black Sink Undercoating	Chrysotile 5.8%	5.8%	✓	Not Required	N/A	None Detected	94.2%
14-B	41169	64 Canal Street- Apartment B, Kitchen Sink	Black Sink Undercoating	STOP	POSITIVE	X	SAMPLE	NOT	ANALYZED	N/A

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).

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⌈ denotes material analyzed by ELAP Method 198.6 (PLM) per NYSDOH. This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.

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Lab Code 200530-0 for PLM Analysis

Microscope: Olympus BH-2 #211874

PLM Analyst: T. Bush

Date of Analysis: 7/11/2022

Microscope: JEOL-100CX-II #EM-156094-87

TEM Analyst: M. Lochner

Date of Analysis: 7/12/2022

Laboratory Results Approved By:

Asbestos Technical Director or Designee

Fernanda Weinman

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ELAP ID No.: 10958



PLM & TEM BULK ASBESTOS ANALYSIS REPORT
via NYSDOH ELAP Method 198.1, 198.4 and 198.6

Client: Lu Engineers
Location: Wayne County Land Bank
58-66 Canal Street, Lyons, New York
Sample Date: 6/16/2022

Job No: 4683-22
Page: 3 of 10

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	NOB	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	Non- Fibrous Matrix Material %
17-A	41170	64 Canal Street-Living Room	Tan Floor Tile Mastic	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
17-B	41171	64 Canal Street-Living Room	Tan Floor Tile Mastic	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
18-A	41172	66 Canal Street-Bathroom	White Ceramic Floor Tile	None Detected	0%		Not Required	N/A	None Detected	100%
18-B	41173	66 Canal Street-Bathroom	White Ceramic Floor Tile	None Detected	0%		Not Required	N/A	None Detected	100%
19-A	41174	66 Canal Street-Bathroom	Gray Grout	None Detected	0%		Not Required	N/A	None Detected	100%
19-B	41175	66 Canal Street-Bathroom	Gray Grout	None Detected	0%		Not Required	N/A	None Detected	100%
20-A	41176	66 Canal Street-Bathroom	Yellow Mastic	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
20-B	41177	66 Canal Street-Bathroom	Yellow Mastic	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
21-A	41178	66 Canal Street-Basement Above Furnace	Gray Transite Panel	Chrysotile 31%	31%		Not Required	N/A	None Detected	69%
21-B	41179	66 Canal Street-Basement Above Furnace	Gray Transite Panel	STOP	POSITIVE		SAMPLE	NOT	ANALYZED	N/A

KEY TO NOB COLUMN SYMBOLS

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⌘ denotes material analyzed by ELAP Method 198.6 (PLM) per NYSDOH. This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.

denotes friable material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.

X denotes sample prepped only by ELAP Method 198.6.

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Lab Code 200530-0 for PLM Analysis

Microscope: Olympus BH-2 #211874

PLM Analyst: T. Bush

Date of Analysis: 7/11/2022

Microscope: JEOL-100CX-II #EM-156094-87

TEM Analyst: M. Lochner

Date of Analysis: 7/12/2022

Laboratory Results Approved By:

Asbestos Technical Director or Designee

Fernanda Weinman

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Client: Lu Engineers
Location: Wayne County Land Bank
58-66 Canal Street, Lyons, New York
Sample Date: 6/16/2022

Job No: 4683-22
Page: 4 of 10

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	N O B	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	Non- Fibrous Matrix Material %
23-A	41180	South Side of Roof-64 Canal Street	Silver Coating and Black Tar Paper	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
23-B	41181	South Side of Roof-58 Canal Street	Silver Coating and Black Tar Paper	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
24-A	41182	South Side of Roof-64 Canal Street	Unable to Separate From 23-A	N/A	N/A		N/A	N/A	N/A	N/A
24-B	41183	South Side of Roof-58 Canal Street	Unable to Separate From 23-B	N/A	N/A		N/A	N/A	N/A	N/A
25-A	41184	South Side of Roof-64 Canal Street	Black Tar	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
25-B	41185	South Side of Roof-58 Canal Street	Black Tar	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
26-A	41186	South Side of Roof-64 Canal Street	Black Tar and Black Tar Paper	Chrysotile 1.9%	1.9%	✓	Not Required	N/A	None Detected	98.1%
26-B	41187	South Side of Roof-58 Canal Street	Black Tar and Black Tar Paper	STOP	POSITIVE	X	SAMPLE	NOT	ANALYZED	N/A
27-A	41188	South Side of Roof-64 Canal Street	Unable to Separate From 26-A	N/A	N/A		N/A	N/A	N/A	N/A
27-B	41189	South Side of Roof-58 Canal Street	Unable to Separate From 26-B	N/A	N/A		N/A	N/A	N/A	N/A

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).

✓ NOB (non-friable organically bound) denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.

✓ denotes material analyzed by ELAP Method 198.6 (PLM) per NYSDOH. This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.

denotes friable material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.

X denotes sample prepped only by ELAP Method 198.6.

** 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.

PLM Bulk Asbestos Analysis by New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.") or EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200530-0).



Lab Code 200530-0 for PLM Analysis

Microscope: Olympus BH-2 #211874

PLM Analyst: T. Bush

Date of Analysis: 7/11/2022

Microscope: JEOL-100CX-II #EM-156094-87

TEM Analyst: M. Lochner

Date of Analysis: 7/12/2022

Laboratory Results Approved By:
Asbestos Technical Director or Designee

Fernanda Weinman

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ELAP ID No.: 10958



PLM & TEM BULK ASBESTOS ANALYSIS REPORT
via NYSDOH ELAP Method 198.1, 198.4 and 198.6

Client: Lu Engineers
Location: Wayne County Land Bank
58-66 Canal Street, Lyons, New York
Sample Date: 6/16/2022

Job No: 4683-22
Page: 5 of 10

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	N O B	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	Non- Fibrous Matrix Material %
28-A	41190	South Side of Roof-64 Canal Street	Black Tar Paper	Inconclusive Trace Chrysotile Detected	<1.0%	✓	Chrysotile 2.5%	2.5%	None Detected	97.5%
28-B	41191	South Side of Roof-58 Canal Street	Black Tar Paper	Inconclusive Trace Chrysotile Detected	<1.0%	✓	Stop Positive ** No TEM	N/A	None Detected	100%

KEY TO NOB COLUMN SYMBOLS

No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).
 ✓ NOB (non-friable organically bound) denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.
 √ denotes material analyzed by ELAP Method 198.6 (PLM) per NYSDOH. This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.
 # denotes friable material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.
 X denotes sample prepped only by ELAP Method 198.6.
 ** 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.

PLM Bulk Asbestos Analysis by New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples") or EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200530-0).



Lab Code 200530-0 for PLM Analysis

Microscope: Olympus BH-2 #211874

PLM Analyst: T. Bush

Date of Analysis: 7/8/2022

Microscope: JEOL-100CX-II #EM-156094-87

TEM Analyst: M. Lochner

Date of Analysis: 7/9/2022

ELAP ID No.: 10958

Laboratory Results Approved By:
Asbestos Technical Director or Designee

Fernanda Weinman

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Bulk Sample Chain of Custody



Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

10F5 681053 4683-22

Project Name: Wayne County Land Bank – Canal Street		Lu Project # 50514-01	
Site Address: 58-66 Canal Street, Lyons, New York		Laboratory Name: Paradigm Environmental Services	
Results to:		Laboratory Address: 179 Lake Avenue Rochester, New York	
Lu Engineers 339 East Avenue, Suite 200 Rochester, NY 14604 Email: msmith@luengineers.com , sdavis@luengineers.com , ecrafts@luengineers.com		Turn Around Time <u>72</u> ☐ Immediate ☐ 12 HR ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 Day	
Sample Type		Comments:	
☒ NYS ELAP PLM/TEM ☐ PLM Only ☐ TEM Only		STOP POSITIVE	
FIELD ID	SAMPLE LOCATION	MATERIAL	NOTES
3-A	58 Canal St. – Second Floor Kitchen Sink	White Sink Undercoating	
3-B	58 Canal St. – Third Floor Kitchen Sink	White Sink Undercoating	
4-A	58 Canal St. – Second Floor Kitchen Sink	Black Sink Undercoating	
4-B	58 Canal St. – Third Floor Kitchen Sink	Black Sink Undercoating	
6-A	58 Canal St. – Third Floor Living Room	Tan Carpet Mastic	
6-B	58 Canal St. – Third Floor Living Room	Tan Carpet Mastic	
7-A	58 Canal St. – Third Floor Utility Closet	Brown 9" x 9" Floor Tile	
7-B	58 Canal St. – Third Floor Utility Closet	Brown 9" x 9" Floor Tile	
8-A	58 Canal St. – Third Floor Utility Room	Black 9" x 9" Floor Tile with Red Streaks	
8-B	58 Canal St. – Third Floor Utility Room	Black 9" x 9" Floor Tile with Red Streaks	

Date Sampled: 6-16-2022

Inspector: E.Crafts

Relinquished By [Signature]

Received By [Signature]

Date/Time 7/5/22

Date/Time 7.5.22 1043

Bulk Sample Chain of Custody



Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

2025 7/15/22 4683-22

Project Name: Wayne County Land Bank – Canal Street		Lu Project # 50514-01	
Site Address: 58-66 Canal Street, Lyons, New York		Laboratory Name: Paradigm Environmental Services	
Results to:		Laboratory Address: 179 Lake Avenue Rochester, New York	
Lu Engineers 339 East Avenue, Suite 200 Rochester, NY 14604 Email: msmith@luengineers.com , sdavis@luengineers.com , ecrafts@luengineers.com		Sample Type ☒ NYS ELAP PLM/TEM ☐ PLM Only ☐ TEM Only	
		Turn Around Time ☐ Immediate ☐ 24 HR ☐ 72 HR	Comments: STOP POSITIVE ☒ 5 Day
FIELD ID	SAMPLE LOCATION	MATERIAL	NOTES
41166 9-A	58 Canal St. – Third Floor Utility Room	Black Floor Tile Mastic	
161 9-B	58 Canal St. – Third Floor Utility Room	Black Floor Tile Mastic	
162 10-A	60 Canal St. – Kitchen at Ceiling	Tan Adhesive	Under Ceiling Tile used as a Border at Ceiling
163 10-B	60 Canal St. – Kitchen at Ceiling	Tan Adhesive	Under Ceiling Tile used as a Border at Ceiling
164 12-A	62 Canal St. – Front Room	Black Braided Wiring	
165 12-B	62 Canal St. – Front Room	Black Braided Wiring	
166 13-A	62 Canal St. – Basement on Brick	Tan Parge Coating	
167 13-B	62 Canal St. – Basement on Brick	Tan Parge Coating	
168 14-A	64 Canal St. – Apartment A, Kitchen Sink	Black Sink Undercoating	
169 14-B	64 Canal St. – Apartment B, Kitchen Sink	Black Sink Undercoating	

Date Sampled: 6-16-2022

Inspector: E.Crafts

Relinquished By

Date/Time

Received By

Date/Time

Bulk Sample Chain of Custody



Lu Engineers
ENVIRONMENTAL • TRANSPORTATION • CIVIL

30F5 8d1053
4683-22

Project Name: Wayne County Land Bank – Canal Street		Lu Project # 50514-01	
Site Address: 58-66 Canal Street, Lyons, New York		Laboratory Name: Paradigm Environmental Services	
Results to:		Laboratory Address: 179 Lake Avenue Rochester, New York	
Lu Engineers 339 East Avenue, Suite 200 Rochester, NY 14604 Email: msmith@luengineers.com , sdavis@luengineers.com , ecrafts@luengineers.com		Sample Type ☒ NYS ELAP PLM/TEM ☐ PLM Only ☐ TEM Only	
		Turn Around Time ☐ Immediate ☐ 24 HR ☐ 72 HR	Comments: ☒ 12 HR ☐ 48 HR ☒ 5 Day
		STOP POSITIVE	
FIELD ID	SAMPLE LOCATION	MATERIAL	NOTES
41170 171 172 173 174 175 176 177 178 179	17-A 64 Canal St. – Living Room	Tan Floor Tile Mastic	Under Grey 12"x 12" Sampled by LiRo
	17-B 64 Canal St. – Living Room	Tan Floor Tile Mastic	Under Grey 12"x 12" Sampled by LiRo
	18-A 66 Canal St. – Bathroom	White Ceramic Floor Tile	
	18-B 66 Canal St. – Bathroom	White Ceramic Floor Tile	
	19-A 66 Canal St. – Bathroom	Grey Grout	
	19-B 66 Canal St. – Bathroom	Grey Grout	
	20-A 66 Canal St. – Bathroom	Yellow Mastic	
	20-B 66 Canal St. – Bathroom	Yellow Mastic	
	21-A 66 Canal St. – Basement above Furnace	Grey Transite Panel	
	21-B 66 Canal St. – Basement above Furnace	Grey Transite Panel	

Date Sampled: 6-16-2022

Inspector: E.Crafts

Relinquished By

Date/Time 7/5/22

Received By

Date/Time 7/5/22

Bulk Sample Chain of Custody



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40F5
9/2/15
4683-22

Project Name: Wayne County Land Bank – Canal Street		Lu Project # 50514-01	
Site Address: 58-66 Canal Street, Lyons, New York		Laboratory Name: Paradigm Environmental Services	
Results to:		Laboratory Address: 179 Lake Avenue Rochester, New York	
Lu Engineers 339 East Avenue, Suite 200 Rochester, NY 14604 Email: msmith@luengineers.com , sdavis@luengineers.com , ecrafts@luengineers.com		Sample Type ☒ NYS ELAP PLM/TEM ☐ PLM Only ☐ TEM Only	
		Turn Around Time ☐ Immediate ☐ 24 HR ☐ 72 HR	Comments: 12 HR 48 HR ☒ 5 Day

STOP POSITIVE

FIELD ID	SAMPLE LOCATION	MATERIAL	NOTES
23-A	South Side of Roof - 64 Canal St.	Silver Coating	
23-B	South Side of Roof - 58 Canal St.	Silver Coating	
24-A	South Side of Roof - 64 Canal St.	Black Tar Paper	
24-B	South Side of Roof - 58 Canal St.	Black Tar Paper	
25-A	South Side of Roof - 64 Canal St.	Black Tar	
25-B	South Side of Roof - 58 Canal St.	Black Tar	
26-A	South Side of Roof - 64 Canal St.	Black Tar Paper	
26-B	South Side of Roof - 58 Canal St.	Black Tar Paper	
27-A	South Side of Roof - 64 Canal St.	Black Tar	
27-B	South Side of Roof - 58 Canal St.	Black Tar	

Date Sampled: 6-29-2022
 Relinquished By:
 Date/Time: 7/5/22
 Inspector: S.Davis/ E.Crafts
 Received By:
 Date/Time: 7.6.22 1046
 339 East Avenue, Suite 200, Rochester, NY 14604 | Ph 585.385.7417 | Fax 585.546.1634 | luengineers.com

Lu Engineers

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5405 014821 S

4683-22)

Date Sampled: 6-29-2022

Inspector: S.Davis/E.Crafts

Relinquished By:  Date/Time: 7/5/02

Received By:  Date/Time: 7.5.22 1047

339 East Avenue, Suite 200, Rochester, NY 14604 | Ph 585.385.7417 | Fax 585.546.1634 | luengineers.com

339 East Avenue, Suite 200, Rochester, NY 14604 | Ph 585 385.7417 | Fax 585.546.1634 | luenengineers.com

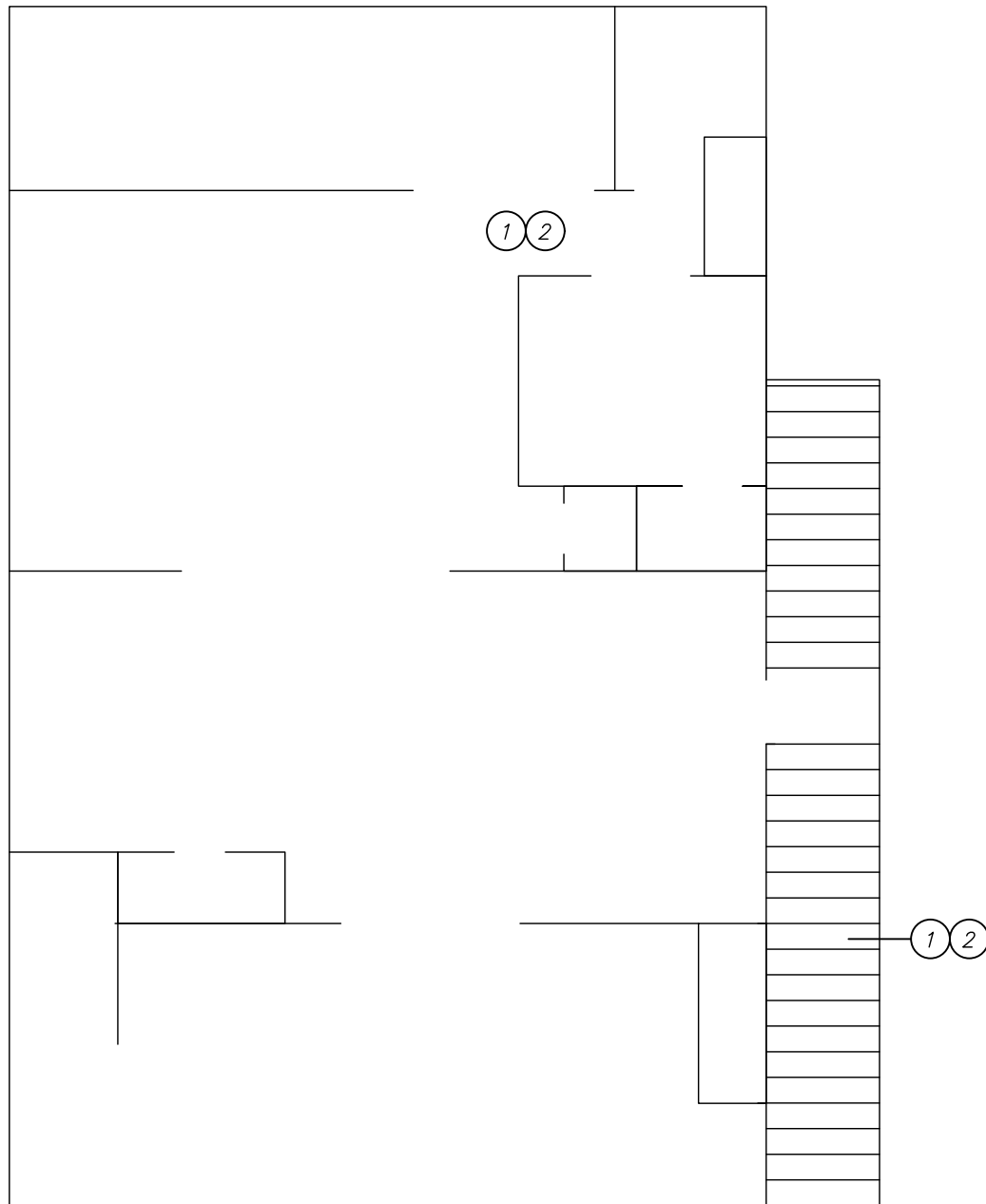
ATTACHMENT D

Asbestos Location Plans and Asbestos Inspection Summary Table



ASBESTOS, LEAD PAINT and PCB CAULK SURVEY

ABANDONED BUILDING
58-66 CANAL STREET
LYONS, WAYNE COUNTY, NEW YORK



LEGEND

①

APPROXIMATE LOCATION OF ASBESTOS
CONTAINING BROWN 9"x9" FLOOR TILE

②

APPROXIMATE LOCATION OF ASBESTOS
CONTAINING BLACK FLOOR TILE MASTIC

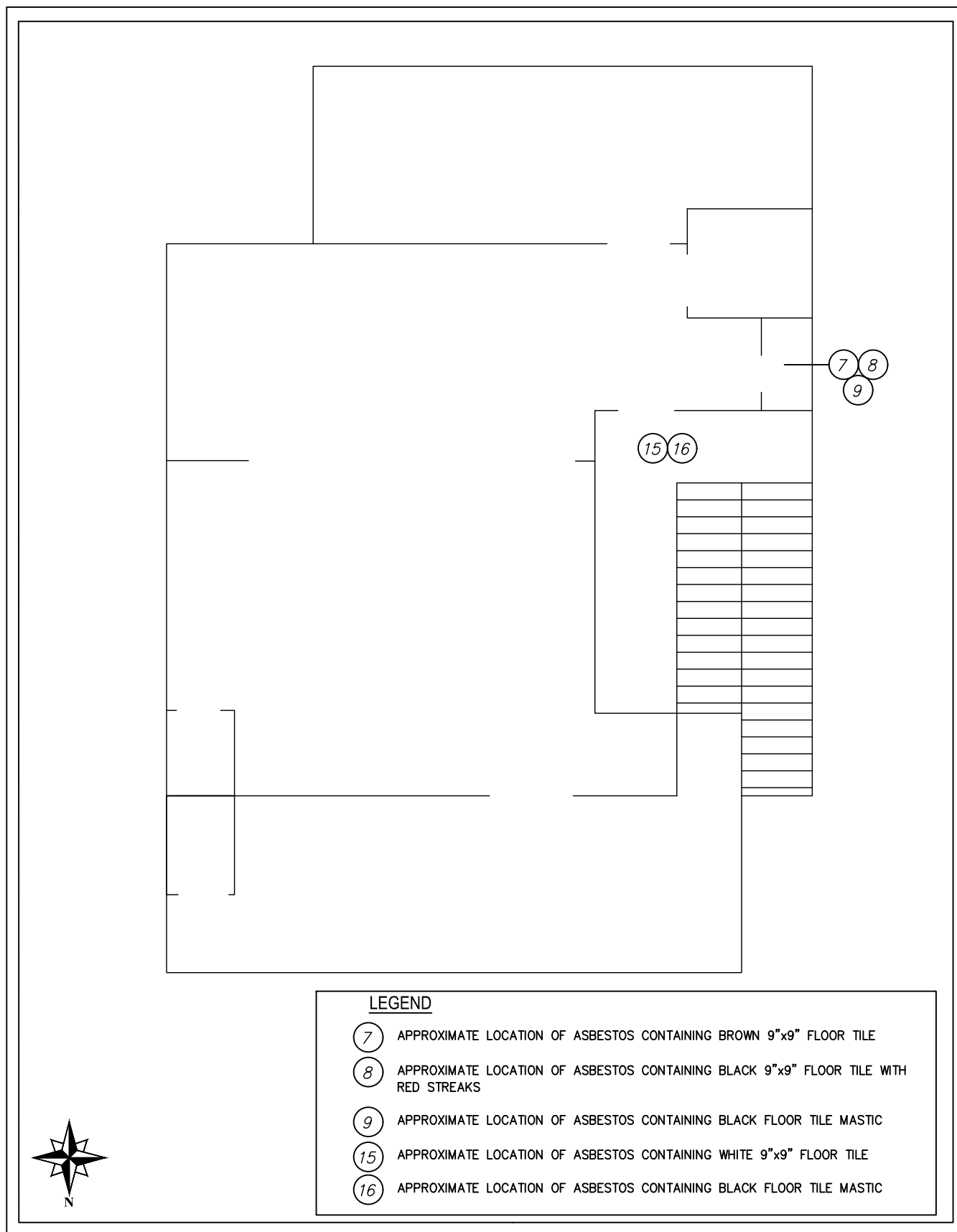
FIGURE 11. ASBESTOS LOCATION PLAN

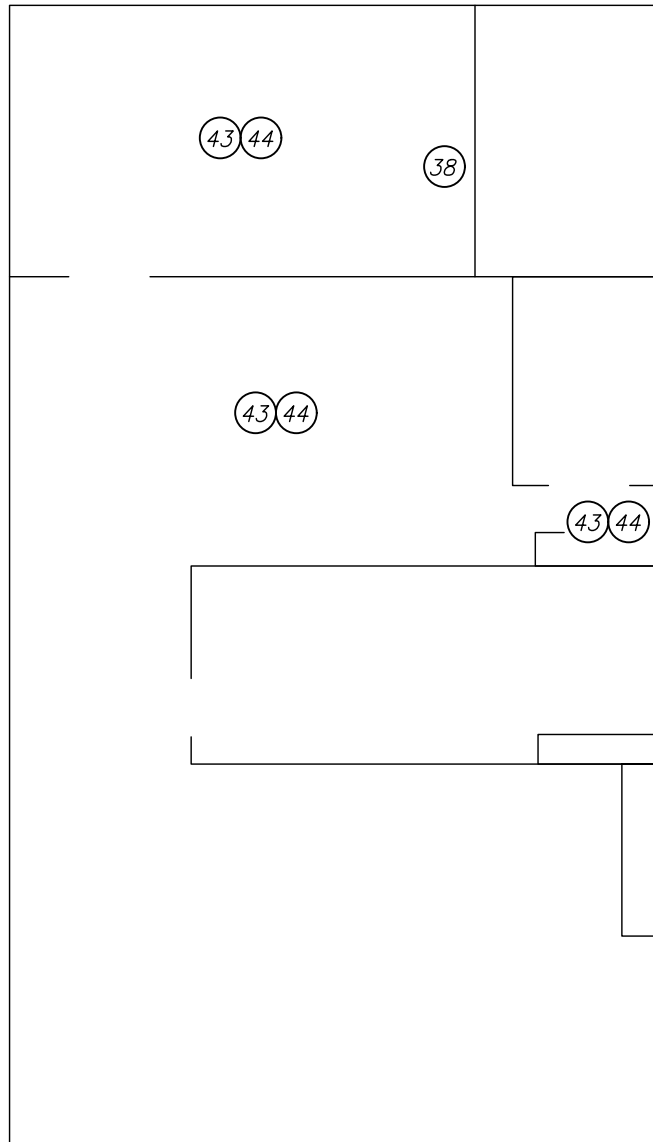
58-66 CANAL STREET
LYONS | WAYNE COUNTY | NEW YORK
58 CANAL STREET SECOND FLOOR PLAN

DATE: JULY 2022

SCALE: N.T.S.

PROJECT NO: 50514-01





LEGEND

- 
 APPROXIMATE LOCATION OF ASBESTOS CONTAINING BLACK SINK MASTIC
- 
 APPROXIMATE LOCATION OF ASBESTOS CONTAINING TAN SPECKLED 9"x9" FLOOR TILE
- 
 APPROXIMATE LOCATION OF ASBESTOS CONTAINING BLACK FLOOR TILE MASTIC

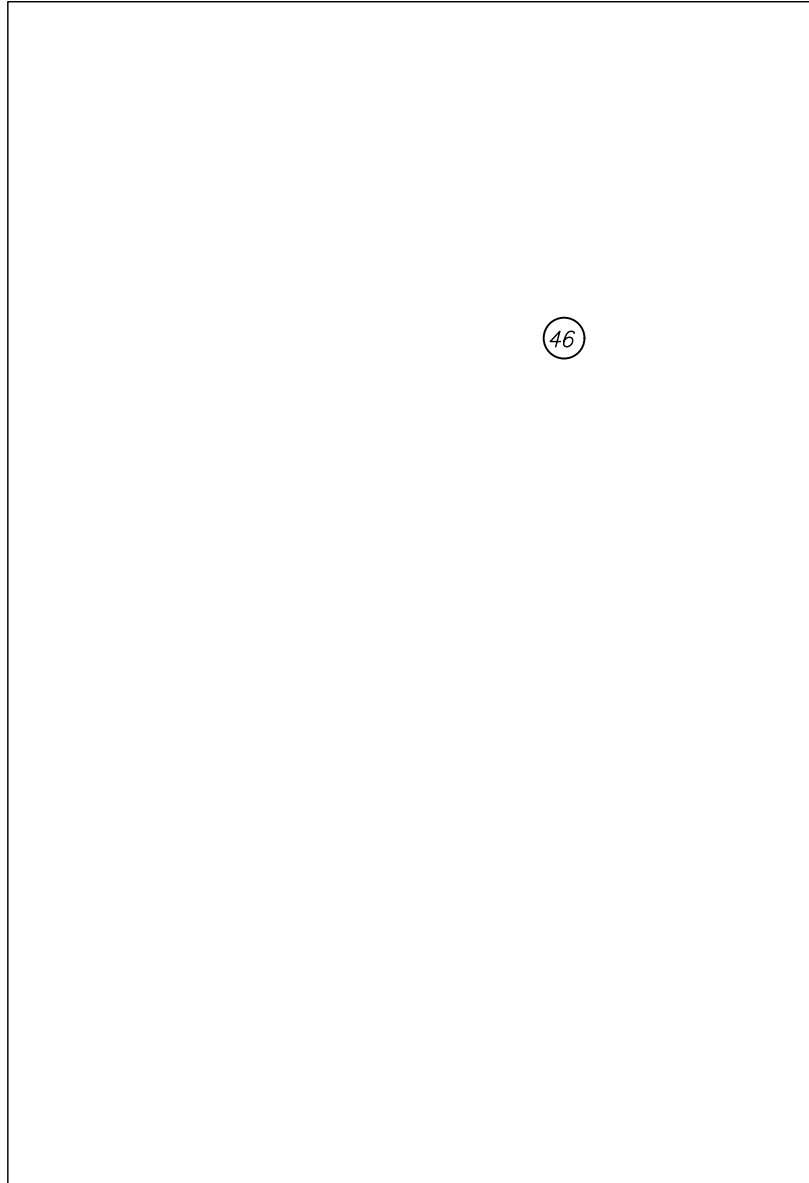
FIGURE 13. ASBESTOS LOCATION PLAN

58-66 CANAL STREET
 LYONS | WAYNE COUNTY | NEW YORK
 60 CANAL STREET FIRST FLOOR PLAN

DATE: JULY 2022

SCALE: N.T.S.

PROJECT NO: 50514-01



LEGEND



APPROXIMATE LOCATION OF ASBESTOS CONTAINING
WHITE DUCT TAPE

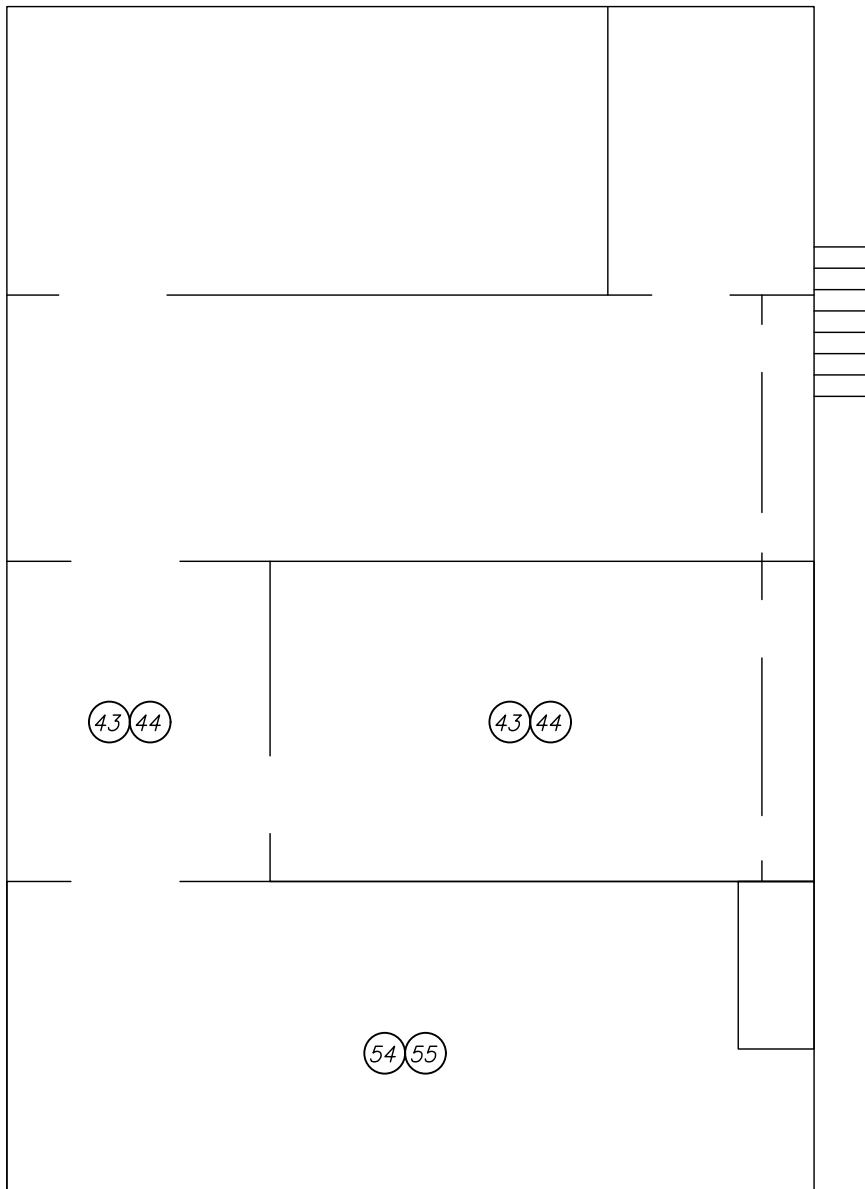
FIGURE 14. ASBESTOS LOCATION PLAN

58-66 CANAL STREET
LYONS | WAYNE COUNTY | NEW YORK
62 CANAL STREET BASEMENT PLAN

DATE: JULY 2022

SCALE: N.T.S.

PROJECT NO: 50514-01



LEGEND

- (43) APPROXIMATE LOCATION OF ASBESTOS CONTAINING TAN SPECKLED 9"x9" FLOOR TILE
- (44) APPROXIMATE LOCATION OF ASBESTOS CONTAINING BLACK FLOOR TILE MASTIC
- (54) APPROXIMATE LOCATION OF ASBESTOS CONTAINING RED LINOLEUM
- (55) APPROXIMATE LOCATION OF ASBESTOS CONTAINING BLACK MASTIC

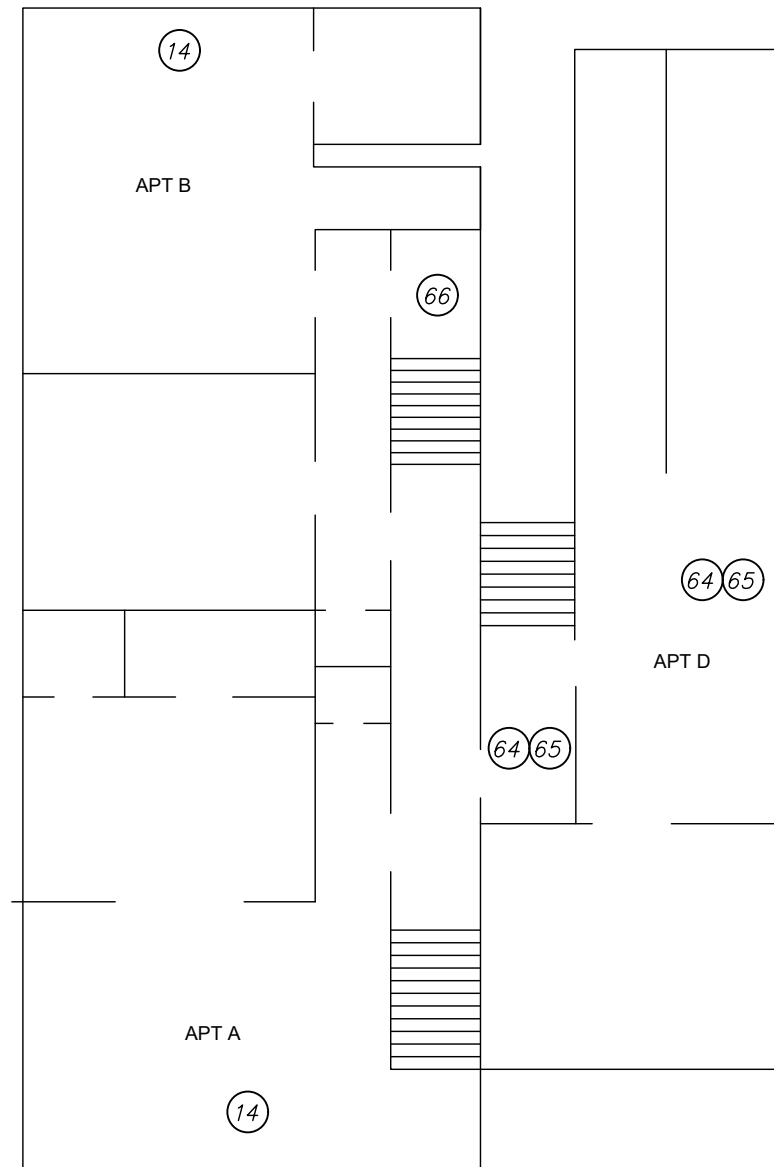
FIGURE 15. ASBESTOS LOCATION PLAN

58-66 CANAL STREET
LYONS | WAYNE COUNTY | NEW YORK
62 CANAL STREET FIRST FLOOR PLAN

DATE: JULY 2022

SCALE: N.T.S.

PROJECT NO: 50514-01



LEGEND

- 14 APPROXIMATE LOCATION OF ASBESTOS CONTAINING BLACK SINK UNDERCOATING
- 64 APPROXIMATE LOCATION OF ASBESTOS CONTAINING BLACK 9"x9" FLOOR TILE
- 65 APPROXIMATE LOCATION OF ASBESTOS CONTAINING BLACK FLOOR TILE MASTIC
- 66 APPROXIMATE LOCATION OF ASBESTOS CONTAINING GREEN LINOLEUM

FIGURE 16. ASBESTOS LOCATION PLAN

58-66 CANAL STREET
LYONS | WAYNE COUNTY | NEW YORK
64 CANAL STREET SECOND FLOOR PLAN

DATE: JULY 2022

SCALE: N.T.S.

PROJECT NO: 50514-01

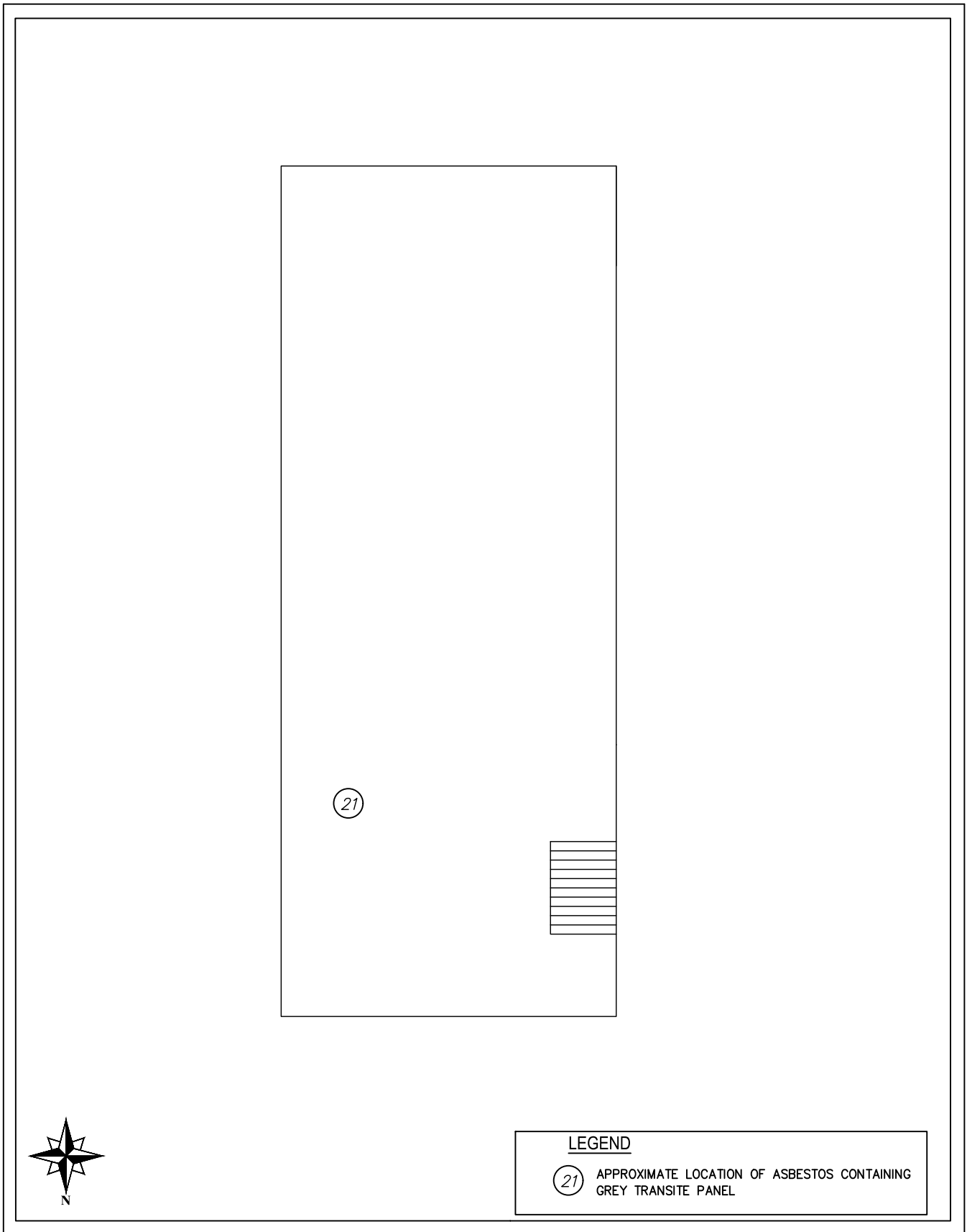


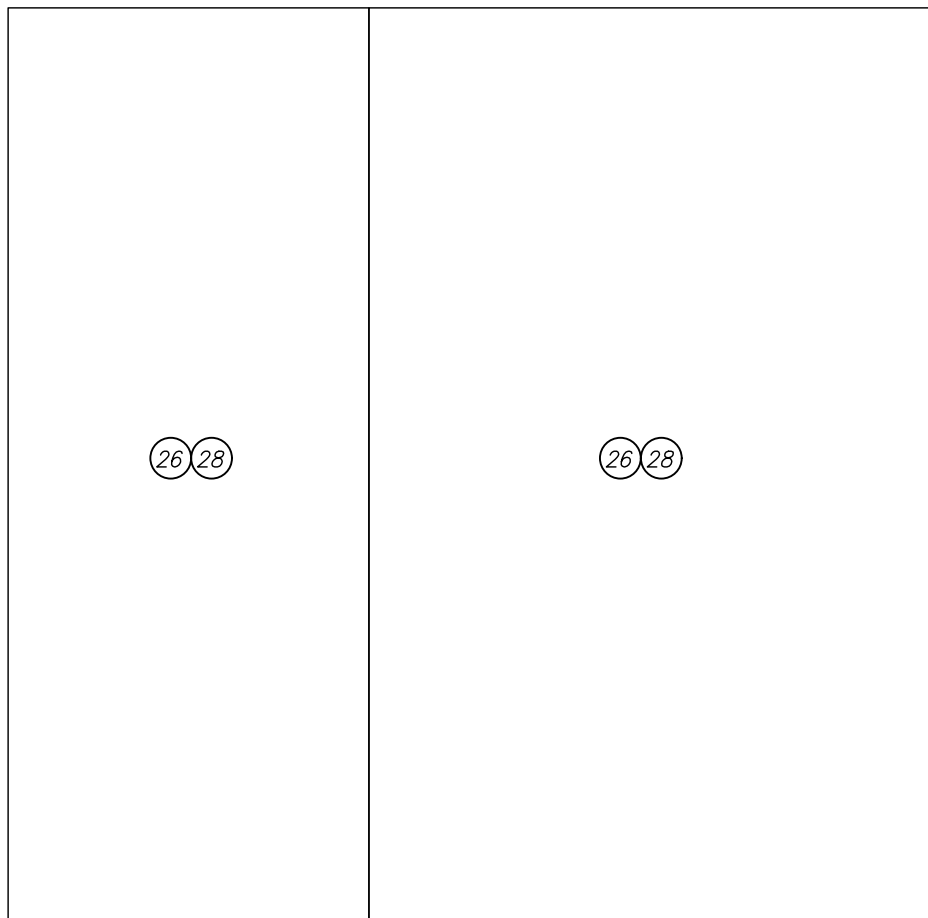
FIGURE 17. ASBESTOS LOCATION PLAN

58-66 CANAL STREET
 LYONS | WAYNE COUNTY | NEW YORK
66 CANAL STREET BASEMENT FLOOR PLAN

DATE: JULY 2022

SCALE: N.T.S.

PROJECT NO: 50514-01



LEGEND

- (26) APPROXIMATE LOCATION OF ASBESTOS CONTAINING BLACK TAR PAPER
- (28) APPROXIMATE LOCATION OF ASBESTOS CONTAINING BLACK TAR PAPER

FIGURE 18. ASBESTOS LOCATION PLAN

58-66 CANAL STREET
 LYONS | WAYNE COUNTY | NEW YORK
 58-66 CANAL STREET EXTERIOR

DATE: JULY 2022

SCALE: N.T.S.

PROJECT NO: 50514-01

ATTACHMENT E

Previous Report



Lu Engineers
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ASBESTOS, LEAD PAINT and PCB CAULK SURVEY

ABANDONED BUILDING
58-66 CANAL STREET
LYONS, WAYNE COUNTY, NEW YORK

Asbestos- Containing and Hazardous Materials

Inspection Report

For

58-66 Canal Street

Lyons, New York 14489

Prepared For:

Wayne County Regional Land Bank

16 William Street

Lyons, NY 14489

Prepared By:



LiRo Engineers, Inc.
A LiRo Group Company

690 Delaware Avenue

Buffalo, NY 14209

September 17th, 2021

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Appendices

Appendix A: Sample Analysis Results in Tabular Form

Appendix B: Bulk Sample Chain of Custodies & Laboratory Results

Appendix C: Certifications and Accreditations

Appendix D: Bulk Sample / ACM Location Drawings

Appendix E: Photographic Log

1.0 EXECUTIVE SUMMARY

At the request of the Wayne County Regional Land Bank, LiRo Engineers, Inc. (LiRo) has performed an inspection for the presence or absence of Asbestos Containing Material (ACM), Lead Based Paint (LBP) and Polychlorinated Biphenyls (PCBs) at 58-66 Canal Street, Lyons NY 14489.

1.1 Asbestos Containing Materials (ACM):

LiRo investigated suspect materials which are anticipated to be impacted during the planned demolition. Identified suspect materials include the following:

- Wall Plaster, Gray
- Wall Plaster, White
- Skim Coat, White
- Skim Coat, Gray
- Drywall, White
- Duct Tape Sealant, Gray
- Duct Tape Sealant, White
- 9x9" Floor Tile, Tan Speckled w/ associated Black Mastic
- 9x9" Floor Tile, Brown w/ associated Black Mastic
- 9x9" Floor Tile, White w/ associated Black Mastic
- 12x12" Floor Tile, White w/ associated Yellow Mastic
- Tiled Linoleum w/ associated Yellow Mastic
- Mottled Linoleum w/ associated Black Mastic
- Squared Linoleum w/ associated Yellow Mastic
- Marbled Linoleum w/ associated Yellow Mastic
- Brick Linoleum w/ associated Yellow Mastic
- Green Linoleum w/ associated Yellow Mastic
- Red Linoleum w/ associated Black Mastic
- Sink Mastic, Black
- Joint Compound, White
- Wire Jacketing, White
- Ceiling Plaster, Gray
- Tile Grout, Gray
- Tile Cement, White
- 2x4 Speckled Ceiling Tile, White
- 9x9" Ceiling Tile, Brown
- Exterior Window Caulk, Off-White

The following material has been identified as **ACM** (greater than 1%):

- **Duct Tape Sealant, White, 30 SF, Non-Friable, Intact**
- **Sink Mastic, Black, 5 SF, Non-Friable, Intact**
- **9x9" Floor Tile, Brown w/ associated Black Mastic, 250 SF, Non-Friable, Intact**
- **9x9" Floor Tile, White w/ associated Black Mastic, 120 SF, Non-Friable, Intact**
- **9x9" Floor Tile, Tan Speckled w/ associated Black Mastic, 550 SF, Non-Friable, Intact**
- **9"x9" Floor Tile, Brown and Associated Black Mastic (64 Canal Street), 300 SF, Intact, Non-Friable**
- **Red Linoleum w/ associated Black Mastic, 400 SF, Non-Friable, Intact**
- **Green Linoleum, 300 SF, Non-Friable, Intact**
- **Assumed Roofing, Felt Paper and Tar, 6,500 SF, Intact, Non-Friable**

Analytical results of the bulk samples collected indicate that the following materials did not contain asbestos:

- Tiled Linoleum w/ associated Yellow Mastic
- Mottled Linoleum w/ associated Black Mastic
- Squared Linoleum w/ associated Yellow Mastic
- Marbled Linoleum w/ associated Yellow Mastic
- Brick Linoleum w/ associated Yellow Mastic
- Wall Plaster, White
- Skim Coat, White
- Skim Coat, Gray
- Drywall, White
- Duct Tape Sealant, Gray
- Joint Compound, White
- Wire Jacketing, White
- Tile Grout, Gray
- Tile Cement, White
- 2x4 Speckled Ceiling Tile, White
- 9x9" Ceiling Tile, Brown
- Exterior Window Caulk, Off-White
- 12x12" Floor Tile, White w/ associated Yellow Mastic

1.2 Lead Based Paint (LBP)

LiRo performed limited paint chip sampling of painted surfaces to evaluate the likelihood of encountering lead-based paint (LBP) and creating a lead dust hazard during construction activities. A comprehensive inspection as established by Department of Housing and Urban Development (HUD) Guidelines was not conducted, however, representative surfaces/components were tested in a manner designed to adequately represent the different components, substrates, types of paint, construction and paint history. Federal guidelines characterize paint to be lead based if it contains greater than 1.0 mg/cm² lead by surface area or greater than 0.5% lead by weight (5,000 mg/Kg). A full list of sampled coatings is provided in Section 3.2 of this report.

The following coatings have been determined to be **lead-based paint**:

- **Beige paint in building unit 58 on stairwell / hallway walls**
- **White/ Black paint unit 64 apartment D**

Additionally, lead was determined to be present in concentrations below the threshold for characterization as lead-based paint in the below listed coatings:

- Red paint in unit 62-bedroom closet
- Light blue paint building unit 64 in apartment D
- Tan paint building unit 64 in apartment D

Precautions should be taken by personnel disturbing any painted surfaces to ensure that workers are not exposed to lead in excess of the permissible exposure limit. All work shall be performed in accordance with applicable federal, state and local requirements including OSHA 29 CFR 1926.62 (the OSHA lead in construction standard). At minimum, all generated paint dust, chips and other debris shall require cleaning utilizing wet methods.

1.3 Polychlorinated Biphenyls (PCBs)

Polychlorinated biphenyls (PCBs) were frequently used in the production of caulks used during building construction, renovation and repair activities from the 1950s through 1978. The United States Environmental Protection Agency (EPA) regulates caulk containing PCBs at concentrations greater than or equal to 50 parts per million (ppm) as PCB bulk product waste. PCB bulk product wastes require disposal in accordance with 40 CFR 761.62.

No samples analyzed were found to be PCB Bulk product waste.

1.4 Mercury

Under current United State Environmental Protection Agency (EPA) and NYSDEC regulations, mercury containing equipment, including fluorescent light bulbs, thermostats, thermometers and switches are managed under Universal Waste Rules. The Universal Waste Rule allows for more relaxed (compared to hazardous waste requirements) standards for storing, transporting and collecting wastes, however, hazardous waste requirements still apply for final recycling, treatment or disposal. A brief inventory of these products is summarized below.

UNIVERSAL WASTE TABLE						
MATERIAL	58	60	62	64	66	TOTAL
PCB BALLASTS (EA.)	2	0	0	10	24	36
FIRE EXTINGUISHERS (EA.)	1	0	0	0	1	2
REFRIGERATORS/ FREEZERS (EA.)	2	1	2	2	0	7
FLUORESCENT LIGHTS (LF)	10	0	0	18	72	100
SMOKE DETECTORS (EA.)	2	5	3	10	2	22
PAINT/ VARNISH (GALLONS)	5	0	1	0	0	6
BUILDING MATERIALS (GALLONS)	0	0	0	8	0	8

2.1 FIELD SURVEY PROCEDURES AND SAMPLE ANALYSIS METHODS

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

Field information was organized in accordance with the AHERA methodology of homogenous area (HA). During the survey, reasonable effort was made to identify all locations and types of ACM materials associated with the scope of work. Sampling has included multiple samples of the same materials chosen at random. However, due to inconsistencies of a manufacturer's processes and the contractor's installation methods, materials of similar construction may contain various amounts of asbestos. Furthermore, some materials that were not originally specified to contain asbestos may in fact contain this mineral.

Bulk samples of suspect ACM were analyzed using polarized light microscopy (PLM) coupled with dispersion staining, as described in 40 CFR Part 763 and the National Emissions Standard for Hazardous Air Pollutants (NESHAPS). NESHAPS is the standard industry protocol for the determination of asbestos in building materials. A suspect material is immersed in a solution of known refractive index and subjected to illumination by polarized light. The color displays that result are compared to a standardized atlas whereby the specific variety of asbestos is determined. It should also be recognized that PLM is primarily a qualitative identification method whereby asbestos percentage, if any, is estimated. While EPA and New York State regulations governing ACM consider materials containing greater than 1-percent as asbestos, accurately quantifying asbestos content below 5-percent has been shown to be unreliable.

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

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

Bulk asbestos samples collected were initially analyzed by Polarized Light Microscopy. Samples which yielded a negative PLM result and which are classified as a "non-friable" material were then re-analyzed utilizing Transmission Electron Microscopy methodology described above. The laboratories performing the analysis procedures was EMSL Analytical, Inc. (EMSL) located at 490 Rowley Road, Depew, New York, 14043. EMSL is accredited with the following agencies:

- New York State Environmental Laboratory Approval Program (ELAP) Lab No. 11606
- National Voluntary Laboratory Accreditation Program (NVLAP) Lab Code 200056-0

All Lead Paint and PCB samples were analyzed by EMSL Analytical, Inc. located at 200 Route 130 North, Cinnaminson, NJ 08077.

3.0 INSPECTION SCOPE AND RESULTS

3.1 Asbestos Containing Materials (ACM):

At the request of the Wayne County Regional Land Bank, LiRo Engineers, Inc. (LiRo) has performed an inspection for the presence or absence of Asbestos Containing Material (ACM) at 58 - 66 Canal Street, Lyons, NY 14489. NYSDOL Certified Inspector John Seward (#15-20772) of LiRo performed asbestos bulk sampling on August 13, 2021.

LiRo investigated for suspect materials which are anticipated to be impacted during planned demolition activities. Identified suspect materials include the following:

- Wall Plaster, Gray
- Wall Plaster, White
- Skim Coat, White
- Skim Coat, Gray
- Drywall, White
- Duct Tape Sealant, Gray
- Duct Tape Sealant, White
- 9x9" Floor Tile, Tan Speckled w/ associated Black Mastic
- 9x9" Floor Tile, Brown w/ associated Black Mastic
- 9x9" Floor Tile, White w/ associated Black Mastic
- 12x12" Floor Tile, White w/ associated Yellow Mastic
- Tiled Linoleum w/ associated Yellow Mastic
- Mottled Linoleum w/ associated Black Mastic
- Squared Linoleum w/ associated Yellow Mastic
- Marbled Linoleum w/ associated Yellow Mastic
- Brick Linoleum w/ associated Yellow Mastic
- Green Linoleum w/ associated Yellow Mastic
- Red Linoleum w/ associated Black Mastic
- Sink Mastic, Black
- Joint Compound, White
- Wire Jacketing, White
- Ceiling Plaster, Gray
- Tile Grout, Gray
- Tile Cement, White
- 2x4 Speckled Ceiling Tile, White
- 9x9" Ceiling Tile, Brown
- Exterior Window Caulk, Off-White

The following material has been identified as **ACM** (greater than 1%):

- **Duct Tape Sealant, White, 30 SF, Non-Friable, Intact**
- **Sink Mastic, Black, 5 SF, Non-Friable, Intact**
- **9x9" Floor Tile, Brown w/ associated Black Mastic, 250 SF, Non-Friable, Intact**
- **9x9" Floor Tile, White w/ associated Black Mastic, 120 SF, Non-Friable, Intact**
- **9x9" Floor Tile, Tan Speckled w/ associated Black Mastic, 550 SF, Non-Friable, Intact**
- **9"x9" Floor Tile, Brown and Associated Black Mastic (64 Canal Street), 300 SF, Intact, Non-Friable**
- **Red Linoleum w/ associated Black Mastic, 400 SF, Non-Friable, Intact**
- **Green Linoleum, 300 SF, Non-Friable, Intact**
- **Assumed Roofing, Felt Paper and Tar, 6,500 SF, Intact, Non-Friable**

Analytical results of the bulk samples collected indicate that the following materials did not contain asbestos:

- Tiled Linoleum w/ associated Yellow Mastic
- Mottled Linoleum w/ associated Black Mastic
- Squared Linoleum w/ associated Yellow Mastic
- Marbled Linoleum w/ associated Yellow Mastic
- Brick Linoleum w/ associated Yellow Mastic
- Wall Plaster, White
- Skim Coat, White
- Skim Coat, Gray
- Drywall, White
- Duct Tape Sealant, Gray
- Joint Compound, White
- Wire Jacketing, White
- Tile Grout, Gray
- Tile Cement, White
- 2x4 Speckled Ceiling Tile, White
- 9x9" Ceiling Tile, Brown
- Exterior Window Caulk, Off-White
- 12x12" Floor Tile, White w/ associated Yellow Mastic

A summary of analytical results for all bulk asbestos samples collected is included in Appendix A of this report. Asbestos bulk sampling laboratory report forms are included in Appendix B. Certifications for inspection personnel and the analytical laboratory are provided in Appendix C. Bulk sample location and ACM Location drawings are shown in Appendix D and Appendix E, respectively. A photographic log is located in Appendix F.

3.2 **Lead Based Paint (LBP)**

A comprehensive lead paint inspection (as established by Department of Housing and Urban Development Guidelines) was not conducted, however LiRo performed limited paint chip sampling of painted surfaces throughout sections of the facility impacted by the planned construction scope to evaluate the likelihood of creating a lead dust hazard during construction activities. Federal guidelines characterize paint to be lead based if it contains greater than 1.0 mg/cm² lead by surface area or greater than 0.5% lead by weight (5,000 mg/Kg).

A summary of LBP sampling results is included in the table below. Laboratory reports of the paint chip analysis are provided in Appendix B. Sample locations are shown on the Drawings included as Appendix D of this report.

Lead Paint Analytical Results Summary				
Sample ID	Sample Location	Description of Material	Substrate	Lead Concentration (%)
LBP-1	Stairwell/ Hallway Walls (58 Canal St)	Beige Paint	Plaster	0.57
LBP-2	Bedroom Closet (62 Canal St)	Red	Wood	0.091
LBP-3	Throughout Apartments (64 Canal St)	White/ Black	Plaster	6.5
LBP-4	Apartment D (64 Canal St)	Light Blue	Plaster	0.073
LBP-5	Apartment D (64 Canal St)	Tan	Plaster	0.23

3.3 Polychlorinated Biphenyls (PCBs)

Caulking expected to be impacted by the construction scope were sampled for PCBs. A summary of the PCB sampling results is included in the table provided below. PCB sampling laboratory report forms are included in Appendix B. Sample locations are shown on the Drawings included as Appendix D of this report.

PCB in Building Material Analysis Summary			
Sample ID	Location	Material	PCB Concentration (ppm)
60-CLK1-1PA, 1PB, 1PC	Exterior Window, Above Entry Door	Caulk, White	Aroclor-1016 – ND Aroclor-1221 – ND Aroclor- 1232 – ND Aroclor- 1242- ND Aroclor-1248 – ND Aroclor-1254 – ND Aroclor-1260 – ND Aroclor-1262 – ND Aroclor-1268 – ND

Notes:

- ppm: parts per million
- ND: Not Detected

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Asbestos Containing Materials (ACM):

LiRo Engineers, Inc. (LiRo) has performed an inspection for the presence or absence of ACM in support of the demolition project located at 58 – 66 Canal Street, Lyons, NY 14489. All ACM shall require removal and disposal in accordance with all applicable federal, state and local regulations including 12NYCRR Part 56 (NYSDOL Asbestos), 40 CFR Part 61 (EPA National Emission Standard for Air Pollutants), 29 CFR Part 1910 (OSHA Asbestos), and OSHA Part 1926 (OSHA Construction).

Based on the investigation by LiRo, the following materials with potential to be impacted by this project have been identified as ACM.

- **Duct Tape Sealant, White, 30 SF, Non-Friable, Intact**
- **Sink Mastic, Black, 5 SF, Non-Friable, Intact**
- **9x9" Floor Tile, Brown w/ associated Black Mastic, 250 SF, Non-Friable, Intact**
- **9x9" Floor Tile, White w/ associated Black Mastic, 120 SF, Non-Friable, Intact**
- **9x9" Floor Tile, Tan Speckled w/ associated Black Mastic, 550 SF, Non-Friable, Intact**
- **9"x9" Floor Tile, Brown and Associated Black Mastic (64 Canal Street), 300 SF, Intact, Non-Friable**
- **Red Linoleum w/ associated Black Mastic, 400 SF, Non-Friable, Intact**
- **Green Linoleum, 300 SF, Non-Friable, Intact**
- **Assumed Roofing, Felt Paper and Tar, 6,500 SF, Intact, Non-Friable**

4.2 Lead Based Paint (LBP)

LiRo performed limited paint chip sampling of painted surfaces to evaluate the likelihood of encountering lead-based paint (LBP) and creating a lead dust hazard during construction activities. A comprehensive inspection as established by Department of Housing and Urban Development (HUD) Guidelines was not conducted, however, representative surfaces/components were tested in a manner designed to adequately represent the different components, substrates, types of paint, construction and paint history. Federal guidelines characterize paint to be lead-based if it contains greater than 1.0 mg/cm² lead by surface area or greater than 0.5% lead by weight (5,000 mg/Kg).

Based on the investigation by LiRo, the following coatings have been determined to be lead-based paint:

- **Beige paint in building unit 58 on stairwell / hallway walls**
- **White/ Black paint unit 64 apartment D.**

Additionally, lead was determined to be present in concentrations below the threshold for characterization as lead-based paint in additional test coatings.

- **Red paint in unit 62-bedroom closet**
- **Light blue paint building unit 64 in apartment D**
- **Tan paint building unit 64 in apartment D**

Precautions should be taken by personnel disturbing any painted surfaces to ensure that workers are not exposed to lead in excess of the permissible exposure limit. All work shall be performed in accordance with applicable federal, state and local requirements including OHSA 29 CFR 1926.62 (the OSHA lead in construction standard). At minimum all generated paint dust, chips and other debris shall require cleaning utilizing wet methods.

4.3 Polychlorinated Biphenyls (PCBs)

Polychlorinated biphenyls (PCBs) were frequently used in the production of caulks used during building construction, renovation and repair activities from the 1950s through 1978. The United States Environmental Protection Agency (EPA) regulates caulk containing PCBs at concentrations greater than or equal to 50 parts per million (ppm) as PCB bulk product waste. PCB bulk product wastes require disposal in accordance with 40 CFR 761.62.

No samples analyzed were found to be PCB Bulk product waste.

4.4 Mercury

Under current United State Environmental Protection Agency (EPA) and NYSDEC regulations, mercury containing equipment, including fluorescent light bulbs, thermostats, thermometers and switches are managed under Universal Waste Rules. The Universal Waste Rule allows for more relaxed (compared to hazardous waste requirements) standards for storing, transporting and collecting wastes, however, hazardous waste requirements still apply for final recycling, treatment or disposal. A brief inventory of these products is summarized below.

UNIVERSAL WASTE TABLE						
MATERIAL	58	60	62	64	66	TOTAL
PCB BALLASTS (EA.)	2	0	0	10	24	36
FIRE EXTINGUISHERS (EA.)	1	0	0	0	1	2
REFRIGERATORS/ FREEZERS (EA.)	2	1	2	2	0	7
FLUORESCENT LIGHTS (LF)	10	0	0	18	72	100
SMOKE DETECTORS (EA.)	2	5	3	10	2	22
PAINT/ VARNISH (GALLONS)	5	0	1	0	0	6
BUILDING MATERIALS (GALLONS)	0	0	0	8	0	8

APPENDIX A:
SAMPLE ANALYSIS RESULTS IN TABULAR FORM

APPENDIX A
SAMPLE ANALYSIS RESULTS IN TABULAR FORM
58 Canal Street
Lyons, New York 14489

HA	Sample No.	Location	Material	Quantity	Results	Friable (Y/N)	Condition
FT	FT1-1	Entry Stairwell	Brown 9x9" Floor Tile	250 SF	8.6% Chrysotile	N	I
	FT1-2	Bedroom Hallway			NA/PS		
FTM	FTM1-1	Entry Stairwell	Black Mastic (Brown 9x9")	250 SF	1.9% Chrysotile	N	I
	FTM1-2	Bedroom Hallway			NA/PS		
DW	DW-1	2 nd Floor Living Room	Gray Drywall	NA	NAD	Y	I
	DW-2	3 rd Floor Living Room			NAD		
	DW-3	2 nd Floor Dining Room			NAD		
	DW-4	2 nd Floor Bedroom 1			NAD		
	DW-5	3 rd Floor Bedroom			NAD		
FT	FT3-1	3 rd Floor Landing	White 9x9" Floor Tile	120 SF	9.7% Chrysotile	N	I
	FT3-2	3 rd Floor Landing			NA/PS		
FTM	FTM3-1	3 rd Floor Landing	Black Mastic (White 9x9")	120 SF	4.8% Chrysotile	N	I
	FTM3-2	3 rd Floor Landing			NA/PS		
LN	LN1-1	Bathroom	Mottled Linoleum	NA	NAD	N	I
	LN1-2	Bathroom Closet			NAD		
LNM	LNM1-1	Bathroom	Black Mastic (Mott. Linoleum)	NA	NAD	N	I
	LNM1-2	Bathroom Closet			NAD		

Bold – Indicates that material is Asbestos Containing (>1% Asbestos)

***Indicates that material is ACM contaminated due to association with ACM**

NAD – No Asbestos Detected

NA – Not Analyzed

NA/PS – Not Analyzed/Positive Stop

HA – Homogeneous Area

I – Intact (little or no damage)

D – Damaged (≤25% local or ≤10% distributed)

SD – Significantly Damaged (≥25% local or ≥10% distributed)

N/A – Not Applicable

APPENDIX A
SAMPLE ANALYSIS RESULTS IN TABULAR FORM
58 Canal Street
Lyons, New York 14489

HA	Sample No.	Location	Material	Quantity	Results	Friable (Y/N)	Condition
JC	JC1-1	2 nd Floor Living Room	White Joint Compound	NA	NAD	Y	I
	JC1-2	3 rd Floor Living Room			NAD		
	JC1-3	2 nd Floor Dining Room			NAD		
	JC1-4	2 nd Floor Bedroom 1			NAD		
	JC1-5	3 rd Floor Bedroom 2			NAD		
SC	SC1-1	3 rd Floor Living Room	Skim Coat (White Plaster)	NA	NAD	Y	I
	SC1-2	2 nd Floor Living Room			NAD		
	SC1-3	3 rd Floor Linen Closet			NAD		
BC	BC1-1	3 rd Floor Living Room	Base Coat (Gray Plaster)	NA	NAD	Y	I
	BC1-2	2 nd Floor Living Room			NAD		
	BC1-3	3 rd Floor Linen Closet			NAD		
FT	FT2-1	3 rd Floor Kitchen	White 12x12" Floor Tile	NA	NAD	N	I
	FT2-2	3 rd Floor Kitchen			NAD		
FTM	FTM2-1	3 rd Floor Kitchen	Yellow Mastic (White 12x12")	NA	NAD	N	I
	FTM2-2	3 rd Floor Kitchen			NAD		

Bold – Indicates that material is Asbestos Containing (>1% Asbestos)

***Indicates that material is ACM contaminated due to association with ACM**

NAD – No Asbestos Detected

NA – Not Analyzed

NA/PS – Not Analyzed/Positive Stop

HA – Homogeneous Area

I – Intact (little or no damage)

D – Damaged ($\leq 25\%$ local or $\leq 10\%$ distributed)

SD – Significantly Damaged ($\geq 25\%$ local or $\geq 10\%$ distributed)

N/A – Not Applicable

APPENDIX A
SAMPLE ANALYSIS RESULTS IN TABULAR FORM
58 Canal Street
Lyons, New York 14489

HA	Sample No.	Location	Material	Quantity	Results	Friable (Y/N)	Condition
WG1	WG1-1	2 nd Floor Sliding Door (Kitchen)	White Window Glaze	NA	NAD	N	I
	WG1-2				NAD		

Bold – Indicates that material is Asbestos Containing (>1% Asbestos)

***Indicates that material is ACM contaminated due to association with ACM**

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NA – Not Analyzed

NA/PS – Not Analyzed/Positive Stop

HA – Homogeneous Area

I – Intact (little or no damage)

D – Damaged ($\leq 25\%$ local or $\leq 10\%$ distributed)

SD – Significantly Damaged ($\geq 25\%$ local or $\geq 10\%$ distributed)

N/A – Not Applicable

APPENDIX A
SAMPLE ANALYSIS RESULTS IN TABULAR FORM
60 Canal Street
Lyons, New York 14489

HA	Sample No.	Location	Material	Quantity	Results	Friable (Y/N)	Condition
LN	LN1-1	Bathroom	Green Linoleum	N/A	NAD	N	I
	LN1-2	Bathroom			NAD		
LNM	LNM1-1	Bathroom	Yellow Mastic (Green Linoleum)	N/A	NAD	N	I
	LNM1-2	Bathroom			NAD		
SM	SM1-1	Kitchen Sink	Black Sink Mastic	5 SF	7.1% Chrysotile	N	I
	SM1-2	Kitchen Sink			NA/PS		
WJ	WJ1-1	Dining Room Wall	White Wire Jacketing	N/A	NAD	N	I
	WJ1-2	Dining Room Wall			NAD		
WC	WC1-1	Exterior Window Above Entry Door	White Window Caulk	N/A	NAD	N	I
	WC1-2	Exterior Window Above Entry Door			NAD		
WP	WP1-1	Hallway Outside Bedroom	White Wall Patching	N/A	NAD	Y	I
	WP1-2	Hallway Outside Bedroom			NAD		
CT	CT1-1	Living Room Ceiling	Brown 9x9" Ceiling tile	N/A	NAD	N	I
	CT1-2	Dining Room Ceiling			NAD		
FT	FT1-1	Dining Room	Tan Speckled 9x9" Floor Tile	300 SF	6.9% Chrysotile	N	I
	FT1-2	Linen Closet			NA/PS		

Bold – Indicates that material is Asbestos Containing (>1% Asbestos)

***Indicates that material is ACM contaminated due to association with ACM**

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NA – Not Analyzed

NA/PS – Not Analyzed/Positive Stop

HA – Homogeneous Area

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N/A – Not Applicable

APPENDIX A
SAMPLE ANALYSIS RESULTS IN TABULAR FORM
60 Canal Street
Lyons, New York 14489

HA	Sample No.	Location	Material	Quantity	Results	Friable (Y/N)	Condition
FTM	FTM1-1	Dining Room	Black Mastic (Tan 9x9" FT)	300 SF	3.0 % Chrysotile	N	I
	FTM1-2	Linen Closet			NA/PS		
DW	DW1-1	Hallway Outside Bedroom	White Drywall	N/A	NAD	Y	I
	DW1-2	Bedroom Closet			NAD		
	DW1-3	Storage Room			NAD		

Bold – Indicates that material is Asbestos Containing (>1% Asbestos)

***Indicates that material is ACM contaminated due to association with ACM**

NAD – No Asbestos Detected

NA – Not Analyzed

NA/PS – Not Analyzed/Positive Stop

HA – Homogeneous Area

I – Intact (little or no damage)

D – Damaged ($\leq 25\%$ local or $\leq 10\%$ distributed)

SD – Significantly Damaged ($\geq 25\%$ local or $\geq 10\%$ distributed)

N/A – Not Applicable

APPENDIX A
SAMPLE ANALYSIS RESULTS IN TABULAR FORM
62 Canal Street
Lyons, New York 14489

HA	Sample No.	Location	Material	Quantity	Results	Friable (Y/N)	Condition
WC	WC1-1	Exterior Window	White Window Caulk	N/A	NAD	N	I
	1C1-2	Exterior Window			NAD		
DT	DT1-1	Ducts in Basement	White Duct Tape	30 SF	67% Chrysotile	N	I
	DT1-2	Ducts in Basement			NA/PS		
DW	DW1-1	Front Room	White Drywall	N/A	NAD	Y	I
	DW1-2	Bedroom			NAD		
	DW1-3	Dining Room			NAD		
LN	LN1-1	Front Room	Marbled Linoleum	N/A	NAD	N	I
	LN1-2	Hallway/ Corridor			NAD		
FT	FT1-1	Hallway/ Corridor	Tan Speckled 9x9" Floor Tile	250 SF	8.4% Chrysotile	N	I
	FT1-2	Bedroom 1			NA/PS		
FTM	FTM1-1	Hallway/ Corridor	Black Mastic (Tan Sp. 9x9")	250 SF	2.2% Chrysotile	N	I
	FTM1-2	Bedroom 1			NA/PS		
LN	LN2-1	Kitchen	Brick Linoleum	N/A	NAD	N	I
	LN2-2	Kitchen			NAD		

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***Indicates that material is ACM contaminated due to association with ACM**

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NA – Not Analyzed

NA/PS – Not Analyzed/Positive Stop

HA – Homogeneous Area

I – Intact (little or no damage)

D – Damaged (≤25% local or ≤10% distributed)

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N/A – Not Applicable

APPENDIX A
SAMPLE ANALYSIS RESULTS IN TABULAR FORM
62 Canal Street
Lyons, New York 14489

HA	Sample No.	Location	Material	Quantity	Results	Friable (Y/N)	Condition
LNM	LNM2-1	Kitchen	Tan Mastic (Brick Linoleum)	N/A	NAD	N	I
	LNM2-2	Kitchen			NAD		
LN	LN3-1	Kitchen	Brown Block Linoleum	N/A	NAD	N	I
	LN3-2				NAD		
LNM	LNM3-1	Kitchen	Tan Mastic (Brown Block Lin)	N/A	NAD	N	I
	LNM3-2				NAD		
LN*	LN4-1	Front Room	Red Linoleum	400 SF	Trace	N	I
	LN4-2				Trace		
LNM	LNM4-1	Front Room	Black Mastic (Red Linoleum)	400 SF	7.2% Chrysotile	N	I
	LNM4-2				NA/PS		

Bold – Indicates that material is Asbestos Containing (>1% Asbestos)

***Indicates that material is ACM contaminated due to association with ACM**

NAD – No Asbestos Detected

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NA/PS – Not Analyzed/Positive Stop

HA – Homogeneous Area

I – Intact (little or no damage)

D – Damaged ($\leq 25\%$ local or $\leq 10\%$ distributed)

SD – Significantly Damaged ($\geq 25\%$ local or $\geq 10\%$ distributed)

N/A – Not Applicable

APPENDIX A
SAMPLE ANALYSIS RESULTS IN TABULAR FORM
64 Canal Street
Lyons, New York 14489

HA	Sample No.	Location	Material	Quantity	Results	Friable (Y/N)	Condition
DW	DW1-1	Apt A LR/K	Gray Drywall	N/A	NAD	Y	I
	DW1-2	Apt A LR/ K			NAD		
	DW1-3	Apt A LR Ceiling			NAD		
SC	SC1-1	Apt A LR/K	White Skim Coat	N/A	NAD	Y	I
	SC1-2	Apt A LR/K			NAD		
	SC1-3	Apt A LR Ceiling			NAD		
PL	PL1-1	Bedroom Apt A	White Plaster	N/A	NAD	Y	I
	PL1-2	Apt A LR/K			NAD		
	PL1-3	Apt A LR/K			NAD		
PL	PL2-1	Bedroom Apt A	Gray Plaster	NA	NAD	Y	I
	PL2-2	Apt A LR/K			Trace		
	PL2-3	Apt A LR/K			Trace		
JC	JC1-1	Apt A LR/K	White Joint Compound	N/A	NAD	Y	I
	JC1-2	Apt A LR/K			NAD		
	JC1-3	Apt A LR Ceiling			NAD		

Bold – Indicates that material is Asbestos Containing (>1% Asbestos)

***Indicates that material is ACM contaminated due to association with ACM**

NAD – No Asbestos Detected

NA – Not Analyzed

NA/PS – Not Analyzed/Positive Stop

HA – Homogeneous Area

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APPENDIX A
SAMPLE ANALYSIS RESULTS IN TABULAR FORM
64 Canal Street
Lyons, New York 14489

HA	Sample No.	Location	Material	Quantity	Results	Friable (Y/N)	Condition
TG	TG1-1	Apt A LR/ K	Gray Tile Grout	N/A	NAD	N	I
	TG1-2	Apt A LR/ K			NAD		
TC	TC1-1	Apt A LR/ K	White Tile Cement	N/A	NAD	N	I
	TC1-2	Apt A LR/ K			NAD		
CT	CT1-1	Entry Stairwell	2x4' White Speckled Ceiling Tile	N/A	NAD	Y	I
	CT1-2	Entry Stairwell			NAD		
FT	FT1-1	Apartment D	Brown 9x9" Floor Tile	300 SF	5.1% Chrysotile	N	I
	FT1-2	Apartment D			NA/PS		
FTM	FTM1-1	Apartment D	Black Mastic (9x9" FT)	300 SF	3.9 % Chrysotile	N	I
	FTM1-2	Apartment D			NA/PS		
FT	FT2-1	Apartment C	White 12x12" Floor Tile	N/A	NAD	N	I
	FT2-2	Apartment C			NAD		
LN	LN1-1	Apartment B Closet	Green Linoleum	75 SF	18% Chrysotile	N	I
	LN1-2	Apartment B Closet			NA/PS		
LNM	LNM1-1	Apartment C Entry Way	Yellow Linoleum Glue	N/A	NAD	N	I
	LNM1-2	Apartment C Entry Way			NAD		

Bold – Indicates that material is Asbestos Containing (>1% Asbestos)

***Indicates that material is ACM contaminated due to association with ACM**

NAD – No Asbestos Detected

NA – Not Analyzed

NA/PS – Not Analyzed/Positive Stop

HA – Homogeneous Area

I – Intact (little or no damage)

D – Damaged ($\leq 25\%$ local or $\leq 10\%$ distributed)

SD – Significantly Damaged ($\geq 25\%$ local or $\geq 10\%$ distributed)

N/A – Not Applicable

APPENDIX A
SAMPLE ANALYSIS RESULTS IN TABULAR FORM
64 Canal Street
Lyons, New York 14489

HA	Sample No.	Location	Material	Quantity	Results	Friable (Y/N)	Condition
LN	LN2-1	Apt C Entry Way	Squared Linoleum	N/A	NAD	N	I
	LN2-2	Apt C Entry Way			NAD		

Bold – Indicates that material is Asbestos Containing (>1% Asbestos)

***Indicates that material is ACM contaminated due to association with ACM**

NAD – No Asbestos Detected

NA – Not Analyzed

NA/PS – Not Analyzed/Positive Stop

HA – Homogeneous Area

I – Intact (little or no damage)

D – Damaged ($\leq 25\%$ local or $\leq 10\%$ distributed)

SD – Significantly Damaged ($\geq 25\%$ local or $\geq 10\%$ distributed)

N/A – Not Applicable

APPENDIX B:
BULK SAMPLE CHAIN OF CUSTODY
AND LABORATORY RESULTS



EMSL Analytical, Inc.

2975 Brighton Henrietta Town Line Rd ,100 Ste 130 Rochester, NY 14623

Tel/Fax: (585) 957-9436 / (585) 957-9437

<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 532101441

Customer ID: LIRO50

Customer PO: 19-241-2291

Project ID:

Attention: Jason Colvin
The LiRo Group
690 Delaware Avenue
Buffalo, NY 14209

Phone: (716) 882-5476

Fax: (716) 882-9640

Received Date: 08/17/2021 2:10 PM

Analysis Date: 08/19/2021

Collected Date:

Project: 19.241-2291. Wayne County Regional Land Bank. Lyon, NY. 58 Canal St

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID SC1-1 532101441-0001		Description Living Room (2nd Floor) - White Plaster Homogeneity Homogeneous			
PLM NYS 198.1 Friable	08/19/2021	White		10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID SC1-2 532101441-0002		Description Living Room (3rd Floor) - White Plaster Homogeneity Homogeneous			
PLM NYS 198.1 Friable	08/19/2021	White		10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID SC1-3 532101441-0003		Description Bedroom 2 Closet (2nd Floor) - White Plaster Homogeneity Homogeneous			
PLM NYS 198.1 Friable	08/19/2021	White		5.00% Ca Carbonate 95.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID BC1-1 532101441-0004		Description Living Room (2nd Floor) - Gray Plaster Homogeneity Homogeneous			
PLM NYS 198.1 Friable	08/19/2021	Gray		15.00% Ca Carbonate 85.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID BC1-2 532101441-0005		Description Living Room (3rd Floor) - Gray Plaster Homogeneity Homogeneous			
PLM NYS 198.1 Friable	08/19/2021	Gray	2.00% Hair	15.00% Ca Carbonate 83.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

Initial report from: 08/19/2021 13:16:25



EMSL Analytical, Inc.

2975 Brighton Henrietta Town Line Rd ,100 Ste 130 Rochester, NY 14623

Tel/Fax: (585) 957-9436 / (585) 957-9437

<http://www.EMSL.com> / rochesterlab@EMSL.com

EMSL Order: 532101441

Customer ID: LIRO50

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID BC1-3 532101441-0006		Description Bedroom 2 Closet (2nd Floor) - Gray Plaster			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable	08/19/2021	Gray	2.00% Hair	15.00% Ca Carbonate 83.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID FT1-1 532101441-0007		Description Entry Stairwell - Brown 9x9 Floor Tile			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/19/2021	Red	None	91.40% Other	8.60% Chrysotile
TEM NYS 198.4 NOB	08/19/2021				Positive Stop (Not Analyzed)
Sample ID FT1-2 532101441-0008		Description Bedroom Hallway - Brown 9x9 Floor Tile			
		Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/19/2021				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	08/19/2021				Positive Stop (Not Analyzed)
Sample ID FTM1-1 532101441-0009		Description Entry Stairwell - Black Mastic Associated W/ Brown 9x9			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/19/2021	Black	None	98.10% Other	1.90% Chrysotile
TEM NYS 198.4 NOB	08/19/2021				Positive Stop (Not Analyzed)
Sample ID FTM1-2 532101441-0010		Description Bedroom Hallway - Black Mastic Associated W/ Brown 9x9			
		Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/19/2021				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	08/19/2021				Positive Stop (Not Analyzed)
Sample ID DW1-1 532101441-0011		Description Living Room 2nd Floor - Gray Drywall			
		Homogeneity Heterogeneous			
PLM NYS 198.1 Friable	08/19/2021	Brown/ White	12.00% Cellulose	85.00% Gypsum 3.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

Initial report from: 08/19/2021 13:16:25



EMSL Analytical, Inc.

2975 Brighton Henrietta Town Line Rd , 100 Ste 130 Rochester, NY 14623

Tel/Fax: (585) 957-9436 / (585) 957-9437

<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 532101441

Customer ID: LIRO50

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID DW1-2 532101441-0012		Description Living Room 3rd Floor - Gray Drywall			
		Homogeneity Heterogeneous			
PLM NYS 198.1 Friable	08/19/2021	Brown/ White	12.00% Cellulose	85.00% Gypsum 3.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID DW1-3 532101441-0013		Description Dining Room 2nd Floor - Gray Drywall			
		Homogeneity Heterogeneous			
PLM NYS 198.1 Friable	08/19/2021	Brown/ Pink	12.00% Cellulose	85.00% Gypsum 3.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID DW1-4 532101441-0014		Description Bedroom 1 2nd Floor - Gray Drywall			
		Homogeneity Heterogeneous			
PLM NYS 198.1 Friable	08/19/2021	Brown/ White	12.00% Cellulose	85.00% Gypsum 3.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID DW1-5 532101441-0015		Description Bedroom 1 3rd Floor - Gray Drywall			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable	08/19/2021	Pink	2.00% Cellulose	95.00% Gypsum 3.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID WG1-1 532101441-0016		Description 2nd Floor Kitchen Sliding Door - Window Glaze (White)			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/19/2021	White		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/19/2021	White		100.00% Other	None Detected
Sample ID WG1-2 532101441-0017		Description 2nd Floor Kitchen Sliding Door - Window Glaze (White)			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/19/2021	White		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/19/2021	White		100.00% Other	None Detected

Initial report from: 08/19/2021 13:16:25



EMSL Analytical, Inc.

2975 Brighton Henrietta Town Line Rd ,100 Ste 130 Rochester, NY 14623

Tel/Fax: (585) 957-9436 / (585) 957-9437

<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 532101441

Customer ID: LIRO50

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID JC1-1 532101441-0018		Description 2nd Floor Living Room - Joint Compound Homogeneity			
PLM NYS 198.1 Friable	08/19/2021				Layer Not Present
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID JC1-2 532101441-0019		Description 3rd Floor Living Room - Joint Compound Homogeneity			
PLM NYS 198.1 Friable	08/19/2021				Layer Not Present
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID JC1-3 532101441-0020		Description 2nd Floor Dining Room - Joint Compound Homogeneity Homogeneous			
PLM NYS 198.1 Friable	08/19/2021	White		20.00% Ca Carbonate 80.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID JC1-4 532101441-0021		Description Bedroom 1 2nd Floor - Joint Compound Homogeneity			
PLM NYS 198.1 Friable	08/19/2021				Layer Not Present
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID JC1-5 532101441-0022		Description 3rd Floor Bedroom - Joint Compound Homogeneity Homogeneous			
PLM NYS 198.1 Friable	08/19/2021	White		20.00% Ca Carbonate 80.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID LN1-1 532101441-0023		Description Bathroom (2nd Floor) - Mottled Linoleum Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/19/2021	White	<1.00% Glass	100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/19/2021	White		100.00% Other	None Detected

Initial report from: 08/19/2021 13:16:25



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<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 532101441

Customer ID: LIRO50

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID LN1-2 532101441-0024		Description Bathroom Closet - Mottled Linoleum Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/19/2021	White	<1.00% Glass	100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/19/2021	White		100.00% Other	None Detected
Sample ID LNM1-1 532101441-0025		Description Bathroom (2nd Floor) - Black Mastic (Mottled Linoleum) Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/19/2021	Black	1.00% Glass	99.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/19/2021	Black		100.00% Other	None Detected
Sample ID LNM1-2 532101441-0026		Description Bathroom Closet - Black Mastic (Mottled Linoleum) Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/19/2021	Black	<1.00% Glass	100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/19/2021	Black		100.00% Other	None Detected
Sample ID FT2-1 532101441-0027		Description 3rd Floor Kitchen - White 12x12 Floor Tile Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/19/2021	White		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/19/2021	White		100.00% Other	None Detected
Sample ID FT2-2 532101441-0028		Description 3rd Floor Kitchen - White 12x12 Floor Tile Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/19/2021	White		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/19/2021	White		100.00% Other	None Detected
Sample ID FTM2-1 532101441-0029		Description 3rd Floor Kitchen - Yellow Mastic (White 12x12 FT) Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/19/2021	Yellow		100.00% Other	Inconclusive: None Detected
Sample below method recommended minimum weight; analyzed at client's request.					
TEM NYS 198.4 NOB	08/19/2021	Yellow		100.00% Other	None Detected

Initial report from: 08/19/2021 13:16:25



EMSL Analytical, Inc.

2975 Brighton Henrietta Town Line Rd ,100 Ste 130 Rochester, NY 14623

Tel/Fax: (585) 957-9436 / (585) 957-9437

<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 532101441

Customer ID: LIRO50

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID FTM2-2 532101441-0030		Description 3rd Floor Kitchen - Yellow Mastic (White 12x12 FT)			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB 08/19/2021	08/19/2021	Yellow		100.00% Other	Inconclusive: None Detected
Sample below method recommended minimum weight; analyzed at client's request.					
TEM NYS 198.4 NOB 08/19/2021	08/19/2021	Yellow		100.00% Other	None Detected
Sample ID FT3-1 532101441-0031		Description 3rd Floor Landing Area - White 9x9 Floor Tile			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB 08/19/2021	08/19/2021	Brown	None	90.30% Other	9.70% Chrysotile
TEM NYS 198.4 NOB 08/19/2021	08/19/2021				Positive Stop (Not Analyzed)
Sample ID FT3-2 532101441-0032		Description 3rd Floor Landing Area - White 9x9 Floor Tile			
		Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB 08/19/2021	08/19/2021				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB 08/19/2021	08/19/2021				Positive Stop (Not Analyzed)
Sample ID FTM3-1 532101441-0033		Description 3rd Floor Landing Area - Black Mastic (White 9x9 FT)			
		Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB 08/19/2021	08/19/2021	Black	None	95.20% Other	4.80% Chrysotile
TEM NYS 198.4 NOB 08/19/2021	08/19/2021				Positive Stop (Not Analyzed)
Sample ID FTM3-2 532101441-0034		Description 3rd Floor Landing Area - Black Mastic (White 9x9 FT)			
		Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB 08/19/2021	08/19/2021				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB 08/19/2021	08/19/2021				Positive Stop (Not Analyzed)

Initial report from: 08/19/2021 13:16:25



EMSL Analytical, Inc.

2975 Brighton Henrietta Town Line Rd ,100 Ste 130 Rochester, NY 14623

Tel/Fax: (585) 957-9436 / (585) 957-9437

<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 532101441

Customer ID: LIRO50

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via NYS ELAP Approved Methods. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 8/17/2021

Sample Receipt Time: 2:10 PM

Analysis Completed Date: 8/19/2021

Analysis Completed Time: 11:01 AM

Analyst(s):

Jessica Schwartz PLM NYS 198.1 Friable (4)

Melissa Hartwig PLM NYS 198.1 Friable (9)

Melissa Hartwig PLM NYS 198.6 NOB (14)

Peter Donato TEM NYS 198.4 NOB (10)

Samples reviewed and approved by:

Peter Donato, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. All samples examined for the presence of vermiculite when analyzed via NYS 198.1. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos. Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government. 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. NOB= Non friable organically bound; N/A= Not applicable VCM= Vermiculite containing material.

Samples analyzed by EMSL Analytical, Inc. Rochester, NY NYS ELAP 12088, NVLAP Lab Code 600183-0

Initial report from: 08/19/2021 13:16:25

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>cinnaminsonleadlab@emsl.com

EMSL Order: 202106367
CustomerID: LIRO50
CustomerPO: 19-241-2291
ProjectID:

Attn: **J. Seward**
The LiRo Group
690 Delaware Avenue
Buffalo, NY 14209

Phone: (716) 882-5476
Fax: (716) 882-9640
Received: 08/18/21 1:40 PM
Collected: 8/17/2021

Project: **Wayne County Regional Land Bank / Lyons, NJ / 19-241-2291**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>Lead Concentration</i>
1	202106367-0001	8/17/2021	8/23/2021	0.2647 g	0.57 % wt
Site: Stairwell Wall / beige paint					

Phillip Worby, Lead Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 08/25/2021 10:54:53



EMSL Analytical, Inc.

2975 Brighton Henrietta Town Line Rd ,100 Ste 130 Rochester, NY 14623

Tel/Fax: (585) 957-9436 / (585) 957-9437

<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 532101463

Customer ID: LIRO50E

Customer PO:

Project ID:

Attention: J Colvin
Liro Engineers
85 Allen Street
Rochester, NY 14608

Phone: (585) 322-3930

Fax:

Received Date: 08/19/2021 3:27 PM

Analysis Date: 08/23/2021

Collected Date: 08/19/2021

Project: Job #19-241-2291, Wayne County Regional Land Bank, Lyons NY, 60 Canal Street

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID CT1-1 532101463-0001		Description Homogeneity	Living Room Ceiling - 9x9 Ceiling Tile Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	Brown/ White		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/23/2021	Brown/ White		100.00% Other	None Detected
Sample ID CT1-2 532101463-0002		Description Homogeneity	Living Room Ceiling - 9x9 Ceiling Tile Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	Brown/ White		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/23/2021	Brown/ White		100.00% Other	None Detected
Sample ID DW1-1 532101463-0003		Description Homogeneity	Hallway Outside Bedroom - White Drywall Heterogeneous		
PLM NYS 198.1 Friable	08/23/2021	Brown/ White	10.00% Cellulose	80.00% Gypsum 10.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID DW1-2 532101463-0004		Description Homogeneity	Bedroom Closet - White Drywall Heterogeneous		
PLM NYS 198.1 Friable	08/23/2021	Brown/ White	10.00% Cellulose	80.00% Gypsum 10.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID DW1-3 532101463-0005		Description Homogeneity	Storage Closet - White Drywall Heterogeneous		
PLM NYS 198.1 Friable	08/23/2021	Brown/ White	5.00% Cellulose	80.00% Gypsum 15.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

Initial report from: 08/23/2021 14:50:14



EMSL Analytical, Inc.

2975 Brighton Henrietta Town Line Rd , 100 Ste 130 Rochester, NY 14623

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<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 532101463

Customer ID: LIRO50E

Customer PO:

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID FT1-1 532101463-0006		Description Dining Room - Tan Speckled 9"x9" Floor Tile Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	Orange	None	93.10% Other	6.90% Chrysotile
TEM NYS 198.4 NOB	08/23/2021				Positive Stop (Not Analyzed)
Sample ID FT1-2 532101463-0007		Description Linen Closet - Tan Speckled 9"x9" Floor Tile Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	08/23/2021				Positive Stop (Not Analyzed)
Sample ID FTM1-1 532101463-0008		Description Dining Closet - Black Mastic (9x9" Tan Spackled) Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	Black	None	100.00% Other	Inconclusive : <1% Chrysotile
TEM NYS 198.4 NOB	08/23/2021	Black	None	97.00% Other	3.00% Chrysotile
Sample ID FTM1-2 532101463-0009		Description Linen Closet - Black Mastic (9x9" Tan Spackled) Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	Black	None	100.00% Other	Inconclusive : <1% Chrysotile
TEM NYS 198.4 NOB	08/23/2021				Positive Stop (Not Analyzed)
Sample ID WP1-1 532101463-0010		Description Hallway Outside Bedroom - White Wall Patch Homogeneity Homogeneous			
PLM NYS 198.1 Friable	08/23/2021	White		10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID WP1-2 532101463-0011		Description Hallway Outside Bedroom - White Wall Patch Homogeneity Homogeneous			
PLM NYS 198.1 Friable	08/23/2021	White		10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

Initial report from: 08/23/2021 14:50:14



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EMSL Order: 532101463

Customer ID: LIRO50E

Customer PO:

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID LN1-1 532101463-0012		Description Bathroom - Linoleum-Green Homogeneity Heterogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	Various	<1.00% Glass	100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/23/2021	Various		100.00% Other	None Detected
Sample ID LN1-2 532101463-0013		Description Bathroom - Linoleum-Green Homogeneity Heterogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	Various	<1.00% Glass	100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/23/2021	Various		100.00% Other	None Detected
Sample ID LNM1-1 532101463-0014		Description Bathroom - Yellow Mastic (Green Linoleum) Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	Orange		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/23/2021	Orange		100.00% Other	None Detected
Sample ID LNM1-2 532101463-0015		Description Bathroom - Yellow Mastic (Green Linoleum) Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	Orange		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/23/2021	Orange		100.00% Other	None Detected
Sample ID SM1-1 532101463-0016		Description Kitchen Sink - Black Sink Mastic Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	Black	None	92.90% Other	7.10% Chrysotile
TEM NYS 198.4 NOB	08/23/2021				Positive Stop (Not Analyzed)
Sample ID SM1-2 532101463-0017		Description Kitchen Sink - Black Sink Mastic Homogeneity			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	08/23/2021				Positive Stop (Not Analyzed)

Initial report from: 08/23/2021 14:50:14



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EMSL Order: 532101463

Customer ID: LIRO50E

Customer PO:

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID WJ1-1 532101463-0018		Description Dining Room-Electrical - White Wire Jacket Homogeneity Homogeneous			
PLM NYS 198.1 Friable	08/23/2021	White	95.00% Cellulose	5.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID WJ1-2 532101463-0019		Description Dining Room-Electrical - White Wire Jacket Homogeneity Homogeneous			
PLM NYS 198.1 Friable	08/23/2021	White	95.00% Cellulose	5.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID WC1-1 532101463-0020		Description Exterior-Window Above Door - White Window Caulk Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	White		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/23/2021	White		100.00% Other	None Detected
Sample ID WC1-2 532101463-0021		Description Exterior-Window Above Door - White Window Caulk Homogeneity Homogeneous			
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	White		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/23/2021	White		100.00% Other	None Detected

Initial report from: 08/23/2021 14:50:14



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EMSL Order: 532101463

Customer ID: LIRO50E

Customer PO:

Project ID:

Test Report:Asbestos Analysis of Bulk Material

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via NYS ELAP Approved Methods. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 8/19/2021

Sample Receipt Time: 3:27 PM

Analysis Completed Date: 8/23/2021

Analysis Completed Time: 9:51 AM

Analyst(s):

Jordan Ramos PLM NYS 198.1 Friable (7)

Jordan Ramos PLM NYS 198.6 NOB (12)

Peter Donato TEM NYS 198.4 NOB (9)

Samples reviewed and approved by:

Peter Donato, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. All samples examined for the presence of vermiculite when analyzed via NYS 198.1. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos. Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government. 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. NOB= Non friable organically bound; N/A= Not applicable VCM= Vermiculite containing material.

Samples analyzed by EMSL Analytical, Inc. Rochester, NY NYS ELAP 12088, NVLAP Lab Code 600183-0

Initial report from: 08/23/2021 14:50:14



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn:

Jason Colvin
The LiRo Group
690 Delaware Avenue
Buffalo, NY 14209

8/26/2021

Phone: (716) 882-5476
Fax: (716) 882-9640

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 8/20/2021. The results are tabulated on the attached data pages for the following client designated project:

19-241-2291 Wayne County Regional Land Bank

The reference number for these samples is EMSL Order #012109455. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

Phillip Worby, Environmental Chemistry
Laboratory Director



The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.
NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, CA ELAP 1877

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

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<http://www.EMSL.com>EnvChemistry2@emsl.com

EMSL Order: 012109455
CustomerID: LIRO50
CustomerPO: 19-241-2291
ProjectID:

Attn: **Jason Colvin**
The LiRo Group
690 Delaware Avenue
Buffalo, NY 14209

Phone: (716) 882-5476
Fax: (716) 882-9640
Received: 8/20/2021 09:20 AM

Project: 19-241-2291 Wayne County Regional Land Bank

Analytical Results

Client Sample Description CA- 1/2/3
Exterior window above door

Collected: 8/19/2021 9:00:00 AM

Lab ID: 012109455-0001

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
GC-SVOA					
3540C/8082A	Aroclor-1016	ND D	0.95 mg/Kg	8/20/2021 PG	8/24/2021 00:00 EH
3540C/8082A	Aroclor-1221	ND D	0.95 mg/Kg	8/20/2021 PG	8/24/2021 00:00 EH
3540C/8082A	Aroclor-1232	ND D	0.95 mg/Kg	8/20/2021 PG	8/24/2021 00:00 EH
3540C/8082A	Aroclor-1242	ND D	0.95 mg/Kg	8/20/2021 PG	8/24/2021 00:00 EH
3540C/8082A	Aroclor-1248	ND D	0.95 mg/Kg	8/20/2021 PG	8/24/2021 00:00 EH
3540C/8082A	Aroclor-1254	ND D	0.95 mg/Kg	8/20/2021 PG	8/24/2021 00:00 EH
3540C/8082A	Aroclor-1260	ND D	0.95 mg/Kg	8/20/2021 PG	8/24/2021 00:00 EH
3540C/8082A	Aroclor-1262	ND D	0.95 mg/Kg	8/20/2021 PG	8/24/2021 00:00 EH
3540C/8082A	Aroclor-1268	ND D	0.95 mg/Kg	8/20/2021 PG	8/24/2021 00:00 EH

Definitions:

MDL - method detection limit

J - Result was below the reporting limit, but at or above the MDL

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit (Analytical)

D - Dilution Sample required a dilution which was used to calculate final results



EMSL Analytical, Inc.

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EMSL Order: 532101464

Customer ID: LIRO50E

Customer PO: 19-241-2291

Project ID:

Attention: J Colvin

Liro Engineers

85 Allen Street

Rochester, NY 14608

Phone: (585) 322-3930

Fax:

Received Date: 08/19/2021 3:49 PM

Analysis Date: 08/23/2021

Collected Date: 08/19/2021

Project: Job #19-241-2291, Wayne County Regional Land Bank, Lyons NY, 62 Canal Street

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID FT1-1 532101464-0001		Description Homogeneity	Hallway/Corridor - Tan Speckled 9x9" Floor Tile Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	Orange	None	91.60% Other	8.40% Chrysotile
TEM NYS 198.4 NOB	08/23/2021				Positive Stop (Not Analyzed)
Sample ID FT1-2 532101464-0002		Description Homogeneity	Room 1 - Tan Speckled 9x9" Floor Tile Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	08/23/2021				Positive Stop (Not Analyzed)
Sample ID FTM1-1 532101464-0003		Description Homogeneity	Hallway/Corridor - Black Mastic (Tan Speckled 9x9" FT) Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	Black	None	97.80% Other	2.20% Chrysotile
TEM NYS 198.4 NOB	08/23/2021				Positive Stop (Not Analyzed)
Sample ID FTM1-2 532101464-0004		Description Homogeneity	Room 1 - Black Mastic (Tan Speckled 9x9" FT) Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	08/23/2021				Positive Stop (Not Analyzed)
Sample ID LN1-1 532101464-0005		Description Homogeneity	Front Room - Marbled Linoleum Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	White	3.60% Glass	96.40% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/23/2021	White		100.00% Other	None Detected

Report amended: 09/16/2021 09:32:00 Replaces initial report from: 08/23/2021 15:35:42 Reason Code: Data Entry-Change to Location



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EMSL Order: 532101464

Customer ID: LIRO50E

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID LN1-2 532101464-0006		Description Homogeneity	Hallway/Corridor - Marbled Linoleum Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	White	3.40% Glass	96.60% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/23/2021	White		100.00% Other	None Detected
Sample ID LN2-1 532101464-0007		Description Homogeneity	Kitchen - Brick Pattern Linoleum Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	Brown	2.10% Glass	97.90% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/23/2021	Brown		100.00% Other	None Detected
Sample ID LN2-2 532101464-0008		Description Homogeneity	Kitchen - Brick Pattern Linoleum Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	Brown	1.90% Glass	98.10% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/23/2021	Brown		100.00% Other	None Detected
Sample ID LNM2-1 532101464-0009		Description Homogeneity	Kitchen - Tan Mastic (Brick Linoleum) Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	Tan	5.70% Glass	94.30% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/23/2021	Tan		100.00% Other	None Detected
Sample ID LNM2-2 532101464-0010		Description Homogeneity	Kitchen - Tan Mastic (Brick Linoleum) Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	Tan	5.60% Glass	94.40% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/23/2021	Tan		100.00% Other	None Detected
Sample ID LN3-1 532101464-0011		Description Homogeneity	Kitchen - Brown Linoleum Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	Brown	2.00% Glass	98.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/23/2021	Brown		100.00% Other	None Detected

Report amended: 09/16/2021 09:32:00 Replaces initial report from: 08/23/2021 15:35:42 Reason Code: Data Entry-Change to Location



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EMSL Order: 532101464

Customer ID: LIRO50E

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID LN3-2 532101464-0012		Description Homogeneity	Kitchen - Brown Linoleum Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	Brown	1.60% Glass	98.40% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/23/2021	Brown		100.00% Other	None Detected
Sample ID LNM3-1 532101464-0013		Description Homogeneity	Kitchen - Tan Mastic (Brown Linoleum) Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	Brown	2.90% Glass	97.10% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/23/2021	Brown		100.00% Other	None Detected
Sample ID LNM3-2 532101464-0014		Description Homogeneity	Kitchen - Tan Mastic (Brown Linoleum) Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	Brown	2.70% Glass	97.30% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/23/2021	Brown		100.00% Other	None Detected
Sample ID DW1-1 532101464-0015		Description Homogeneity	Front Room - White Drywall Heterogeneous		
PLM NYS 198.1 Friable	08/23/2021	Tan/ White	10.00% Cellulose	85.00% Gypsum 5.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID DW1-2 532101464-0016		Description Homogeneity	Room 1 - White Drywall Heterogeneous		
PLM NYS 198.1 Friable	08/23/2021	Tan/ White	10.00% Cellulose	85.00% Gypsum 5.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID DW1-3 532101464-0017		Description Homogeneity	Room 2 - White Drywall Heterogeneous		
PLM NYS 198.1 Friable	08/23/2021	Tan/ White	10.00% Cellulose	85.00% Gypsum 5.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

Report amended: 09/16/2021 09:32:00 Replaces initial report from: 08/23/2021 15:35:42 Reason Code: Data Entry-Change to Location



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EMSL Order: 532101464

Customer ID: LIRO50E

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID DT1-1 532101464-0018		Description Homogeneity	Basement-on HVAC Duct - White Duct Tape/Sealant Homogeneous		
PLM NYS 198.1 Friable	08/23/2021	White	20.00% Cellulose	13.00% Non-fibrous (other)	67.00% Chrysotile
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID DT1-2 532101464-0019		Description Homogeneity	Basement-on HVAC Duct - White Duct Tape/Sealant Homogeneous		
PLM NYS 198.1 Friable	08/23/2021				Positive Stop (Not Analyzed)
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID WC1-1 532101464-0020		Description Homogeneity	Exterior Window-Above Door - White Window Caulk Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	White		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/23/2021	White		100.00% Other	None Detected
Sample ID WC1-2 532101464-0021		Description Homogeneity	Exterior Window-Above Door - White Window Caulk Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	White		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	08/23/2021	White		100.00% Other	None Detected
Sample ID LN4-1 532101464-0022		Description Homogeneity	Front Room - Red Linoleum Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	Brown/ Black	None	100.00% Other	Inconclusive : <1% Chrysotile
TEM NYS 198.4 NOB	08/23/2021	Brown/ Black	None	100.00% Other	<1% Chrysotile
Sample ID LN4-2 532101464-0023		Description Homogeneity	Front Room - Red Linoleum Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	Brown/ Black	None	100.00% Other	Inconclusive : <1% Chrysotile
TEM NYS 198.4 NOB	08/23/2021	Brown/ Black	None	100.00% Other	<1% Chrysotile

Report amended: 09/16/2021 09:32:00 Replaces initial report from: 08/23/2021 15:35:42 Reason Code: Data Entry-Change to Location



EMSL Analytical, Inc.

2975 Brighton Henrietta Town Line Rd ,100 Ste 130 Rochester, NY 14623

Tel/Fax: (585) 957-9436 / (585) 957-9437

<http://www.EMSL.com> / rochesterlab@EMSL.com

EMSL Order: 532101464

Customer ID: LIRO50E

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID LNM4-1 532101464-0024		Description Homogeneity	Front Room - Black Mastic (Red Linoleum) Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021	Black	None	92.80% Other	7.20% Chrysotile
TEM NYS 198.4 NOB	08/23/2021				Positive Stop (Not Analyzed)
Sample ID LNM4-2 532101464-0025		Description Homogeneity	Front Room - Black Mastic (Red Linoleum)		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	08/23/2021				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	08/23/2021				Positive Stop (Not Analyzed)

Report amended: 09/16/2021 09:32:00 Replaces initial report from: 08/23/2021 15:35:42 Reason Code: Data Entry-Change to Location



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EMSL Order: 532101464

Customer ID: LIRO50E

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via NYS ELAP Approved Methods. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 8/19/2021

Sample Receipt Time: 3:49 PM

Analysis Completed Date: 8/23/2021

Analysis Completed Time: 11:02 AM

Analyst(s):

Peter Donato PLM NYS 198.1 Friable (4)

Peter Donato PLM NYS 198.6 NOB (17)

Peter Donato TEM NYS 198.4 NOB (14)

Samples reviewed and approved by:

Peter Donato, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. All samples examined for the presence of vermiculite when analyzed via NYS 198.1. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos. Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government. 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. NOB= Non friable organically bound; N/A= Not applicable VCM= Vermiculite containing material.

Samples analyzed by EMSL Analytical, Inc. Rochester, NY NYS ELAP 12088, NVLAP Lab Code 600183-0

Report amended: 09/16/2021 09:32:00 Replaces initial report from: 08/23/2021 15:35:42 Reason Code: Data Entry-Change to Location

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>cinnaminsonleadlab@emsl.com

EMSL Order: 202106425

CustomerID: LIRO50

CustomerPO: 19-241-2291

ProjectID:

Attn: **J. Seward**
The LiRo Group
690 Delaware Avenue
Buffalo, NY 14209

Phone: (716) 882-5476
Fax: (716) 882-9640
Received: 08/20/21 10:30 AM
Collected: 8/19/2021

Project: 19-241-2291 / Wayne County Regional Land Bank / Lyons, NY / 62 Canal St.

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>Lead Concentration</i>
LBP-1	202106425-0001	8/19/2021	8/24/2021	0.2505 g	0.091 % wt
Site: Room 1 - closet - red paint - wood					

Phillip Worby, Lead Laboratory Manager
or other approved signatory

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Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 08/27/2021 10:47:18



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<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 532101582

Customer ID: LIRO50E

Customer PO: 19-241-2291

Project ID:

Attention: J Colvin
Liro Engineers
85 Allen Street
Rochester, NY 14608

Phone: (585) 322-3930

Fax:

Received Date: 09/08/2021 9:47 AM

Analysis Date: 09/10/2021

Collected Date: 09/08/2021

Project: Job #19-241-2291, Wayne County Regional Land Bank, Lyons NY, 64 Canal St.

Test Report:Asbestos Analysis of Bulk Material

		Non-Asbestos			
Test	Analyzed Date	Color	Fibrous	Non-Fibrous	Asbestos
Sample ID DW1-1 532101582-0001		Description Apt A. Living Room/Kitchen - Gray Drywall Homogeneity Heterogeneous			
PLM NYS 198.1 Friable	09/10/2021	Brown/ White	10.00% Cellulose	85.00% Gypsum 5.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID DW1-2 532101582-0002		Description Apt A. Living Room/Kitchen - Gray Drywall Homogeneity Heterogeneous			
PLM NYS 198.1 Friable	09/10/2021	Brown/ White	10.00% Cellulose	85.00% Gypsum 5.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID DW1-3 532101582-0003		Description Apt A. Living Room/Kitchen ceiling - Gray Drywall Homogeneity Heterogeneous			
PLM NYS 198.1 Friable	09/10/2021	Brown/ White	10.00% Cellulose	85.00% Gypsum 5.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID SC1-1 532101582-0004		Description Apt A. Living Room/Kitchen - White Skim Coat Homogeneity Homogeneous			
PLM NYS 198.1 Friable	09/10/2021	White		10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID SC1-2 532101582-0005		Description Apt A. Living Room/Kitchen - White Skim Coat Homogeneity Homogeneous			
PLM NYS 198.1 Friable	09/10/2021	White		10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

Report amended: 09/16/2021 09:26:00 Replaces initial report from: 09/10/2021 13:33:52 Reason Code: Data Entry-Change to Location



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EMSL Order: 532101582

Customer ID: LIRO50E

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID SC1-3 532101582-0006		Description Homogeneity	Apt A. Living Room/Kitchen ceiling - White Skim Coat Homogeneous		
PLM NYS 198.1 Friable	09/10/2021	White		10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID PL1-1 532101582-0007		Description Homogeneity	Bedroom Apt. A - White Plaster Homogeneous		
PLM NYS 198.1 Friable	09/10/2021	White		10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID PL1-2 532101582-0008		Description Homogeneity	Living Room/Kitchen Apt. A - White Plaster Homogeneous		
PLM NYS 198.1 Friable	09/10/2021	White		10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID PL1-3 532101582-0009		Description Homogeneity	Living Room/Kitchen Apt. A - White Plaster Homogeneous		
PLM NYS 198.1 Friable	09/10/2021	White		10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID PL2-1 532101582-0010		Description Homogeneity	Bedroom Apt. A - Gray Plaster Homogeneous		
PLM NYS 198.1 Friable	09/10/2021	Gray	2.00% Hair	98.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID PL2-2 532101582-0011		Description Homogeneity	Apt. A LR/Kitchen - Gray Plaster Homogeneous		
PLM NYS 198.1 Friable	09/10/2021	Gray	2.00% Hair	97.75% Non-fibrous (other)	0.25% Chrysotile
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

Report amended: 09/16/2021 09:26:00 Replaces initial report from: 09/10/2021 13:33:52 Reason Code: Data Entry-Change to Location



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EMSL Order: 532101582

Customer ID: LIRO50E

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID PL2-3 532101582-0012		Description Homogeneity	Apt. A LR/Kitchen - Gray Plaster Homogeneous		
PLM NYS 198.1 Friable	09/10/2021	Gray	3.00% Hair	96.50% Non-fibrous (other)	0.50% Chrysotile
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID JC1-1 532101582-0013		Description Homogeneity	Apartment A - White Joint Compound Homogeneous		
PLM NYS 198.1 Friable	09/10/2021	White		10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID JC1-2 532101582-0014		Description Homogeneity	Apartment A - White Joint Compound Homogeneous		
PLM NYS 198.1 Friable	09/10/2021	White		10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID JC1-3 532101582-0015		Description Homogeneity	Apartment A - White Joint Compound Homogeneous		
PLM NYS 198.1 Friable	09/10/2021	White		10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID TG1-1 532101582-0016		Description Homogeneity	Apartment A Kitchen - Gray Tile Grout Homogeneous		
PLM NYS 198.1 Friable	09/10/2021	White		10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID TG1-2 532101582-0017		Description Homogeneity	Apartment A Kitchen - Gray Tile Grout Homogeneous		
PLM NYS 198.1 Friable	09/10/2021	White		10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed

Report amended: 09/16/2021 09:26:00 Replaces initial report from: 09/10/2021 13:33:52 Reason Code: Data Entry-Change to Location



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EMSL Order: 532101582

Customer ID: LIRO50E

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID TC1-1 532101582-0018		Description Homogeneity	Apartment A Kitchen - White Tile Cement Homogeneous		
PLM NYS 198.1 Friable	09/10/2021	White		10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID TC1-2 532101582-0019		Description Homogeneity	Apartment A Kitchen - White Tile Cement Homogeneous		
PLM NYS 198.1 Friable	09/10/2021	White		10.00% Ca Carbonate 90.00% Non-fibrous (other)	None Detected
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB					Not Analyzed
TEM NYS 198.4 NOB					Not Analyzed
Sample ID CT1-1 532101582-0020		Description Homogeneity	Entry Stairwell - White Speckled 2x4 Ceiling Tile Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/10/2021	Gray/ White	19.00% Min. Wool	81.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/10/2021	Gray/ White		100.00% Other	None Detected
Sample ID CT1-2 532101582-0021		Description Homogeneity	Entry Stairwell - White Speckled 2x4 Ceiling Tile Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/10/2021	Gray/ White	20.00% Min. Wool	80.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/10/2021	Gray/ White		100.00% Other	None Detected
Sample ID FT1-1 532101582-0022		Description Homogeneity	Apt. D - Brown 9x9" FT Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/10/2021	Brown	None	94.90% Other	5.10% Chrysotile
TEM NYS 198.4 NOB	09/10/2021				Positive Stop (Not Analyzed)
Sample ID FT1-2 532101582-0023		Description Homogeneity	Apt. D - Brown 9x9" FT Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/10/2021				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	09/10/2021				Positive Stop (Not Analyzed)

Report amended: 09/16/2021 09:26:00 Replaces initial report from: 09/10/2021 13:33:52 Reason Code: Data Entry-Change to Location



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<http://www.EMSL.com / rochesterlab@EMSL.com>

EMSL Order: 532101582

Customer ID: LIRO50E

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID LN1-1 532101582-0024		Description Homogeneity	Apt. B Closet - Green Linoleum Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/10/2021	White/ Green	None	82.00% Other	18.00% Chrysotile
TEM NYS 198.4 NOB	09/10/2021				Positive Stop (Not Analyzed)
Sample ID LN1-2 532101582-0025		Description Homogeneity	Apt. B Closet - Green Linoleum Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/10/2021				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	09/10/2021				Positive Stop (Not Analyzed)
Sample ID FT2-1 532101582-0026		Description Homogeneity	Apartment C Kitchen - White 12x12 Floor Tile Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/10/2021	White		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/10/2021	White		100.00% Other	None Detected
Sample ID FT2-2 532101582-0027		Description Homogeneity	Apartment C Kitchen - White 12x12 Floor Tile Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/10/2021	White		100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/10/2021	White		100.00% Other	None Detected
Sample ID LN2-1 532101582-0028		Description Homogeneity	Apartment C Entry Way - Squared Linoleum Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/10/2021	Brown/ Tan	<1.00% Glass	100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/10/2021	Brown/ Tan		100.00% Other	None Detected
Sample ID LN2-2 532101582-0029		Description Homogeneity	Apartment C Entry Way - Squared Linoleum Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/10/2021	Brown/ Tan	<1.00% Glass	100.00% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/10/2021	Brown/ Tan		100.00% Other	None Detected

Report amended: 09/16/2021 09:26:00 Replaces initial report from: 09/10/2021 13:33:52 Reason Code: Data Entry-Change to Location



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EMSL Order: 532101582

Customer ID: LIRO50E

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non-Asbestos		Asbestos
			Fibrous	Non-Fibrous	
Sample ID LNM1-1 532101582-0030		Description Homogeneity	Apartment C Entry Way - Yellow Linoleum Glue Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/10/2021	Tan/ Yellow	1.80% Glass	98.20% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/10/2021	Tan/ Yellow		100.00% Other	None Detected
Sample ID LNM1-2 532101582-0031		Description Homogeneity	Apartment C Entry Way - Yellow Linoleum Glue Heterogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/10/2021	Tan/ Yellow	1.80% Glass	98.20% Other	Inconclusive: None Detected
TEM NYS 198.4 NOB	09/10/2021	Tan/ Yellow		100.00% Other	None Detected
Sample ID FTM1-1 532101582-0032		Description Homogeneity	Apt. D - Black Mastic Homogeneous		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/10/2021	Black	None	96.10% Other	3.90% Chrysotile
TEM NYS 198.4 NOB	09/10/2021				Positive Stop (Not Analyzed)
Sample ID FTM1-2 532101582-0033		Description Homogeneity	Apt. D - Black Mastic		
PLM NYS 198.1 Friable					Not Analyzed
PLM NYS 198.6 VCM					Not Analyzed
PLM NYS 198.6 NOB	09/10/2021				Positive Stop (Not Analyzed)
TEM NYS 198.4 NOB	09/10/2021				Positive Stop (Not Analyzed)

Report amended: 09/16/2021 09:26:00 Replaces initial report from: 09/10/2021 13:33:52 Reason Code: Data Entry-Change to Location



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EMSL Order: 532101582

Customer ID: LIRO50E

Customer PO: 19-241-2291

Project ID:

Test Report:Asbestos Analysis of Bulk Material

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via NYS ELAP Approved Methods. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 9/8/2021

Sample Receipt Time: 9:47 AM

Analysis Completed Date: 9/10/2021

Analysis Completed Time: 9:24 AM

Analyst(s):

Peter Donato PLM NYS 198.1 Friable (19)

Peter Donato PLM NYS 198.6 NOB (11)

Peter Donato TEM NYS 198.4 NOB (8)

Samples reviewed and approved by:

Peter Donato, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. All samples examined for the presence of vermiculite when analyzed via NYS 198.1. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos. Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government. 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. NOB= Non friable organically bound; N/A= Not applicable VCM= Vermiculite containing material.

Samples analyzed by EMSL Analytical, Inc. Rochester, NY NYS ELAP 12088, NVLAP Lab Code 600183-0

Report amended: 09/16/2021 09:26:00 Replaces initial report from: 09/10/2021 13:33:52 Reason Code: Data Entry-Change to Location

**EMSL Analytical, Inc.**

528 Mineola Avenue, Carle Place, NY 11514

Phone/Fax: (516) 997-7251 / (516) 997-7528

<http://www.EMSL.com>carleplacelab@emsl.com

EMSL Order: 062118126

CustomerID: LIRO50A

CustomerPO: 19-241-2291

ProjectID:

Attn: **Jason Colvin**
Liro Engineers, Inc.
100 Duffy Avenue
Suite 402
Hicksville, NY 11801

Phone: (516) 595-2900
Fax: (516) 937-5421
Received: 9/9/2021 10:56 AM
Collected: 9/7/2021

Project: #: 19-241-2291, Wayne County Regional Land Bank, Lyons NY, 64 Canal St

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3051A/7000B)*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
LBP-1	062118126-0001	9/7/2021	9/11/2021	6.5 % wt
Site: Apartment D, White/Black Paint				
LBP-2	062118126-0002	9/7/2021	9/11/2021	0.073 % wt
Site: Apartment D, Light Blue Paint				
LBP-3	062118126-0003	9/7/2021	9/11/2021	0.23 % wt
Site: Apartment D, Tan Paint				

Dominique Iaccarino, Chemistry Lab Manager
or other approved signatory

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Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Carle Place, NY Lab ID 102344 is accredited by AIHA LAP, LLC in the env. accreditation program for Lead in Paint, CT PH-0249, NYS ELAP 11469, CA 2339

Initial report from 09/11/2021 17:22:32

APPENDIX C:
CERTIFICATIONS AND ACCREDITATIONS

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 600183-0

EMSL Analytical, Inc. Rochester, NY
Rochester, NY

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

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2021-01-01 through 2021-12-31

Effective Dates



A handwritten signature in blue ink, reading "Dana S. Laman".

For the National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

EMSL Analytical, Inc. Rochester, NY

2975 Brighton Henrietta Town Line Rd.

Building 100, Suite 130

Rochester, NY 14623

Mr. Peter Donato

Phone: 585-957-9436 Fax: 585-957-9437

Email: pdonato@emsl.com

<http://www.emsl.com>

ASBESTOS FIBER ANALYSIS

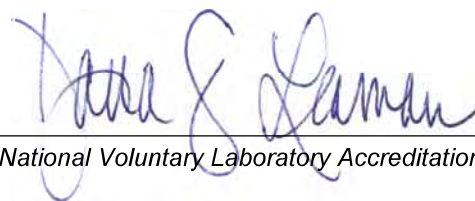
NVLAP LAB CODE 600183-0

Bulk Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

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



For the National Voluntary Laboratory Accreditation Program

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2022
Issued April 01, 2021
Revised May 05, 2021

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. PHILLIP M. WORBY
EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:*

Bacteriology

Coliform, Total / E. coli (Qualitative)	SM 20, 21-23 9223B (-04) (Colilert)
Heterotrophic Plate Count	SM 20, 21-23 9215B (-04)

Disinfection By-products

Bromide	EPA 300.0 Rev. 2.1

Fuel Additives

Methyl tert-butyl ether	EPA 524.2
Naphthalene	EPA 524.2

Metals I

Arsenic, Total	EPA 200.8 Rev. 5.4
Barium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Cadmium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Chromium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Copper, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Iron, Total	EPA 200.7 Rev. 4.4
Lead, Total	EPA 200.8 Rev. 5.4
Manganese, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Mercury, Total	EPA 245.1 Rev. 3.0
Selenium, Total	EPA 200.8 Rev. 5.4
Silver, Total	EPA 200.7 Rev. 4.4

Metals I

Silver, Total	EPA 200.8 Rev. 5.4
Zinc, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4

Metals II

Aluminum, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Antimony, Total	EPA 200.8 Rev. 5.4
Beryllium, Total	EPA 200.8 Rev. 5.4
Nickel, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Thallium, Total	EPA 200.8 Rev. 5.4

Metals III

Calcium, Total	EPA 200.7 Rev. 4.4
Magnesium, Total	EPA 200.7 Rev. 4.4
Potassium, Total	EPA 200.7 Rev. 4.4
Sodium, Total	EPA 200.7 Rev. 4.4
Uranium (Mass)	EPA 200.8 Rev. 5.4

Microextractables

1,2,3-Trichloropropane, Low Level	EPA 504.1
1,2-Dibromo-3-chloropropane, Low Level	EPA 504.1
1,2-Dibromoethane, Low Level	EPA 504.1

Miscellaneous

Asbestos	EPA 100.1
	EPA 100.2

Serial No.: 63577

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Miscellaneous

Organic Carbon, Total	SM 21-23 5310C (-00)
Surfactant (MBAS)	SM 21-23 5540C (-00)
Turbidity	SM 21-23 2130 B (-01)
	EPA 180.1 Rev. 2.0

Non-Metals

Alkalinity	SM 21-23 2320B (-97)
Calcium Hardness	EPA 200.7 Rev. 4.4
Chloride	EPA 300.0 Rev. 2.1
Color	SM 21-23 2120B (-01)
Cyanide	SM 20, 21-23 4500-CN E
	SM 20, 21-23 4500-CN G
Fluoride, Total	EPA 300.0 Rev. 2.1
Nitrate (as N)	EPA 300.0 Rev. 2.1
Nitrite (as N)	EPA 300.0 Rev. 2.1
Orthophosphate (as P)	EPA 300.0 Rev. 2.1
Silica, Total	EPA 200.7 Rev. 4.4
Solids, Total Dissolved	SM 21-23 2540C (-97)
Specific Conductance	SM 21-23 2510B (-97)
Sulfate (as SO ₄)	EPA 300.0 Rev. 2.1

Perfluorinated Alkyl Acids

Perfluorooctanesulfonic acid (PFOS)	EPA 537
	EPA 537.1
Perfluorooctanoic acid (PFOA)	EPA 537
	EPA 537.1

Radiological Analytes

Gamma Emitters	EPA 901.1
Gross Alpha	EPA 900.0
Gross Beta	EPA 900.0
Radium-226	EPA 903.0
Radium-228	EPA 904.0
Radon	SM 20-22 7500-Rn B(-06)
Tritium	EPA 906.0
Uranium (Activity)	EPA 908.0

Trihalomethanes

Bromodichloromethane	EPA 524.2
Bromoform	EPA 524.2
Chloroform	EPA 524.2
Dibromochloromethane	EPA 524.2

Volatile Aromatics

1,2,3-Trichlorobenzene	EPA 524.2
1,2,4-Trichlorobenzene	EPA 524.2
1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2
1,3-Dichlorobenzene	EPA 524.2
1,4-Dichlorobenzene	EPA 524.2
2-Chlorotoluene	EPA 524.2
4-Chlorotoluene	EPA 524.2
Benzene	EPA 524.2
Bromobenzene	EPA 524.2

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All approved analytes are listed below:*

Volatile Aromatics

Chlorobenzene	EPA 524.2
Ethyl benzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
p-Isopropyltoluene (P-Cymene)	EPA 524.2
sec-Butylbenzene	EPA 524.2
Styrene	EPA 524.2
tert-Butylbenzene	EPA 524.2
Toluene	EPA 524.2
Total Xylenes	EPA 524.2

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethene	EPA 524.2
1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2
1,2-Dichloroethane	EPA 524.2
1,2-Dichloropropane	EPA 524.2
1,3-Dichloropropane	EPA 524.2
2,2-Dichloropropane	EPA 524.2

Volatile Halocarbons

Bromochloromethane	EPA 524.2
Bromomethane	EPA 524.2
Carbon tetrachloride	EPA 524.2
Chloroethane	EPA 524.2
Chloromethane	EPA 524.2
cis-1,2-Dichloroethene	EPA 524.2
cis-1,3-Dichloropropene	EPA 524.2
Dibromomethane	EPA 524.2
Dichlorodifluoromethane	EPA 524.2
Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Trichlorofluoromethane	EPA 524.2
Vinyl chloride	EPA 524.2

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ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Acrylates

Acrolein (Propenal)	EPA 8260D
	EPA 624.1
Acrylonitrile	EPA 8260D
	EPA 624.1

Amines

1,2-Diphenylhydrazine	EPA 8270E
1,4-Phenylenediamine	EPA 8270E
1-Naphthylamine	EPA 8270E
2-Naphthylamine	EPA 8270E
2-Nitroaniline	EPA 8270E
3-Nitroaniline	EPA 8270E
4-Chloroaniline	EPA 8270E
4-Nitroaniline	EPA 8270E
5-Nitro-o-toluidine	EPA 8270E
Aniline	EPA 625.1
	EPA 8270E
Carbazole	EPA 625.1
	EPA 8270E
Pronamide	EPA 8270E
Propionitrile	EPA 8260D
Pyridine	EPA 8260D
	EPA 625.1
	EPA 8270E

Bacteriology

Heterotrophic Plate Count	SM 18-21 9215B

Benzidines

3,3'-Dichlorobenzidine	EPA 625.1
	EPA 8270E
3,3'-Dimethylbenzidine	EPA 8270E
Benzidine	EPA 625.1
	EPA 8270E

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
	EPA 608.3
4,4'-DDE	EPA 8081B
	EPA 608.3
4,4'-DDT	EPA 8081B
	EPA 608.3
Aldrin	EPA 8081B
	EPA 608.3
alpha-BHC	EPA 8081B
	EPA 608.3
alpha-Chlordane	EPA 8081B
beta-BHC	EPA 8081B
	EPA 608.3
Chlordane Total	EPA 8081B
	EPA 608.3
Chlorobenzilate	EPA 8270E
delta-BHC	EPA 8081B
	EPA 608.3
Diallate	EPA 8270E

Serial No.: 62815

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All approved analytes are listed below:*

Chlorinated Hydrocarbon Pesticides

Dieldrin	EPA 8081B
	EPA 608.3
Endosulfan I	EPA 8081B
	EPA 608.3
Endosulfan II	EPA 8081B
	EPA 608.3
Endosulfan sulfate	EPA 8081B
	EPA 608.3
Endrin	EPA 8081B
	EPA 608.3
Endrin aldehyde	EPA 8081B
	EPA 608.3
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 8081B
	EPA 608.3
Heptachlor epoxide	EPA 8081B
	EPA 608.3
Isodrin	EPA 8270E
Kepone	EPA 8270E
Lindane	EPA 8081B
	EPA 608.3
Methoxychlor	EPA 8081B
	EPA 608.3
Mirex	EPA 8081B
PCNB	EPA 8270E

Chlorinated Hydrocarbon Pesticides

Toxaphene	EPA 8081B
	EPA 608.3

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260D
1,2,4,5-Tetrachlorobenzene	EPA 8270E
1,2,4-Trichlorobenzene	EPA 625.1
	EPA 8270E
2-Chloronaphthalene	EPA 625.1
	EPA 8270E
Hexachlorobenzene	EPA 625.1
	EPA 8270E
Hexachlorobutadiene	EPA 625.1
	EPA 8270E
Hexachlorocyclopentadiene	EPA 625.1
	EPA 8270E
Hexachloroethane	EPA 8260D
	EPA 625.1
	EPA 8270E
Hexachloropropene	EPA 8270E
Pentachlorobenzene	EPA 8270E

Chlorophenoxy Acid Pesticides

2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A

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Demand		Low Level Polynuclear Aromatics	
Biochemical Oxygen Demand	SM 5210B-2011	Acenaphthylene Low Level	EPA 8270E SIM
Carbonaceous BOD	SM 5210B-2011	Anthracene Low Level	EPA 8270E SIM
Chemical Oxygen Demand	EPA 410.4, Rev. 2.0 (1993)	Benzo(a)anthracene Low Level	EPA 8270E SIM
	SM 5220D-2011	Benzo(a)pyrene Low Level	EPA 8270E SIM
		Benzo(b)fluoranthene Low Level	EPA 8270E SIM
		Benzo(g,h,i)perylene Low Level	EPA 8270E SIM
		Benzo(k)fluoranthene Low Level	EPA 8270E SIM
		Chrysene Low Level	EPA 8270E SIM
		Dibenzo(a,h)anthracene Low Level	EPA 8270E SIM
		Fluoranthene Low Level	EPA 8270E SIM
		Fluorene Low Level	EPA 8270E SIM
		Indeno(1,2,3-cd)pyrene Low Level	EPA 8270E SIM
		Naphthalene Low Level	EPA 8270E SIM
		Phenanthrene Low Level	EPA 8270E SIM
		Pyrene Low Level	EPA 8270E SIM
Fuel Oxygenates		Metals I	
Ethanol	EPA 8015D	Barium, Total	EPA 200.7, Rev. 4.4 (1994)
Methyl tert-butyl ether	EPA 8260D		EPA 6010D
tert-butyl alcohol	EPA 8260D		EPA 6020B
			EPA 200.8, Rev. 5.4 (1994)
Haloethers		Cadmium, Total	EPA 200.7, Rev. 4.4 (1994)
2,2'-Oxybis(1-chloropropane)	EPA 625.1		EPA 6010D
	EPA 8270E		EPA 6020B
4-Bromophenylphenyl ether	EPA 625.1		EPA 200.8, Rev. 5.4 (1994)
	EPA 8270E		EPA 200.7, Rev. 4.4 (1994)
4-Chlorophenylphenyl ether	EPA 625.1		EPA 6010D
	EPA 8270E		EPA 6020B
Bis(2-chloroethoxy)methane	EPA 625.1		EPA 200.8, Rev. 5.4 (1994)
	EPA 8270E		EPA 200.7, Rev. 4.4 (1994)
Bis(2-chloroethyl)ether	EPA 625.1		EPA 6010D
	EPA 8270E		EPA 6020B
Low Level Halocarbons		Calcium, Total	EPA 200.7, Rev. 4.4 (1994)
1,2-Dibromo-3-chloropropane, Low Level	EPA 8011		
1,2-Dibromoethane, Low Level	EPA 8011		
Low Level Polynuclear Aromatics			
Acenaphthene Low Level	EPA 8270E SIM		

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Metals I		Metals I	
Calcium, Total	EPA 6010D	Manganese, Total	EPA 200.8, Rev. 5.4 (1994)
	EPA 6020B		EPA 200.7, Rev. 4.4 (1994)
	EPA 200.8, Rev. 5.4 (1994)		EPA 6010D
Chromium, Total	EPA 200.7, Rev. 4.4 (1994)	Nickel, Total	EPA 6020B
	EPA 6010D		EPA 200.8, Rev. 5.4 (1994)
	EPA 6020B		EPA 200.7, Rev. 4.4 (1994)
Copper, Total	EPA 200.8, Rev. 5.4 (1994)	Potassium, Total	EPA 6010D
	EPA 200.7, Rev. 4.4 (1994)		EPA 6020B
	EPA 6010D		EPA 200.8, Rev. 5.4 (1994)
Iron, Total	EPA 6020B	Silver, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 200.8, Rev. 5.4 (1994)		EPA 6010D
	EPA 200.7, Rev. 4.4 (1994)		EPA 6020B
Lead, Total	EPA 6010D	Sodium, Total	EPA 200.8, Rev. 5.4 (1994)
	EPA 6020B		EPA 200.7, Rev. 4.4 (1994)
	EPA 200.8, Rev. 5.4 (1994)		EPA 6010D
Magnesium, Total	EPA 200.7, Rev. 4.4 (1994)	Strontium, Total	EPA 6020B
	EPA 6010D		EPA 200.8, Rev. 5.4 (1994)
	EPA 6020B		EPA 6010D
Manganese, Total	EPA 200.8, Rev. 5.4 (1994)	Antimony, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 200.7, Rev. 4.4 (1994)		EPA 200.8, Rev. 5.4 (1994)
	EPA 6010D		EPA 6020B
	EPA 6020B		

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2022
Issued April 01, 2021

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. PHILLIP M. WORBY
EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Metals II		Metals II	
Antimony, Total	EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)	Zinc, Total	EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Arsenic, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)	Metals III	
Beryllium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)	Cobalt, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Chromium VI	EPA 7196A SM 3500-Cr B-2011	Gold, Total	SM 3111B-2011
Mercury, Total	EPA 245.1, Rev. 3.0 (1994) EPA 7470A SM 3112B-2011	Molybdenum, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Selenium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)	Palladium, Total	SM 3111B-2011
Vanadium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)	Platinum, Total	SM 3111B-2011
Zinc, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D	Thallium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)
		Tin, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)
		Titanium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B

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Metals III		Miscellaneous		
Titanium, Total	EPA 200.8, Rev. 5.4 (1994)	Phenols	EPA 9065	
Uranium (Mass)	EPA 200.8, Rev. 5.4 (1994)	Silica, Dissolved	EPA 200.7, Rev. 4.4 (1994)	
Mineral		Specific Conductance	EPA 120.1 (Rev. 1982)	
	Acidity	SM 2310B-2011	SM 2510B-2011	
	Alkalinity	SM 2320B-2011	EPA 9050A	
	Chloride	EPA 300.0, Rev. 2.1 (1993)	EPA 9034	
		EPA 9056A	SM 4500-S2- D-2011	
Fluoride, Total	EPA 300.0, Rev. 2.1 (1993)	Surfactant (MBAS)	SM 5540C-2011	
	EPA 9056A	Turbidity	SM 2130 B-2011	
Hardness, Total	EPA 200.7, Rev. 4.4 (1994)	Nitroaromatics and Isophorone		
Sulfate (as SO4)	EPA 300.0, Rev. 2.1 (1993)		1,3,5-Trinitrobenzene	EPA 8270E
	EPA 9056A		1,3-Dinitrobenzene	EPA 8270E
			1,4-Naphthoquinone	EPA 8270E
			2,4-Dinitrotoluene	EPA 625.1
				EPA 8270E
				EPA 625.1
Miscellaneous		2,6-Dinitrotoluene	EPA 8270E	
	Boron, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 625.1
		EPA 6010D	Isophorone	EPA 625.1
	EPA 6020B		EPA 8270E	
Bromide	EPA 300.0, Rev. 2.1 (1993)			
	EPA 9056A			
Color	SM 2120B-2011			
Cyanide, Total	EPA 9014	Nitrobenzene	EPA 625.1	
	SM 4500-CN E-2011		EPA 8270E	
non-Polar Extractable Material (TPH)	EPA 1664A	Nitrosoamines		
Oil and Grease Total Recoverable (HEM)	EPA 1664A		N-Nitrosodiethylamine	EPA 8270E
Organic Carbon, Total	SM 5310C-2011		N-Nitrosodimethylamine	EPA 625.1
Phenols	EPA 420.1 (Rev. 1978)		EPA 8270E	

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Nitrosoamines

N-Nitrosodi-n-butylamine	EPA 8270E
N-Nitrosodi-n-propylamine	EPA 625.1
	EPA 8270E
N-Nitrosodiphenylamine	EPA 625.1
	EPA 8270E
N-nitrosomethylethylamine	EPA 8270E
N-nitrosomorpholine	EPA 8270E
N-Nitrosopyrrolidine	EPA 8270E

Nutrient

Ammonia (as N)	SM 4500-NH3 C-2011
Kjeldahl Nitrogen, Total	SM 4500-NH3 C-2011
Nitrate (as N)	EPA 300.0, Rev. 2.1 (1993)
	EPA 9056A
Nitrite (as N)	EPA 300.0, Rev. 2.1 (1993)
	EPA 9056A
Orthophosphate (as P)	EPA 300.0, Rev. 2.1 (1993)
	EPA 9056A
Phosphorus, Total	SM 4500-P E-2011

Organophosphate Pesticides

Atrazine	EPA 8270E
Dimethoate	EPA 8270E
Disulfoton	EPA 8270E
Famphur	EPA 8270E
Parathion ethyl	EPA 8270E
Parathion methyl	EPA 8270E

Petroleum Hydrocarbons

Diesel Range Organics	EPA 8015D
Gasoline Range Organics	EPA 8015D

Phthalate Esters

Benzyl butyl phthalate	EPA 625.1
	EPA 8270E
Bis(2-ethylhexyl) phthalate	EPA 625.1
	EPA 8270E
Diethyl phthalate	EPA 625.1
	EPA 8270E
Dimethyl phthalate	EPA 625.1
	EPA 8270E
Di-n-butyl phthalate	EPA 625.1
	EPA 8270E
Di-n-octyl phthalate	EPA 625.1
	EPA 8270E

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016)	EPA 8082A
	EPA 608.3
Aroclor 1221 (PCB-1221)	EPA 8082A
	EPA 608.3
Aroclor 1232 (PCB-1232)	EPA 8082A
	EPA 608.3
Aroclor 1242 (PCB-1242)	EPA 8082A
	EPA 608.3
Aroclor 1248 (PCB-1248)	EPA 8082A

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Polychlorinated Biphenyls

Aroclor 1248 (PCB-1248)	EPA 608.3
Aroclor 1254 (PCB-1254)	EPA 8082A
	EPA 608.3
Aroclor 1260 (PCB-1260)	EPA 8082A
	EPA 608.3
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A
PCB 1	EPA 8082A
PCB 101	EPA 8082A
PCB 110	EPA 8082A
PCB 138	EPA 8082A
PCB 141	EPA 8082A
PCB 151	EPA 8082A
PCB 153	EPA 8082A
PCB 170	EPA 8082A
PCB 18	EPA 8082A
PCB 180	EPA 8082A
PCB 183	EPA 8082A
PCB 187	EPA 8082A
PCB 206	EPA 8082A
PCB 31	EPA 8082A
PCB 44	EPA 8082A
PCB 5	EPA 8082A
PCB 52	EPA 8082A
PCB 66	EPA 8082A
PCB 87	EPA 8082A

Polynuclear Aromatics

2-Acetylaminofluorene	EPA 8270E
3-Methylcholanthrene	EPA 8270E
7,12-Dimethylbenzyl (a) anthracene	EPA 8270E
Acenaphthene	EPA 625.1
	EPA 8270E
Acenaphthylene	EPA 625.1
	EPA 8270E
Anthracene	EPA 625.1
	EPA 8270E
Benzo(a)anthracene	EPA 625.1
	EPA 8270E
Benzo(a)pyrene	EPA 625.1
	EPA 8270E
Benzo(b)fluoranthene	EPA 625.1
	EPA 8270E
Benzo(g,h,i)perylene	EPA 625.1
	EPA 8270E
Benzo(k)fluoranthene	EPA 625.1
	EPA 8270E
Chrysene	EPA 625.1
	EPA 8270E
Dibenzo(a,h)anthracene	EPA 625.1
	EPA 8270E
Fluoranthene	EPA 625.1
	EPA 8270E
Fluorene	EPA 625.1

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Polynuclear Aromatics

Fluorene	EPA 8270E
Indeno(1,2,3-cd)pyrene	EPA 625.1
	EPA 8270E
Naphthalene	EPA 625.1
	EPA 8270E
Phenanthrene	EPA 625.1
	EPA 8270E
Pyrene	EPA 625.1
	EPA 8270E

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270E
2,4,5-Trichlorophenol	EPA 625.1
	EPA 8270E
2,4,6-Trichlorophenol	EPA 625.1
	EPA 8270E
2,4-Dichlorophenol	EPA 625.1
	EPA 8270E
2,4-Dimethylphenol	EPA 625.1
	EPA 8270E
2,4-Dinitrophenol	EPA 625.1
	EPA 8270E
2,6-Dichlorophenol	EPA 8270E
2-Chlorophenol	EPA 625.1
	EPA 8270E
2-Methyl-4,6-dinitrophenol	EPA 625.1

Priority Pollutant Phenols

2-Methyl-4,6-dinitrophenol	EPA 8270E
2-Methylphenol	EPA 625.1
	EPA 8270E
2-Nitrophenol	EPA 625.1
	EPA 8270E
3-Methylphenol	EPA 8270E
4-Chloro-3-methylphenol	EPA 625.1
	EPA 8270E
4-Methylphenol	EPA 625.1
	EPA 8270E
4-Nitrophenol	EPA 625.1
	EPA 8270E
Cresols, Total	EPA 8270E
Pentachlorophenol	EPA 625.1
	EPA 8270E
Phenol	EPA 625.1
	EPA 8270E

Residue

Settleable Solids	SM 2540 F-2011
Solids, Total	SM 2540 B-2011
Solids, Total Dissolved	SM 2540 C-2011
Solids, Total Suspended	SM 2540 D-2011
Solids, Volatile	EPA 160.4 (Issued 1971)

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270E

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Semi-Volatile Organics

1,2-Dichlorobenzene, Semi-volatile	EPA 8270E
1,3-Dichlorobenzene, Semi-volatile	EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270E
2-Methylnaphthalene	EPA 8270E
4-Amino biphenyl	EPA 8270E
Acetophenone	EPA 8270E
Aramite	EPA 8270E
Benzaldehyde	EPA 8270E
Benzoic Acid	EPA 8270E
Caprolactam	EPA 8270E
Dibenzofuran	EPA 8270E
Ethyl methanesulfonate	EPA 8270E
Isosafrole	EPA 8270E
Methyl methanesulfonate	EPA 8270E
n-Decane	EPA 625.1
n-Octadecane	EPA 625.1
O,O,O-Triethyl phosphorothioate	EPA 8270E
p-Dimethylaminoazobenzene	EPA 8270E
Phenacetin	EPA 8270E
Safrole	EPA 8270E

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260D
1,2,4-Trimethylbenzene	EPA 8260D
1,2-Dichlorobenzene	EPA 8260D
	EPA 624.1

Volatile Aromatics

1,3,5-Trimethylbenzene	EPA 8260D
1,3-Dichlorobenzene	EPA 8260D
	EPA 624.1
1,4-Dichlorobenzene	EPA 8260D
	EPA 624.1
2-Chlorotoluene	EPA 8260D
4-Chlorotoluene	EPA 8260D
Benzene	EPA 8260D
	EPA 624.1
Bromobenzene	EPA 8260D
Chlorobenzene	EPA 8260D
	EPA 624.1
Ethyl benzene	EPA 8260D
	EPA 624.1
Isopropylbenzene	EPA 8260D
m/p-Xylenes	EPA 8260D
	EPA 624.1
Naphthalene, Volatile	EPA 8260D
n-Butylbenzene	EPA 8260D
n-Propylbenzene	EPA 8260D
o-Xylene	EPA 8260D
	EPA 624.1
p-Isopropyltoluene (P-Cymene)	EPA 8260D
sec-Butylbenzene	EPA 8260D
Styrene	EPA 8260D
	EPA 624.1

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Volatile Aromatics

tert-Butylbenzene	EPA 8260D
Toluene	EPA 8260D
	EPA 624.1
Total Xylenes	EPA 8260D
	EPA 624.1

Volatile Chlorinated Organics

Benzyl chloride	EPA 8260D

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260D
1,1,1-Trichloroethane	EPA 8260D
	EPA 624.1
1,1,2,2-Tetrachloroethane	EPA 8260D
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260D
1,1,2-Trichloroethane	EPA 8260D
	EPA 624.1
1,1-Dichloroethane	EPA 8260D
	EPA 624.1
1,1-Dichloroethene	EPA 8260D
	EPA 624.1
1,1-Dichloropropene	EPA 8260D
1,2,3-Trichloropropane	EPA 8260D
1,2-Dibromo-3-chloropropane	EPA 8260D
1,2-Dibromoethane	EPA 8260D
1,2-Dichloroethane	EPA 8260D
	EPA 624.1

Volatile Halocarbons

1,2-Dichloropropane	EPA 8260D
	EPA 624.1
1,3-Dichloropropane	EPA 8260D
2,2-Dichloropropane	EPA 8260D
2-Chloro-1,3-butadiene (Chloroprene)	EPA 8260D
2-Chloroethylvinyl ether	EPA 8260D
	EPA 624.1
3-Chloropropene (Allyl chloride)	EPA 8260D
Bromochloromethane	EPA 8260D
Bromodichloromethane	EPA 8260D
	EPA 624.1
Bromoform	EPA 8260D
	EPA 624.1
Bromomethane	EPA 8260D
	EPA 624.1
Carbon tetrachloride	EPA 8260D
	EPA 624.1
Chloroethane	EPA 8260D
	EPA 624.1
Chloroform	EPA 8260D
	EPA 624.1
Chloromethane	EPA 8260D
	EPA 624.1
cis-1,2-Dichloroethene	EPA 8260D
	EPA 624.1
cis-1,3-Dichloropropene	EPA 8260D

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Volatile Halocarbons

cis-1,3-Dichloropropene	EPA 624.1
Dibromochloromethane	EPA 8260D
	EPA 624.1
Dibromomethane	EPA 8260D
Dichlorodifluoromethane	EPA 8260D
Hexachlorobutadiene, Volatile	EPA 8260D
Methyl iodide	EPA 8260D
Methylene chloride	EPA 8260D
	EPA 624.1
Tetrachloroethene	EPA 8260D
	EPA 624.1
trans-1,2-Dichloroethene	EPA 8260D
	EPA 624.1
trans-1,3-Dichloropropene	EPA 8260D
	EPA 624.1
trans-1,4-Dichloro-2-butene	EPA 8260D
Trichloroethene	EPA 8260D
	EPA 624.1
Trichlorofluoromethane	EPA 8260D
	EPA 624.1
Vinyl chloride	EPA 8260D
	EPA 624.1

Volatiles Organics

1,4-Dioxane	EPA 8260D
2-Butanone (Methylethyl ketone)	EPA 8260D

Volatiles Organics

2-Hexanone	EPA 8260D
4-Methyl-2-Pentanone	EPA 8260D
Acetone	EPA 8260D
Acetonitrile	EPA 8260D
Carbon Disulfide	EPA 8260D
Cyclohexane	EPA 8260D
Di-ethyl ether	EPA 8260D
Ethylene Glycol	EPA 8015D
Isobutyl alcohol	EPA 8260D
Isopropanol	EPA 8260D
Methyl acetate	EPA 8260D
Methyl cyclohexane	EPA 8260D
o-Toluidine	EPA 8270E
Vinyl acetate	EPA 8260D

Sample Preparation Methods

SM 4500-P B(5)-2011
EPA 5030C
SM 4500-CN B-2011 and C-201
EPA 3015A
EPA 9030B
EPA 3010A
EPA 3005A
EPA 3510C
EPA 3520C
SM 4500-NH3 B-2011

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Sample Preparation Methods

SM 4500-N Org B-2011 or C-2011
EPA 9010C

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
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Acrylates

Acrolein (Propenal)	EPA 8260D
Acrylonitrile	EPA 8260D

Characteristic Testing

TCLP	EPA 1311

Amines

1,2-Diphenylhydrazine	EPA 8270E
1-Naphthylamine	EPA 8270E
2-Naphthylamine	EPA 8270E
3-Nitroaniline	EPA 8270E
4-Chloroaniline	EPA 8270E
4-Nitroaniline	EPA 8270E
5-Nitro-o-toluidine	EPA 8270E
a,a-Dimethylphenethylamine	EPA 8270E
Aniline	EPA 8270E
Carbazole	EPA 8270E
Diphenylamine	EPA 8270E
Pronamide	EPA 8270E

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
alpha-Chlordane	EPA 8081B
beta-BHC	EPA 8081B
Chlordane Total	EPA 8081B
Chlorobenzilate	EPA 8270E
delta-BHC	EPA 8081B
Dieldrin	EPA 8081B
Endosulfan I	EPA 8081B
Endosulfan II	EPA 8081B
Endosulfan sulfate	EPA 8081B
Endrin	EPA 8081B
Endrin aldehyde	EPA 8081B
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 8081B
Heptachlor epoxide	EPA 8081B
Isodrin	EPA 8270E
Kepone	EPA 8270E
Lindane	EPA 8081B

Benzidines

3,3'-Dichlorobenzidine	EPA 8270E
3,3'-Dimethylbenzidine	EPA 8270E
Benzidine	EPA 8270E

Characteristic Testing

Corrosivity (pH)	EPA 9045D
Free Liquids	EPA 9095B
Ignitability	EPA 1010A
Synthetic Precipitation Leaching Proc.	EPA 1312

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2022
Issued April 01, 2021

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. PHILLIP M. WORBY
EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

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National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Chlorinated Hydrocarbon Pesticides

Methoxychlor	EPA 8081B
Pentachloronitrobenzene	EPA 8270E
Toxaphene	EPA 8081B

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260D
1,2,4,5-Tetrachlorobenzene	EPA 8270E
1,2,4-Trichlorobenzene	EPA 8270E
2-Chloronaphthalene	EPA 8270E
Hexachlorobenzene	EPA 8270E
Hexachlorobutadiene	EPA 8270E
Hexachlorocyclopentadiene	EPA 8270E
Hexachloroethane	EPA 8260D
	EPA 8270E
Hexachlorophene	EPA 8270E
Hexachloropropene	EPA 8270E
Pentachlorobenzene	EPA 8270E

Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 8270E
4-Bromophenylphenyl ether	EPA 8270E
4-Chlorophenylphenyl ether	EPA 8270E
Bis(2-chloroethoxy)methane	EPA 8270E
Bis(2-chloroethyl)ether	EPA 8270E

Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthene Low Level	EPA 8270E SIM

Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthylene Low Level	EPA 8270E SIM
Anthracene Low Level	EPA 8270E SIM
Benzo(a)anthracene Low Level	EPA 8270E SIM
Benzo(a)pyrene Low Level	EPA 8270E SIM
Benzo(b)fluoranthene Low Level	EPA 8270E SIM
Benzo(g,h,i)perylene Low Level	EPA 8270E SIM
Benzo(k)fluoranthene Low Level	EPA 8270E SIM
Chrysene Low Level	EPA 8270E SIM
Dibenzo(a,h)anthracene Low Level	EPA 8270E SIM
Fluoranthene Low Level	EPA 8270E SIM
Fluorene Low Level	EPA 8270E SIM
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270E SIM
Naphthalene Low Level	EPA 8270E SIM
Phenanthrene Low Level	EPA 8270E SIM
Pyrene Low Level	EPA 8270E SIM

Metals I

Barium, Total	EPA 6010D
	EPA 6020B
Cadmium, Total	EPA 6010D
	EPA 6020B
Calcium, Total	EPA 6010D
	EPA 6020B
Chromium, Total	EPA 6010D
	EPA 6020B
Copper, Total	EPA 6010D

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
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Metals I

Copper, Total	EPA 6020B
Iron, Total	EPA 6010D
	EPA 6020B
Lead, Total	EPA 6010D
	EPA 6020B
	EPA 7000B
Magnesium, Total	EPA 6010D
	EPA 6020B
Manganese, Total	EPA 6010D
	EPA 6020B
Nickel, Total	EPA 6010D
	EPA 6020B
Potassium, Total	EPA 6010D
	EPA 6020B
Silver, Total	EPA 6010D
	EPA 6020B
Sodium, Total	EPA 6010D
Strontium, Total	EPA 6010D
	EPA 6020B

Metals II

Aluminum, Total	EPA 6010D
	EPA 6020B
Antimony, Total	EPA 6010D
	EPA 6020B
Arsenic, Total	EPA 6010D

Metals II

Arsenic, Total	EPA 6020B
Beryllium, Total	EPA 6010D
	EPA 6020B
Chromium VI	EPA 7196A
Lithium, Total	EPA 6010D
Mercury, Total	EPA 7471B
Selenium, Total	EPA 6010D
	EPA 6020B
Vanadium, Total	EPA 6010D
	EPA 6020B
Zinc, Total	EPA 6010D
	EPA 6020B

Metals III

Cobalt, Total	EPA 6010D
	EPA 6020B
Molybdenum, Total	EPA 6010D
	EPA 6020B
Thallium, Total	EPA 6010D
	EPA 6020B
Tin, Total	EPA 6010D
	EPA 6020B
Titanium, Total	EPA 6010D
	EPA 6020B

Minerals

Bromide	EPA 9056A

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Minerals		Nitrosoamines	
Chloride	EPA 9056A	N-Nitrosodiphenylamine	EPA 8270E
Fluoride, Total	EPA 9056A	N-nitrosomethylethylamine	EPA 8270E
Sulfate (as SO ₄)	EPA 9056A	N-nitrosomorpholine	EPA 8270E
Miscellaneous		N-Nitrosopyrrolidine	EPA 8270E
Boron, Total	EPA 6010D	Nutrients	
	EPA 6020B		
Cyanide, Total	EPA 9014		
Phenols	EPA 9065	Nitrate (as N)	EPA 9056A
Sulfide (as S)	EPA 9034	Nitrite (as N)	EPA 9056A
Nitroaromatics and Isophorone		Orthophosphate (as P)	EPA 9056A
1,3,5-Trinitrobenzene	EPA 8270E	Petroleum Hydrocarbons	
1,3-Dinitrobenzene	EPA 8270E	Diesel Range Organics	EPA 8015D
1,4-Naphthoquinone	EPA 8270E	Gasoline Range Organics	EPA 8015D
2,4-Dinitrotoluene	EPA 8270E	Oil and Grease Total Recoverable (HEM)	EPA 9071B (Solvent:Hexane)
2,6-Dinitrotoluene	EPA 8270E	Phthalate Esters	
4-Nitroquinoline-1-oxide	EPA 8270E	Benzyl butyl phthalate	EPA 8270E
Isophorone	EPA 8270E	Bis(2-ethylhexyl) phthalate	EPA 8270E
Nitrobenzene	EPA 8260D	Diethyl phthalate	EPA 8270E
	EPA 8270E	Dimethyl phthalate	EPA 8270E
Nitrosoamines		Di-n-butyl phthalate	EPA 8270E
N-Nitrosodiethylamine	EPA 8270E	Di-n-octyl phthalate	EPA 8270E
N-Nitrosodimethylamine	EPA 8270E	Polychlorinated Biphenyls	
N-Nitrosodi-n-butylamine	EPA 8270E	Aroclor 1016 (PCB-1016)	EPA 8082A
N-Nitrosodi-n-propylamine	EPA 8270E	Aroclor 1221 (PCB-1221)	EPA 8082A
		Aroclor 1232 (PCB-1232)	EPA 8082A
		Aroclor 1242 (PCB-1242)	EPA 8082A

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Polychlorinated Biphenyls

Aroclor 1248 (PCB-1248)	EPA 8082A
Aroclor 1254 (PCB-1254)	EPA 8082A
Aroclor 1260 (PCB-1260)	EPA 8082A
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A
PCB 1	EPA 8082A
PCB 101	EPA 8082A
PCB 110	EPA 8082A
PCB 138	EPA 8082A
PCB 141	EPA 8082A
PCB 151	EPA 8082A
PCB 153	EPA 8082A
PCB 170	EPA 8082A
PCB 18	EPA 8082A
PCB 180	EPA 8082A
PCB 183	EPA 8082A
PCB 187	EPA 8082A
PCB 206	EPA 8082A
PCB 31	EPA 8082A
PCB 44	EPA 8082A
PCB 5	EPA 8082A
PCB 52	EPA 8082A
PCB 66	EPA 8082A
PCB 87	EPA 8082A

Polynuclear Aromatic Hydrocarbons

2-Acetylaminofluorene	EPA 8270E
Acenaphthene	EPA 8270E
Acenaphthylene	EPA 8270E
Anthracene	EPA 8270E
Benzo(a)anthracene	EPA 8270E
Benzo(a)pyrene	EPA 8270E
Benzo(b)fluoranthene	EPA 8270E
Benzo(g,h,i)perylene	EPA 8270E
Benzo(k)fluoranthene	EPA 8270E
Chrysene	EPA 8270E
Dibenzo(a,h)anthracene	EPA 8270E
Fluoranthene	EPA 8270E
Fluorene	EPA 8270E
Indeno(1,2,3-cd)pyrene	EPA 8270E
Naphthalene	EPA 8270E
Phenanthrene	EPA 8270E
Pyrene	EPA 8270E

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270E
2,4,5-Trichlorophenol	EPA 8270E
2,4,6-Trichlorophenol	EPA 8270E
2,4-Dichlorophenol	EPA 8270E
2,4-Dimethylphenol	EPA 8270E
2,4-Dinitrophenol	EPA 8270E
2,6-Dichlorophenol	EPA 8270E

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Priority Pollutant Phenols

2-Chlorophenol	EPA 8270E
2-Methyl-4,6-dinitrophenol	EPA 8270E
2-Methylphenol	EPA 8270E
2-Nitrophenol	EPA 8270E
3-Methylphenol	EPA 8270E
4-Chloro-3-methylphenol	EPA 8270E
4-Methylphenol	EPA 8270E
4-Nitrophenol	EPA 8270E
Pentachlorophenol	EPA 8270E
Phenol	EPA 8270E

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270E
1,2-Dichlorobenzene, Semi-volatile	EPA 8270E
1,3-Dichlorobenzene, Semi-volatile	EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270E
2-Methylnaphthalene	EPA 8270E
2-Picoline	EPA 8270E
4-Amino biphenyl	EPA 8270E
Acetophenone	EPA 8270E
Aramite	EPA 8270E
Benzaldehyde	EPA 8270E
Benzoic Acid	EPA 8270E
Benzyl alcohol	EPA 8270E
Caprolactam	EPA 8270E
Dibenzofuran	EPA 8270E

Semi-Volatile Organics

Ethyl methanesulfonate	EPA 8270E
Methyl methanesulfonate	EPA 8270E
Phenacetin	EPA 8270E
Safrole	EPA 8270E

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260D
1,2,4-Trimethylbenzene	EPA 8260D
1,2-Dichlorobenzene	EPA 8260D
1,3,5-Trimethylbenzene	EPA 8260D
1,3-Dichlorobenzene	EPA 8260D
1,4-Dichlorobenzene	EPA 8260D
2-Chlorotoluene	EPA 8260D
4-Chlorotoluene	EPA 8260D
Benzene	EPA 8260D
Bromobenzene	EPA 8260D
Chlorobenzene	EPA 8260D
Ethyl benzene	EPA 8260D
Isopropylbenzene	EPA 8260D
m/p-Xylenes	EPA 8260D
Naphthalene, Volatile	EPA 8260D
n-Butylbenzene	EPA 8260D
n-Propylbenzene	EPA 8260D
o-Xylene	EPA 8260D
p-Isopropyltoluene (P-Cymene)	EPA 8260D
sec-Butylbenzene	EPA 8260D

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Volatile Aromatics

Styrene	EPA 8260D
tert-Butylbenzene	EPA 8260D
Toluene	EPA 8260D
Total Xylenes	EPA 8260D

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260D
1,1,1-Trichloroethane	EPA 8260D
1,1,2,2-Tetrachloroethane	EPA 8260D
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260D
1,1,2-Trichloroethane	EPA 8260D
1,1-Dichloroethane	EPA 8260D
1,1-Dichloroethene	EPA 8260D
1,1-Dichloropropene	EPA 8260D
1,2,3-Trichloropropane	EPA 8260D
1,2-Dibromo-3-chloropropane	EPA 8260D
1,2-Dibromoethane	EPA 8260D
1,2-Dichloroethane	EPA 8260D
1,2-Dichloropropane	EPA 8260D
1,3-Dichloropropane	EPA 8260D
2,2-Dichloropropane	EPA 8260D
2-Chloroethylvinyl ether	EPA 8260D
Bromochloromethane	EPA 8260D
Bromodichloromethane	EPA 8260D
Bromoform	EPA 8260D
Bromomethane	EPA 8260D

Volatile Halocarbons

Carbon tetrachloride	EPA 8260D
Chloroethane	EPA 8260D
Chloroform	EPA 8260D
Chloromethane	EPA 8260D
cis-1,2-Dichloroethene	EPA 8260D
cis-1,3-Dichloropropene	EPA 8260D
Dibromochloromethane	EPA 8260D
Dibromomethane	EPA 8260D
Dichlorodifluoromethane	EPA 8260D
Hexachlorobutadiene, Volatile	EPA 8260D
Methyl iodide	EPA 8260D
Methylene chloride	EPA 8260D
Tetrachloroethene	EPA 8260D
trans-1,2-Dichloroethene	EPA 8260D
trans-1,3-Dichloropropene	EPA 8260D
trans-1,4-Dichloro-2-butene	EPA 8260D
Trichloroethene	EPA 8260D
Trichlorofluoromethane	EPA 8260D
Vinyl chloride	EPA 8260D

Volatile Organics

2-Butanone (Methylethyl ketone)	EPA 8260D
2-Hexanone	EPA 8260D
4-Methyl-2-Pentanone	EPA 8260D
Acetone	EPA 8260D
Acetonitrile	EPA 8260D

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Volatile Organics

Carbon Disulfide	EPA 8260D
Ethylene Glycol	EPA 8015C
Methyl acetate	EPA 8260D
Methyl tert-butyl ether	EPA 8260D
o-Toluidine	EPA 8270E
tert-butyl alcohol	EPA 8260D
Vinyl acetate	EPA 8260D

NEW YORK
STATE OF
OPPORTUNITY

Department
of Health

Sample Preparation Methods

EPA 5035A-L
EPA 5035A-H
EPA 9030B
EPA 3010A
EPA 3005A
EPA 3050B
EPA 3550C
EPA 3540C
EPA 3546
EPA 3051A
EPA 3585
EPA 3060A
EPA 3541
EPA 9010C

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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 6010C EPA 7000B

Sample Preparation Methods

EPA 3050B
EPA 3051A



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All approved analytes are listed below:*

Acrylates

Acetonitrile	EPA TO-15
Acrylonitrile	EPA TO-15
Ethyl acrylate	EPA TO-15
Methyl methacrylate	EPA TO-15

Chlorinated Hydrocarbons

Hexachlorobutadiene	EPA TO-15
Hexachloroethane	EPA TO-15

Miscellaneous

Formaldehyde	EPA TO-15
Radon	Charcoal - Liquid Scintillation

Polychlorinated Biphenyls

PCBs and Aroclors	EPA TO-10A
	EPA TO-4A

Polynuclear Aromatics

Naphthalene	EPA TO-15

Priority Pollutant Phenols

Phenol	EPA TO-15

Purgeable Aromatics

1,2,4-Trimethylbenzene	EPA TO-15
1,2-Dichlorobenzene	EPA TO-15
1,3,5-Trimethylbenzene	EPA TO-15
1,3-Dichlorobenzene	EPA TO-15
1,4-Dichlorobenzene	EPA TO-15

Purgeable Aromatics

2-Chlorotoluene	EPA TO-15
Benzene	EPA TO-15
Chlorobenzene	EPA TO-15
Ethyl benzene	EPA TO-15
Isopropylbenzene	EPA TO-15
m/p-Xylenes	EPA TO-15
o-Xylene	EPA TO-15
Styrene	EPA TO-15
Toluene	EPA TO-15
Total Xylenes	EPA TO-15

Purgeable Halocarbons

1,1,1-Trichloroethane	EPA TO-15
1,1,2,2-Tetrachloroethane	EPA TO-15
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA TO-15
1,1,2-Trichloroethane	EPA TO-15
1,1-Dichloroethane	EPA TO-15
1,1-Dichloroethene	EPA TO-15
1,2-Dibromo-3-chloropropane	EPA TO-15
1,2-Dibromoethane	EPA TO-15
1,2-Dichloroethane	EPA TO-15
1,2-Dichloropropane	EPA TO-15
3-Chloropropene (Allyl chloride)	EPA TO-15
Bromodichloromethane	EPA TO-15
Bromoform	EPA TO-15
Bromomethane	EPA TO-15

Serial No.: 62819

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2022
Issued April 01, 2021

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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

MR. PHILLIP M. WORBY
EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2016) for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:*

Purgeable Halocarbons

Carbon tetrachloride	EPA TO-15
Chloroethane	EPA TO-15
Chloroform	EPA TO-15
Chloromethane	EPA TO-15
cis-1,2-Dichloroethene	EPA TO-15
cis-1,3-Dichloropropene	EPA TO-15
Dibromochloromethane	EPA TO-15
Dichlorodifluoromethane	EPA TO-15
Methylene chloride	EPA TO-15
Tetrachloroethene	EPA TO-15
trans-1,2-Dichloroethene	EPA TO-15
trans-1,3-Dichloropropene	EPA TO-15
Trichloroethene	EPA TO-15
Trichlorofluoromethane	EPA TO-15
Vinyl bromide	EPA TO-15
Vinyl chloride	EPA TO-15

Volatile Organics

4-Methyl-2-Pentanone	EPA TO-15
Acetaldehyde	EPA TO-15
Acetone	EPA TO-15
Acrolein (Propenal)	EPA TO-15
Carbon Disulfide	EPA TO-15
Cyclohexane	EPA TO-15
Hexane	EPA TO-15
Isopropanol	EPA TO-15
Methanol	EPA TO-15
Methyl iodide	EPA TO-15
Methyl tert-butyl ether	EPA TO-15
n-Heptane	EPA TO-15
Nitrobenzene	EPA TO-15
Propionaldehyde	EPA TO-15
tert-butyl alcohol	EPA TO-15
Vinyl acetate	EPA TO-15

Volatile Chlorinated Organics

Benzyl chloride	EPA TO-15
Epichlorohydrin	EPA TO-15

Volatile Organics

1,2-Dichlorotetrafluoroethane	EPA TO-15
1,3-Butadiene	EPA TO-15
1,4-Dioxane	EPA TO-15
2,2,4-Trimethylpentane	EPA TO-15
2-Butanone (Methylethyl ketone)	EPA TO-15

Serial No.: 62819

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



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MR. PHILLIP M. WORBY
EMSL ANALYTICAL INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077

NY Lab Id No: 10872

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

Chlorinated Hydrocarbon Pesticides

Chlordane Total NIOSH 5510

Metals I

Lead, Total NIOSH 7082
40 CFR PART 50 2013 APP G

Metals II

Mercury, Total NIOSH 6009

Miscellaneous

Asbestos 40 CFR 763 APX A No. III
YAMATE, AGARWAL GIBB
NIOSH 7402
Fibers NIOSH 7400 A RULES
Particulate Matter 40 CFR PART 50 APP B
40 CFR PART 50 APP J (PM10)

Polychlorinated Biphenyls

PCBs and Aroclors NIOSH 5503

Purgeable Aromatics

Benzene NIOSH 1501
Toluene NIOSH 1501
Total Xylenes NIOSH 1501

Sample Preparation Methods

40 CFR PART 50 APP G

Serial No.: 62820

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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

LiRo Engineers, Inc.
690 Delaware Avenue
Buffalo, NY 14209

FILE NUMBER: 99-1147
LICENSE NUMBER: 28866
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 12/22/2020
EXPIRATION DATE: 12/31/2021

Duly Authorized Representative – Robert Kreuzer:

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

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE



JOHN F SEWARD III

CLASS(EXPIRES)

C ATEC(02/22) D INSP(02/22)

H PM (02/22)

CERT# 15-20772

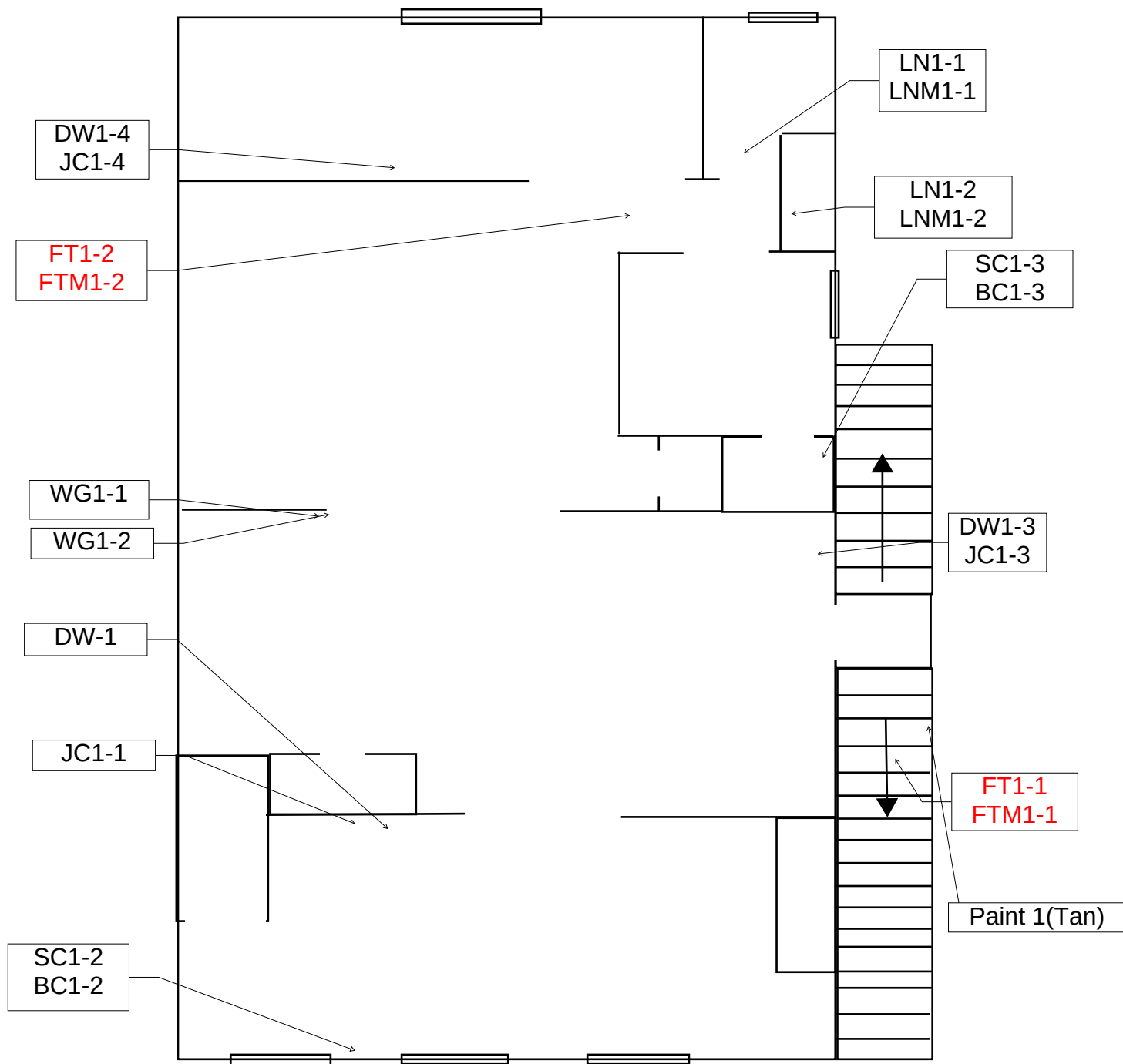
DMV# 323384175

MUST BE CARRIED ON ASBESTOS PROJECTS



APPENDIX D:
BULK SAMPLE /ACM LOCATION DRAWINGS

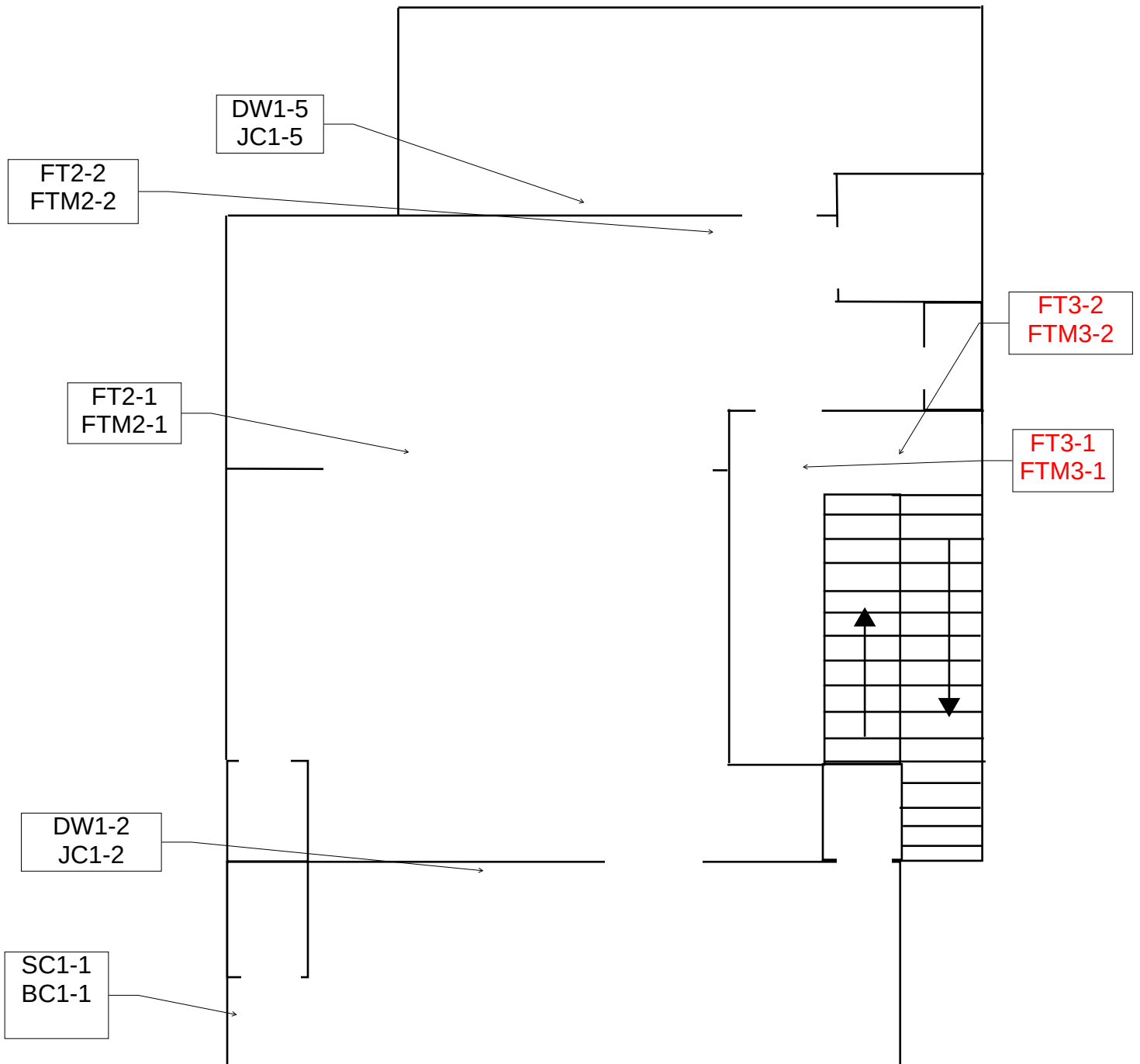
SAMPLE LOCATION DRAWING- 58 CANAL STREET- 2nd FLOOR



LEGEND

RED- Indicates Positive Sample
BLACK- Indicates Negative Sample

SAMPLE LOCATION DRAWING-58 CANAL STREET- 3rd FLOOR

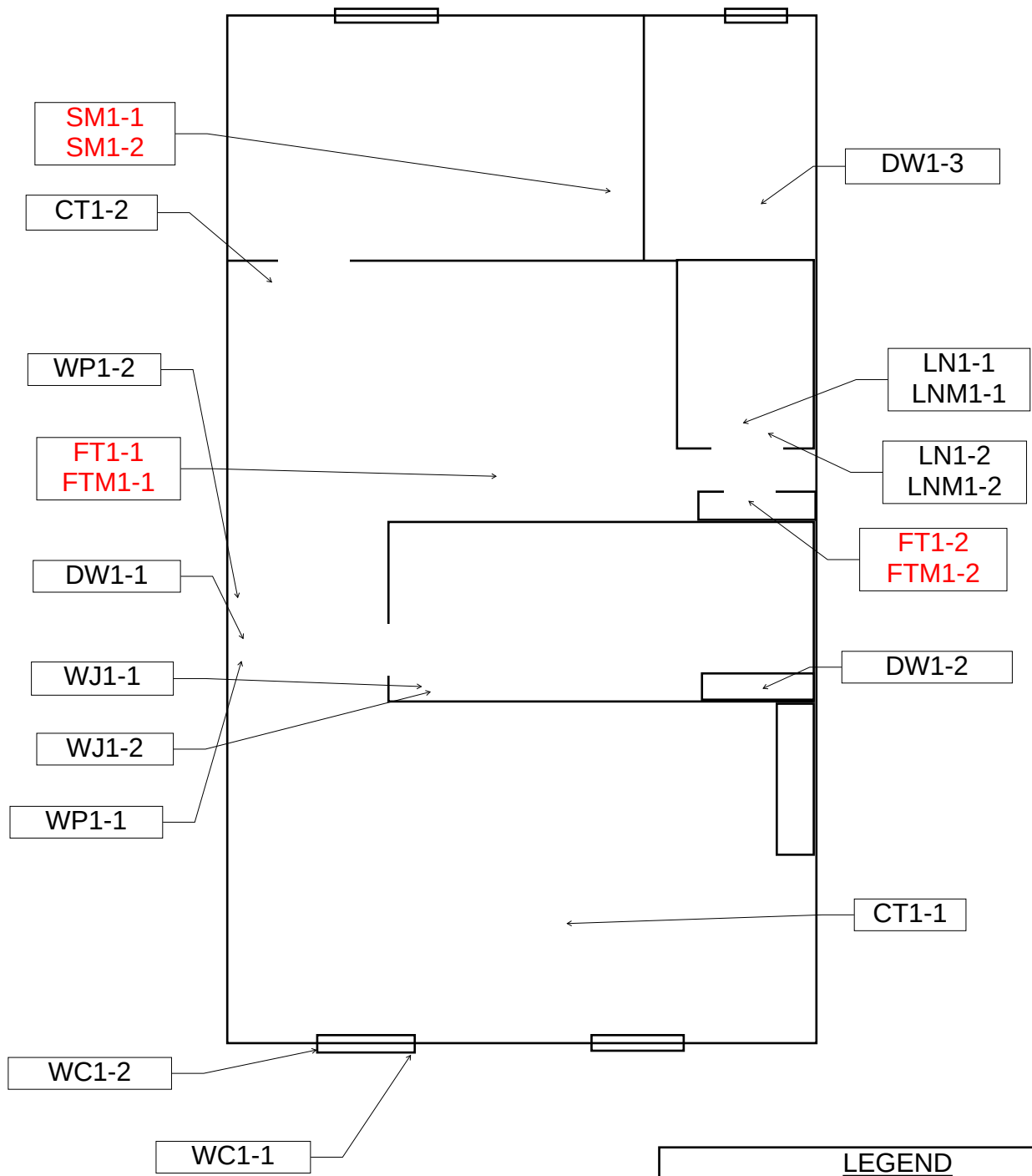


LEGEND

RED- Indicates Positive Sample

BLACK- Indicates Positive Sample

SAMPLE LOCATION DRAWING- 60 CANAL STREET

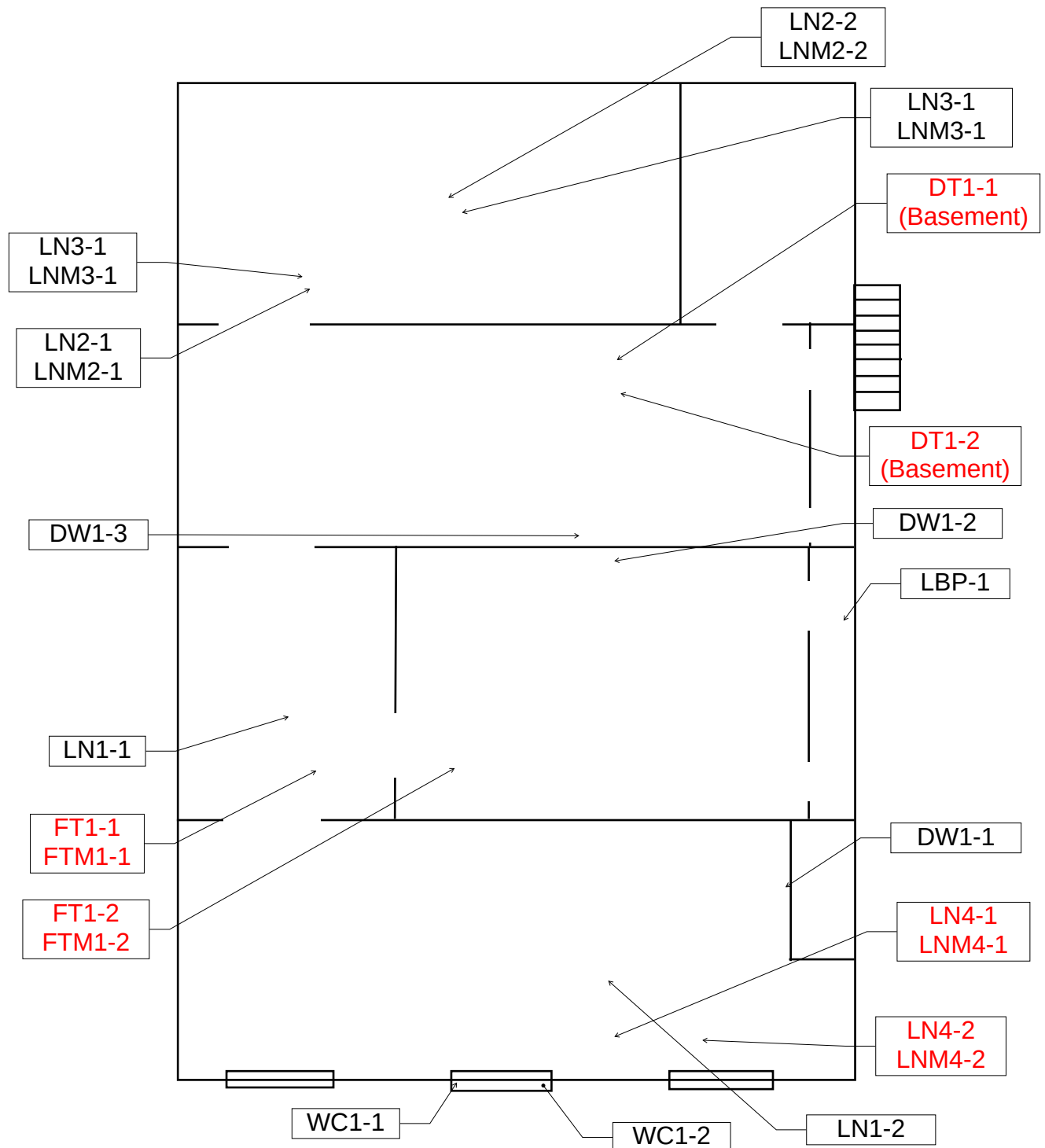


LEGEND

RED- Indicates Positive Sample

BLACK- Indicates Negative Sample

SAMPLE LOCTAION DRAWING- 62 CANAL STREET

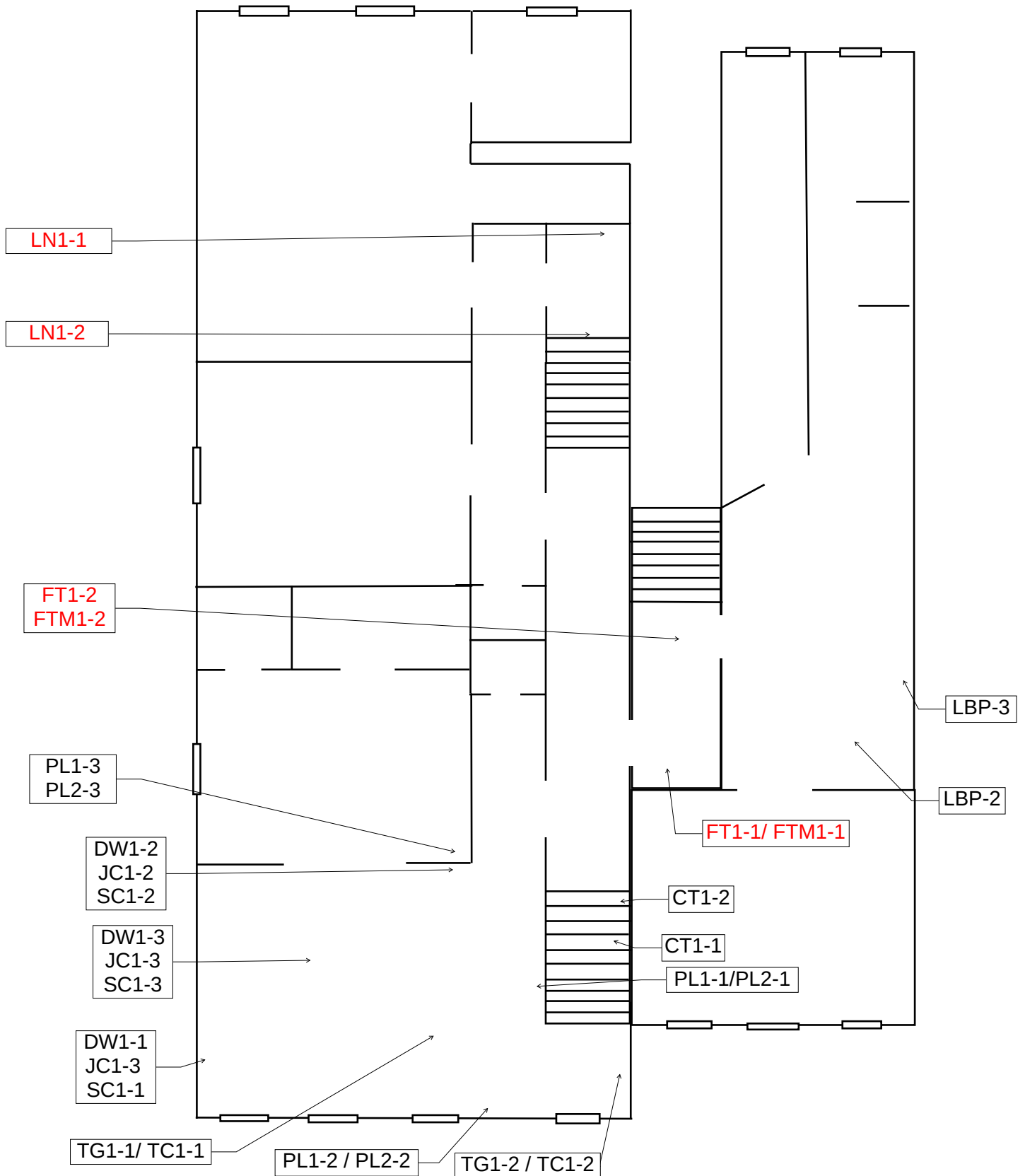


LEGEND

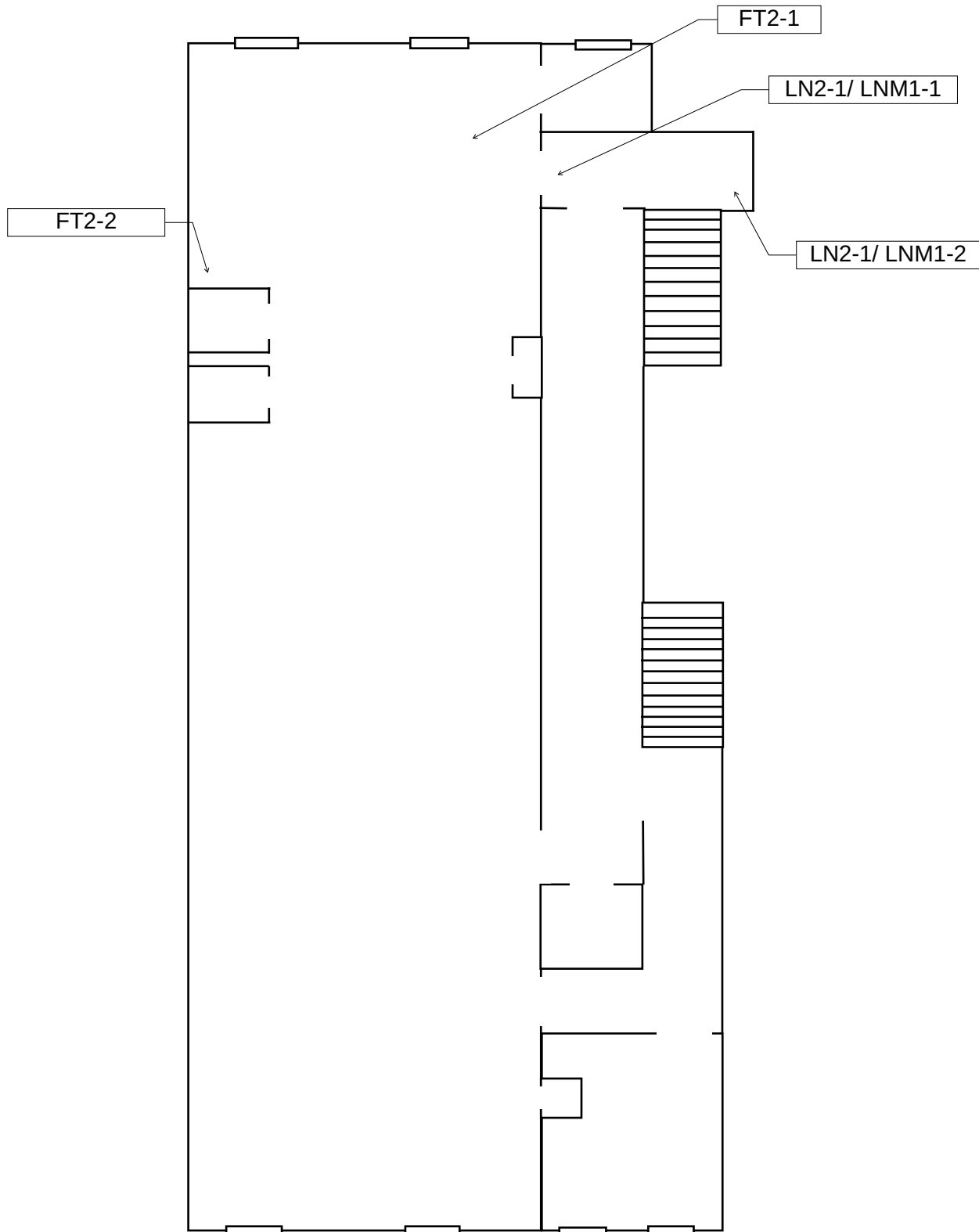
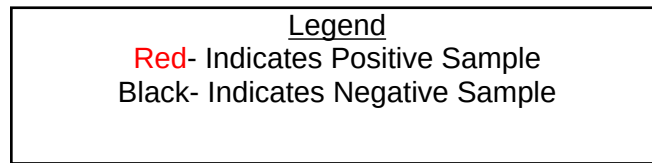
RED-Indicates Positive Sample
BLACK-Indicates Negative Sample

Sample Location Drawing- 64 Canal St. Lyons, NY

Legend
Red- Indicates Positive Sample
Black- Indicates Negative Sample



Sample Location Drawing- 64 Canal St. Lyons, NY



APPENDIX E:
PHOTOGRAPHIC LOG



Figure 1: Brown 9x9" Floor Tile & associated Black Mastic.

Figure 2: Tan Speckled 9x9" Floor Tile & associated Black Mastic.





Figure 3: White Duct Tape on vents in basement.

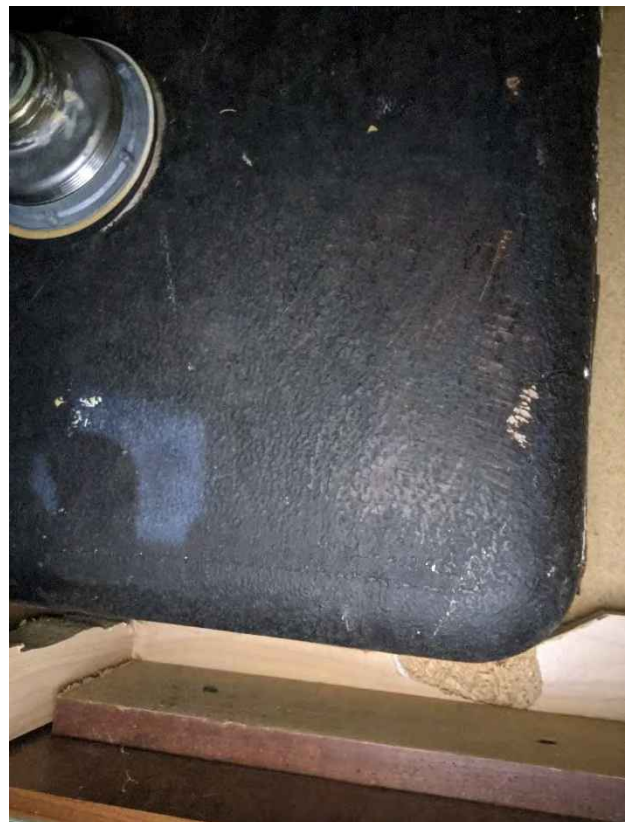


Figure 4: Black Sink Mastic



Figure 5: Red Linoleum & associated Black Mastic.

Figure 6: White 9x9" Floor Tile & associated Black Mastic.

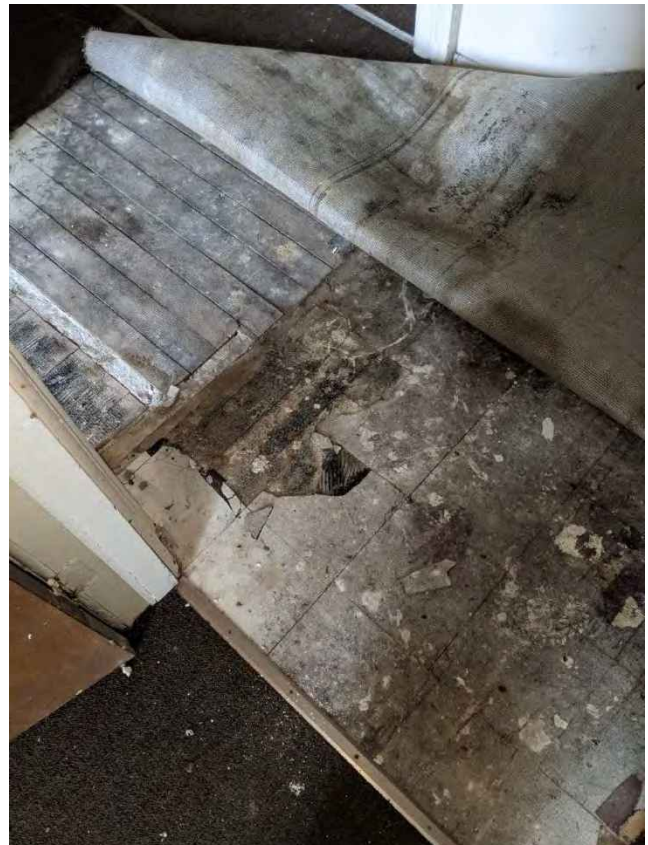




Figure 7: Green Linoleum.

APPENDIX B – SOIL BORING LOGS



61 Commercial St
Rochester, NY 14614
(585) 475-1440

Test Boring No.: SB/MW-7
Property of Interest: Canal St.
Page: 1 of 9

Project: 42 Canal St, Wayne Co.
Project #: 213414026
Client: Wayne Co.
Location: 42 Canal St,
Lyons, New York

Drill Contractor: TREC
Driller: —
Elevation: —
Weather: 70s, cloudy

Start Date: 8/30/22

Completion Date: 8/30/22

Drilling Method: Direct Push

Supervisor: S. Campbell

4-geoprobe 66DT

50 Canal St., Footprint

SAMPLE				Soil Information
PID (ppm)	Rec. (ft)	No.	Depth (ft)	Remarks
0	0.0	1	0-4	Loose unconsolidated fill material from former basement infill
5	0.0	2	4-8	
10	1.1	3	8-12	
15	0.1	4	12-16	
20				

Notes:

- PID Model Mini-Rae 3000 with 10.6 eV lamp.
- Samples collected for lab analysis:

CSL-SBMW7-S-8-12 @ 0930

VOC
PCB, SVOC, Metals

Other Notes and Observations

Well set to 11.5' BG-S



61 Commercial St
Rochester, NY 14614
(585) 475-1440

Test Boring No.: SB-4
Property of Interest: Canal St.
Page: 3 of 9

Project: 42 Canal St, Wayne Co.
Project #: 213414026
Client: Wayne Co.
Location: 42 Canal St,
Lyons, New York

Drill Contractor: TREC
Driller: _____
Elevation: _____
Weather: 70s, Rain

Start Date: 8/30/22
Completion Date: 8/30/22
Drilling Method: _____
Supervisor: S. Campbell

50. Canal St. Footprint

SAMPLE				Soil Information	
	PID (ppm)	Rec. (ft)	No.	Depth (ft)	Remarks
0	0.0	1.5	1	0-4	Loose, unconsolidated backfill material ↓ 8'
5	0.0	1.5	2	4-8	Brown, fine sand + silt Dark / Black fragments, unknown material Brown fine sand, cobbles, weathered rock fragments (green-grey) BOE @ 16'
10	0.0	3.0	3	8-12	
15	0.0	1.0	4	12-16	
20					

Notes:

- PID Model Mini-Rae 3000 with 10.6 eV lamp.
- Samples collected for lab analysis:

[no samples collected for lab analysis]

Other Notes and Observations

Project: 42 Canal St, Wayne Co.
Project #: 213414026
Client: Wayne Co.
Location: 42 Canal St,
Lyons, New York

Drill Contractor: TREC
Driller: _____
Elevation:
Weather: 70s, Rain

Start Date: 8/30/2022
Completion Date: 8/30/2022
Drilling Method: Direct Push
Supervisor: J. Campbell

50 Canal St. Footprint

[illegible]

Notes:

1. PID Model Mini-Rae 3000 with 10.6 eV lamp.
2. Samples collected for lab analysis:

Other Notes and Observations

2. Samples collected for lab analysis: [no samples collected for lab analysis] we'd set to 14.5'



61 Commercial St
Rochester, NY 14614
(585) 475-1440

Test Boring No.: SB/MW-5
Property of Interest: Canal St.
Page: 5 of 9

Project: 42 Canal St, Wayne Co. Drill Contractor: TREC Start Date: 8/30/22
Project #: 213414026 Driller: — Completion Date: 8/30/22
Client: Wayne Co. Elevation: — Drilling Method: Direct Push
Location: 42 Canal St, Weather: 70s, cloudy Supervisor: S. Campbell
Lyons, New York

50 Canal St., Footprint

SAMPLE				Soil Information	
0	PID (ppm)	Rec. (ft)	No.	Depth (ft)	Remarks
	0.0	0.5	1	0-4	unconsolidated fill (no sample bagged)
5	0.0	1.5	2	4-8	unconsolidated fill (no sample bagged)
10	0.2	3.0	3	8-12	Brown-Red sand + silt, some moisture
15	0.5	1.0	4	12-16	12' ↓ 15' Brown-grey sand + silt, moist Weathered Rock fragments 16' - grey-green bedded Rock fragments BOE @ 16'
20					

Notes:

- PID Model Mini-Rae 3000 with 10.6 eV lamp.
- Samples collected for lab analysis:

Other Notes and Observations

Drilling location moved
2' South due to
Resistance encountered @ 4-8'

CSL-SBMW5-S-12-16 @ 1115
VOC
PCB, SVOC, metals



61 Commercial St
Rochester, NY 14614
(585) 475-1440

Test Boring No.: SB/MW-2
Property of Interest: Canal St.
Page: 6 of 9

Project: 42 Canal St, Wayne Co. Drill Contractor: TREC Start Date: 8/30/2022
Project #: 213414026 Driller: Completion Date: 8/30/2022
Client: Wayne Co. Elevation: Drilling Method:
Location: 42 Canal St, Weather: 47.0, Rain Supervisor: S. Campbell
Lyons, New York 50 Canal St., Interior

SAMPLE				Soil Information	
	PID (ppm)	Rec. (ft)	No.	Depth (ft)	Remarks
0	0.0	0.8	1	0-2	unconsolidated fill
5	0.0	2	2	2-6	↓ 4'
					4-6' fine brown sand, traces of silt
10	0.0	2	3	6-10	Medium-fine brown sand weathered stone fragments
					↓ 9'
					10' - Bedrock fragments
					Refusal @ 10'
15					
20					

Notes:

1. PID Model Mini-Rae 3000 with 10.6 eV lamp.
2. Samples collected for lab analysis:

Other Notes and Observations

Went Set to 6.5' BGS

no samples collected for lab analysis



Test Boring No.: SB-1
Property of Interest: Canal St.
Page: 7 of 9

Drill Contractor: TREC Start Date: 8/30/2022
Driller: _____ Completion Date: 8/30/2022
Elevation: - Drilling Method: Direct Push
Weather: 70s, Rain Supervisor: S. Campbell

46 Canal St. Interior

SAMPLE				Soil Information
PID (ppm)	Rec. (ft)	No.	Depth (ft)	Remarks
0.0	1.0	1	0-2	unconsolidated fill, assorted Rock fragments
				↓ 2'
				Compacted fill, moist
				↓ 4'
				Brown sand, some silt
				↓ 6'
0.0	0.8	3	6-10	Brown sand, silt, pebbles
				↓
				Refusal @ 10'

1. PID Model Mini-Rae 3000 with 10.6 eV lamp.
2. Samples collected for lab analysis:

None



Test Boring No.: SB/MW-9
Property of Interest: Canal St.
Page: 8 of 9

Drill Contractor: TREC Start Date: 8/30/2022
 Driller: _____ Completion Date: 8/30/2022
 Elevation: - Drilling Method: Direct Push
 Weather: 70s, Rain Supervisor: S. Campbell

66 Canal St., Interior

SAMPLE				Soil Information
PID (ppm)	Rec. (ft)	No.	Depth (ft)	Remarks
0.0	1.0	1	0-2	Unconsolidated fill material
0.0	1.5	2	2-3.8	Brown, fine sand, dry gravel, some pebbles
				Refusal @ 3.8'

1. PID Model Mini-Rae 3000 with 10.6 eV lamp.
2. Samples collected for lab analysis:

weel set to 3.8 BGS

CSL-SBMW 9 - S - 2 - 3.8 @ 1430

VOL

SVOC, PCB, metals

MS + MSD



SB-8
Test Boring No.: SB/MW-8
Property of Interest: Canal sk.
Page: 9 of 9

Project:	42 Canal St, Wayne Co.	Drill Contractor:	<u>TREC</u>	Start Date:	<u>8/30/2022</u>
Project #:	213414026	Driller:	<u> </u>	Completion Date:	<u>8/30/2022</u>
Client:	Wayne Co.	Elevation:	<u> </u>	Drilling Method:	<u>Direct Push</u>
Location:	42 Canal St, Lyons, New York	Weather:	<u>70s, Rain</u>	Supervisor:	<u>S. Campbell</u>

66 Canal St., Intercon

[illegible]

Other Notes and Observations

CSL - SBB - S - 2-4 @ 14 30⁰⁰
VOL
PCB, SVOC, metals

CSL-DUP-S (2) @1455
U:\213414026\05_report_deliv\

APPENDIX C – LABORATORY ANALYTICAL REPORTS

ANALYTICAL REPORT

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

Laboratory Job ID: 480-201197-1

Client Project/Site: Canal Street, Lyons - Soils

For:

Stantec Consulting Services Inc
61 Commercial Street
Suite100
Rochester, New York 14614

Attn: Ms. Katherine Nelson



Authorized for release by:

9/9/2022 6:03:39 PM

Joshua Velez, Project Management Assistant I

Joshua.Velez@et.eurofinsus.com

Designee for

Ryan VanDette, Project Manager II
(716)504-9830

Ryan.VanDette@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.

GC/MS Semi VOA TICs

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

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Glossary

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

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Job ID: 480-201197-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-201197-1

Comments

No additional comments.

Receipt

The samples were received on 9/1/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.1° C.

Receipt Exceptions

Sample CSL-SBMW7-S-0-4 was received and not on COC-Added to login.

GC/MS VOA

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

GC/MS Semi VOA

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: CSL-DUP-S (480-201197-5). These results have been reported and qualified.

Method 8270D: Surrogate recovery for the following samples were outside control limits: CSL-SBMW9-S-2-3.8 (480-201197-4), CSL-SBMW9-S-2-3.8 (480-201197-4[MS]) and CSL-SBMW9-S-2-3.8 (480-201197-4[MSD]). Re-extraction and/or re-analysis was performed and surrogate recovery was still outside control limits for 480-201197-4. Both sets of data have been reported.

Method 8270D: Surrogate recovery for the following samples were outside control limits: CSL-SBMW9-S-2-3.8 (480-201197-4), CSL-SBMW9-S-2-3.8 (480-201197-4[MS]) and CSL-SBMW9-S-2-3.8 (480-201197-4[MSD]). Re-extraction and/or re-analysis was performed and surrogate recovery for 480-201197-4 was still outside control limits. Both sets of data have been reported.

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

GC Semi VOA

Method 8082A: The following samples are associated with a continuing calibration verification (CCVIS 480-640279/3) that had recoveries for the surrogate Decachlorobiphenyl below acceptance limits: CSL-SBMW5-S-12-16 (480-201197-1), CSL-SBMW7-S-8-12 (480-201197-2), CSL-SB 8-2-4 (480-201197-3), CSL-SBMW9-S-2-3.8 (480-201197-4), CSL-DUP-S (480-201197-5) and CSL-SBMW7-S-0-4 (480-201197-6). The secondary surrogate Tetrachloro-m-xylene is within limits; therefore, the data has been reported.

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

Metals

Method 6010C: The recovery of post spike, (480-201197-A-4-L PDS), associated with batch 480-640487, exhibited results outside quality control limits for Total Barium. However, the serial dilution (SD) of this sample was compliant, therefore no corrective action was necessary.

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

Organic Prep

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

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SBMW5-S-12-16

Lab Sample ID: 480-201197-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	5.7	vs	5.6		ug/Kg	1	✱	8260C	Total/NA
Arsenic	7.7		2.4		mg/Kg	1	✱	6010C	Total/NA
Barium	68.8		0.59		mg/Kg	1	✱	6010C	Total/NA
Chromium	10.9		0.59		mg/Kg	1	✱	6010C	Total/NA
Lead	14.7		1.2		mg/Kg	1	✱	6010C	Total/NA

Client Sample ID: CSL-SBMW7-S-8-12

Lab Sample ID: 480-201197-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.5		2.7		mg/Kg	1	✱	6010C	Total/NA
Barium	122		0.67		mg/Kg	1	✱	6010C	Total/NA
Chromium	16.1		0.67		mg/Kg	1	✱	6010C	Total/NA
Lead	51.8		1.3		mg/Kg	1	✱	6010C	Total/NA
Mercury	0.11		0.027		mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: CSL-SB 8-2-4

Lab Sample ID: 480-201197-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.4		2.4		mg/Kg	1	✱	6010C	Total/NA
Barium	83.3		0.60		mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.24		0.24		mg/Kg	1	✱	6010C	Total/NA
Chromium	15.3		0.60		mg/Kg	1	✱	6010C	Total/NA
Lead	49.9		1.2		mg/Kg	1	✱	6010C	Total/NA
Mercury	0.087		0.023		mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: CSL-SBMW9-S-2-3.8

Lab Sample ID: 480-201197-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bis(2-ethylhexyl) phthalate - RE	190		190		ug/Kg	1	✱	8270D	Total/NA
Butyl benzyl phthalate - RE	210		190		ug/Kg	1	✱	8270D	Total/NA
Arsenic	4.6		2.2		mg/Kg	1	✱	6010C	Total/NA
Barium	74.3	F1	0.55		mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.54		0.22		mg/Kg	1	✱	6010C	Total/NA
Chromium	11.8		0.55		mg/Kg	1	✱	6010C	Total/NA
Lead	72.2	F1 F2	1.1		mg/Kg	1	✱	6010C	Total/NA
Mercury	0.13		0.023		mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: CSL-DUP-S

Lab Sample ID: 480-201197-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.8		2.4		mg/Kg	1	✱	6010C	Total/NA
Barium	96.9		0.61		mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.26		0.24		mg/Kg	1	✱	6010C	Total/NA
Chromium	13.9		0.61		mg/Kg	1	✱	6010C	Total/NA
Lead	51.7		1.2		mg/Kg	1	✱	6010C	Total/NA
Mercury	0.096		0.024		mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: CSL-SBMW7-S-0-4

Lab Sample ID: 480-201197-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	15	vs	5.1		ug/Kg	1	✱	8260C	Total/NA
Tetrachloroethene	61	vs	5.1		ug/Kg	1	✱	8260C	Total/NA
Trichloroethene	5.5	vs	5.1		ug/Kg	1	✱	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SBMW7-S-0-4 (Continued)

Lab Sample ID: 480-201197-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.6		2.1		mg/Kg	1	✱	6010C	Total/NA
Barium	48.0		0.52		mg/Kg	1	✱	6010C	Total/NA
Chromium	14.3		0.52		mg/Kg	1	✱	6010C	Total/NA
Lead	11.3		1.0		mg/Kg	1	✱	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SBMW5-S-12-16

Lab Sample ID: 480-201197-1

Date Collected: 08/30/22 11:15

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
1,1,2,2-Tetrachloroethane	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
1,1,2-Trichloroethane	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
1,1-Dichloroethane	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
1,1-Dichloroethene	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
1,2,4-Trichlorobenzene	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
1,2,4-Trimethylbenzene	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
1,2-Dibromoethane	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
1,2-Dichlorobenzene	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
1,2-Dichloroethane	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
1,2-Dichloropropane	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
1,3,5-Trimethylbenzene	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
1,3-Dichlorobenzene	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
1,4-Dichlorobenzene	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
2-Butanone (MEK)	ND	vs	28		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
2-Hexanone	ND	vs	28		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
4-Isopropyltoluene	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
4-Methyl-2-pentanone (MIBK)	ND	vs	28		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
Acetone	ND	vs	28		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
Benzene	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
Bromodichloromethane	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
Bromoform	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
Bromomethane	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
Carbon disulfide	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
Carbon tetrachloride	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
Chlorobenzene	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
Chloroethane	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
Chloroform	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
Chloromethane	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
cis-1,2-Dichloroethene	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
cis-1,3-Dichloropropene	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
Cyclohexane	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
Dibromochloromethane	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
Dichlorodifluoromethane	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
Ethylbenzene	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
Isopropylbenzene	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
Methyl acetate	ND	vs	28		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
Methyl tert-butyl ether	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
Methylcyclohexane	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
Methylene Chloride	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
Naphthalene	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
n-Butylbenzene	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
N-Propylbenzene	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
sec-Butylbenzene	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
Styrene	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
tert-Butylbenzene	ND	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1
Tetrachloroethene	5.7	vs	5.6		ug/Kg	✱	09/01/22 15:31	09/01/22 22:45	1

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Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SBMW5-S-12-16

Lab Sample ID: 480-201197-1

Date Collected: 08/30/22 11:15

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND	vs	5.6		ug/Kg	☼	09/01/22 15:31	09/01/22 22:45	1
trans-1,2-Dichloroethene	ND	vs	5.6		ug/Kg	☼	09/01/22 15:31	09/01/22 22:45	1
trans-1,3-Dichloropropene	ND	vs	5.6		ug/Kg	☼	09/01/22 15:31	09/01/22 22:45	1
Trichloroethene	ND	vs	5.6		ug/Kg	☼	09/01/22 15:31	09/01/22 22:45	1
Trichlorofluoromethane	ND	vs	5.6		ug/Kg	☼	09/01/22 15:31	09/01/22 22:45	1
Vinyl chloride	ND	vs	5.6		ug/Kg	☼	09/01/22 15:31	09/01/22 22:45	1
Xylenes, Total	ND	vs	11		ug/Kg	☼	09/01/22 15:31	09/01/22 22:45	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			09/01/22 15:31	09/01/22 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 126	09/01/22 15:31	09/01/22 22:45	1
4-Bromofluorobenzene (Surr)	95		72 - 126	09/01/22 15:31	09/01/22 22:45	1
Dibromofluoromethane (Surr)	95		60 - 140	09/01/22 15:31	09/01/22 22:45	1
Toluene-d8 (Surr)	109		71 - 125	09/01/22 15:31	09/01/22 22:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
2,4,6-Trichlorophenol	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
2,4-Dichlorophenol	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
2,4-Dimethylphenol	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
2,4-Dinitrophenol	ND		1900		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
2,4-Dinitrotoluene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
2,6-Dinitrotoluene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
2-Chloronaphthalene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
2-Chlorophenol	ND		370		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
2-Methylnaphthalene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
2-Methylphenol	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
2-Nitroaniline	ND		370		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
2-Nitrophenol	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
3,3'-Dichlorobenzidine	ND		370		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
3-Nitroaniline	ND		370		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
4,6-Dinitro-2-methylphenol	ND		370		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
4-Bromophenyl phenyl ether	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
4-Chloro-3-methylphenol	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
4-Chloroaniline	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
4-Chlorophenyl phenyl ether	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
4-Methylphenol	ND		370		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
4-Nitroaniline	ND		370		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
4-Nitrophenol	ND		370		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Acenaphthene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Acenaphthylene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Acetophenone	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Anthracene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Atrazine	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Benzaldehyde	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Benzo[a]anthracene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Benzo[a]pyrene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1

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Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SBMW5-S-12-16

Lab Sample ID: 480-201197-1

Date Collected: 08/30/22 11:15

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Benzo[g,h,i]perylene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Benzo[k]fluoranthene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Biphenyl	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
bis (2-chloroisopropyl) ether	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Bis(2-chloroethoxy)methane	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Bis(2-chloroethyl)ether	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Bis(2-ethylhexyl) phthalate	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Butyl benzyl phthalate	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Caprolactam	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Carbazole	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Chrysene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Dibenz(a,h)anthracene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Dibenzofuran	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Diethyl phthalate	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Dimethyl phthalate	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Di-n-butyl phthalate	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Di-n-octyl phthalate	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Fluoranthene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Fluorene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Hexachlorobenzene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Hexachlorobutadiene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Hexachlorocyclopentadiene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Hexachloroethane	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Indeno[1,2,3-cd]pyrene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Isophorone	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Naphthalene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Nitrobenzene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
N-Nitrosodi-n-propylamine	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
N-Nitrosodiphenylamine	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Pentachlorophenol	ND		370		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Phenanthrene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Phenol	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1
Pyrene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:35	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	8800	T J	ug/Kg	☼	1.80		09/01/22 16:01	09/02/22 19:35	1
Unknown	830	T J	ug/Kg	☼	3.05		09/01/22 16:01	09/02/22 19:35	1
Octadecane, 2-methyl-	350	T J N	ug/Kg	☼	12.97	1560-88-9	09/01/22 16:01	09/02/22 19:35	1
Hexadecane	420	T J N	ug/Kg	☼	13.24	544-76-3	09/01/22 16:01	09/02/22 19:35	1
Tetracosane	440	T J N	ug/Kg	☼	13.50	646-31-1	09/01/22 16:01	09/02/22 19:35	1
Octacosane	290	T J N	ug/Kg	☼	13.75	630-02-4	09/01/22 16:01	09/02/22 19:35	1
Nonadecane	210	T J N	ug/Kg	☼	13.99	629-92-5	09/01/22 16:01	09/02/22 19:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	94		54 - 120	09/01/22 16:01	09/02/22 19:35	1
2-Fluorobiphenyl	91		60 - 120	09/01/22 16:01	09/02/22 19:35	1
2-Fluorophenol (Surr)	81		52 - 120	09/01/22 16:01	09/02/22 19:35	1
Nitrobenzene-d5 (Surr)	85		53 - 120	09/01/22 16:01	09/02/22 19:35	1
Phenol-d5 (Surr)	83		54 - 120	09/01/22 16:01	09/02/22 19:35	1

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Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SBMW5-S-12-16

Lab Sample ID: 480-201197-1

Date Collected: 08/30/22 11:15

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 88.1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl-d14 (Surr)	100		79 - 130	09/01/22 16:01	09/02/22 19:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24		mg/Kg	✱	09/01/22 16:17	09/05/22 17:24	1
PCB-1221	ND		0.24		mg/Kg	✱	09/01/22 16:17	09/05/22 17:24	1
PCB-1232	ND		0.24		mg/Kg	✱	09/01/22 16:17	09/05/22 17:24	1
PCB-1242	ND		0.24		mg/Kg	✱	09/01/22 16:17	09/05/22 17:24	1
PCB-1248	ND		0.24		mg/Kg	✱	09/01/22 16:17	09/05/22 17:24	1
PCB-1254	ND		0.24		mg/Kg	✱	09/01/22 16:17	09/05/22 17:24	1
PCB-1260	ND		0.24		mg/Kg	✱	09/01/22 16:17	09/05/22 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	131		60 - 154	09/01/22 16:17	09/05/22 17:24	1
Tetrachloro-m-xylene	114		60 - 154	09/01/22 16:17	09/05/22 17:24	1
DCB Decachlorobiphenyl	95		65 - 174	09/01/22 16:17	09/05/22 17:24	1
DCB Decachlorobiphenyl	97		65 - 174	09/01/22 16:17	09/05/22 17:24	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.7		2.4		mg/Kg	✱	09/02/22 11:45	09/06/22 14:24	1
Barium	68.8		0.59		mg/Kg	✱	09/02/22 11:45	09/06/22 14:24	1
Cadmium	ND		0.24		mg/Kg	✱	09/02/22 11:45	09/06/22 14:24	1
Chromium	10.9		0.59		mg/Kg	✱	09/02/22 11:45	09/06/22 14:24	1
Lead	14.7		1.2		mg/Kg	✱	09/02/22 11:45	09/06/22 14:24	1
Selenium	ND		4.7		mg/Kg	✱	09/02/22 11:45	09/06/22 14:24	1
Silver	ND		0.71		mg/Kg	✱	09/02/22 11:45	09/06/22 14:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.023		mg/Kg	✱	09/02/22 10:08	09/02/22 13:00	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SBMW7-S-8-12

Lab Sample ID: 480-201197-2

Date Collected: 08/30/22 09:30

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 74.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
1,1,2,2-Tetrachloroethane	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
1,1,2-Trichloroethane	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
1,1-Dichloroethane	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
1,1-Dichloroethene	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
1,2,4-Trichlorobenzene	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
1,2,4-Trimethylbenzene	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
1,2-Dibromoethane	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
1,2-Dichlorobenzene	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
1,2-Dichloroethane	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
1,2-Dichloropropane	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
1,3,5-Trimethylbenzene	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
1,3-Dichlorobenzene	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
1,4-Dichlorobenzene	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
2-Butanone (MEK)	ND	vs	33		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
2-Hexanone	ND	vs	33		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
4-Isopropyltoluene	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
4-Methyl-2-pentanone (MIBK)	ND	vs	33		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
Acetone	ND	vs	33		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
Benzene	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
Bromodichloromethane	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
Bromoform	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
Bromomethane	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
Carbon disulfide	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
Carbon tetrachloride	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
Chlorobenzene	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
Chloroethane	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
Chloroform	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
Chloromethane	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
cis-1,2-Dichloroethene	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
cis-1,3-Dichloropropene	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
Cyclohexane	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
Dibromochloromethane	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
Dichlorodifluoromethane	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
Ethylbenzene	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
Isopropylbenzene	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
Methyl acetate	ND	vs	33		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
Methyl tert-butyl ether	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
Methylcyclohexane	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
Methylene Chloride	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
Naphthalene	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
n-Butylbenzene	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
N-Propylbenzene	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
sec-Butylbenzene	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
Styrene	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
tert-Butylbenzene	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1
Tetrachloroethene	ND	vs	6.7		ug/Kg	✱	09/01/22 15:31	09/01/22 23:09	1

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Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SBMW7-S-8-12

Lab Sample ID: 480-201197-2

Date Collected: 08/30/22 09:30

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 74.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND	vs	6.7		ug/Kg	☼	09/01/22 15:31	09/01/22 23:09	1
trans-1,2-Dichloroethene	ND	vs	6.7		ug/Kg	☼	09/01/22 15:31	09/01/22 23:09	1
trans-1,3-Dichloropropene	ND	vs	6.7		ug/Kg	☼	09/01/22 15:31	09/01/22 23:09	1
Trichloroethene	ND	vs	6.7		ug/Kg	☼	09/01/22 15:31	09/01/22 23:09	1
Trichlorofluoromethane	ND	vs	6.7		ug/Kg	☼	09/01/22 15:31	09/01/22 23:09	1
Vinyl chloride	ND	vs	6.7		ug/Kg	☼	09/01/22 15:31	09/01/22 23:09	1
Xylenes, Total	ND	vs	13		ug/Kg	☼	09/01/22 15:31	09/01/22 23:09	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			09/01/22 15:31	09/01/22 23:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 126	09/01/22 15:31	09/01/22 23:09	1
4-Bromofluorobenzene (Surr)	95		72 - 126	09/01/22 15:31	09/01/22 23:09	1
Dibromofluoromethane (Surr)	94		60 - 140	09/01/22 15:31	09/01/22 23:09	1
Toluene-d8 (Surr)	111		71 - 125	09/01/22 15:31	09/01/22 23:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
2,4,6-Trichlorophenol	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
2,4-Dichlorophenol	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
2,4-Dimethylphenol	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
2,4-Dinitrophenol	ND		2200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
2,4-Dinitrotoluene	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
2,6-Dinitrotoluene	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
2-Chloronaphthalene	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
2-Chlorophenol	ND		440		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
2-Methylnaphthalene	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
2-Methylphenol	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
2-Nitroaniline	ND		440		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
2-Nitrophenol	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
3,3'-Dichlorobenzidine	ND		440		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
3-Nitroaniline	ND		440		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
4,6-Dinitro-2-methylphenol	ND		440		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
4-Bromophenyl phenyl ether	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
4-Chloro-3-methylphenol	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
4-Chloroaniline	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
4-Chlorophenyl phenyl ether	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
4-Methylphenol	ND		440		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
4-Nitroaniline	ND		440		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
4-Nitrophenol	ND		440		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Acenaphthene	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Acenaphthylene	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Acetophenone	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Anthracene	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Atrazine	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Benzaldehyde	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Benzo[a]anthracene	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Benzo[a]pyrene	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1

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Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SBMW7-S-8-12

Lab Sample ID: 480-201197-2

Date Collected: 08/30/22 09:30

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 74.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Benzo[g,h,i]perylene	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Benzo[k]fluoranthene	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Biphenyl	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
bis (2-chloroisopropyl) ether	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Bis(2-chloroethoxy)methane	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Bis(2-chloroethyl)ether	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Bis(2-ethylhexyl) phthalate	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Butyl benzyl phthalate	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Caprolactam	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Carbazole	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Chrysene	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Dibenz(a,h)anthracene	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Dibenzofuran	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Diethyl phthalate	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Dimethyl phthalate	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Di-n-butyl phthalate	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Di-n-octyl phthalate	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Fluoranthene	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Fluorene	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Hexachlorobenzene	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Hexachlorobutadiene	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Hexachlorocyclopentadiene	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Hexachloroethane	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Indeno[1,2,3-cd]pyrene	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Isophorone	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Naphthalene	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Nitrobenzene	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
N-Nitrosodi-n-propylamine	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
N-Nitrosodiphenylamine	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Pentachlorophenol	ND		440		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Phenanthrene	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Phenol	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1
Pyrene	ND		220		ug/Kg	☼	09/01/22 16:01	09/02/22 20:00	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	3600	T J	ug/Kg	☼	1.80		09/01/22 16:01	09/02/22 20:00	1
Unknown	810	T J	ug/Kg	☼	3.06		09/01/22 16:01	09/02/22 20:00	1
Tricosane	250	T J N	ug/Kg	☼	12.41	638-67-5	09/01/22 16:01	09/02/22 20:00	1
9-Octadecenamide, (Z)-	180	T J N	ug/Kg	☼	12.61	301-02-0	09/01/22 16:01	09/02/22 20:00	1
Tetracosane	470	T J N	ug/Kg	☼	12.70	646-31-1	09/01/22 16:01	09/02/22 20:00	1
Docosane	730	T J N	ug/Kg	☼	13.50	629-97-0	09/01/22 16:01	09/02/22 20:00	1
Octacosane	390	T J N	ug/Kg	☼	13.75	630-02-4	09/01/22 16:01	09/02/22 20:00	1
2-Methyl-3-(3-methyl-but-2-enyl)-2-(4-methyl-pent-3-enyl)-ox	390	T J N	ug/Kg	☼	14.11	1000144-10-2	09/01/22 16:01	09/02/22 20:00	1
Nonadecane	320	T J N	ug/Kg	☼	14.22	629-92-5	09/01/22 16:01	09/02/22 20:00	1
Unknown	1200	T J	ug/Kg	☼	14.61		09/01/22 16:01	09/02/22 20:00	1
Friedelin	570	T J N	ug/Kg	☼	16.30	559-74-0	09/01/22 16:01	09/02/22 20:00	1

Eurofins Buffalo

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SBMW7-S-8-12

Lab Sample ID: 480-201197-2

Date Collected: 08/30/22 09:30

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 74.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	94		54 - 120	09/01/22 16:01	09/02/22 20:00	1
2-Fluorobiphenyl	93		60 - 120	09/01/22 16:01	09/02/22 20:00	1
2-Fluorophenol (Surr)	77		52 - 120	09/01/22 16:01	09/02/22 20:00	1
Nitrobenzene-d5 (Surr)	84		53 - 120	09/01/22 16:01	09/02/22 20:00	1
Phenol-d5 (Surr)	80		54 - 120	09/01/22 16:01	09/02/22 20:00	1
p-Terphenyl-d14 (Surr)	102		79 - 130	09/01/22 16:01	09/02/22 20:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26		mg/Kg	✱	09/01/22 16:17	09/05/22 17:37	1
PCB-1221	ND		0.26		mg/Kg	✱	09/01/22 16:17	09/05/22 17:37	1
PCB-1232	ND		0.26		mg/Kg	✱	09/01/22 16:17	09/05/22 17:37	1
PCB-1242	ND		0.26		mg/Kg	✱	09/01/22 16:17	09/05/22 17:37	1
PCB-1248	ND		0.26		mg/Kg	✱	09/01/22 16:17	09/05/22 17:37	1
PCB-1254	ND		0.26		mg/Kg	✱	09/01/22 16:17	09/05/22 17:37	1
PCB-1260	ND		0.26		mg/Kg	✱	09/01/22 16:17	09/05/22 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	127		60 - 154	09/01/22 16:17	09/05/22 17:37	1
Tetrachloro-m-xylene	111		60 - 154	09/01/22 16:17	09/05/22 17:37	1
DCB Decachlorobiphenyl	90		65 - 174	09/01/22 16:17	09/05/22 17:37	1
DCB Decachlorobiphenyl	90		65 - 174	09/01/22 16:17	09/05/22 17:37	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.5		2.7		mg/Kg	✱	09/02/22 11:45	09/06/22 14:28	1
Barium	122		0.67		mg/Kg	✱	09/02/22 11:45	09/06/22 14:28	1
Cadmium	ND		0.27		mg/Kg	✱	09/02/22 11:45	09/06/22 14:28	1
Chromium	16.1		0.67		mg/Kg	✱	09/02/22 11:45	09/06/22 14:28	1
Lead	51.8		1.3		mg/Kg	✱	09/02/22 11:45	09/06/22 14:28	1
Selenium	ND		5.4		mg/Kg	✱	09/02/22 11:45	09/06/22 14:28	1
Silver	ND		0.80		mg/Kg	✱	09/02/22 11:45	09/06/22 14:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.027		mg/Kg	✱	09/02/22 10:08	09/02/22 13:01	1

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Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SB 8-2-4

Lab Sample ID: 480-201197-3

Date Collected: 08/30/22 14:40

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
1,1,2,2-Tetrachloroethane	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
1,1,2-Trichloroethane	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
1,1-Dichloroethane	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
1,1-Dichloroethene	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
1,2,4-Trichlorobenzene	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
1,2,4-Trimethylbenzene	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
1,2-Dibromoethane	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
1,2-Dichlorobenzene	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
1,2-Dichloroethane	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
1,2-Dichloropropane	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
1,3,5-Trimethylbenzene	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
1,3-Dichlorobenzene	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
1,4-Dichlorobenzene	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
2-Butanone (MEK)	ND	vs	30		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
2-Hexanone	ND	vs	30		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
4-Isopropyltoluene	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
4-Methyl-2-pentanone (MIBK)	ND	vs	30		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
Acetone	ND	vs	30		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
Benzene	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
Bromodichloromethane	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
Bromoform	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
Bromomethane	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
Carbon disulfide	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
Carbon tetrachloride	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
Chlorobenzene	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
Chloroethane	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
Chloroform	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
Chloromethane	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
cis-1,2-Dichloroethene	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
cis-1,3-Dichloropropene	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
Cyclohexane	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
Dibromochloromethane	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
Dichlorodifluoromethane	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
Ethylbenzene	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
Isopropylbenzene	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
Methyl acetate	ND	vs	30		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
Methyl tert-butyl ether	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
Methylcyclohexane	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
Methylene Chloride	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
Naphthalene	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
n-Butylbenzene	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
N-Propylbenzene	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
sec-Butylbenzene	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
Styrene	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
tert-Butylbenzene	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1
Tetrachloroethene	ND	vs	5.9		ug/Kg	✱	09/01/22 15:31	09/01/22 23:33	1

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Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SB 8-2-4

Lab Sample ID: 480-201197-3

Date Collected: 08/30/22 14:40

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND	vs	5.9		ug/Kg	☼	09/01/22 15:31	09/01/22 23:33	1
trans-1,2-Dichloroethene	ND	vs	5.9		ug/Kg	☼	09/01/22 15:31	09/01/22 23:33	1
trans-1,3-Dichloropropene	ND	vs	5.9		ug/Kg	☼	09/01/22 15:31	09/01/22 23:33	1
Trichloroethene	ND	vs	5.9		ug/Kg	☼	09/01/22 15:31	09/01/22 23:33	1
Trichlorofluoromethane	ND	vs	5.9		ug/Kg	☼	09/01/22 15:31	09/01/22 23:33	1
Vinyl chloride	ND	vs	5.9		ug/Kg	☼	09/01/22 15:31	09/01/22 23:33	1
Xylenes, Total	ND	vs	12		ug/Kg	☼	09/01/22 15:31	09/01/22 23:33	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			09/01/22 15:31	09/01/22 23:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 126	09/01/22 15:31	09/01/22 23:33	1
4-Bromofluorobenzene (Surr)	91		72 - 126	09/01/22 15:31	09/01/22 23:33	1
Dibromofluoromethane (Surr)	99		60 - 140	09/01/22 15:31	09/01/22 23:33	1
Toluene-d8 (Surr)	116		71 - 125	09/01/22 15:31	09/01/22 23:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
2,4,6-Trichlorophenol	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
2,4-Dichlorophenol	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
2,4-Dimethylphenol	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
2,4-Dinitrophenol	ND		2000		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
2,4-Dinitrotoluene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
2,6-Dinitrotoluene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
2-Chloronaphthalene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
2-Chlorophenol	ND		390		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
2-Methylnaphthalene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
2-Methylphenol	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
2-Nitroaniline	ND		390		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
2-Nitrophenol	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
3,3'-Dichlorobenzidine	ND		390		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
3-Nitroaniline	ND		390		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
4,6-Dinitro-2-methylphenol	ND		390		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
4-Bromophenyl phenyl ether	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
4-Chloro-3-methylphenol	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
4-Chloroaniline	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
4-Chlorophenyl phenyl ether	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
4-Methylphenol	ND		390		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
4-Nitroaniline	ND		390		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
4-Nitrophenol	ND		390		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Acenaphthene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Acenaphthylene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Acetophenone	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Anthracene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Atrazine	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Benzaldehyde	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Benzo[a]anthracene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Benzo[a]pyrene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1

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Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SB 8-2-4

Lab Sample ID: 480-201197-3

Date Collected: 08/30/22 14:40

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Benzo[g,h,i]perylene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Benzo[k]fluoranthene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Biphenyl	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
bis (2-chloroisopropyl) ether	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Bis(2-chloroethoxy)methane	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Bis(2-chloroethyl)ether	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Bis(2-ethylhexyl) phthalate	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Butyl benzyl phthalate	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Caprolactam	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Carbazole	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Chrysene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Dibenz(a,h)anthracene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Dibenzofuran	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Diethyl phthalate	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Dimethyl phthalate	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Di-n-butyl phthalate	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Di-n-octyl phthalate	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Fluoranthene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Fluorene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Hexachlorobenzene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Hexachlorobutadiene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Hexachlorocyclopentadiene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Hexachloroethane	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Indeno[1,2,3-cd]pyrene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Isophorone	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Naphthalene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Nitrobenzene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
N-Nitrosodi-n-propylamine	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
N-Nitrosodiphenylamine	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Pentachlorophenol	ND		390		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Phenanthrene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Phenol	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1
Pyrene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:24	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	2900	T J	ug/Kg	☼	1.69		09/01/22 16:01	09/02/22 20:24	1
Unknown	3800	T J	ug/Kg	☼	1.80		09/01/22 16:01	09/02/22 20:24	1
Unknown	840	T J	ug/Kg	☼	3.06		09/01/22 16:01	09/02/22 20:24	1
9-Octadecenamide, (Z)-	920	T J N	ug/Kg	☼	12.64	301-02-0	09/01/22 16:01	09/02/22 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	107		54 - 120	09/01/22 16:01	09/02/22 20:24	1
2-Fluorobiphenyl	100		60 - 120	09/01/22 16:01	09/02/22 20:24	1
2-Fluorophenol (Surr)	78		52 - 120	09/01/22 16:01	09/02/22 20:24	1
Nitrobenzene-d5 (Surr)	90		53 - 120	09/01/22 16:01	09/02/22 20:24	1
Phenol-d5 (Surr)	78		54 - 120	09/01/22 16:01	09/02/22 20:24	1
p-Terphenyl-d14 (Surr)	85		79 - 130	09/01/22 16:01	09/02/22 20:24	1

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Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SB 8-2-4

Lab Sample ID: 480-201197-3

Date Collected: 08/30/22 14:40

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 83.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20		mg/Kg	✱	09/01/22 16:17	09/05/22 17:50	1
PCB-1221	ND		0.20		mg/Kg	✱	09/01/22 16:17	09/05/22 17:50	1
PCB-1232	ND		0.20		mg/Kg	✱	09/01/22 16:17	09/05/22 17:50	1
PCB-1242	ND		0.20		mg/Kg	✱	09/01/22 16:17	09/05/22 17:50	1
PCB-1248	ND		0.20		mg/Kg	✱	09/01/22 16:17	09/05/22 17:50	1
PCB-1254	ND		0.20		mg/Kg	✱	09/01/22 16:17	09/05/22 17:50	1
PCB-1260	ND		0.20		mg/Kg	✱	09/01/22 16:17	09/05/22 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	126		60 - 154	09/01/22 16:17	09/05/22 17:50	1
Tetrachloro-m-xylene	110		60 - 154	09/01/22 16:17	09/05/22 17:50	1
DCB Decachlorobiphenyl	88		65 - 174	09/01/22 16:17	09/05/22 17:50	1
DCB Decachlorobiphenyl	92		65 - 174	09/01/22 16:17	09/05/22 17:50	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.4		2.4		mg/Kg	✱	09/02/22 11:45	09/06/22 14:32	1
Barium	83.3		0.60		mg/Kg	✱	09/02/22 11:45	09/06/22 14:32	1
Cadmium	0.24		0.24		mg/Kg	✱	09/02/22 11:45	09/06/22 14:32	1
Chromium	15.3		0.60		mg/Kg	✱	09/02/22 11:45	09/06/22 14:32	1
Lead	49.9		1.2		mg/Kg	✱	09/02/22 11:45	09/06/22 14:32	1
Selenium	ND		4.8		mg/Kg	✱	09/02/22 11:45	09/06/22 14:32	1
Silver	ND		0.71		mg/Kg	✱	09/02/22 11:45	09/06/22 14:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.087		0.023		mg/Kg	✱	09/02/22 10:08	09/02/22 13:02	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SBMW9-S-2-3.8

Lab Sample ID: 480-201197-4

Date Collected: 08/30/22 14:30

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
1,1,2,2-Tetrachloroethane	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
1,1,2-Trichloroethane	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
1,1-Dichloroethane	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
1,1-Dichloroethene	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
1,2,4-Trichlorobenzene	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
1,2,4-Trimethylbenzene	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
1,2-Dibromoethane	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
1,2-Dichlorobenzene	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
1,2-Dichloroethane	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
1,2-Dichloropropane	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
1,3,5-Trimethylbenzene	ND	F1 vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
1,3-Dichlorobenzene	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
1,4-Dichlorobenzene	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
2-Butanone (MEK)	ND	F1 vs	28		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
2-Hexanone	ND	vs	28		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
4-Isopropyltoluene	ND	F1 vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
4-Methyl-2-pentanone (MIBK)	ND	vs	28		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
Acetone	ND	F1 vs	28		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
Benzene	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
Bromodichloromethane	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
Bromoform	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
Bromomethane	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
Carbon disulfide	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
Carbon tetrachloride	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
Chlorobenzene	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
Chloroethane	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
Chloroform	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
Chloromethane	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
cis-1,2-Dichloroethene	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
cis-1,3-Dichloropropene	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
Cyclohexane	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
Dibromochloromethane	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
Dichlorodifluoromethane	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
Ethylbenzene	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
Isopropylbenzene	ND	F1 vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
Methyl acetate	ND	vs	28		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
Methyl tert-butyl ether	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
Methylcyclohexane	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
Methylene Chloride	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
Naphthalene	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
n-Butylbenzene	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
N-Propylbenzene	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
sec-Butylbenzene	ND	F1 vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
Styrene	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
tert-Butylbenzene	ND	F1 vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1
Tetrachloroethene	ND	vs	5.5		ug/Kg	✱	09/06/22 17:54	09/06/22 21:31	1

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Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SBMW9-S-2-3.8

Lab Sample ID: 480-201197-4

Date Collected: 08/30/22 14:30

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND	vs	5.5		ug/Kg	☼	09/06/22 17:54	09/06/22 21:31	1
trans-1,2-Dichloroethene	ND	vs	5.5		ug/Kg	☼	09/06/22 17:54	09/06/22 21:31	1
trans-1,3-Dichloropropene	ND	vs	5.5		ug/Kg	☼	09/06/22 17:54	09/06/22 21:31	1
Trichloroethene	ND	vs	5.5		ug/Kg	☼	09/06/22 17:54	09/06/22 21:31	1
Trichlorofluoromethane	ND	vs	5.5		ug/Kg	☼	09/06/22 17:54	09/06/22 21:31	1
Vinyl chloride	ND	vs	5.5		ug/Kg	☼	09/06/22 17:54	09/06/22 21:31	1
Xylenes, Total	ND	vs	11		ug/Kg	☼	09/06/22 17:54	09/06/22 21:31	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			09/06/22 17:54	09/06/22 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 126	09/06/22 17:54	09/06/22 21:31	1
4-Bromofluorobenzene (Surr)	99		72 - 126	09/06/22 17:54	09/06/22 21:31	1
Dibromofluoromethane (Surr)	102		60 - 140	09/06/22 17:54	09/06/22 21:31	1
Toluene-d8 (Surr)	110		71 - 125	09/06/22 17:54	09/06/22 21:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
2,4,6-Trichlorophenol	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
2,4-Dichlorophenol	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
2,4-Dimethylphenol	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
2,4-Dinitrophenol	ND		1800		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
2,4-Dinitrotoluene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
2,6-Dinitrotoluene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
2-Chloronaphthalene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
2-Chlorophenol	ND		360		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
2-Methylnaphthalene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
2-Methylphenol	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
2-Nitroaniline	ND		360		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
2-Nitrophenol	ND	F2	190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
3,3'-Dichlorobenzidine	ND		360		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
3-Nitroaniline	ND		360		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
4,6-Dinitro-2-methylphenol	ND		360		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
4-Bromophenyl phenyl ether	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
4-Chloro-3-methylphenol	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
4-Chloroaniline	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
4-Chlorophenyl phenyl ether	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
4-Methylphenol	ND		360		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
4-Nitroaniline	ND		360		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
4-Nitrophenol	ND		360		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Acenaphthene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Acenaphthylene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Acetophenone	ND	F2	190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Anthracene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Atrazine	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Benzaldehyde	ND	F2	190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Benzo[a]anthracene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Benzo[a]pyrene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1

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Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SBMW9-S-2-3.8

Lab Sample ID: 480-201197-4

Date Collected: 08/30/22 14:30

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Benzo[g,h,i]perylene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Benzo[k]fluoranthene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Biphenyl	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
bis (2-chloroisopropyl) ether	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Bis(2-chloroethoxy)methane	ND	F2	190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Bis(2-chloroethyl)ether	ND	F2	190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Bis(2-ethylhexyl) phthalate	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Butyl benzyl phthalate	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Caprolactam	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Carbazole	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Chrysene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Dibenz(a,h)anthracene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Dibenzofuran	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Diethyl phthalate	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Dimethyl phthalate	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Di-n-butyl phthalate	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Di-n-octyl phthalate	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Fluoranthene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Fluorene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Hexachlorobenzene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Hexachlorobutadiene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Hexachlorocyclopentadiene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Hexachloroethane	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Indeno[1,2,3-cd]pyrene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Isophorone	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Naphthalene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Nitrobenzene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
N-Nitrosodi-n-propylamine	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
N-Nitrosodiphenylamine	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Pentachlorophenol	ND		360		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Phenanthrene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Phenol	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1
Pyrene	ND		190		ug/Kg	☼	09/01/22 16:01	09/02/22 19:11	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	3100	T J	ug/Kg	☼	1.81		09/01/22 16:01	09/02/22 19:11	1
Unknown	380	T J	ug/Kg	☼	3.06		09/01/22 16:01	09/02/22 19:11	1
Cyclohexanone	350	T J N	ug/Kg	☼	3.92	108-94-1	09/01/22 16:01	09/02/22 19:11	1
Butyl citrate	170	T J N	ug/Kg	☼	12.04	77-94-1	09/01/22 16:01	09/02/22 19:11	1
Tritetracontane	270	T J N	ug/Kg	☼	12.97	7098-21-7	09/01/22 16:01	09/02/22 19:11	1
Tetracosane	220	T J N	ug/Kg	☼	13.24	646-31-1	09/01/22 16:01	09/02/22 19:11	1
Ethanol, 2-(octadecyloxy)-	510	T J N	ug/Kg	☼	13.50	2136-72-3	09/01/22 16:01	09/02/22 19:11	1
Pentadecane	240	T J N	ug/Kg	☼	13.75	629-62-9	09/01/22 16:01	09/02/22 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	88		54 - 120	09/01/22 16:01	09/02/22 19:11	1
2-Fluorobiphenyl	63		60 - 120	09/01/22 16:01	09/02/22 19:11	1
2-Fluorophenol (Surr)	48	S1-	52 - 120	09/01/22 16:01	09/02/22 19:11	1
Nitrobenzene-d5 (Surr)	51	S1-	53 - 120	09/01/22 16:01	09/02/22 19:11	1

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Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SBMW9-S-2-3.8

Lab Sample ID: 480-201197-4

Date Collected: 08/30/22 14:30

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 89.2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	51	S1-	54 - 120	09/01/22 16:01	09/02/22 19:11	1
p-Terphenyl-d14 (Surr)	88		79 - 130	09/01/22 16:01	09/02/22 19:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
2,4,6-Trichlorophenol	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
2,4-Dichlorophenol	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
2,4-Dimethylphenol	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
2,4-Dinitrophenol	ND		1800		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
2,4-Dinitrotoluene	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
2,6-Dinitrotoluene	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
2-Chloronaphthalene	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
2-Chlorophenol	ND		360		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
2-Methylnaphthalene	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
2-Methylphenol	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
2-Nitroaniline	ND		360		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
2-Nitrophenol	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
3,3'-Dichlorobenzidine	ND		360		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
3-Nitroaniline	ND		360		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
4,6-Dinitro-2-methylphenol	ND		360		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
4-Bromophenyl phenyl ether	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
4-Chloro-3-methylphenol	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
4-Chloroaniline	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
4-Chlorophenyl phenyl ether	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
4-Methylphenol	ND		360		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
4-Nitroaniline	ND		360		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
4-Nitrophenol	ND		360		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Acenaphthene	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Acenaphthylene	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Acetophenone	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Anthracene	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Atrazine	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Benzaldehyde	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Benzo[a]anthracene	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Benzo[a]pyrene	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Benzo[b]fluoranthene	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Benzo[g,h,i]perylene	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Benzo[k]fluoranthene	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Biphenyl	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
bis (2-chloroisopropyl) ether	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Bis(2-chloroethoxy)methane	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Bis(2-chloroethyl)ether	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Bis(2-ethylhexyl) phthalate	190		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Butyl benzyl phthalate	210		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Caprolactam	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Carbazole	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Chrysene	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Dibenz(a,h)anthracene	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1

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Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SBMW9-S-2-3.8

Lab Sample ID: 480-201197-4

Date Collected: 08/30/22 14:30

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 89.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Diethyl phthalate	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Dimethyl phthalate	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Di-n-butyl phthalate	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Di-n-octyl phthalate	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Fluoranthene	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Fluorene	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Hexachlorobenzene	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Hexachlorobutadiene	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Hexachlorocyclopentadiene	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Hexachloroethane	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Indeno[1,2,3-cd]pyrene	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Isophorone	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Naphthalene	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Nitrobenzene	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
N-Nitrosodi-n-propylamine	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
N-Nitrosodiphenylamine	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Pentachlorophenol	ND		360		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Phenanthrene	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Phenol	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1
Pyrene	ND		190		ug/Kg	✱	09/07/22 15:26	09/08/22 15:10	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	260	T J	ug/Kg	✱	2.22		09/07/22 15:26	09/08/22 15:10	1
Unknown	450	T J	ug/Kg	✱	8.43		09/07/22 15:26	09/08/22 15:10	1
Eicosane, 10-methyl-	190	T J N	ug/Kg	✱	8.53	54833-23-7	09/07/22 15:26	09/08/22 15:10	1
Heptacosane	270	T J N	ug/Kg	✱	9.15	593-49-7	09/07/22 15:26	09/08/22 15:10	1
Pentadecane	460	T J N	ug/Kg	✱	9.49	629-62-9	09/07/22 15:26	09/08/22 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	101		54 - 120	09/07/22 15:26	09/08/22 15:10	1
2-Fluorobiphenyl	53	S1-	60 - 120	09/07/22 15:26	09/08/22 15:10	1
2-Fluorophenol (Surr)	45	S1-	52 - 120	09/07/22 15:26	09/08/22 15:10	1
Nitrobenzene-d5 (Surr)	43	S1-	53 - 120	09/07/22 15:26	09/08/22 15:10	1
Phenol-d5 (Surr)	47	S1-	54 - 120	09/07/22 15:26	09/08/22 15:10	1
p-Terphenyl-d14 (Surr)	100		79 - 130	09/07/22 15:26	09/08/22 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21		mg/Kg	✱	09/01/22 16:17	09/05/22 17:10	1
PCB-1221	ND		0.21		mg/Kg	✱	09/01/22 16:17	09/05/22 17:10	1
PCB-1232	ND		0.21		mg/Kg	✱	09/01/22 16:17	09/05/22 17:10	1
PCB-1242	ND		0.21		mg/Kg	✱	09/01/22 16:17	09/05/22 17:10	1
PCB-1248	ND		0.21		mg/Kg	✱	09/01/22 16:17	09/05/22 17:10	1
PCB-1254	ND		0.21		mg/Kg	✱	09/01/22 16:17	09/05/22 17:10	1
PCB-1260	ND		0.21		mg/Kg	✱	09/01/22 16:17	09/05/22 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	126		60 - 154	09/01/22 16:17	09/05/22 17:10	1
Tetrachloro-m-xylene	105		60 - 154	09/01/22 16:17	09/05/22 17:10	1

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Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SBMW9-S-2-3.8

Lab Sample ID: 480-201197-4

Date Collected: 08/30/22 14:30

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 89.2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	91		65 - 174	09/01/22 16:17	09/05/22 17:10	1
DCB Decachlorobiphenyl	92		65 - 174	09/01/22 16:17	09/05/22 17:10	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.6		2.2		mg/Kg	✱	09/02/22 11:45	09/06/22 14:36	1
Barium	74.3	F1	0.55		mg/Kg	✱	09/02/22 11:45	09/06/22 14:36	1
Cadmium	0.54		0.22		mg/Kg	✱	09/02/22 11:45	09/06/22 14:36	1
Chromium	11.8		0.55		mg/Kg	✱	09/02/22 11:45	09/06/22 14:36	1
Lead	72.2	F1 F2	1.1		mg/Kg	✱	09/02/22 11:45	09/06/22 14:36	1
Selenium	ND		4.4		mg/Kg	✱	09/02/22 11:45	09/06/22 14:36	1
Silver	ND		0.66		mg/Kg	✱	09/02/22 11:45	09/06/22 14:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.023		mg/Kg	✱	09/02/22 10:08	09/02/22 13:04	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-DUP-S

Lab Sample ID: 480-201197-5

Date Collected: 08/30/22 14:55

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
1,1,2,2-Tetrachloroethane	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
1,1,2-Trichloroethane	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
1,1-Dichloroethane	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
1,1-Dichloroethene	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
1,2,4-Trichlorobenzene	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
1,2,4-Trimethylbenzene	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
1,2-Dibromoethane	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
1,2-Dichlorobenzene	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
1,2-Dichloroethane	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
1,2-Dichloropropane	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
1,3,5-Trimethylbenzene	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
1,3-Dichlorobenzene	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
1,4-Dichlorobenzene	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
2-Butanone (MEK)	ND	vs	29		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
2-Hexanone	ND	vs	29		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
4-Isopropyltoluene	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
Acetone	ND	vs	29		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
Benzene	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
Bromodichloromethane	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
Bromoform	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
Bromomethane	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
Carbon disulfide	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
Carbon tetrachloride	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
Chlorobenzene	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
Chloroethane	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
Chloroform	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
Chloromethane	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
cis-1,2-Dichloroethene	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
cis-1,3-Dichloropropene	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
Cyclohexane	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
Dibromochloromethane	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
Dichlorodifluoromethane	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
Ethylbenzene	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
Isopropylbenzene	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
Methyl acetate	ND	vs	29		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
Methyl tert-butyl ether	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
Methylcyclohexane	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
Methylene Chloride	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
Naphthalene	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
n-Butylbenzene	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
N-Propylbenzene	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
sec-Butylbenzene	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
Styrene	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
tert-Butylbenzene	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1
Tetrachloroethene	ND	vs	5.7		ug/Kg	✱	09/01/22 15:31	09/02/22 00:22	1

Eurofins Buffalo

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-DUP-S

Lab Sample ID: 480-201197-5

Date Collected: 08/30/22 14:55

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND	vs	5.7		ug/Kg	☼	09/01/22 15:31	09/02/22 00:22	1
trans-1,2-Dichloroethene	ND	vs	5.7		ug/Kg	☼	09/01/22 15:31	09/02/22 00:22	1
trans-1,3-Dichloropropene	ND	vs	5.7		ug/Kg	☼	09/01/22 15:31	09/02/22 00:22	1
Trichloroethene	ND	vs	5.7		ug/Kg	☼	09/01/22 15:31	09/02/22 00:22	1
Trichlorofluoromethane	ND	vs	5.7		ug/Kg	☼	09/01/22 15:31	09/02/22 00:22	1
Vinyl chloride	ND	vs	5.7		ug/Kg	☼	09/01/22 15:31	09/02/22 00:22	1
Xylenes, Total	ND	vs	11		ug/Kg	☼	09/01/22 15:31	09/02/22 00:22	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			09/01/22 15:31	09/02/22 00:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 126	09/01/22 15:31	09/02/22 00:22	1
4-Bromofluorobenzene (Surr)	94		72 - 126	09/01/22 15:31	09/02/22 00:22	1
Dibromofluoromethane (Surr)	97		60 - 140	09/01/22 15:31	09/02/22 00:22	1
Toluene-d8 (Surr)	112		71 - 125	09/01/22 15:31	09/02/22 00:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
2,4,6-Trichlorophenol	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
2,4-Dichlorophenol	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
2,4-Dimethylphenol	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
2,4-Dinitrophenol	ND		1900		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
2,4-Dinitrotoluene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
2,6-Dinitrotoluene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
2-Chloronaphthalene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
2-Chlorophenol	ND		390		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
2-Methylnaphthalene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
2-Methylphenol	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
2-Nitroaniline	ND		390		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
2-Nitrophenol	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
3,3'-Dichlorobenzidine	ND		390		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
3-Nitroaniline	ND		390		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
4,6-Dinitro-2-methylphenol	ND		390		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
4-Bromophenyl phenyl ether	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
4-Chloro-3-methylphenol	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
4-Chloroaniline	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
4-Chlorophenyl phenyl ether	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
4-Methylphenol	ND		390		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
4-Nitroaniline	ND		390		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
4-Nitrophenol	ND		390		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Acenaphthene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Acenaphthylene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Acetophenone	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Anthracene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Atrazine	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Benzaldehyde	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Benzo[a]anthracene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Benzo[a]pyrene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1

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Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-DUP-S

Lab Sample ID: 480-201197-5

Date Collected: 08/30/22 14:55

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Benzo[g,h,i]perylene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Benzo[k]fluoranthene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Biphenyl	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
bis (2-chloroisopropyl) ether	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Bis(2-chloroethoxy)methane	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Bis(2-chloroethyl)ether	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Bis(2-ethylhexyl) phthalate	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Butyl benzyl phthalate	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Caprolactam	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Carbazole	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Chrysene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Dibenz(a,h)anthracene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Dibenzofuran	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Diethyl phthalate	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Dimethyl phthalate	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Di-n-butyl phthalate	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Di-n-octyl phthalate	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Fluoranthene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Fluorene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Hexachlorobenzene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Hexachlorobutadiene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Hexachlorocyclopentadiene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Hexachloroethane	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Indeno[1,2,3-cd]pyrene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Isophorone	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Naphthalene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Nitrobenzene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
N-Nitrosodi-n-propylamine	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
N-Nitrosodiphenylamine	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Pentachlorophenol	ND		390		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Phenanthrene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Phenol	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1
Pyrene	ND		200		ug/Kg	☼	09/01/22 16:01	09/02/22 20:48	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	3300	T J	ug/Kg	☼	1.71		09/01/22 16:01	09/02/22 20:48	1
Unknown	3800	T J	ug/Kg	☼	1.80		09/01/22 16:01	09/02/22 20:48	1
Unknown	790	T J	ug/Kg	☼	3.06		09/01/22 16:01	09/02/22 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	100		54 - 120	09/01/22 16:01	09/02/22 20:48	1
2-Fluorobiphenyl	95		60 - 120	09/01/22 16:01	09/02/22 20:48	1
2-Fluorophenol (Surr)	76		52 - 120	09/01/22 16:01	09/02/22 20:48	1
Nitrobenzene-d5 (Surr)	86		53 - 120	09/01/22 16:01	09/02/22 20:48	1
Phenol-d5 (Surr)	72		54 - 120	09/01/22 16:01	09/02/22 20:48	1
p-Terphenyl-d14 (Surr)	73	S1-	79 - 130	09/01/22 16:01	09/02/22 20:48	1

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Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-DUP-S

Lab Sample ID: 480-201197-5

Date Collected: 08/30/22 14:55

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22		mg/Kg	✱	09/01/22 16:17	09/05/22 18:04	1
PCB-1221	ND		0.22		mg/Kg	✱	09/01/22 16:17	09/05/22 18:04	1
PCB-1232	ND		0.22		mg/Kg	✱	09/01/22 16:17	09/05/22 18:04	1
PCB-1242	ND		0.22		mg/Kg	✱	09/01/22 16:17	09/05/22 18:04	1
PCB-1248	ND		0.22		mg/Kg	✱	09/01/22 16:17	09/05/22 18:04	1
PCB-1254	ND		0.22		mg/Kg	✱	09/01/22 16:17	09/05/22 18:04	1
PCB-1260	ND		0.22		mg/Kg	✱	09/01/22 16:17	09/05/22 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	123		60 - 154	09/01/22 16:17	09/05/22 18:04	1
Tetrachloro-m-xylene	105		60 - 154	09/01/22 16:17	09/05/22 18:04	1
DCB Decachlorobiphenyl	87		65 - 174	09/01/22 16:17	09/05/22 18:04	1
DCB Decachlorobiphenyl	90		65 - 174	09/01/22 16:17	09/05/22 18:04	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.8		2.4		mg/Kg	✱	09/02/22 11:45	09/06/22 15:07	1
Barium	96.9		0.61		mg/Kg	✱	09/02/22 11:45	09/06/22 15:07	1
Cadmium	0.26		0.24		mg/Kg	✱	09/02/22 11:45	09/06/22 15:07	1
Chromium	13.9		0.61		mg/Kg	✱	09/02/22 11:45	09/06/22 15:07	1
Lead	51.7		1.2		mg/Kg	✱	09/02/22 11:45	09/06/22 15:07	1
Selenium	ND		4.9		mg/Kg	✱	09/02/22 11:45	09/06/22 15:07	1
Silver	ND		0.73		mg/Kg	✱	09/02/22 11:45	09/06/22 15:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.096		0.024		mg/Kg	✱	09/02/22 10:08	09/02/22 13:09	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SBMW7-S-0-4

Lab Sample ID: 480-201197-6

Date Collected: 08/30/22 09:30

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 98.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
1,1,2,2-Tetrachloroethane	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
1,1,2-Trichloroethane	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
1,1-Dichloroethane	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
1,1-Dichloroethene	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
1,2,4-Trichlorobenzene	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
1,2,4-Trimethylbenzene	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
1,2-Dibromoethane	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
1,2-Dichlorobenzene	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
1,2-Dichloroethane	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
1,2-Dichloropropane	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
1,3,5-Trimethylbenzene	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
1,3-Dichlorobenzene	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
1,4-Dichlorobenzene	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
2-Butanone (MEK)	ND	vs	25		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
2-Hexanone	ND	vs	25		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
4-Isopropyltoluene	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
4-Methyl-2-pentanone (MIBK)	ND	vs	25		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
Acetone	ND	vs	25		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
Benzene	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
Bromodichloromethane	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
Bromoform	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
Bromomethane	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
Carbon disulfide	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
Carbon tetrachloride	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
Chlorobenzene	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
Chloroethane	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
Chloroform	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
Chloromethane	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
cis-1,2-Dichloroethene	15	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
cis-1,3-Dichloropropene	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
Cyclohexane	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
Dibromochloromethane	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
Dichlorodifluoromethane	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
Ethylbenzene	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
Isopropylbenzene	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
Methyl acetate	ND	vs	25		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
Methyl tert-butyl ether	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
Methylcyclohexane	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
Methylene Chloride	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
Naphthalene	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
n-Butylbenzene	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
N-Propylbenzene	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
sec-Butylbenzene	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
Styrene	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
tert-Butylbenzene	ND	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1
Tetrachloroethene	61	vs	5.1		ug/Kg	✱	09/01/22 15:31	09/02/22 00:46	1

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Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SBMW7-S-0-4

Lab Sample ID: 480-201197-6

Date Collected: 08/30/22 09:30

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 98.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND	vs	5.1		ug/Kg	☼	09/01/22 15:31	09/02/22 00:46	1
trans-1,2-Dichloroethene	ND	vs	5.1		ug/Kg	☼	09/01/22 15:31	09/02/22 00:46	1
trans-1,3-Dichloropropene	ND	vs	5.1		ug/Kg	☼	09/01/22 15:31	09/02/22 00:46	1
Trichloroethene	5.5	vs	5.1		ug/Kg	☼	09/01/22 15:31	09/02/22 00:46	1
Trichlorofluoromethane	ND	vs	5.1		ug/Kg	☼	09/01/22 15:31	09/02/22 00:46	1
Vinyl chloride	ND	vs	5.1		ug/Kg	☼	09/01/22 15:31	09/02/22 00:46	1
Xylenes, Total	ND	vs	10		ug/Kg	☼	09/01/22 15:31	09/02/22 00:46	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg	☼			09/01/22 15:31	09/02/22 00:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 126	09/01/22 15:31	09/02/22 00:46	1
4-Bromofluorobenzene (Surr)	94		72 - 126	09/01/22 15:31	09/02/22 00:46	1
Dibromofluoromethane (Surr)	95		60 - 140	09/01/22 15:31	09/02/22 00:46	1
Toluene-d8 (Surr)	113		71 - 125	09/01/22 15:31	09/02/22 00:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
2,4,6-Trichlorophenol	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
2,4-Dichlorophenol	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
2,4-Dimethylphenol	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
2,4-Dinitrophenol	ND		1700		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
2,4-Dinitrotoluene	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
2,6-Dinitrotoluene	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
2-Chloronaphthalene	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
2-Chlorophenol	ND		330		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
2-Methylnaphthalene	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
2-Methylphenol	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
2-Nitroaniline	ND		330		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
2-Nitrophenol	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
3,3'-Dichlorobenzidine	ND		330		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
3-Nitroaniline	ND		330		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
4,6-Dinitro-2-methylphenol	ND		330		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
4-Bromophenyl phenyl ether	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
4-Chloro-3-methylphenol	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
4-Chloroaniline	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
4-Chlorophenyl phenyl ether	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
4-Methylphenol	ND		330		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
4-Nitroaniline	ND		330		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
4-Nitrophenol	ND		330		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Acenaphthene	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Acenaphthylene	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Acetophenone	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Anthracene	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Atrazine	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Benzaldehyde	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Benzo[a]anthracene	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Benzo[a]pyrene	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1

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Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SBMW7-S-0-4

Lab Sample ID: 480-201197-6

Date Collected: 08/30/22 09:30

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 98.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Benzo[g,h,i]perylene	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Benzo[k]fluoranthene	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Biphenyl	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
bis (2-chloroisopropyl) ether	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Bis(2-chloroethoxy)methane	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Bis(2-chloroethyl)ether	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Bis(2-ethylhexyl) phthalate	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Butyl benzyl phthalate	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Caprolactam	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Carbazole	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Chrysene	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Dibenz(a,h)anthracene	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Dibenzofuran	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Diethyl phthalate	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Dimethyl phthalate	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Di-n-butyl phthalate	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Di-n-octyl phthalate	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Fluoranthene	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Fluorene	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Hexachlorobenzene	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Hexachlorobutadiene	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Hexachlorocyclopentadiene	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Hexachloroethane	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Indeno[1,2,3-cd]pyrene	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Isophorone	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Naphthalene	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Nitrobenzene	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
N-Nitrosodi-n-propylamine	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
N-Nitrosodiphenylamine	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Pentachlorophenol	ND		330		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Phenanthrene	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Phenol	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1
Pyrene	ND		170		ug/Kg	☼	09/01/22 16:01	09/02/22 21:12	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	2600	T J	ug/Kg	☼	1.80		09/01/22 16:01	09/02/22 21:12	1
Unknown	660	T J	ug/Kg	☼	3.07		09/01/22 16:01	09/02/22 21:12	1
Heneicosane	230	T J N	ug/Kg	☼	12.41	629-94-7	09/01/22 16:01	09/02/22 21:12	1
9-Octadecenamide, (Z)-	2300	T J N	ug/Kg	☼	12.62	301-02-0	09/01/22 16:01	09/02/22 21:12	1
Tetracosane	580	T J N	ug/Kg	☼	12.97	646-31-1	09/01/22 16:01	09/02/22 21:12	1
Heptadecane, 9-octyl-	690	T J N	ug/Kg	☼	13.24	7225-64-1	09/01/22 16:01	09/02/22 21:12	1
Tricosane	710	T J N	ug/Kg	☼	13.50	638-67-5	09/01/22 16:01	09/02/22 21:12	1
Heptadecane	390	T J N	ug/Kg	☼	13.75	629-78-7	09/01/22 16:01	09/02/22 21:12	1
Docosane	190	T J N	ug/Kg	☼	14.23	629-97-0	09/01/22 16:01	09/02/22 21:12	1
Octacosane	170	T J N	ug/Kg	☼	14.47	630-02-4	09/01/22 16:01	09/02/22 21:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	117		54 - 120	09/01/22 16:01	09/02/22 21:12	1
2-Fluorobiphenyl	102		60 - 120	09/01/22 16:01	09/02/22 21:12	1

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Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SBMW7-S-0-4

Lab Sample ID: 480-201197-6

Date Collected: 08/30/22 09:30

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 98.3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	83		52 - 120	09/01/22 16:01	09/02/22 21:12	1
Nitrobenzene-d5 (Surr)	94		53 - 120	09/01/22 16:01	09/02/22 21:12	1
Phenol-d5 (Surr)	83		54 - 120	09/01/22 16:01	09/02/22 21:12	1
p-Terphenyl-d14 (Surr)	94		79 - 130	09/01/22 16:01	09/02/22 21:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.19		mg/Kg	✱	09/01/22 16:17	09/05/22 18:17	1
PCB-1221	ND		0.19		mg/Kg	✱	09/01/22 16:17	09/05/22 18:17	1
PCB-1232	ND		0.19		mg/Kg	✱	09/01/22 16:17	09/05/22 18:17	1
PCB-1242	ND		0.19		mg/Kg	✱	09/01/22 16:17	09/05/22 18:17	1
PCB-1248	ND		0.19		mg/Kg	✱	09/01/22 16:17	09/05/22 18:17	1
PCB-1254	ND		0.19		mg/Kg	✱	09/01/22 16:17	09/05/22 18:17	1
PCB-1260	ND		0.19		mg/Kg	✱	09/01/22 16:17	09/05/22 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	126		60 - 154	09/01/22 16:17	09/05/22 18:17	1
Tetrachloro-m-xylene	107		60 - 154	09/01/22 16:17	09/05/22 18:17	1
DCB Decachlorobiphenyl	92		65 - 174	09/01/22 16:17	09/05/22 18:17	1
DCB Decachlorobiphenyl	93		65 - 174	09/01/22 16:17	09/05/22 18:17	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.6		2.1		mg/Kg	✱	09/02/22 11:45	09/06/22 15:11	1
Barium	48.0		0.52		mg/Kg	✱	09/02/22 11:45	09/06/22 15:11	1
Cadmium	ND		0.21		mg/Kg	✱	09/02/22 11:45	09/06/22 15:11	1
Chromium	14.3		0.52		mg/Kg	✱	09/02/22 11:45	09/06/22 15:11	1
Lead	11.3		1.0		mg/Kg	✱	09/02/22 11:45	09/06/22 15:11	1
Selenium	ND		4.1		mg/Kg	✱	09/02/22 11:45	09/06/22 15:11	1
Silver	ND		0.62		mg/Kg	✱	09/02/22 11:45	09/06/22 15:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.019		mg/Kg	✱	09/02/22 10:08	09/02/22 13:13	1

Surrogate Summary

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (64-126)	BFB (72-126)	DBFM (60-140)	TOL (71-125)
480-201197-1	CSL-SBMW5-S-12-16	101	95	95	109
480-201197-2	CSL-SBMW7-S-8-12	101	95	94	111
480-201197-3	CSL-SB 8-2-4	102	91	99	116
480-201197-4	CSL-SBMW9-S-2-3.8	104	99	102	110
480-201197-4 MS	CSL-SBMW9-S-2-3.8	93	94	98	112
480-201197-4 MSD	CSL-SBMW9-S-2-3.8	93	93	98	111
480-201197-5	CSL-DUP-S	102	94	97	112
480-201197-6	CSL-SBMW7-S-0-4	101	94	95	113
LCS 480-640074/1-A	Lab Control Sample	104	96	101	110
LCS 480-640432/1-A	Lab Control Sample	104	97	100	108
MB 480-640074/2-A	Method Blank	102	101	101	109
MB 480-640432/2-A	Method Blank	103	100	101	108

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (54-120)	FBP (60-120)	2FP (52-120)	NBZ (53-120)	PHL (54-120)	TPHd14 (79-130)
480-201197-1	CSL-SBMW5-S-12-16	94	91	81	85	83	100
480-201197-2	CSL-SBMW7-S-8-12	94	93	77	84	80	102
480-201197-3	CSL-SB 8-2-4	107	100	78	90	78	85
480-201197-4	CSL-SBMW9-S-2-3.8	88	63	48 S1-	51 S1-	51 S1-	88
480-201197-4 - RE	CSL-SBMW9-S-2-3.8	101	53 S1-	45 S1-	43 S1-	47 S1-	100
480-201197-4 MS	CSL-SBMW9-S-2-3.8	100	83	60	69	63	95
480-201197-4 MS - RE	CSL-SBMW9-S-2-3.8	92	68	58	56	61	88
480-201197-4 MSD	CSL-SBMW9-S-2-3.8	98	73	45 S1-	53	51 S1-	91
480-201197-4 MSD - RE	CSL-SBMW9-S-2-3.8	95	72	68	67	70	90
480-201197-5	CSL-DUP-S	100	95	76	86	72	73 S1-
480-201197-6	CSL-SBMW7-S-0-4	117	102	83	94	83	94
LCS 480-640086/2-A	Lab Control Sample	100	83	70	77	76	95
LCS 480-640569/2-A	Lab Control Sample	96	84	85	81	85	91
MB 480-640086/1-A	Method Blank	85	82	73	78	75	93
MB 480-640569/1-A	Method Blank	75	86	86	82	84	91

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

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Surrogate Summary

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (60-154)	TCX2 (60-154)	DCBP1 (65-174)	DCBP2 (65-174)
480-201197-1	CSL-SBMW5-S-12-16	114	131	97	95
480-201197-2	CSL-SBMW7-S-8-12	111	127	90	90
480-201197-3	CSL-SB 8-2-4	110	126	92	88
480-201197-4	CSL-SBMW9-S-2-3.8	105	126	92	91
480-201197-4 MS	CSL-SBMW9-S-2-3.8	116	135	99	97
480-201197-4 MSD	CSL-SBMW9-S-2-3.8	113	138	98	97
480-201197-5	CSL-DUP-S	105	123	90	87
480-201197-6	CSL-SBMW7-S-0-4	107	126	93	92
LCS 480-640092/2-A	Lab Control Sample	131	150	106	104
MB 480-640092/1-A	Method Blank	112	129	86	88

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Lab Sample ID: MB 480-640074/2-A

Matrix: Solid

Analysis Batch: 640043

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 640074

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
1,1-Dichloroethane	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
1,1-Dichloroethene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
1,2-Dibromoethane	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
1,2-Dichloroethane	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
1,2-Dichloropropane	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
2-Butanone (MEK)	ND		25		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
2-Hexanone	ND		25		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
4-Isopropyltoluene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
4-Methyl-2-pentanone (MIBK)	ND		25		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Acetone	ND		25		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Benzene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Bromodichloromethane	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Bromoform	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Bromomethane	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Carbon disulfide	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Carbon tetrachloride	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Chlorobenzene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Chloroethane	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Chloroform	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Chloromethane	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Cyclohexane	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Dibromochloromethane	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Dichlorodifluoromethane	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Ethylbenzene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Isopropylbenzene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Methyl acetate	ND		25		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Methyl tert-butyl ether	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Methylcyclohexane	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Methylene Chloride	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Naphthalene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
n-Butylbenzene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
N-Propylbenzene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
sec-Butylbenzene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Styrene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
tert-Butylbenzene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1

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QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Lab Sample ID: MB 480-640074/2-A

Matrix: Solid

Analysis Batch: 640043

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 640074

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Toluene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Trichloroethene	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Trichlorofluoromethane	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Vinyl chloride	ND		5.0		ug/Kg		09/01/22 15:31	09/01/22 16:41	1
Xylenes, Total	ND		10		ug/Kg		09/01/22 15:31	09/01/22 16:41	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg				09/01/22 15:31	09/01/22 16:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 126	09/01/22 15:31	09/01/22 16:41	1
4-Bromofluorobenzene (Surr)	101		72 - 126	09/01/22 15:31	09/01/22 16:41	1
Dibromofluoromethane (Surr)	101		60 - 140	09/01/22 15:31	09/01/22 16:41	1
Toluene-d8 (Surr)	109		71 - 125	09/01/22 15:31	09/01/22 16:41	1

Lab Sample ID: LCS 480-640074/1-A

Matrix: Solid

Analysis Batch: 640043

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 640074

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	50.3		ug/Kg		101	77 - 121
1,1,2,2-Tetrachloroethane	50.0	51.3		ug/Kg		103	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.8		ug/Kg		106	60 - 140
1,1,2-Trichloroethane	50.0	47.5		ug/Kg		95	78 - 122
1,1-Dichloroethane	50.0	49.3		ug/Kg		99	73 - 126
1,1-Dichloroethene	50.0	50.7		ug/Kg		101	59 - 125
1,2,4-Trichlorobenzene	50.0	52.7		ug/Kg		105	64 - 120
1,2,4-Trimethylbenzene	50.0	55.5		ug/Kg		111	74 - 120
1,2-Dibromo-3-Chloropropane	50.0	50.3		ug/Kg		101	63 - 124
1,2-Dibromoethane	50.0	47.3		ug/Kg		95	78 - 120
1,2-Dichlorobenzene	50.0	50.8		ug/Kg		102	75 - 120
1,2-Dichloroethane	50.0	45.2		ug/Kg		90	77 - 122
1,2-Dichloropropane	50.0	46.1		ug/Kg		92	75 - 124
1,3,5-Trimethylbenzene	50.0	55.6		ug/Kg		111	74 - 120
1,3-Dichlorobenzene	50.0	52.4		ug/Kg		105	74 - 120
1,4-Dichlorobenzene	50.0	51.2		ug/Kg		102	73 - 120
2-Butanone (MEK)	250	225		ug/Kg		90	70 - 134
2-Hexanone	250	243		ug/Kg		97	59 - 130
4-Isopropyltoluene	50.0	56.1		ug/Kg		112	74 - 120
4-Methyl-2-pentanone (MIBK)	250	252		ug/Kg		101	65 - 133
Acetone	250	206		ug/Kg		82	61 - 137
Benzene	50.0	48.3		ug/Kg		97	79 - 127
Bromodichloromethane	50.0	45.9		ug/Kg		92	80 - 122
Bromoform	50.0	47.9		ug/Kg		96	68 - 126

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QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Lab Sample ID: LCS 480-640074/1-A

Matrix: Solid

Analysis Batch: 640043

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 640074

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	50.0	51.7		ug/Kg		103	37 - 149
Carbon disulfide	50.0	48.1		ug/Kg		96	64 - 131
Carbon tetrachloride	50.0	50.3		ug/Kg		101	75 - 135
Chlorobenzene	50.0	50.8		ug/Kg		102	76 - 124
Chloroethane	50.0	51.5		ug/Kg		103	69 - 135
Chloroform	50.0	46.1		ug/Kg		92	80 - 120
Chloromethane	50.0	49.1		ug/Kg		98	63 - 127
cis-1,2-Dichloroethene	50.0	48.0		ug/Kg		96	81 - 120
cis-1,3-Dichloropropene	50.0	45.2		ug/Kg		90	80 - 120
Cyclohexane	50.0	52.7		ug/Kg		105	65 - 120
Dibromochloromethane	50.0	49.2		ug/Kg		98	76 - 125
Dichlorodifluoromethane	50.0	45.3		ug/Kg		91	57 - 142
Ethylbenzene	50.0	53.1		ug/Kg		106	80 - 120
Isopropylbenzene	50.0	57.7		ug/Kg		115	72 - 120
Methyl acetate	100	86.0		ug/Kg		86	55 - 136
Methyl tert-butyl ether	50.0	45.1		ug/Kg		90	63 - 125
Methylcyclohexane	50.0	51.7		ug/Kg		103	60 - 140
Methylene Chloride	50.0	49.2		ug/Kg		98	61 - 127
Naphthalene	50.0	51.7		ug/Kg		103	38 - 137
n-Butylbenzene	50.0	56.2		ug/Kg		112	70 - 120
N-Propylbenzene	50.0	56.8		ug/Kg		114	70 - 130
sec-Butylbenzene	50.0	57.3		ug/Kg		115	74 - 120
Styrene	50.0	49.8		ug/Kg		100	80 - 120
tert-Butylbenzene	50.0	57.9		ug/Kg		116	73 - 120
Tetrachloroethene	50.0	54.3		ug/Kg		109	74 - 122
Toluene	50.0	52.9		ug/Kg		106	74 - 128
trans-1,2-Dichloroethene	50.0	49.9		ug/Kg		100	78 - 126
Trichloroethene	50.0	48.6		ug/Kg		97	77 - 129
Trichlorofluoromethane	50.0	52.3		ug/Kg		105	65 - 146
Vinyl chloride	50.0	51.7		ug/Kg		103	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		64 - 126
4-Bromofluorobenzene (Surr)	96		72 - 126
Dibromofluoromethane (Surr)	101		60 - 140
Toluene-d8 (Surr)	110		71 - 125

Lab Sample ID: MB 480-640432/2-A

Matrix: Solid

Analysis Batch: 640433

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 640432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
1,1-Dichloroethane	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
1,1-Dichloroethene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1

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QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Lab Sample ID: MB 480-640432/2-A

Matrix: Solid

Analysis Batch: 640433

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 640432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
1,2-Dibromoethane	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
1,2-Dichloroethane	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
1,2-Dichloropropane	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
2-Butanone (MEK)	ND		25		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
2-Hexanone	ND		25		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
4-Isopropyltoluene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
4-Methyl-2-pentanone (MIBK)	ND		25		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Acetone	ND		25		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Benzene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Bromodichloromethane	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Bromoform	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Bromomethane	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Carbon disulfide	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Carbon tetrachloride	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Chlorobenzene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Chloroethane	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Chloroform	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Chloromethane	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Cyclohexane	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Dibromochloromethane	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Dichlorodifluoromethane	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Ethylbenzene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Isopropylbenzene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Methyl acetate	ND		25		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Methyl tert-butyl ether	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Methylcyclohexane	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Methylene Chloride	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Naphthalene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
n-Butylbenzene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
N-Propylbenzene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
sec-Butylbenzene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Styrene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
tert-Butylbenzene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Tetrachloroethene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Toluene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Trichloroethene	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Trichlorofluoromethane	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Vinyl chloride	ND		5.0		ug/Kg		09/06/22 17:54	09/06/22 21:07	1

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QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Lab Sample ID: MB 480-640432/2-A

Matrix: Solid

Analysis Batch: 640433

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 640432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		10		ug/Kg		09/06/22 17:54	09/06/22 21:07	1
Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg				09/06/22 17:54	09/06/22 21:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 126				09/06/22 17:54	09/06/22 21:07	1
4-Bromofluorobenzene (Surr)	100		72 - 126				09/06/22 17:54	09/06/22 21:07	1
Dibromofluoromethane (Surr)	101		60 - 140				09/06/22 17:54	09/06/22 21:07	1
Toluene-d8 (Surr)	108		71 - 125				09/06/22 17:54	09/06/22 21:07	1

Lab Sample ID: LCS 480-640432/1-A

Matrix: Solid

Analysis Batch: 640433

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 640432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	41.9		ug/Kg		84	77 - 121
1,1,1,2,2-Tetrachloroethane	50.0	50.3		ug/Kg		101	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	34.6		ug/Kg		69	60 - 140
1,1,2-Trichloroethane	50.0	47.2		ug/Kg		94	78 - 122
1,1-Dichloroethane	50.0	42.7		ug/Kg		85	73 - 126
1,1-Dichloroethene	50.0	39.7		ug/Kg		79	59 - 125
1,2,4-Trichlorobenzene	50.0	48.0		ug/Kg		96	64 - 120
1,2,4-Trimethylbenzene	50.0	48.6		ug/Kg		97	74 - 120
1,2-Dibromo-3-Chloropropane	50.0	52.3		ug/Kg		105	63 - 124
1,2-Dibromoethane	50.0	48.5		ug/Kg		97	78 - 120
1,2-Dichlorobenzene	50.0	47.9		ug/Kg		96	75 - 120
1,2-Dichloroethane	50.0	43.1		ug/Kg		86	77 - 122
1,2-Dichloropropane	50.0	44.2		ug/Kg		88	75 - 124
1,3,5-Trimethylbenzene	50.0	48.4		ug/Kg		97	74 - 120
1,3-Dichlorobenzene	50.0	48.2		ug/Kg		96	74 - 120
1,4-Dichlorobenzene	50.0	48.1		ug/Kg		96	73 - 120
2-Butanone (MEK)	250	230		ug/Kg		92	70 - 134
2-Hexanone	250	246		ug/Kg		98	59 - 130
4-Isopropyltoluene	50.0	47.9		ug/Kg		96	74 - 120
4-Methyl-2-pentanone (MIBK)	250	246		ug/Kg		99	65 - 133
Acetone	250	211		ug/Kg		84	61 - 137
Benzene	50.0	42.8		ug/Kg		86	79 - 127
Bromodichloromethane	50.0	45.0		ug/Kg		90	80 - 122
Bromoform	50.0	53.1		ug/Kg		106	68 - 126
Bromomethane	50.0	45.3		ug/Kg		91	37 - 149
Carbon disulfide	50.0	39.2		ug/Kg		78	64 - 131
Carbon tetrachloride	50.0	42.5		ug/Kg		85	75 - 135
Chlorobenzene	50.0	46.4		ug/Kg		93	76 - 124
Chloroethane	50.0	44.4		ug/Kg		89	69 - 135
Chloroform	50.0	41.5		ug/Kg		83	80 - 120
Chloromethane	50.0	43.1		ug/Kg		86	63 - 127

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QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Lab Sample ID: LCS 480-640432/1-A

Matrix: Solid

Analysis Batch: 640433

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 640432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	50.0	42.3		ug/Kg		85	81 - 120
cis-1,3-Dichloropropene	50.0	44.9		ug/Kg		90	80 - 120
Cyclohexane	50.0	42.0		ug/Kg		84	65 - 120
Dibromochloromethane	50.0	51.1		ug/Kg		102	76 - 125
Dichlorodifluoromethane	50.0	40.3		ug/Kg		81	57 - 142
Ethylbenzene	50.0	46.4		ug/Kg		93	80 - 120
Isopropylbenzene	50.0	48.8		ug/Kg		98	72 - 120
Methyl acetate	100	85.8		ug/Kg		86	55 - 136
Methyl tert-butyl ether	50.0	43.3		ug/Kg		87	63 - 125
Methylcyclohexane	50.0	41.4		ug/Kg		83	60 - 140
Methylene Chloride	50.0	44.6		ug/Kg		89	61 - 127
Naphthalene	50.0	48.4		ug/Kg		97	38 - 137
n-Butylbenzene	50.0	47.9		ug/Kg		96	70 - 120
N-Propylbenzene	50.0	48.5		ug/Kg		97	70 - 130
sec-Butylbenzene	50.0	48.3		ug/Kg		97	74 - 120
Styrene	50.0	46.3		ug/Kg		93	80 - 120
tert-Butylbenzene	50.0	49.2		ug/Kg		98	73 - 120
Tetrachloroethene	50.0	46.2		ug/Kg		92	74 - 122
Toluene	50.0	49.2		ug/Kg		98	74 - 128
trans-1,2-Dichloroethene	50.0	40.7		ug/Kg		81	78 - 126
Trichloroethene	50.0	42.7		ug/Kg		85	77 - 129
Trichlorofluoromethane	50.0	42.7		ug/Kg		85	65 - 146
Vinyl chloride	50.0	43.5		ug/Kg		87	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		64 - 126
4-Bromofluorobenzene (Surr)	97		72 - 126
Dibromofluoromethane (Surr)	100		60 - 140
Toluene-d8 (Surr)	108		71 - 125

Lab Sample ID: 480-201197-4 MS

Matrix: Solid

Analysis Batch: 640433

Client Sample ID: CSL-SBMW9-S-2-3.8

Prep Type: Total/NA

Prep Batch: 640432

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	ND	vs	54.3	56.7	vs	ug/Kg	⊛	104	77 - 121
1,1,2,2-Tetrachloroethane	ND	vs	54.3	46.7	vs	ug/Kg	⊛	86	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	54.3	57.6	vs	ug/Kg	⊛	106	60 - 140
1,1,2-Trichloroethane	ND	vs	54.3	47.7	vs	ug/Kg	⊛	88	78 - 122
1,1-Dichloroethane	ND	vs	54.3	55.2	vs	ug/Kg	⊛	102	73 - 126
1,1-Dichloroethene	ND	vs	54.3	57.5	vs	ug/Kg	⊛	106	59 - 125
1,2,4-Trichlorobenzene	ND	vs	54.3	48.4	vs	ug/Kg	⊛	89	64 - 120
1,2,4-Trimethylbenzene	ND	vs	54.3	64.5	vs	ug/Kg	⊛	119	74 - 120
1,2-Dibromo-3-Chloropropane	ND	vs	54.3	40.8	vs	ug/Kg	⊛	75	63 - 124
1,2-Dibromoethane	ND	vs	54.3	45.4	vs	ug/Kg	⊛	83	78 - 120
1,2-Dichlorobenzene	ND	vs	54.3	54.9	vs	ug/Kg	⊛	101	75 - 120
1,2-Dichloroethane	ND	vs	54.3	44.5	vs	ug/Kg	⊛	82	77 - 122
1,2-Dichloropropane	ND	vs	54.3	51.6	vs	ug/Kg	⊛	95	75 - 124

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QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Lab Sample ID: 480-201197-4 MS

Matrix: Solid

Analysis Batch: 640433

Client Sample ID: CSL-SBMW9-S-2-3.8

Prep Type: Total/NA

Prep Batch: 640432

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,3,5-Trimethylbenzene	ND	F1 vs	54.3	65.5	F1 vs	ug/Kg	✱	121	74 - 120
1,3-Dichlorobenzene	ND	vs	54.3	59.3	vs	ug/Kg	✱	109	74 - 120
1,4-Dichlorobenzene	ND	vs	54.3	57.4	vs	ug/Kg	✱	106	73 - 120
2-Butanone (MEK)	ND	F1 vs	272	166	F1 vs	ug/Kg	✱	61	70 - 134
2-Hexanone	ND	vs	272	189	vs	ug/Kg	✱	70	59 - 130
4-Isopropyltoluene	ND	F1 vs	54.3	65.8	F1 vs	ug/Kg	✱	121	74 - 120
4-Methyl-2-pentanone (MIBK)	ND	vs	272	196	vs	ug/Kg	✱	72	65 - 133
Acetone	ND	F1 vs	272	162	F1 vs	ug/Kg	✱	60	61 - 137
Benzene	ND	vs	54.3	55.0	vs	ug/Kg	✱	101	79 - 127
Bromodichloromethane	ND	vs	54.3	51.0	vs	ug/Kg	✱	94	80 - 122
Bromoform	ND	vs	54.3	46.8	vs	ug/Kg	✱	86	68 - 126
Bromomethane	ND	vs	54.3	63.4	vs	ug/Kg	✱	117	37 - 149
Carbon disulfide	ND	vs	54.3	54.2	vs	ug/Kg	✱	100	64 - 131
Carbon tetrachloride	ND	vs	54.3	58.6	vs	ug/Kg	✱	108	75 - 135
Chlorobenzene	ND	vs	54.3	56.8	vs	ug/Kg	✱	104	76 - 124
Chloroethane	ND	vs	54.3	62.9	vs	ug/Kg	✱	116	69 - 135
Chloroform	ND	vs	54.3	51.5	vs	ug/Kg	✱	95	80 - 120
Chloromethane	ND	vs	54.3	60.0	vs	ug/Kg	✱	110	63 - 127
cis-1,2-Dichloroethene	ND	vs	54.3	53.3	vs	ug/Kg	✱	98	80 - 120
cis-1,3-Dichloropropene	ND	vs	54.3	50.4	vs	ug/Kg	✱	93	80 - 120
Cyclohexane	ND	vs	54.3	58.8	vs	ug/Kg	✱	108	65 - 120
Dibromochloromethane	ND	vs	54.3	52.3	vs	ug/Kg	✱	96	76 - 125
Dichlorodifluoromethane	ND	vs	54.3	62.9	vs	ug/Kg	✱	116	57 - 142
Ethylbenzene	ND	vs	54.3	60.3	vs	ug/Kg	✱	111	80 - 120
Isopropylbenzene	ND	F1 vs	54.3	68.8	F1 vs	ug/Kg	✱	127	72 - 120
Methyl acetate	ND	vs	109	68.8	vs	ug/Kg	✱	63	55 - 136
Methyl tert-butyl ether	ND	vs	54.3	43.3	vs	ug/Kg	✱	80	63 - 125
Methylcyclohexane	ND	vs	54.3	57.2	vs	ug/Kg	✱	105	60 - 140
Methylene Chloride	ND	vs	54.3	52.8	vs	ug/Kg	✱	97	61 - 127
Naphthalene	ND	vs	54.3	40.1	vs	ug/Kg	✱	74	38 - 137
n-Butylbenzene	ND	vs	54.3	62.9	vs	ug/Kg	✱	116	70 - 120
N-Propylbenzene	ND	vs	54.3	66.9	vs	ug/Kg	✱	123	70 - 130
sec-Butylbenzene	ND	F1 vs	54.3	66.7	F1 vs	ug/Kg	✱	123	74 - 120
Styrene	ND	vs	54.3	54.6	vs	ug/Kg	✱	100	80 - 120
tert-Butylbenzene	ND	F1 vs	54.3	68.6	F1 vs	ug/Kg	✱	126	73 - 120
Tetrachloroethene	ND	vs	54.3	61.8	vs	ug/Kg	✱	114	74 - 122
Toluene	ND	vs	54.3	61.0	vs	ug/Kg	✱	109	74 - 128
trans-1,2-Dichloroethene	ND	vs	54.3	56.6	vs	ug/Kg	✱	104	78 - 126
Trichloroethene	ND	vs	54.3	55.5	vs	ug/Kg	✱	102	77 - 129
Trichlorofluoromethane	ND	vs	54.3	63.2	vs	ug/Kg	✱	116	65 - 146
Vinyl chloride	ND	vs	54.3	63.3	vs	ug/Kg	✱	116	61 - 133
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	93		64 - 126						
4-Bromofluorobenzene (Surr)	94		72 - 126						
Dibromofluoromethane (Surr)	98		60 - 140						
Toluene-d8 (Surr)	112		71 - 125						

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QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Lab Sample ID: 480-201197-4 MSD

Matrix: Solid

Analysis Batch: 640433

Client Sample ID: CSL-SBMW9-S-2-3.8

Prep Type: Total/NA

Prep Batch: 640432

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	vs	54.8	55.9	vs	ug/Kg	✱	102	77 - 121	1	30
1,1,2,2-Tetrachloroethane	ND	vs	54.8	47.5	vs	ug/Kg	✱	87	80 - 120	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	54.8	54.3	vs	ug/Kg	✱	99	60 - 140	6	30
1,1,2-Trichloroethane	ND	vs	54.8	49.4	vs	ug/Kg	✱	90	78 - 122	3	30
1,1-Dichloroethane	ND	vs	54.8	53.6	vs	ug/Kg	✱	98	73 - 126	3	30
1,1-Dichloroethene	ND	vs	54.8	55.2	vs	ug/Kg	✱	101	59 - 125	4	30
1,2,4-Trichlorobenzene	ND	vs	54.8	46.1	vs	ug/Kg	✱	84	64 - 120	5	30
1,2,4-Trimethylbenzene	ND	vs	54.8	63.0	vs	ug/Kg	✱	115	74 - 120	2	30
1,2-Dibromo-3-Chloropropane	ND	vs	54.8	41.1	vs	ug/Kg	✱	75	63 - 124	1	30
1,2-Dibromoethane	ND	vs	54.8	45.4	vs	ug/Kg	✱	83	78 - 120	0	30
1,2-Dichlorobenzene	ND	vs	54.8	54.6	vs	ug/Kg	✱	100	75 - 120	1	30
1,2-Dichloroethane	ND	vs	54.8	45.3	vs	ug/Kg	✱	83	77 - 122	2	30
1,2-Dichloropropane	ND	vs	54.8	51.8	vs	ug/Kg	✱	95	75 - 124	0	30
1,3,5-Trimethylbenzene	ND	F1 vs	54.8	64.4	vs	ug/Kg	✱	118	74 - 120	2	30
1,3-Dichlorobenzene	ND	vs	54.8	58.9	vs	ug/Kg	✱	108	74 - 120	1	30
1,4-Dichlorobenzene	ND	vs	54.8	57.2	vs	ug/Kg	✱	104	73 - 120	0	30
2-Butanone (MEK)	ND	F1 vs	274	171	F1 vs	ug/Kg	✱	62	70 - 134	3	30
2-Hexanone	ND	vs	274	195	vs	ug/Kg	✱	71	59 - 130	3	30
4-Isopropyltoluene	ND	F1 vs	54.8	64.3	vs	ug/Kg	✱	117	74 - 120	2	30
4-Methyl-2-pentanone (MIBK)	ND	vs	274	196	vs	ug/Kg	✱	72	65 - 133	0	30
Acetone	ND	F1 vs	274	169	vs	ug/Kg	✱	62	61 - 137	4	30
Benzene	ND	vs	54.8	54.1	vs	ug/Kg	✱	99	79 - 127	2	30
Bromodichloromethane	ND	vs	54.8	51.3	vs	ug/Kg	✱	94	80 - 122	1	30
Bromoform	ND	vs	54.8	48.2	vs	ug/Kg	✱	88	68 - 126	3	30
Bromomethane	ND	vs	54.8	59.3	vs	ug/Kg	✱	108	37 - 149	7	30
Carbon disulfide	ND	vs	54.8	51.7	vs	ug/Kg	✱	94	64 - 131	5	30
Carbon tetrachloride	ND	vs	54.8	57.1	vs	ug/Kg	✱	104	75 - 135	2	30
Chlorobenzene	ND	vs	54.8	55.8	vs	ug/Kg	✱	102	76 - 124	2	30
Chloroethane	ND	vs	54.8	61.2	vs	ug/Kg	✱	112	69 - 135	3	30
Chloroform	ND	vs	54.8	50.6	vs	ug/Kg	✱	92	80 - 120	2	30
Chloromethane	ND	vs	54.8	57.6	vs	ug/Kg	✱	105	63 - 127	4	30
cis-1,2-Dichloroethene	ND	vs	54.8	51.7	vs	ug/Kg	✱	94	80 - 120	3	30
cis-1,3-Dichloropropene	ND	vs	54.8	51.5	vs	ug/Kg	✱	94	80 - 120	2	30
Cyclohexane	ND	vs	54.8	56.5	vs	ug/Kg	✱	103	65 - 120	4	30
Dibromochloromethane	ND	vs	54.8	52.7	vs	ug/Kg	✱	96	76 - 125	1	30
Dichlorodifluoromethane	ND	vs	54.8	58.9	vs	ug/Kg	✱	108	57 - 142	7	30
Ethylbenzene	ND	vs	54.8	58.5	vs	ug/Kg	✱	107	80 - 120	3	30
Isopropylbenzene	ND	F1 vs	54.8	67.3	F1 vs	ug/Kg	✱	123	72 - 120	2	30
Methyl acetate	ND	vs	110	70.7	vs	ug/Kg	✱	65	55 - 136	3	30
Methyl tert-butyl ether	ND	vs	54.8	42.6	vs	ug/Kg	✱	78	63 - 125	2	30
Methylcyclohexane	ND	vs	54.8	55.0	vs	ug/Kg	✱	100	60 - 140	4	30
Methylene Chloride	ND	vs	54.8	51.7	vs	ug/Kg	✱	94	61 - 127	2	30
Naphthalene	ND	vs	54.8	39.3	vs	ug/Kg	✱	72	38 - 137	2	30
n-Butylbenzene	ND	vs	54.8	60.8	vs	ug/Kg	✱	111	70 - 120	4	30
N-Propylbenzene	ND	vs	54.8	65.6	vs	ug/Kg	✱	120	70 - 130	2	30
sec-Butylbenzene	ND	F1 vs	54.8	64.9	vs	ug/Kg	✱	119	74 - 120	3	30
Styrene	ND	vs	54.8	54.1	vs	ug/Kg	✱	99	80 - 120	1	30
tert-Butylbenzene	ND	F1 vs	54.8	66.9	F1 vs	ug/Kg	✱	122	73 - 120	3	30

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QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Lab Sample ID: 480-201197-4 MSD

Matrix: Solid

Analysis Batch: 640433

Client Sample ID: CSL-SBMW9-S-2-3.8

Prep Type: Total/NA

Prep Batch: 640432

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tetrachloroethene	ND	vs	54.8	59.4	vs	ug/Kg	✱	108	74 - 122	4	30
Toluene	ND	vs	54.8	59.7	vs	ug/Kg	✱	106	74 - 128	2	30
trans-1,2-Dichloroethene	ND	vs	54.8	54.1	vs	ug/Kg	✱	99	78 - 126	4	30
Trichloroethene	ND	vs	54.8	55.0	vs	ug/Kg	✱	100	77 - 129	1	30
Trichlorofluoromethane	ND	vs	54.8	61.3	vs	ug/Kg	✱	112	65 - 146	3	30
Vinyl chloride	ND	vs	54.8	59.9	vs	ug/Kg	✱	109	61 - 133	6	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1,2-Dichloroethane-d4 (Surr)	93		64 - 126
4-Bromofluorobenzene (Surr)	93		72 - 126
Dibromofluoromethane (Surr)	98		60 - 140
Toluene-d8 (Surr)	111		71 - 125

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

Lab Sample ID: MB 480-640086/1-A

Matrix: Solid

Analysis Batch: 640194

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 640086

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
2,4,6-Trichlorophenol	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
2,4-Dichlorophenol	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
2,4-Dimethylphenol	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
2,4-Dinitrophenol	ND		1700		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
2,4-Dinitrotoluene	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
2,6-Dinitrotoluene	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
2-Chloronaphthalene	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
2-Chlorophenol	ND		330		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
2-Methylnaphthalene	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
2-Methylphenol	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
2-Nitroaniline	ND		330		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
2-Nitrophenol	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
3,3'-Dichlorobenzidine	ND		330		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
3-Nitroaniline	ND		330		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
4,6-Dinitro-2-methylphenol	ND		330		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
4-Bromophenyl phenyl ether	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
4-Chloro-3-methylphenol	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
4-Chloroaniline	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
4-Chlorophenyl phenyl ether	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
4-Methylphenol	ND		330		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
4-Nitroaniline	ND		330		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
4-Nitrophenol	ND		330		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Acenaphthene	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Acenaphthylene	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Acetophenone	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Anthracene	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Atrazine	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Benzaldehyde	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1

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QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Lab Sample ID: MB 480-640086/1-A

Matrix: Solid

Analysis Batch: 640194

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 640086

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Benzo[a]pyrene	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Benzo[b]fluoranthene	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Benzo[g,h,i]perylene	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Benzo[k]fluoranthene	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Biphenyl	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
bis (2-chloroisopropyl) ether	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Bis(2-chloroethoxy)methane	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Bis(2-chloroethyl)ether	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Bis(2-ethylhexyl) phthalate	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Butyl benzyl phthalate	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Caprolactam	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Carbazole	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Chrysene	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Dibenz(a,h)anthracene	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Dibenzofuran	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Diethyl phthalate	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Dimethyl phthalate	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Di-n-butyl phthalate	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Di-n-octyl phthalate	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Fluoranthene	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Fluorene	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Hexachlorobenzene	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Hexachlorobutadiene	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Hexachlorocyclopentadiene	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Hexachloroethane	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Indeno[1,2,3-cd]pyrene	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Isophorone	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Naphthalene	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Nitrobenzene	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
N-Nitrosodi-n-propylamine	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
N-Nitrosodiphenylamine	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Pentachlorophenol	ND		330		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Phenanthrene	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Phenol	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1
Pyrene	ND		170		ug/Kg		09/01/22 16:01	09/02/22 17:35	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	9020	T J	ug/Kg		1.80		09/01/22 16:01	09/02/22 17:35	1
Unknown	564	T J	ug/Kg		3.05		09/01/22 16:01	09/02/22 17:35	1
Tetracosane	142	T J N	ug/Kg		12.70	646-31-1	09/01/22 16:01	09/02/22 17:35	1
Hexatriacontane	203	T J N	ug/Kg		12.97	630-06-8	09/01/22 16:01	09/02/22 17:35	1
Heneicosane	248	T J N	ug/Kg		13.24	629-94-7	09/01/22 16:01	09/02/22 17:35	1
Heptacosane	242	T J N	ug/Kg		13.50	593-49-7	09/01/22 16:01	09/02/22 17:35	1
Octacosane	175	T J N	ug/Kg		13.75	630-02-4	09/01/22 16:01	09/02/22 17:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		54 - 120	09/01/22 16:01	09/02/22 17:35	1

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QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Lab Sample ID: MB 480-640086/1-A

Matrix: Solid

Analysis Batch: 640194

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 640086

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		60 - 120	09/01/22 16:01	09/02/22 17:35	1
2-Fluorophenol (Surr)	73		52 - 120	09/01/22 16:01	09/02/22 17:35	1
Nitrobenzene-d5 (Surr)	78		53 - 120	09/01/22 16:01	09/02/22 17:35	1
Phenol-d5 (Surr)	75		54 - 120	09/01/22 16:01	09/02/22 17:35	1
p-Terphenyl-d14 (Surr)	93		79 - 130	09/01/22 16:01	09/02/22 17:35	1

Lab Sample ID: LCS 480-640086/2-A

Matrix: Solid

Analysis Batch: 640194

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 640086

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-Trichlorophenol	1630	1560		ug/Kg		95	59 - 126
2,4,6-Trichlorophenol	1630	1550		ug/Kg		95	59 - 123
2,4-Dichlorophenol	1630	1340		ug/Kg		82	61 - 120
2,4-Dimethylphenol	1630	1330		ug/Kg		82	59 - 120
2,4-Dinitrophenol	3270	3290		ug/Kg		101	41 - 146
2,4-Dinitrotoluene	1630	1640		ug/Kg		100	63 - 120
2,6-Dinitrotoluene	1630	1600		ug/Kg		98	66 - 120
2-Chloronaphthalene	1630	1400		ug/Kg		86	57 - 120
2-Chlorophenol	1630	1250		ug/Kg		76	53 - 120
2-Methylnaphthalene	1630	1230		ug/Kg		75	59 - 120
2-Methylphenol	1630	1260		ug/Kg		77	54 - 120
2-Nitroaniline	1630	1590		ug/Kg		98	61 - 120
2-Nitrophenol	1630	1330		ug/Kg		81	56 - 120
3,3'-Dichlorobenzidine	3270	2320		ug/Kg		71	54 - 120
3-Nitroaniline	1630	1200		ug/Kg		73	48 - 120
4,6-Dinitro-2-methylphenol	3270	3200		ug/Kg		98	49 - 122
4-Bromophenyl phenyl ether	1630	1540		ug/Kg		94	58 - 120
4-Chloro-3-methylphenol	1630	1470		ug/Kg		90	61 - 120
4-Chloroaniline	1630	1060		ug/Kg		65	38 - 120
4-Chlorophenyl phenyl ether	1630	1430		ug/Kg		88	63 - 124
4-Methylphenol	1630	1300		ug/Kg		79	55 - 120
4-Nitroaniline	1630	1510		ug/Kg		92	56 - 120
4-Nitrophenol	3270	3390		ug/Kg		104	43 - 147
Acenaphthene	1630	1420		ug/Kg		87	62 - 120
Acenaphthylene	1630	1450		ug/Kg		89	58 - 121
Acetophenone	1630	1240		ug/Kg		76	54 - 120
Anthracene	1630	1580		ug/Kg		96	62 - 120
Atrazine	3270	3020		ug/Kg		92	60 - 127
Benzaldehyde	3270	2220		ug/Kg		68	10 - 150
Benzo[a]anthracene	1630	1480		ug/Kg		91	65 - 120
Benzo[a]pyrene	1630	1560		ug/Kg		96	64 - 120
Benzo[b]fluoranthene	1630	1470		ug/Kg		90	64 - 120
Benzo[g,h,i]perylene	1630	1650		ug/Kg		101	45 - 145
Benzo[k]fluoranthene	1630	1710		ug/Kg		105	65 - 120
Biphenyl	1630	1390		ug/Kg		85	59 - 120
bis (2-chloroisopropyl) ether	1630	1170		ug/Kg		71	44 - 120
Bis(2-chloroethoxy)methane	1630	1260		ug/Kg		77	55 - 120

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QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Lab Sample ID: LCS 480-640086/2-A

Matrix: Solid

Analysis Batch: 640194

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 640086

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-chloroethyl)ether	1630	1190		ug/Kg		73	45 - 120
Bis(2-ethylhexyl) phthalate	1630	1520		ug/Kg		93	61 - 133
Butyl benzyl phthalate	1630	1510		ug/Kg		92	61 - 129
Caprolactam	3270	2980		ug/Kg		91	47 - 120
Carbazole	1630	1630		ug/Kg		100	65 - 120
Chrysene	1630	1500		ug/Kg		92	64 - 120
Dibenz(a,h)anthracene	1630	1660		ug/Kg		102	54 - 132
Dibenzofuran	1630	1420		ug/Kg		87	63 - 120
Diethyl phthalate	1630	1510		ug/Kg		92	66 - 120
Dimethyl phthalate	1630	1490		ug/Kg		91	65 - 124
Di-n-butyl phthalate	1630	1570		ug/Kg		96	58 - 130
Di-n-octyl phthalate	1630	1520		ug/Kg		93	57 - 133
Fluoranthene	1630	1630		ug/Kg		100	62 - 120
Fluorene	1630	1460		ug/Kg		89	63 - 120
Hexachlorobenzene	1630	1560		ug/Kg		96	60 - 120
Hexachlorobutadiene	1630	1240		ug/Kg		76	45 - 120
Hexachlorocyclopentadiene	1630	1170		ug/Kg		72	47 - 120
Hexachloroethane	1630	1060		ug/Kg		65	41 - 120
Indeno[1,2,3-cd]pyrene	1630	1620		ug/Kg		99	56 - 134
Isophorone	1630	1300		ug/Kg		80	56 - 120
Naphthalene	1630	1250		ug/Kg		76	55 - 120
Nitrobenzene	1630	1300		ug/Kg		79	54 - 120
N-Nitrosodi-n-propylamine	1630	1250		ug/Kg		76	52 - 120
Pentachlorophenol	3270	3000		ug/Kg		92	51 - 120
Phenanthrene	1630	1580		ug/Kg		97	60 - 120
Phenol	1630	1270		ug/Kg		78	53 - 120
Pyrene	1630	1580		ug/Kg		97	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	100		54 - 120
2-Fluorobiphenyl	83		60 - 120
2-Fluorophenol (Surr)	70		52 - 120
Nitrobenzene-d5 (Surr)	77		53 - 120
Phenol-d5 (Surr)	76		54 - 120
p-Terphenyl-d14 (Surr)	95		79 - 130

Lab Sample ID: 480-201197-4 MS

Matrix: Solid

Analysis Batch: 640194

Client Sample ID: CSL-SBMW9-S-2-3.8

Prep Type: Total/NA

Prep Batch: 640086

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-Trichlorophenol	ND		1850	1720		ug/Kg	✖	93	46 - 120
2,4,6-Trichlorophenol	ND		1850	1730		ug/Kg	✖	94	41 - 123
2,4-Dichlorophenol	ND		1850	1380		ug/Kg	✖	74	45 - 120
2,4-Dimethylphenol	ND		1850	1340		ug/Kg	✖	72	52 - 120
2,4-Dinitrophenol	ND		3700	2850		ug/Kg	✖	77	41 - 146
2,4-Dinitrotoluene	ND		1850	1560		ug/Kg	✖	84	63 - 125
2,6-Dinitrotoluene	ND		1850	1710		ug/Kg	✖	92	66 - 120

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QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Lab Sample ID: 480-201197-4 MS

Matrix: Solid

Analysis Batch: 640194

Client Sample ID: CSL-SBMW9-S-2-3.8

Prep Type: Total/NA

Prep Batch: 640086

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2-Chloronaphthalene	ND		1850	1610		ug/Kg	✖	87	57 - 120
2-Chlorophenol	ND		1850	1170		ug/Kg	✖	63	43 - 120
2-Methylnaphthalene	ND		1850	1230		ug/Kg	✖	67	55 - 120
2-Methylphenol	ND		1850	1160		ug/Kg	✖	62	48 - 120
2-Nitroaniline	ND		1850	1670		ug/Kg	✖	90	61 - 120
2-Nitrophenol	ND	F2	1850	1380		ug/Kg	✖	74	37 - 120
3,3'-Dichlorobenzidine	ND		3700	3260		ug/Kg	✖	88	37 - 126
3-Nitroaniline	ND		1850	1230		ug/Kg	✖	67	48 - 120
4,6-Dinitro-2-methylphenol	ND		3700	3590		ug/Kg	✖	97	23 - 149
4-Bromophenyl phenyl ether	ND		1850	1820		ug/Kg	✖	99	58 - 120
4-Chloro-3-methylphenol	ND		1850	1420		ug/Kg	✖	77	49 - 125
4-Chloroaniline	ND		1850	866		ug/Kg	✖	47	38 - 120
4-Chlorophenyl phenyl ether	ND		1850	1540		ug/Kg	✖	83	63 - 124
4-Methylphenol	ND		1850	1230		ug/Kg	✖	67	50 - 120
4-Nitroaniline	ND		1850	1330		ug/Kg	✖	72	47 - 120
4-Nitrophenol	ND		3700	3370		ug/Kg	✖	91	31 - 147
Acenaphthene	ND		1850	1560		ug/Kg	✖	85	60 - 120
Acenaphthylene	ND		1850	1560		ug/Kg	✖	85	58 - 121
Acetophenone	ND	F2	1850	1150		ug/Kg	✖	62	47 - 120
Anthracene	ND		1850	1720		ug/Kg	✖	93	62 - 120
Atrazine	ND		3700	2740		ug/Kg	✖	74	60 - 150
Benzaldehyde	ND	F2	3700	2230		ug/Kg	✖	60	10 - 150
Benzo[a]anthracene	ND		1850	1630		ug/Kg	✖	88	65 - 120
Benzo[a]pyrene	ND		1850	1720		ug/Kg	✖	93	64 - 120
Benzo[b]fluoranthene	ND		1850	1580		ug/Kg	✖	85	10 - 150
Benzo[g,h,i]perylene	ND		1850	2130		ug/Kg	✖	115	45 - 145
Benzo[k]fluoranthene	ND		1850	1740		ug/Kg	✖	94	23 - 150
Biphenyl	ND		1850	1570		ug/Kg	✖	85	58 - 120
bis (2-chloroisopropyl) ether	ND		1850	1060		ug/Kg	✖	57	31 - 120
Bis(2-chloroethoxy)methane	ND	F2	1850	1270		ug/Kg	✖	69	52 - 120
Bis(2-chloroethyl)ether	ND	F2	1850	1140		ug/Kg	✖	62	45 - 120
Bis(2-ethylhexyl) phthalate	ND		1850	1640		ug/Kg	✖	89	61 - 133
Butyl benzyl phthalate	ND		1850	1730		ug/Kg	✖	91	61 - 120
Caprolactam	ND		3700	2630		ug/Kg	✖	71	37 - 133
Carbazole	ND		1850	1610		ug/Kg	✖	87	59 - 120
Chrysene	ND		1850	1710		ug/Kg	✖	93	64 - 120
Dibenz(a,h)anthracene	ND		1850	2080		ug/Kg	✖	112	54 - 132
Dibenzofuran	ND		1850	1530		ug/Kg	✖	83	62 - 120
Diethyl phthalate	ND		1850	1500		ug/Kg	✖	81	66 - 120
Dimethyl phthalate	ND		1850	1580		ug/Kg	✖	86	65 - 124
Di-n-butyl phthalate	ND		1850	1600		ug/Kg	✖	86	58 - 130
Di-n-octyl phthalate	ND		1850	1640		ug/Kg	✖	89	57 - 133
Fluoranthene	ND		1850	1580		ug/Kg	✖	83	62 - 120
Fluorene	ND		1850	1500		ug/Kg	✖	81	63 - 120
Hexachlorobenzene	ND		1850	1850		ug/Kg	✖	100	60 - 120
Hexachlorobutadiene	ND		1850	1270		ug/Kg	✖	69	45 - 120
Hexachlorocyclopentadiene	ND		1850	1490		ug/Kg	✖	80	31 - 120
Hexachloroethane	ND		1850	1050		ug/Kg	✖	57	21 - 120
Indeno[1,2,3-cd]pyrene	ND		1850	2080		ug/Kg	✖	112	56 - 134

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QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Lab Sample ID: 480-201197-4 MS

Matrix: Solid

Analysis Batch: 640194

Client Sample ID: CSL-SBMW9-S-2-3.8

Prep Type: Total/NA

Prep Batch: 640086

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Isophorone	ND		1850	1290		ug/Kg	✱	70	56 - 120
Naphthalene	ND		1850	1250		ug/Kg	✱	67	46 - 120
Nitrobenzene	ND		1850	1280		ug/Kg	✱	69	49 - 120
N-Nitrosodi-n-propylamine	ND		1850	1190		ug/Kg	✱	64	46 - 120
Pentachlorophenol	ND		3700	3280		ug/Kg	✱	89	25 - 136
Phenanthrene	ND		1850	1720		ug/Kg	✱	91	60 - 122
Phenol	ND		1850	1190		ug/Kg	✱	64	50 - 120
Pyrene	ND		1850	1780		ug/Kg	✱	94	61 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	100		54 - 120
2-Fluorobiphenyl	83		60 - 120
2-Fluorophenol (Surr)	60		52 - 120
Nitrobenzene-d5 (Surr)	69		53 - 120
Phenol-d5 (Surr)	63		54 - 120
p-Terphenyl-d14 (Surr)	95		79 - 130

Lab Sample ID: 480-201197-4 MSD

Matrix: Solid

Analysis Batch: 640194

Client Sample ID: CSL-SBMW9-S-2-3.8

Prep Type: Total/NA

Prep Batch: 640086

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	ND		1850	1710		ug/Kg	✱	92	46 - 120	1	18
2,4,6-Trichlorophenol	ND		1850	1650		ug/Kg	✱	89	41 - 123	5	19
2,4-Dichlorophenol	ND		1850	1230		ug/Kg	✱	66	45 - 120	11	19
2,4-Dimethylphenol	ND		1850	1180		ug/Kg	✱	64	52 - 120	12	42
2,4-Dinitrophenol	ND		3710	3010		ug/Kg	✱	81	41 - 146	5	22
2,4-Dinitrotoluene	ND		1850	1610		ug/Kg	✱	87	63 - 125	3	20
2,6-Dinitrotoluene	ND		1850	1680		ug/Kg	✱	91	66 - 120	1	15
2-Chloronaphthalene	ND		1850	1400		ug/Kg	✱	75	57 - 120	14	21
2-Chlorophenol	ND		1850	910		ug/Kg	✱	49	43 - 120	25	25
2-Methylnaphthalene	ND		1850	1060		ug/Kg	✱	57	55 - 120	15	21
2-Methylphenol	ND		1850	969		ug/Kg	✱	52	48 - 120	18	27
2-Nitroaniline	ND		1850	1630		ug/Kg	✱	88	61 - 120	2	15
2-Nitrophenol	ND	F2	1850	1090	F2	ug/Kg	✱	59	37 - 120	23	18
3,3'-Dichlorobenzidine	ND		3710	3260		ug/Kg	✱	88	37 - 126	0	25
3-Nitroaniline	ND		1850	1300		ug/Kg	✱	70	48 - 120	5	19
4,6-Dinitro-2-methylphenol	ND		3710	3530		ug/Kg	✱	95	23 - 149	2	15
4-Bromophenyl phenyl ether	ND		1850	1770		ug/Kg	✱	96	58 - 120	3	15
4-Chloro-3-methylphenol	ND		1850	1420		ug/Kg	✱	77	49 - 125	0	27
4-Chloroaniline	ND		1850	889		ug/Kg	✱	48	38 - 120	3	22
4-Chlorophenyl phenyl ether	ND		1850	1480		ug/Kg	✱	80	63 - 124	4	16
4-Methylphenol	ND		1850	1060		ug/Kg	✱	57	50 - 120	15	24
4-Nitroaniline	ND		1850	1330		ug/Kg	✱	72	47 - 120	0	24
4-Nitrophenol	ND		3710	3550		ug/Kg	✱	96	31 - 147	5	25
Acenaphthene	ND		1850	1470		ug/Kg	✱	79	60 - 120	7	35
Acenaphthylene	ND		1850	1480		ug/Kg	✱	80	58 - 121	6	18
Acetophenone	ND	F2	1850	937	F2	ug/Kg	✱	51	47 - 120	21	20

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QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Lab Sample ID: 480-201197-4 MSD

Matrix: Solid

Analysis Batch: 640194

Client Sample ID: CSL-SBMW9-S-2-3.8

Prep Type: Total/NA

Prep Batch: 640086

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Anthracene	ND		1850	1670		ug/Kg	✱	90	62 - 120	3	15
Atrazine	ND		3710	2880		ug/Kg	✱	78	60 - 150	5	20
Benzaldehyde	ND	F2	3710	1710	F2	ug/Kg	✱	46	10 - 150	26	20
Benzo[a]anthracene	ND		1850	1670		ug/Kg	✱	90	65 - 120	2	15
Benzo[a]pyrene	ND		1850	1730		ug/Kg	✱	93	64 - 120	1	15
Benzo[b]fluoranthene	ND		1850	1840		ug/Kg	✱	99	10 - 150	15	15
Benzo[g,h,i]perylene	ND		1850	2040		ug/Kg	✱	110	45 - 145	4	15
Benzo[k]fluoranthene	ND		1850	1570		ug/Kg	✱	85	23 - 150	10	22
Biphenyl	ND		1850	1370		ug/Kg	✱	74	58 - 120	13	20
bis (2-chloroisopropyl) ether	ND		1850	844		ug/Kg	✱	45	31 - 120	22	24
Bis(2-chloroethoxy)methane	ND	F2	1850	1030	F2	ug/Kg	✱	55	52 - 120	21	17
Bis(2-chloroethyl)ether	ND	F2	1850	897	F2	ug/Kg	✱	48	45 - 120	24	21
Bis(2-ethylhexyl) phthalate	ND		1850	1680		ug/Kg	✱	90	61 - 133	2	15
Butyl benzyl phthalate	ND		1850	1750		ug/Kg	✱	92	61 - 120	1	16
Caprolactam	ND		3710	2730		ug/Kg	✱	74	37 - 133	4	20
Carbazole	ND		1850	1610		ug/Kg	✱	87	59 - 120	0	20
Chrysene	ND		1850	1730		ug/Kg	✱	93	64 - 120	1	15
Dibenz(a,h)anthracene	ND		1850	2020		ug/Kg	✱	109	54 - 132	3	15
Dibenzofuran	ND		1850	1470		ug/Kg	✱	79	62 - 120	4	15
Diethyl phthalate	ND		1850	1540		ug/Kg	✱	83	66 - 120	2	15
Dimethyl phthalate	ND		1850	1560		ug/Kg	✱	84	65 - 124	1	15
Di-n-butyl phthalate	ND		1850	1620		ug/Kg	✱	87	58 - 130	2	15
Di-n-octyl phthalate	ND		1850	1700		ug/Kg	✱	92	57 - 133	3	16
Fluoranthene	ND		1850	1630		ug/Kg	✱	86	62 - 120	3	15
Fluorene	ND		1850	1510		ug/Kg	✱	81	63 - 120	1	15
Hexachlorobenzene	ND		1850	1750		ug/Kg	✱	94	60 - 120	5	15
Hexachlorobutadiene	ND		1850	992		ug/Kg	✱	53	45 - 120	25	44
Hexachlorocyclopentadiene	ND		1850	1170		ug/Kg	✱	63	31 - 120	24	49
Hexachloroethane	ND		1850	801		ug/Kg	✱	43	21 - 120	27	46
Indeno[1,2,3-cd]pyrene	ND		1850	2010		ug/Kg	✱	108	56 - 134	4	15
Isophorone	ND		1850	1100		ug/Kg	✱	59	56 - 120	16	17
Naphthalene	ND		1850	1010		ug/Kg	✱	54	46 - 120	21	29
Nitrobenzene	ND		1850	1010		ug/Kg	✱	54	49 - 120	23	24
N-Nitrosodi-n-propylamine	ND		1850	956		ug/Kg	✱	52	46 - 120	21	31
Pentachlorophenol	ND		3710	3380		ug/Kg	✱	91	25 - 136	3	35
Phenanthrene	ND		1850	1740		ug/Kg	✱	92	60 - 122	1	15
Phenol	ND		1850	973		ug/Kg	✱	52	50 - 120	20	35
Pyrene	ND		1850	1790		ug/Kg	✱	95	61 - 133	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	98		54 - 120
2-Fluorobiphenyl	73		60 - 120
2-Fluorophenol (Surr)	45	S1-	52 - 120
Nitrobenzene-d5 (Surr)	53		53 - 120
Phenol-d5 (Surr)	51	S1-	54 - 120
p-Terphenyl-d14 (Surr)	91		79 - 130

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QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Lab Sample ID: MB 480-640569/1-A

Matrix: Solid

Analysis Batch: 640624

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 640569

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
2,4,6-Trichlorophenol	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
2,4-Dichlorophenol	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
2,4-Dimethylphenol	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
2,4-Dinitrophenol	ND		1600		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
2,4-Dinitrotoluene	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
2,6-Dinitrotoluene	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
2-Chloronaphthalene	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
2-Chlorophenol	ND		330		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
2-Methylnaphthalene	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
2-Methylphenol	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
2-Nitroaniline	ND		330		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
2-Nitrophenol	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
3,3'-Dichlorobenzidine	ND		330		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
3-Nitroaniline	ND		330		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
4,6-Dinitro-2-methylphenol	ND		330		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
4-Bromophenyl phenyl ether	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
4-Chloro-3-methylphenol	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
4-Chloroaniline	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
4-Chlorophenyl phenyl ether	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
4-Methylphenol	ND		330		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
4-Nitroaniline	ND		330		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
4-Nitrophenol	ND		330		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Acenaphthene	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Acenaphthylene	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Acetophenone	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Anthracene	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Atrazine	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Benzaldehyde	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Benzo[a]anthracene	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Benzo[a]pyrene	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Benzo[b]fluoranthene	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Benzo[g,h,i]perylene	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Benzo[k]fluoranthene	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Biphenyl	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
bis (2-chloroisopropyl) ether	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Bis(2-chloroethoxy)methane	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Bis(2-chloroethyl)ether	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Bis(2-ethylhexyl) phthalate	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Butyl benzyl phthalate	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Caprolactam	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Carbazole	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Chrysene	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Dibenz(a,h)anthracene	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Dibenzofuran	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Diethyl phthalate	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Dimethyl phthalate	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Di-n-butyl phthalate	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1

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QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Lab Sample ID: MB 480-640569/1-A

Matrix: Solid

Analysis Batch: 640624

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 640569

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Fluoranthene	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Fluorene	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Hexachlorobenzene	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Hexachlorobutadiene	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Hexachlorocyclopentadiene	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Hexachloroethane	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Indeno[1,2,3-cd]pyrene	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Isophorone	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Naphthalene	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Nitrobenzene	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
N-Nitrosodi-n-propylamine	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
N-Nitrosodiphenylamine	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Pentachlorophenol	ND		330		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Phenanthrene	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Phenol	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1
Pyrene	ND		170		ug/Kg		09/07/22 15:26	09/08/22 13:28	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	396	T J	ug/Kg		2.22		09/07/22 15:26	09/08/22 13:28	1
Eicosane, 10-methyl-	142	T J N	ug/Kg		9.15	54833-23-7	09/07/22 15:26	09/08/22 13:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		54 - 120	09/07/22 15:26	09/08/22 13:28	1
2-Fluorobiphenyl	86		60 - 120	09/07/22 15:26	09/08/22 13:28	1
2-Fluorophenol (Surr)	86		52 - 120	09/07/22 15:26	09/08/22 13:28	1
Nitrobenzene-d5 (Surr)	82		53 - 120	09/07/22 15:26	09/08/22 13:28	1
Phenol-d5 (Surr)	84		54 - 120	09/07/22 15:26	09/08/22 13:28	1
p-Terphenyl-d14 (Surr)	91		79 - 130	09/07/22 15:26	09/08/22 13:28	1

Lab Sample ID: LCS 480-640569/2-A

Matrix: Solid

Analysis Batch: 640624

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 640569

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-Trichlorophenol	1630	1570		ug/Kg		96	59 - 126
2,4,6-Trichlorophenol	1630	1500		ug/Kg		92	59 - 123
2,4-Dichlorophenol	1630	1450		ug/Kg		89	61 - 120
2,4-Dimethylphenol	1630	1460		ug/Kg		89	59 - 120
2,4-Dinitrophenol	3260	3360		ug/Kg		103	41 - 146
2,4-Dinitrotoluene	1630	1550		ug/Kg		95	63 - 120
2,6-Dinitrotoluene	1630	1580		ug/Kg		97	66 - 120
2-Chloronaphthalene	1630	1330		ug/Kg		82	57 - 120
2-Chlorophenol	1630	1420		ug/Kg		87	53 - 120
2-Methylnaphthalene	1630	1240		ug/Kg		76	59 - 120
2-Methylphenol	1630	1340		ug/Kg		82	54 - 120
2-Nitroaniline	1630	1460		ug/Kg		90	61 - 120
2-Nitrophenol	1630	1510		ug/Kg		93	56 - 120

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QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Lab Sample ID: LCS 480-640569/2-A

Matrix: Solid

Analysis Batch: 640624

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 640569

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3,3'-Dichlorobenzidine	3260	2860		ug/Kg		88	54 - 120
3-Nitroaniline	1630	1360		ug/Kg		84	48 - 120
4,6-Dinitro-2-methylphenol	3260	3340		ug/Kg		103	49 - 122
4-Bromophenyl phenyl ether	1630	1480		ug/Kg		91	58 - 120
4-Chloro-3-methylphenol	1630	1530		ug/Kg		94	61 - 120
4-Chloroaniline	1630	1180		ug/Kg		73	38 - 120
4-Chlorophenyl phenyl ether	1630	1370		ug/Kg		84	63 - 124
4-Methylphenol	1630	1380		ug/Kg		85	55 - 120
4-Nitroaniline	1630	1490		ug/Kg		91	56 - 120
4-Nitrophenol	3260	2970		ug/Kg		91	43 - 147
Acenaphthene	1630	1360		ug/Kg		84	62 - 120
Acenaphthylene	1630	1420		ug/Kg		87	58 - 121
Acetophenone	1630	1230		ug/Kg		75	54 - 120
Anthracene	1630	1480		ug/Kg		91	62 - 120
Atrazine	3260	3110		ug/Kg		96	60 - 127
Benzaldehyde	3260	2090		ug/Kg		64	10 - 150
Benzo[a]anthracene	1630	1450		ug/Kg		89	65 - 120
Benzo[a]pyrene	1630	1510		ug/Kg		93	64 - 120
Benzo[b]fluoranthene	1630	1540		ug/Kg		95	64 - 120
Benzo[g,h,i]perylene	1630	1240		ug/Kg		76	45 - 145
Benzo[k]fluoranthene	1630	1480		ug/Kg		91	65 - 120
Biphenyl	1630	1350		ug/Kg		83	59 - 120
bis (2-chloroisopropyl) ether	1630	1210		ug/Kg		74	44 - 120
Bis(2-chloroethoxy)methane	1630	1310		ug/Kg		80	55 - 120
Bis(2-chloroethyl)ether	1630	1230		ug/Kg		75	45 - 120
Bis(2-ethylhexyl) phthalate	1630	1570		ug/Kg		96	61 - 133
Butyl benzyl phthalate	1630	1600		ug/Kg		98	61 - 129
Caprolactam	3260	3200		ug/Kg		98	47 - 120
Carbazole	1630	1490		ug/Kg		92	65 - 120
Chrysene	1630	1410		ug/Kg		86	64 - 120
Dibenz(a,h)anthracene	1630	1360		ug/Kg		84	54 - 132
Dibenzofuran	1630	1380		ug/Kg		85	63 - 120
Diethyl phthalate	1630	1550		ug/Kg		95	66 - 120
Dimethyl phthalate	1630	1530		ug/Kg		94	65 - 124
Di-n-butyl phthalate	1630	1650		ug/Kg		101	58 - 130
Di-n-octyl phthalate	1630	1630		ug/Kg		100	57 - 133
Fluoranthene	1630	1530		ug/Kg		94	62 - 120
Fluorene	1630	1420		ug/Kg		87	63 - 120
Hexachlorobenzene	1630	1460		ug/Kg		90	60 - 120
Hexachlorobutadiene	1630	1200		ug/Kg		74	45 - 120
Hexachlorocyclopentadiene	1630	1290		ug/Kg		79	47 - 120
Hexachloroethane	1630	1190		ug/Kg		73	41 - 120
Indeno[1,2,3-cd]pyrene	1630	1250		ug/Kg		77	56 - 134
Isophorone	1630	1290		ug/Kg		79	56 - 120
Naphthalene	1630	1280		ug/Kg		78	55 - 120
Nitrobenzene	1630	1290		ug/Kg		79	54 - 120
N-Nitrosodi-n-propylamine	1630	1220		ug/Kg		75	52 - 120
Pentachlorophenol	3260	2840		ug/Kg		87	51 - 120
Phenanthrene	1630	1450		ug/Kg		89	60 - 120

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QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Lab Sample ID: LCS 480-640569/2-A

Matrix: Solid

Analysis Batch: 640624

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 640569

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenol	1630	1340		ug/Kg		83	53 - 120
Pyrene	1630	1430		ug/Kg		88	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	96		54 - 120
2-Fluorobiphenyl	84		60 - 120
2-Fluorophenol (Surr)	85		52 - 120
Nitrobenzene-d5 (Surr)	81		53 - 120
Phenol-d5 (Surr)	85		54 - 120
p-Terphenyl-d14 (Surr)	91		79 - 130

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

Lab Sample ID: 480-201197-4 MS

Matrix: Solid

Analysis Batch: 640624

Client Sample ID: CSL-SBMW9-S-2-3.8

Prep Type: Total/NA

Prep Batch: 640569

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-Trichlorophenol - RE	ND		1840	1660		ug/Kg	✱	90	46 - 120
2,4,6-Trichlorophenol - RE	ND		1840	1600		ug/Kg	✱	87	41 - 123
2,4-Dichlorophenol - RE	ND		1840	1360		ug/Kg	✱	74	45 - 120
2,4-Dimethylphenol - RE	ND		1840	1330		ug/Kg	✱	72	52 - 120
2,4-Dinitrophenol - RE	ND		3680	3450		ug/Kg	✱	94	41 - 146
2,4-Dinitrotoluene - RE	ND		1840	1700		ug/Kg	✱	87	63 - 125
2,6-Dinitrotoluene - RE	ND		1840	1700		ug/Kg	✱	92	66 - 120
2-Chloronaphthalene - RE	ND		1840	1290		ug/Kg	✱	70	57 - 120
2-Chlorophenol - RE	ND		1840	1140		ug/Kg	✱	62	43 - 120
2-Methylnaphthalene - RE	ND		1840	1130		ug/Kg	✱	62	55 - 120
2-Methylphenol - RE	ND		1840	1140		ug/Kg	✱	62	48 - 120
2-Nitroaniline - RE	ND		1840	1590		ug/Kg	✱	86	61 - 120
2-Nitrophenol - RE	ND		1840	1320		ug/Kg	✱	72	37 - 120
3,3'-Dichlorobenzidine - RE	ND		3680	3310		ug/Kg	✱	90	37 - 126
3-Nitroaniline - RE	ND		1840	1540		ug/Kg	✱	84	48 - 120
4,6-Dinitro-2-methylphenol - RE	ND		3680	3750		ug/Kg	✱	102	23 - 149
4-Bromophenyl phenyl ether - RE	ND		1840	1630		ug/Kg	✱	88	58 - 120
4-Chloro-3-methylphenol - RE	ND		1840	1630		ug/Kg	✱	89	49 - 125
4-Chloroaniline - RE	ND		1840	1170		ug/Kg	✱	64	38 - 120
4-Chlorophenyl phenyl ether - RE	ND		1840	1460		ug/Kg	✱	80	63 - 124
4-Methylphenol - RE	ND		1840	1250		ug/Kg	✱	68	50 - 120
4-Nitroaniline - RE	ND		1840	1620		ug/Kg	✱	88	47 - 120
4-Nitrophenol - RE	ND		3680	3350		ug/Kg	✱	91	31 - 147
Acenaphthene - RE	ND		1840	1410		ug/Kg	✱	77	60 - 120
Acenaphthylene - RE	ND		1840	1460		ug/Kg	✱	80	58 - 121
Acetophenone - RE	ND		1840	1020		ug/Kg	✱	55	47 - 120
Anthracene - RE	ND		1840	1650		ug/Kg	✱	90	62 - 120
Atrazine - RE	ND		3680	3500		ug/Kg	✱	95	60 - 150
Benzaldehyde - RE	ND		3680	1770		ug/Kg	✱	48	10 - 150
Benzo[a]anthracene - RE	ND		1840	1630		ug/Kg	✱	88	65 - 120
Benzo[a]pyrene - RE	ND		1840	1710		ug/Kg	✱	93	64 - 120

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QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Lab Sample ID: 480-201197-4 MS

Matrix: Solid

Analysis Batch: 640624

Client Sample ID: CSL-SBMW9-S-2-3.8

Prep Type: Total/NA

Prep Batch: 640569

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[b]fluoranthene - RE	ND		1840	1700		ug/Kg	✖	91	10 - 150
Benzo[g,h,i]perylene - RE	ND		1840	1420		ug/Kg	✖	75	45 - 145
Benzo[k]fluoranthene - RE	ND		1840	1670		ug/Kg	✖	91	23 - 150
Biphenyl - RE	ND		1840	1320		ug/Kg	✖	72	58 - 120
bis (2-chloroisopropyl) ether - RE	ND		1840	955		ug/Kg	✖	52	31 - 120
Bis(2-chloroethoxy)methane - RE	ND		1840	1100		ug/Kg	✖	60	52 - 120
Bis(2-chloroethyl)ether - RE	ND		1840	952		ug/Kg	✖	52	45 - 120
Bis(2-ethylhexyl) phthalate - RE	190		1840	1850		ug/Kg	✖	91	61 - 133
Butyl benzyl phthalate - RE	210		1840	1900		ug/Kg	✖	92	61 - 120
Caprolactam - RE	ND		3680	3490		ug/Kg	✖	95	37 - 133
Carbazole - RE	ND		1840	1670		ug/Kg	✖	91	59 - 120
Chrysene - RE	ND		1840	1560		ug/Kg	✖	85	64 - 120
Dibenz(a,h)anthracene - RE	ND		1840	1530		ug/Kg	✖	80	54 - 132
Dibenzofuran - RE	ND		1840	1440		ug/Kg	✖	78	62 - 120
Diethyl phthalate - RE	ND		1840	1710		ug/Kg	✖	91	66 - 120
Dimethyl phthalate - RE	ND		1840	1660		ug/Kg	✖	90	65 - 124
Di-n-butyl phthalate - RE	ND		1840	1850		ug/Kg	✖	97	58 - 130
Di-n-octyl phthalate - RE	ND		1840	1930		ug/Kg	✖	105	57 - 133
Fluoranthene - RE	ND		1840	1740		ug/Kg	✖	92	62 - 120
Fluorene - RE	ND		1840	1550		ug/Kg	✖	84	63 - 120
Hexachlorobenzene - RE	ND		1840	1580		ug/Kg	✖	86	60 - 120
Hexachlorobutadiene - RE	ND		1840	939		ug/Kg	✖	51	45 - 120
Hexachlorocyclopentadiene - RE	ND		1840	1110		ug/Kg	✖	60	31 - 120
Hexachloroethane - RE	ND		1840	891		ug/Kg	✖	48	21 - 120
Indeno[1,2,3-cd]pyrene - RE	ND		1840	1440		ug/Kg	✖	74	56 - 134
Isophorone - RE	ND		1840	1150		ug/Kg	✖	63	56 - 120
Naphthalene - RE	ND		1840	1070		ug/Kg	✖	58	46 - 120
Nitrobenzene - RE	ND		1840	1060		ug/Kg	✖	58	49 - 120
N-Nitrosodi-n-propylamine - RE	ND		1840	1020		ug/Kg	✖	55	46 - 120
Pentachlorophenol - RE	ND		3680	3210		ug/Kg	✖	82	25 - 136
Phenanthrene - RE	ND		1840	1610		ug/Kg	✖	86	60 - 122
Phenol - RE	ND		1840	1130		ug/Kg	✖	61	50 - 120
Pyrene - RE	ND		1840	1630		ug/Kg	✖	86	61 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr) - RE	92		54 - 120
2-Fluorobiphenyl - RE	68		60 - 120
2-Fluorophenol (Surr) - RE	58		52 - 120
Nitrobenzene-d5 (Surr) - RE	56		53 - 120
Phenol-d5 (Surr) - RE	61		54 - 120
p-Terphenyl-d14 (Surr) - RE	88		79 - 130

Lab Sample ID: 480-201197-4 MSD

Matrix: Solid

Analysis Batch: 640624

Client Sample ID: CSL-SBMW9-S-2-3.8

Prep Type: Total/NA

Prep Batch: 640569

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-Trichlorophenol - RE	ND		1810	1640		ug/Kg	✖	90	46 - 120	1	18

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QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Lab Sample ID: 480-201197-4 MSD

Matrix: Solid

Analysis Batch: 640624

Client Sample ID: CSL-SBMW9-S-2-3.8

Prep Type: Total/NA

Prep Batch: 640569

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,6-Trichlorophenol - RE	ND		1810	1610		ug/Kg	✖	89	41 - 123	0	19
2,4-Dichlorophenol - RE	ND		1810	1420		ug/Kg	✖	78	45 - 120	4	19
2,4-Dimethylphenol - RE	ND		1810	1400		ug/Kg	✖	77	52 - 120	5	42
2,4-Dinitrophenol - RE	ND		3630	3710		ug/Kg	✖	102	41 - 146	7	22
2,4-Dinitrotoluene - RE	ND		1810	1660		ug/Kg	✖	86	63 - 125	2	20
2,6-Dinitrotoluene - RE	ND		1810	1630		ug/Kg	✖	90	66 - 120	4	15
2-Chloronaphthalene - RE	ND		1810	1340		ug/Kg	✖	74	57 - 120	4	21
2-Chlorophenol - RE	ND		1810	1330		ug/Kg	✖	73	43 - 120	15	25
2-Methylnaphthalene - RE	ND		1810	1240		ug/Kg	✖	68	55 - 120	9	21
2-Methylphenol - RE	ND		1810	1290		ug/Kg	✖	71	48 - 120	13	27
2-Nitroaniline - RE	ND		1810	1520		ug/Kg	✖	84	61 - 120	5	15
2-Nitrophenol - RE	ND		1810	1580		ug/Kg	✖	87	37 - 120	18	18
3,3'-Dichlorobenzidine - RE	ND		3630	3100		ug/Kg	✖	85	37 - 126	7	25
3-Nitroaniline - RE	ND		1810	1470		ug/Kg	✖	81	48 - 120	5	19
4,6-Dinitro-2-methylphenol - RE	ND		3630	3900		ug/Kg	✖	107	23 - 149	4	15
4-Bromophenyl phenyl ether - RE	ND		1810	1570		ug/Kg	✖	87	58 - 120	3	15
4-Chloro-3-methylphenol - RE	ND		1810	1580		ug/Kg	✖	87	49 - 125	3	27
4-Chloroaniline - RE	ND		1810	1100		ug/Kg	✖	60	38 - 120	7	22
4-Chlorophenyl phenyl ether - RE	ND		1810	1430		ug/Kg	✖	79	63 - 124	3	16
4-Methylphenol - RE	ND		1810	1340		ug/Kg	✖	74	50 - 120	7	24
4-Nitroaniline - RE	ND		1810	1530		ug/Kg	✖	84	47 - 120	6	24
4-Nitrophenol - RE	ND		3630	3330		ug/Kg	✖	92	31 - 147	0	25
Acenaphthene - RE	ND		1810	1390		ug/Kg	✖	77	60 - 120	1	35
Acenaphthylene - RE	ND		1810	1440		ug/Kg	✖	80	58 - 121	1	18
Acetophenone - RE	ND		1810	1160		ug/Kg	✖	64	47 - 120	13	20
Anthracene - RE	ND		1810	1630		ug/Kg	✖	90	62 - 120	1	15
Atrazine - RE	ND		3630	3480		ug/Kg	✖	96	60 - 150	1	20
Benzaldehyde - RE	ND		3630	1720		ug/Kg	✖	47	10 - 150	3	20
Benzo[a]anthracene - RE	ND		1810	1650		ug/Kg	✖	90	65 - 120	1	15
Benzo[a]pyrene - RE	ND		1810	1690		ug/Kg	✖	93	64 - 120	1	15
Benzo[b]fluoranthene - RE	ND		1810	1730		ug/Kg	✖	93	10 - 150	2	15
Benzo[g,h,i]perylene - RE	ND		1810	1400		ug/Kg	✖	74	45 - 145	2	15
Benzo[k]fluoranthene - RE	ND		1810	1590		ug/Kg	✖	88	23 - 150	5	22
Biphenyl - RE	ND		1810	1360		ug/Kg	✖	75	58 - 120	3	20
bis (2-chloroisopropyl) ether - RE	ND		1810	1080		ug/Kg	✖	60	31 - 120	12	24
Bis(2-chloroethoxy)methane - RE	ND		1810	1230		ug/Kg	✖	68	52 - 120	11	17
Bis(2-chloroethyl)ether - RE	ND		1810	1070		ug/Kg	✖	59	45 - 120	12	21
Bis(2-ethylhexyl) phthalate - RE	190		1810	1880		ug/Kg	✖	93	61 - 133	1	15
Butyl benzyl phthalate - RE	210		1810	1920		ug/Kg	✖	94	61 - 120	1	16
Caprolactam - RE	ND		3630	3430		ug/Kg	✖	95	37 - 133	2	20
Carbazole - RE	ND		1810	1640		ug/Kg	✖	91	59 - 120	1	20
Chrysene - RE	ND		1810	1580		ug/Kg	✖	87	64 - 120	2	15
Dibenz(a,h)anthracene - RE	ND		1810	1500		ug/Kg	✖	80	54 - 132	2	15
Dibenzofuran - RE	ND		1810	1420		ug/Kg	✖	79	62 - 120	1	15
Diethyl phthalate - RE	ND		1810	1680		ug/Kg	✖	90	66 - 120	2	15
Dimethyl phthalate - RE	ND		1810	1610		ug/Kg	✖	89	65 - 124	3	15
Di-n-butyl phthalate - RE	ND		1810	1870		ug/Kg	✖	99	58 - 130	1	15
Di-n-octyl phthalate - RE	ND		1810	1970		ug/Kg	✖	109	57 - 133	2	16
Fluoranthene - RE	ND		1810	1760		ug/Kg	✖	94	62 - 120	2	15

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QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Lab Sample ID: 480-201197-4 MSD

Matrix: Solid

Analysis Batch: 640624

Client Sample ID: CSL-SBMW9-S-2-3.8

Prep Type: Total/NA

Prep Batch: 640569

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluorene - RE	ND		1810	1510		ug/Kg	✱	83	63 - 120	2	15
Hexachlorobenzene - RE	ND		1810	1580		ug/Kg	✱	87	60 - 120	0	15
Hexachlorobutadiene - RE	ND		1810	1080		ug/Kg	✱	59	45 - 120	14	44
Hexachlorocyclopentadiene - RE	ND		1810	1260		ug/Kg	✱	69	31 - 120	13	49
Hexachloroethane - RE	ND		1810	961		ug/Kg	✱	53	21 - 120	8	46
Indeno[1,2,3-cd]pyrene - RE	ND		1810	1440		ug/Kg	✱	75	56 - 134	0	15
Isophorone - RE	ND		1810	1250		ug/Kg	✱	69	56 - 120	8	17
Naphthalene - RE	ND		1810	1210		ug/Kg	✱	67	46 - 120	12	29
Nitrobenzene - RE	ND		1810	1200		ug/Kg	✱	66	49 - 120	12	24
N-Nitrosodi-n-propylamine - RE	ND		1810	1160		ug/Kg	✱	64	46 - 120	13	31
Pentachlorophenol - RE	ND		3630	3310		ug/Kg	✱	86	25 - 136	3	35
Phenanthrene - RE	ND		1810	1620		ug/Kg	✱	87	60 - 122	1	15
Phenol - RE	ND		1810	1280		ug/Kg	✱	71	50 - 120	13	35
Pyrene - RE	ND		1810	1630		ug/Kg	✱	88	61 - 133	0	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr) - RE	95		54 - 120
2-Fluorobiphenyl - RE	72		60 - 120
2-Fluorophenol (Surr) - RE	68		52 - 120
Nitrobenzene-d5 (Surr) - RE	67		53 - 120
Phenol-d5 (Surr) - RE	70		54 - 120
p-Terphenyl-d14 (Surr) - RE	90		79 - 130

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

Lab Sample ID: MB 480-640092/1-A

Matrix: Solid

Analysis Batch: 640279

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 640092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20		mg/Kg		09/01/22 16:17	09/05/22 16:17	1
PCB-1221	ND		0.20		mg/Kg		09/01/22 16:17	09/05/22 16:17	1
PCB-1232	ND		0.20		mg/Kg		09/01/22 16:17	09/05/22 16:17	1
PCB-1242	ND		0.20		mg/Kg		09/01/22 16:17	09/05/22 16:17	1
PCB-1248	ND		0.20		mg/Kg		09/01/22 16:17	09/05/22 16:17	1
PCB-1254	ND		0.20		mg/Kg		09/01/22 16:17	09/05/22 16:17	1
PCB-1260	ND		0.20		mg/Kg		09/01/22 16:17	09/05/22 16:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	129		60 - 154	09/01/22 16:17	09/05/22 16:17	1
Tetrachloro-m-xylene	112		60 - 154	09/01/22 16:17	09/05/22 16:17	1
DCB Decachlorobiphenyl	88		65 - 174	09/01/22 16:17	09/05/22 16:17	1
DCB Decachlorobiphenyl	86		65 - 174	09/01/22 16:17	09/05/22 16:17	1

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QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Lab Sample ID: LCS 480-640092/2-A
Matrix: Solid
Analysis Batch: 640279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 640092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	1.98	2.67		mg/Kg		134	51 - 185
PCB-1260	1.98	2.33		mg/Kg		117	61 - 184
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Tetrachloro-m-xylene	150		60 - 154				
Tetrachloro-m-xylene	131		60 - 154				
DCB Decachlorobiphenyl	104		65 - 174				
DCB Decachlorobiphenyl	106		65 - 174				

Lab Sample ID: 480-201197-4 MS
Matrix: Solid
Analysis Batch: 640279

Client Sample ID: CSL-SBMW9-S-2-3.8
Prep Type: Total/NA
Prep Batch: 640092

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND		2.13	2.81		mg/Kg	☼	132	50 - 177
PCB-1260	ND		2.13	2.72		mg/Kg	☼	128	33 - 200
Surrogate	MS %Recovery	MS Qualifier	Limits						
Tetrachloro-m-xylene	135		60 - 154						
Tetrachloro-m-xylene	116		60 - 154						
DCB Decachlorobiphenyl	97		65 - 174						
DCB Decachlorobiphenyl	99		65 - 174						

Lab Sample ID: 480-201197-4 MSD
Matrix: Solid
Analysis Batch: 640279

Client Sample ID: CSL-SBMW9-S-2-3.8
Prep Type: Total/NA
Prep Batch: 640092

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	ND		2.26	3.03		mg/Kg	☼	134	50 - 177	7	50
PCB-1260	ND		2.26	2.99		mg/Kg	☼	132	33 - 200	9	50
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Tetrachloro-m-xylene	138		60 - 154								
Tetrachloro-m-xylene	113		60 - 154								
DCB Decachlorobiphenyl	97		65 - 174								
DCB Decachlorobiphenyl	98		65 - 174								

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-640176/1-A
Matrix: Solid
Analysis Batch: 640487

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 640176

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0		mg/Kg		09/02/22 11:45	09/06/22 14:16	1
Barium	ND		0.51		mg/Kg		09/02/22 11:45	09/06/22 14:16	1
Cadmium	ND		0.20		mg/Kg		09/02/22 11:45	09/06/22 14:16	1
Chromium	ND		0.51		mg/Kg		09/02/22 11:45	09/06/22 14:16	1

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QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

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

Lab Sample ID: MB 480-640176/1-A

Matrix: Solid

Analysis Batch: 640487

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 640176

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.0		mg/Kg		09/02/22 11:45	09/06/22 14:16	1
Selenium	ND		4.0		mg/Kg		09/02/22 11:45	09/06/22 14:16	1
Silver	ND		0.61		mg/Kg		09/02/22 11:45	09/06/22 14:16	1

Lab Sample ID: LCSSRM 480-640176/2-A

Matrix: Solid

Analysis Batch: 640487

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 640176

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	84.5	69.46		mg/Kg		82.2	70.1 - 130.2
Barium	249	211.1		mg/Kg		84.8	75.1 - 124.9
Cadmium	99.0	80.47		mg/Kg		81.3	74.9 - 125.3
Chromium	122	102.5		mg/Kg		84.0	70.2 - 130.3
Lead	123	116.6		mg/Kg		94.8	71.8 - 128.5
Selenium	121	97.83		mg/Kg		80.9	66.4 - 133.9
Silver	33.6	36.13		mg/Kg		107.5	68.5 - 131.3

Lab Sample ID: 480-201197-4 MS

Matrix: Solid

Analysis Batch: 640487

Client Sample ID: CSL-SBMW9-S-2-3.8

Prep Type: Total/NA

Prep Batch: 640176

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	4.6		44.7	44.36		mg/Kg	☼	89	75 - 125
Barium	74.3	F1	44.6	138.6	F1	mg/Kg	☼	144	75 - 125
Cadmium	0.54		44.6	38.83		mg/Kg	☼	86	75 - 125
Chromium	11.8		44.6	55.23		mg/Kg	☼	97	75 - 125
Lead	72.2	F1 F2	44.7	142.3	F1	mg/Kg	☼	157	75 - 125
Selenium	ND		44.6	38.49		mg/Kg	☼	86	75 - 125
Silver	ND		11.2	10.64		mg/Kg	☼	95	75 - 125

Lab Sample ID: 480-201197-4 MSD

Matrix: Solid

Analysis Batch: 640487

Client Sample ID: CSL-SBMW9-S-2-3.8

Prep Type: Total/NA

Prep Batch: 640176

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	4.6		46.0	45.42		mg/Kg	☼	89	75 - 125	2	20
Barium	74.3	F1	45.9	135.7	F1	mg/Kg	☼	134	75 - 125	2	20
Cadmium	0.54		45.9	39.92		mg/Kg	☼	86	75 - 125	3	20
Chromium	11.8		45.9	56.67		mg/Kg	☼	98	75 - 125	3	20
Lead	72.2	F1 F2	46.0	101.1	F1 F2	mg/Kg	☼	63	75 - 125	34	20
Selenium	ND		45.9	39.91		mg/Kg	☼	87	75 - 125	4	20
Silver	ND		11.5	11.00		mg/Kg	☼	96	75 - 125	3	20

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QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-640141/1-A

Matrix: Solid

Analysis Batch: 640209

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 640141

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020		mg/Kg		09/02/22 10:08	09/02/22 12:57	1

Lab Sample ID: LCSSRM 480-640141/2-A ^10

Matrix: Solid

Analysis Batch: 640209

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 640141

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	18.9	18.11		mg/Kg		95.8	59.8 - 139. 7

Lab Sample ID: 480-201197-4 MS

Matrix: Solid

Analysis Batch: 640209

Client Sample ID: CSL-SBMW9-S-2-3.8

Prep Type: Total/NA

Prep Batch: 640141

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.13		0.363	0.425		mg/Kg	⚠	81	80 - 120

Lab Sample ID: 480-201197-4 MSD

Matrix: Solid

Analysis Batch: 640209

Client Sample ID: CSL-SBMW9-S-2-3.8

Prep Type: Total/NA

Prep Batch: 640141

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.13		0.358	0.431		mg/Kg	⚠	84	80 - 120	2	20

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

GC/MS VOA

Analysis Batch: 640043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201197-1	CSL-SBMW5-S-12-16	Total/NA	Solid	8260C	640074
480-201197-2	CSL-SBMW7-S-8-12	Total/NA	Solid	8260C	640074
480-201197-3	CSL-SB 8-2-4	Total/NA	Solid	8260C	640074
480-201197-5	CSL-DUP-S	Total/NA	Solid	8260C	640074
480-201197-6	CSL-SBMW7-S-0-4	Total/NA	Solid	8260C	640074
MB 480-640074/2-A	Method Blank	Total/NA	Solid	8260C	640074
LCS 480-640074/1-A	Lab Control Sample	Total/NA	Solid	8260C	640074

Prep Batch: 640074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201197-1	CSL-SBMW5-S-12-16	Total/NA	Solid	5035A_L	
480-201197-2	CSL-SBMW7-S-8-12	Total/NA	Solid	5035A_L	
480-201197-3	CSL-SB 8-2-4	Total/NA	Solid	5035A_L	
480-201197-5	CSL-DUP-S	Total/NA	Solid	5035A_L	
480-201197-6	CSL-SBMW7-S-0-4	Total/NA	Solid	5035A_L	
MB 480-640074/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-640074/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Prep Batch: 640432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201197-4	CSL-SBMW9-S-2-3.8	Total/NA	Solid	5035A_L	
MB 480-640432/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-640432/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-201197-4 MS	CSL-SBMW9-S-2-3.8	Total/NA	Solid	5035A_L	
480-201197-4 MSD	CSL-SBMW9-S-2-3.8	Total/NA	Solid	5035A_L	

Analysis Batch: 640433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201197-4	CSL-SBMW9-S-2-3.8	Total/NA	Solid	8260C	640432
MB 480-640432/2-A	Method Blank	Total/NA	Solid	8260C	640432
LCS 480-640432/1-A	Lab Control Sample	Total/NA	Solid	8260C	640432
480-201197-4 MS	CSL-SBMW9-S-2-3.8	Total/NA	Solid	8260C	640432
480-201197-4 MSD	CSL-SBMW9-S-2-3.8	Total/NA	Solid	8260C	640432

GC/MS Semi VOA

Prep Batch: 640086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201197-1	CSL-SBMW5-S-12-16	Total/NA	Solid	3550C	
480-201197-2	CSL-SBMW7-S-8-12	Total/NA	Solid	3550C	
480-201197-3	CSL-SB 8-2-4	Total/NA	Solid	3550C	
480-201197-4	CSL-SBMW9-S-2-3.8	Total/NA	Solid	3550C	
480-201197-5	CSL-DUP-S	Total/NA	Solid	3550C	
480-201197-6	CSL-SBMW7-S-0-4	Total/NA	Solid	3550C	
MB 480-640086/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-640086/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-201197-4 MS	CSL-SBMW9-S-2-3.8	Total/NA	Solid	3550C	
480-201197-4 MSD	CSL-SBMW9-S-2-3.8	Total/NA	Solid	3550C	

Eurofins Buffalo

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

GC/MS Semi VOA

Analysis Batch: 640194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201197-1	CSL-SBMW5-S-12-16	Total/NA	Solid	8270D	640086
480-201197-2	CSL-SBMW7-S-8-12	Total/NA	Solid	8270D	640086
480-201197-3	CSL-SB 8-2-4	Total/NA	Solid	8270D	640086
480-201197-4	CSL-SBMW9-S-2-3.8	Total/NA	Solid	8270D	640086
480-201197-5	CSL-DUP-S	Total/NA	Solid	8270D	640086
480-201197-6	CSL-SBMW7-S-0-4	Total/NA	Solid	8270D	640086
MB 480-640086/1-A	Method Blank	Total/NA	Solid	8270D	640086
LCS 480-640086/2-A	Lab Control Sample	Total/NA	Solid	8270D	640086
480-201197-4 MS	CSL-SBMW9-S-2-3.8	Total/NA	Solid	8270D	640086
480-201197-4 MSD	CSL-SBMW9-S-2-3.8	Total/NA	Solid	8270D	640086

Prep Batch: 640569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201197-4 - RE	CSL-SBMW9-S-2-3.8	Total/NA	Solid	3550C	
MB 480-640569/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-640569/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-201197-4 MS - RE	CSL-SBMW9-S-2-3.8	Total/NA	Solid	3550C	
480-201197-4 MSD - RE	CSL-SBMW9-S-2-3.8	Total/NA	Solid	3550C	

Analysis Batch: 640624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201197-4 - RE	CSL-SBMW9-S-2-3.8	Total/NA	Solid	8270D	640569
MB 480-640569/1-A	Method Blank	Total/NA	Solid	8270D	640569
LCS 480-640569/2-A	Lab Control Sample	Total/NA	Solid	8270D	640569
480-201197-4 MS - RE	CSL-SBMW9-S-2-3.8	Total/NA	Solid	8270D	640569
480-201197-4 MSD - RE	CSL-SBMW9-S-2-3.8	Total/NA	Solid	8270D	640569

GC Semi VOA

Prep Batch: 640092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201197-1	CSL-SBMW5-S-12-16	Total/NA	Solid	3550C	
480-201197-2	CSL-SBMW7-S-8-12	Total/NA	Solid	3550C	
480-201197-3	CSL-SB 8-2-4	Total/NA	Solid	3550C	
480-201197-4	CSL-SBMW9-S-2-3.8	Total/NA	Solid	3550C	
480-201197-5	CSL-DUP-S	Total/NA	Solid	3550C	
480-201197-6	CSL-SBMW7-S-0-4	Total/NA	Solid	3550C	
MB 480-640092/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-640092/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-201197-4 MS	CSL-SBMW9-S-2-3.8	Total/NA	Solid	3550C	
480-201197-4 MSD	CSL-SBMW9-S-2-3.8	Total/NA	Solid	3550C	

Analysis Batch: 640279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201197-1	CSL-SBMW5-S-12-16	Total/NA	Solid	8082A	640092
480-201197-2	CSL-SBMW7-S-8-12	Total/NA	Solid	8082A	640092
480-201197-3	CSL-SB 8-2-4	Total/NA	Solid	8082A	640092
480-201197-4	CSL-SBMW9-S-2-3.8	Total/NA	Solid	8082A	640092
480-201197-5	CSL-DUP-S	Total/NA	Solid	8082A	640092
480-201197-6	CSL-SBMW7-S-0-4	Total/NA	Solid	8082A	640092
MB 480-640092/1-A	Method Blank	Total/NA	Solid	8082A	640092

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QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

GC Semi VOA (Continued)

Analysis Batch: 640279 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-640092/2-A	Lab Control Sample	Total/NA	Solid	8082A	640092
480-201197-4 MS	CSL-SBMW9-S-2-3.8	Total/NA	Solid	8082A	640092
480-201197-4 MSD	CSL-SBMW9-S-2-3.8	Total/NA	Solid	8082A	640092

Metals

Prep Batch: 640141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201197-1	CSL-SBMW5-S-12-16	Total/NA	Solid	7471B	
480-201197-2	CSL-SBMW7-S-8-12	Total/NA	Solid	7471B	
480-201197-3	CSL-SB 8-2-4	Total/NA	Solid	7471B	
480-201197-4	CSL-SBMW9-S-2-3.8	Total/NA	Solid	7471B	
480-201197-5	CSL-DUP-S	Total/NA	Solid	7471B	
480-201197-6	CSL-SBMW7-S-0-4	Total/NA	Solid	7471B	
MB 480-640141/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-640141/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-201197-4 MS	CSL-SBMW9-S-2-3.8	Total/NA	Solid	7471B	
480-201197-4 MSD	CSL-SBMW9-S-2-3.8	Total/NA	Solid	7471B	

Prep Batch: 640176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201197-1	CSL-SBMW5-S-12-16	Total/NA	Solid	3050B	
480-201197-2	CSL-SBMW7-S-8-12	Total/NA	Solid	3050B	
480-201197-3	CSL-SB 8-2-4	Total/NA	Solid	3050B	
480-201197-4	CSL-SBMW9-S-2-3.8	Total/NA	Solid	3050B	
480-201197-5	CSL-DUP-S	Total/NA	Solid	3050B	
480-201197-6	CSL-SBMW7-S-0-4	Total/NA	Solid	3050B	
MB 480-640176/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-640176/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-201197-4 MS	CSL-SBMW9-S-2-3.8	Total/NA	Solid	3050B	
480-201197-4 MSD	CSL-SBMW9-S-2-3.8	Total/NA	Solid	3050B	

Analysis Batch: 640209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201197-1	CSL-SBMW5-S-12-16	Total/NA	Solid	7471B	640141
480-201197-2	CSL-SBMW7-S-8-12	Total/NA	Solid	7471B	640141
480-201197-3	CSL-SB 8-2-4	Total/NA	Solid	7471B	640141
480-201197-4	CSL-SBMW9-S-2-3.8	Total/NA	Solid	7471B	640141
480-201197-5	CSL-DUP-S	Total/NA	Solid	7471B	640141
480-201197-6	CSL-SBMW7-S-0-4	Total/NA	Solid	7471B	640141
MB 480-640141/1-A	Method Blank	Total/NA	Solid	7471B	640141
LCSSRM 480-640141/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	640141
480-201197-4 MS	CSL-SBMW9-S-2-3.8	Total/NA	Solid	7471B	640141
480-201197-4 MSD	CSL-SBMW9-S-2-3.8	Total/NA	Solid	7471B	640141

Analysis Batch: 640487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201197-1	CSL-SBMW5-S-12-16	Total/NA	Solid	6010C	640176
480-201197-2	CSL-SBMW7-S-8-12	Total/NA	Solid	6010C	640176
480-201197-3	CSL-SB 8-2-4	Total/NA	Solid	6010C	640176
480-201197-4	CSL-SBMW9-S-2-3.8	Total/NA	Solid	6010C	640176

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QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Metals (Continued)

Analysis Batch: 640487 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201197-5	CSL-DUP-S	Total/NA	Solid	6010C	640176
480-201197-6	CSL-SBMW7-S-0-4	Total/NA	Solid	6010C	640176
MB 480-640176/1-A	Method Blank	Total/NA	Solid	6010C	640176
LCSSRM 480-640176/2-A	Lab Control Sample	Total/NA	Solid	6010C	640176
480-201197-4 MS	CSL-SBMW9-S-2-3.8	Total/NA	Solid	6010C	640176
480-201197-4 MSD	CSL-SBMW9-S-2-3.8	Total/NA	Solid	6010C	640176

General Chemistry

Analysis Batch: 640104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201197-1	CSL-SBMW5-S-12-16	Total/NA	Solid	Moisture	
480-201197-2	CSL-SBMW7-S-8-12	Total/NA	Solid	Moisture	
480-201197-3	CSL-SB 8-2-4	Total/NA	Solid	Moisture	
480-201197-4	CSL-SBMW9-S-2-3.8	Total/NA	Solid	Moisture	
480-201197-5	CSL-DUP-S	Total/NA	Solid	Moisture	
480-201197-6	CSL-SBMW7-S-0-4	Total/NA	Solid	Moisture	
480-201197-4 MS	CSL-SBMW9-S-2-3.8	Total/NA	Solid	Moisture	
480-201197-4 MSD	CSL-SBMW9-S-2-3.8	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SBMW5-S-12-16

Lab Sample ID: 480-201197-1

Date Collected: 08/30/22 11:15

Matrix: Solid

Date Received: 09/01/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	640104	DSC	EET BUF	09/01/22 17:28

Client Sample ID: CSL-SBMW5-S-12-16

Lab Sample ID: 480-201197-1

Date Collected: 08/30/22 11:15

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			640074	CDC	EET BUF	09/01/22 15:31
Total/NA	Analysis	8260C		1	640043	CDC	EET BUF	09/01/22 22:45
Total/NA	Prep	3550C			640086	SJM	EET BUF	09/01/22 16:01
Total/NA	Analysis	8270D		1	640194	RJS	EET BUF	09/02/22 19:35
Total/NA	Prep	3550C			640092	SJM	EET BUF	09/01/22 16:17
Total/NA	Analysis	8082A		1	640279	NC	EET BUF	09/05/22 17:24
Total/NA	Prep	3050B			640176	NVK	EET BUF	09/02/22 11:45
Total/NA	Analysis	6010C		1	640487	LMH	EET BUF	09/06/22 14:24
Total/NA	Prep	7471B			640141	NVK	EET BUF	09/02/22 10:08
Total/NA	Analysis	7471B		1	640209	NVK	EET BUF	09/02/22 13:00

Client Sample ID: CSL-SBMW7-S-8-12

Lab Sample ID: 480-201197-2

Date Collected: 08/30/22 09:30

Matrix: Solid

Date Received: 09/01/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	640104	DSC	EET BUF	09/01/22 17:28

Client Sample ID: CSL-SBMW7-S-8-12

Lab Sample ID: 480-201197-2

Date Collected: 08/30/22 09:30

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 74.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			640074	CDC	EET BUF	09/01/22 15:31
Total/NA	Analysis	8260C		1	640043	CDC	EET BUF	09/01/22 23:09
Total/NA	Prep	3550C			640086	SJM	EET BUF	09/01/22 16:01
Total/NA	Analysis	8270D		1	640194	RJS	EET BUF	09/02/22 20:00
Total/NA	Prep	3550C			640092	SJM	EET BUF	09/01/22 16:17
Total/NA	Analysis	8082A		1	640279	NC	EET BUF	09/05/22 17:37
Total/NA	Prep	3050B			640176	NVK	EET BUF	09/02/22 11:45
Total/NA	Analysis	6010C		1	640487	LMH	EET BUF	09/06/22 14:28
Total/NA	Prep	7471B			640141	NVK	EET BUF	09/02/22 10:08
Total/NA	Analysis	7471B		1	640209	NVK	EET BUF	09/02/22 13:01

Eurofins Buffalo

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-SB 8-2-4

Lab Sample ID: 480-201197-3

Date Collected: 08/30/22 14:40

Matrix: Solid

Date Received: 09/01/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	640104	DSC	EET BUF	09/01/22 17:28

Client Sample ID: CSL-SB 8-2-4

Lab Sample ID: 480-201197-3

Date Collected: 08/30/22 14:40

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			640074	CDC	EET BUF	09/01/22 15:31
Total/NA	Analysis	8260C		1	640043	CDC	EET BUF	09/01/22 23:33
Total/NA	Prep	3550C			640086	SJM	EET BUF	09/01/22 16:01
Total/NA	Analysis	8270D		1	640194	RJS	EET BUF	09/02/22 20:24
Total/NA	Prep	3550C			640092	SJM	EET BUF	09/01/22 16:17
Total/NA	Analysis	8082A		1	640279	NC	EET BUF	09/05/22 17:50
Total/NA	Prep	3050B			640176	NVK	EET BUF	09/02/22 11:45
Total/NA	Analysis	6010C		1	640487	LMH	EET BUF	09/06/22 14:32
Total/NA	Prep	7471B			640141	NVK	EET BUF	09/02/22 10:08
Total/NA	Analysis	7471B		1	640209	NVK	EET BUF	09/02/22 13:02

Client Sample ID: CSL-SBMW9-S-2-3.8

Lab Sample ID: 480-201197-4

Date Collected: 08/30/22 14:30

Matrix: Solid

Date Received: 09/01/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	640104	DSC	EET BUF	09/01/22 17:28

Client Sample ID: CSL-SBMW9-S-2-3.8

Lab Sample ID: 480-201197-4

Date Collected: 08/30/22 14:30

Matrix: Solid

Date Received: 09/01/22 10:00

Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			640432	CDC	EET BUF	09/06/22 17:54
Total/NA	Analysis	8260C		1	640433	LCH	EET BUF	09/06/22 21:31
Total/NA	Prep	3550C			640086	SJM	EET BUF	09/01/22 16:01
Total/NA	Analysis	8270D		1	640194	RJS	EET BUF	09/02/22 19:11
Total/NA	Prep	3550C	RE		640569	SJM	EET BUF	09/07/22 15:26
Total/NA	Analysis	8270D	RE	1	640624	JMM	EET BUF	09/08/22 15:10
Total/NA	Prep	3550C			640092	SJM	EET BUF	09/01/22 16:17
Total/NA	Analysis	8082A		1	640279	NC	EET BUF	09/05/22 17:10
Total/NA	Prep	3050B			640176	NVK	EET BUF	09/02/22 11:45
Total/NA	Analysis	6010C		1	640487	LMH	EET BUF	09/06/22 14:36
Total/NA	Prep	7471B			640141	NVK	EET BUF	09/02/22 10:08
Total/NA	Analysis	7471B		1	640209	NVK	EET BUF	09/02/22 13:04

Eurofins Buffalo

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Client Sample ID: CSL-DUP-S

Date Collected: 08/30/22 14:55

Date Received: 09/01/22 10:00

Lab Sample ID: 480-201197-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	640104	DSC	EET BUF	09/01/22 17:28

Client Sample ID: CSL-DUP-S

Date Collected: 08/30/22 14:55

Date Received: 09/01/22 10:00

Lab Sample ID: 480-201197-5

Matrix: Solid

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			640074	CDC	EET BUF	09/01/22 15:31
Total/NA	Analysis	8260C		1	640043	CDC	EET BUF	09/02/22 00:22
Total/NA	Prep	3550C			640086	SJM	EET BUF	09/01/22 16:01
Total/NA	Analysis	8270D		1	640194	RJS	EET BUF	09/02/22 20:48
Total/NA	Prep	3550C			640092	SJM	EET BUF	09/01/22 16:17
Total/NA	Analysis	8082A		1	640279	NC	EET BUF	09/05/22 18:04
Total/NA	Prep	3050B			640176	NVK	EET BUF	09/02/22 11:45
Total/NA	Analysis	6010C		1	640487	LMH	EET BUF	09/06/22 15:07
Total/NA	Prep	7471B			640141	NVK	EET BUF	09/02/22 10:08
Total/NA	Analysis	7471B		1	640209	NVK	EET BUF	09/02/22 13:09

Client Sample ID: CSL-SBMW7-S-0-4

Date Collected: 08/30/22 09:30

Date Received: 09/01/22 10:00

Lab Sample ID: 480-201197-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	640104	DSC	EET BUF	09/01/22 17:28

Client Sample ID: CSL-SBMW7-S-0-4

Date Collected: 08/30/22 09:30

Date Received: 09/01/22 10:00

Lab Sample ID: 480-201197-6

Matrix: Solid

Percent Solids: 98.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			640074	CDC	EET BUF	09/01/22 15:31
Total/NA	Analysis	8260C		1	640043	CDC	EET BUF	09/02/22 00:46
Total/NA	Prep	3550C			640086	SJM	EET BUF	09/01/22 16:01
Total/NA	Analysis	8270D		1	640194	RJS	EET BUF	09/02/22 21:12
Total/NA	Prep	3550C			640092	SJM	EET BUF	09/01/22 16:17
Total/NA	Analysis	8082A		1	640279	NC	EET BUF	09/05/22 18:17
Total/NA	Prep	3050B			640176	NVK	EET BUF	09/02/22 11:45
Total/NA	Analysis	6010C		1	640487	LMH	EET BUF	09/06/22 15:11
Total/NA	Prep	7471B			640141	NVK	EET BUF	09/02/22 10:08
Total/NA	Analysis	7471B		1	640209	NVK	EET BUF	09/02/22 13:13

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Eurofins Buffalo

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET BUF
6010C	Metals (ICP)	SW846	EET BUF
7471B	Mercury (CVAA)	SW846	EET BUF
Moisture	Percent Moisture	EPA	EET BUF
3050B	Preparation, Metals	SW846	EET BUF
3550C	Ultrasonic Extraction	SW846	EET BUF
5035A_L	Closed System Purge and Trap	SW846	EET BUF
7471B	Preparation, Mercury	SW846	EET BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Canal Street, Lyons - Soils

Job ID: 480-201197-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-201197-1	CSL-SBMW5-S-12-16	Solid	08/30/22 11:15	09/01/22 10:00
480-201197-2	CSL-SBMW7-S-8-12	Solid	08/30/22 09:30	09/01/22 10:00
480-201197-3	CSL-SB 8-2-4	Solid	08/30/22 14:40	09/01/22 10:00
480-201197-4	CSL-SBMW9-S-2-3.8	Solid	08/30/22 14:30	09/01/22 10:00
480-201197-5	CSL-DUP-S	Solid	08/30/22 14:55	09/01/22 10:00
480-201197-6	CSL-SBMW7-S-0-4	Solid	08/30/22 09:30	09/01/22 10:00

Amherst, NY 14228-2223
phone 716.691.2600 fax 716.691.7991

Chain of Custody Record



Environment Testing America

Eurofins Environment Testing America

[illegible]

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 480-201197-1

Login Number: 201197

List Number: 1

Creator: Yeager, Brian A

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	STANTEC
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

APPENDIX D – DATA USABILITY SUMMARY REPORT

DATA USABILITY SUMMARY REPORT
PHASE II ENVIRONMENTAL SITE ASSESSMENT
CANAL STREET
LYONS, NEW YORK

This report presents the data validation results of analytical data for samples collected by Stantec on August 30, 2022 for the Phase II Environmental Site Assessment (ESA) performed at 52-54 Canal Street, in Lyons, New York.

Five soil samples, one field duplicate, and one matrix spike/matrix spike duplicate (MS/MSD) sample were collected and submitted for analysis to Eurofins Buffalo in Amherst, New York. The samples were analyzed for the following:

- Volatile organic compounds (VOCs) in accordance with United States Environmental Protection Agency (EPA) Method SW8260C
- Semivolatile organic compounds (SVOCs) by EPA Method SW8270D
- Polychlorinated biphenyls (PCBs) by EPA Method SW8082A
- Metals by EPA Methods SW6010D/7471B

The analytical data were reviewed based on the results of the data evaluation parameters and/or the QC sample results provided by the laboratory against the EPA National Functional Guidelines for Inorganic and Organic Data Review (January 2017) and laboratory acceptance criteria. The data quality evaluation is presented in terms of precision, accuracy, representativeness, comparability and completeness.

Based on this data validation, all data were found to be usable as qualified.

SUMMARY OF DATA VALIDATION

The following sections summarize the procedures and results for evaluating the supporting documentation and analytical data associated with sample delivery group (SDG) 480-201197-1.

1.0 DATA QUALITY EVALUATION

The precision, accuracy, representativeness, comparability, and completeness of the analytical data were verified and qualified based on the case narrative provided in the SDG.

- Laboratory case narrative
- Holding time
- Blank results (method, trip, equipment rinse)
- Field duplicate relative percent differences (RPDs)
- Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recoveries and RPDs
- MS/MSD recoveries and RPDs
- Surrogate recoveries
- Laboratory detection limits

1.1 Precision

Precision evaluates the reproducibility of measurements under a given set of conditions. Laboratory precision was evaluated using RPD calculated between the MS/MSD samples, LCS/LCSD samples, and laboratory duplicates. All laboratory precision criteria were met with the following exceptions:

- The sample CSL-SBMW9-S-2-3.8 was analyzed as an MS/MSD for all analyses. MS/MSD RPDs exceeded the control limits for the following SVOCs analytes: 2-nitrophenol (23%), acetophenone (21%), benzaldehyde (26%),

bis(2--chloroethoxy)methane (21%), and bis(2-chloroethyl)ether (24%) in parent sample CSL-SBMW9-S-2-3.8. These SVOCs were non-detect in the parent sample; no data were qualified.

- For metals analysis, the MS/MSD RPD exceeded the control limit for lead (34%). Lead was detected in the parent sample CSL-SBMW9-S-2-3.8 and was qualified as estimated (J).

1.2 Accuracy

Accuracy is the measure of the bias of a method or the level of agreement between a measurement and a known true value. Accuracy is evaluated by percent recovery. Laboratory accuracy was evaluated (as applicable) using laboratory quality control samples and surrogate recoveries. LCS/LCSD, MS/MSD and surrogate recoveries were acceptable except for the following issues:

- SVOC surrogate percent recoveries in the sample CSL-SBMW9-S-2-3.8 were below the lower acceptance limits for 2-fluorophenol (48%), nitrobenzene-d5 (51%), and phenol-d5 (51%). The sample was re-extracted and re-analyzed, with similar surrogate recoveries (2-fluorophenol=53%, Nitrobenzene-d5=43%, phenol-d5=47%, and 2-fluorobiphenyl=45%). All results were non-detect in the initial analysis. Since two acid surrogates were below control limits in the initial analysis, 14 phenolic compounds associated with those surrogates were qualified as estimated (UJ). In the re-analysis, two base/neutral and two acid surrogate recoveries were below control limits. Bis(2-ethylhexyl)phthalate and butyl benzyl phthalate, common laboratory contaminants, were detected in the re-analysis; results for these analytes were qualified as estimated (J). All other results were non-detect and qualified as estimated (UJ). Based on professional judgement, the results from the initial analysis were selected to be used for reporting purposes.
- The SVOC surrogate percent recovery for p-Terphenyl-d14 was below the lower acceptance limit in sample CSL-DUP-S (73%). Since only one surrogate recovery was outside acceptance limits, no re-extraction was required and no data were qualified.
- MS and/or MSD percent recoveries were below the lower acceptance limit in sample CSL-SBMW9-S-2-3.8 for the VOCs 2-butanone (MS=61%, MSD=62%) and acetone (MS=60%). These VOCs were not detected in the parent sample and were qualified as estimated non-detects (UJ). MS and/or MSD percent recoveries exceeded the upper acceptance limits in sample CSL-SBMW9-S-2-3.8 for the following VOCs: 1,3,5-trimethylbenzene (MS=121%); isopropylbenzene (MS=127%, MSD=123%); 4-isopropyltoluene (MS=121%); sec-butylbenzene (MS=123%); and tert-butylbenzene (MS=126%, MSD=122%). These VOCs were non-detect in the parent sample; no data were qualified.
- MS and MSD percent recoveries exceeded the upper acceptance limit in sample CSL-SBMW9-S-2-3.8 for barium. The MS percent recovery exceeded the upper acceptance limit and the MSD percent recovery was below the lower acceptance limit for lead (MS=157%, MSD=63%). The result for barium in the parent sample CSL-SBMW9-S-2-3.8 was qualified as estimated (J). The result for lead in the parent samples was previously qualified as estimated (J) based on the high RPD between the MS and MSD recoveries; no further qualification was necessary.

1.3 Representativeness

Representativeness is a qualitative expression of the degree to which sample data accurately and precisely represent a characteristic of a population, a sampling point or an environmental condition. Representativeness is maximized by ensuring that, for a given project, the number and location of sampling points and sample collection and analysis techniques are appropriate for the specific

investigation and that the sampling and analysis program provides information that reflects “true” site conditions. Laboratory data were evaluated for representativeness (as applicable) by assessing compliance with the following: sample preservation; holding time criteria; blank sample results and field duplicate sample results.

Sample Preservation: All samples were received by the laboratory in acceptable condition and were properly preserved.

Sample Collection: Samples were collected in properly preserved containers. The laboratory did not identify any sampling issues. All sample collection procedures were acceptable with the following exception:

- The laboratory Login Sample Receipt Checklist did not indicate any discrepancies between the samples listed on the chain of custody (COC) and the samples received. However, the case narrative in the report noted that sample containers for CSL-SBMW7-S-0-4 were received, but this sample was not listed on the COC. The sample was logged in and analyzed.

Holding Time Evaluation: Holding times were compared to standard method-specific holding times accepted by the EPA. All samples were analyzed within holding time requirements.

Blank Evaluation:

No equipment rinse blanks or trip blanks were submitted with this SDG. Laboratory method blanks were reviewed for the presence of target analytes. Target compounds were not detected at concentrations equal to or greater than detection limits in any of these blanks.

Field Duplicate Evaluation:

Field duplicates are two different samples collected at the same time, at the same location, and with the same sampling procedure. Field duplicates are used to check the sampling techniques. RPDs were calculated for the duplicate pairs for constituents detected in both the primary and field duplicate samples at concentrations exceeding five-times their respective reporting limits (RLs). One field duplicate pair was collected: CSL-SB 8-2-4 and CSL-DUP-S. All results were non-detect in both samples for VOCs, SVOCs, and PCBs. For metals, all calculated RPDs met the acceptance criteria of 50% for soil.

1.4 Comparability

Comparability is a qualitative parameter that expresses the confidence that one data set may be compared to another and to historical data. For this project, analysis followed standard methods and data were reported using standard units of measure.

Sample collection techniques were acceptable. Since this is the first sampling event for this site, there is no historic data to compare results to.

1.5 Completeness

The analytical completeness was determined to be 100 percent (%) for all methods.

Summary of Qualified Data

Sample ID	Method	Analyte	Original Result	Validated Result	Units	Reason Code
CSL-SBMW9-S-2-3.8	SW6010C	Lead	72.2	72.2 J	mg/Kg	MS and MSD %R > UAL
CSL-SBMW9-S-2-3.8	SW6010C	Barium	74.3	74.3 J	mg/Kg	MS and MSD %R > UAL, MS/MSD RPD > CL
CSL-SBMW9-S-2-3.8	SW8270D	Nitrophenol, 4-	360 U	360 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8	SW8270D	Dimethylphenol, 2,4-	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8	SW8270D	Cresol, p- (Methylphenol, 4-)	360 U	360 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8	SW8270D	Phenol	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8	SW8270D	Dichlorophenol, 2,4-	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8	SW8270D	Dinitrophenol, 2,4-	1800 U	1800 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8	SW8270D	Dinitro-o-cresol, 4,6-	360 U	360 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8	SW8270D	Chloro-3-methyl phenol, 4-	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8	SW8270D	Pentachlorophenol	360 U	360 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8	SW8270D	Trichlorophenol, 2,4,6-	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8	SW8270D	Nitrophenol, 2-	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8	SW8270D	Cresol, o- (Methylphenol, 2-)	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8	SW8270D	Chlorophenol, 2- (ortho-Chlorophenol)	360 U	360 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8	SW8270D	Trichlorophenol, 2,4,5-	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Nitroaniline, 4-	360 U	360 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Nitrophenol, 4-	360 U	360 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Benzaldehyde	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Bromophenyl Phenyl Ether, 4-	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Caprolactam	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Dimethylphenol, 2,4-	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Cresol, p- (Methylphenol, 4-)	360 U	360 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Chloroaniline, 4-	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Bis(2-Chloroisopropyl)ether (2,2-oxybis(1-Chloropropane))	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Phenol	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Bis(2-Chloroethyl)ether	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Bis(2-Chloroethoxy)methane	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Bis(2-Ethylhexyl)phthalate (DEHP)	190	190 J	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Di-n-Octyl phthalate	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Hexachlorobenzene	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Anthracene	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Dichlorophenol, 2,4-	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Dinitrotoluene, 2,4-	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Pyrene	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Dimethyl Phthalate	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Dibenzofuran	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Benzo(g,h,i)perylene	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Atrazine	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Indeno(1,2,3-cd)pyrene	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Benzo(b)fluoranthene	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Fluoranthene	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Benzo(k)fluoranthene	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Benzo(a)anthracene	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Chloro-3-methyl phenol, 4-	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Dinitrotoluene, 2,6-	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	N-Nitrosodi-n-Propylamine	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Hexachloroethane	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Chlorophenyl Phenyl Ether, 4-	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Hexachlorocyclopentadiene	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Isophorone	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Acenaphthene	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Diethyl Phthalate	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Dibutyl Phthalate (DBP)	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Phenanthrene	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR

DATA USABILITY SUMMARY REPORT

Canal Street PHASE II ESA
Lyon, New York

CSL-SBMW9-S-2-3.8 RE	SW8270D	Butyl Benzyl Phthalate	210	210 J	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	n-Nitrosodiphenylamine	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Fluorene	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Carbazole	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Hexachlorobutadiene (Hexachloro-1,3-butadiene)	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Pentachlorophenol	360 U	360 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Trichlorophenol, 2,4,6-	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Nitroaniline, 2-	360 U	360 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Nitrophenol, 2-	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Naphthalene	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Methylnaphthalene, 2-	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Chloronaphthalene, 2-	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Dichlorobenzidine, 3,3'-	360 U	360 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Biphenyl	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Cresol, o- (Methylphenol, 2-)	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Chlorophenol, 2- (ortho- Chlorophenol)	360 U	360 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Trichlorophenol, 2,4,5-	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Acetophenone	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Nitrobenzene	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Nitroaniline, 3-	360 U	360 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8	SW8260C	Acetone	28 U	28 UJ	µg/kg	MS and MSD %R < LAL
CSL-SBMW9-S-2-3.8	SW8260C	Methyl Ethyl Ketone (MEK) (2- Butanone)	28 U	28 UJ	µg/kg	MS and MSD %R < LAL
CSL-SBMW9-S-2-3.8 RE	SW8270D	Acenaphthylene	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Chrysene	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Benzo(a)pyrene	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Dinitrophenol, 2,4-	1800 U	1800 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Dibenzo(a,h)anthracene	190 U	190 UJ	µg/kg	SUR %R < LAL, NSR
CSL-SBMW9-S-2-3.8 RE	SW8270D	Dinitro-o-cresol, 4,6-	360 U	360 UJ	µg/kg	SUR %R < LAL, NSR

Notes:

µg/kg – micrograms per kilogram

%R - percent recovery

CL - control limit

LAL - lower acceptance limit

MS - matrix spike

MSD - matrix spike duplicate

NSR – not selected for reporting

RPD - relative percent difference

SUR - surrogate

UAL – upper acceptance limit

Data Validation Qualifiers:

J - Result is qualified as estimated

UJ - Result is non-detect and the sample reporting limit is estimated.