ANSONIA HOUSING AUTHORITY
NO. 1 HOLBROOK PLACE RENOVATIONS PHASE 2
1 HOLBROOK PLACE
ANSONIA, CT 06401

ANSONIA HOUSING AUTHORITY RFP 2022-2

S/P+A PROJECT NO. 21.081

DATE: MAY 9, 2022

The following changes to the Drawings and Project Specifications shall become a part of the Drawings and Project Specifications; superseding previously issued Drawings and Project Specifications to the extent modified by Addendum No. 2.

General Information/Clarifications:

- Prebid walk-through sign-in sheet, attached as part of this Addendum. (1 page)

New Specifications:

- Add: Eagle Environmental, Inc. Pre-Renovation Hazardous Building Materials Inspection Report dated April 28, 2022, attached as part of this Addendum. (90 pages)

- Add the following Specification Sections, attached as part of this Addendum:

    - Section 010100 Hazardous Materials General Requirements. (4 pages)
    - Section 010260 Hazardous Materials Unit Prices. (2 pages)
    - Section 017050 Hazardous Materials Contract Closeout. (2 pages)
    - Section 020760 Selective Demolition for Hazardous Building Materials Abatement. (4 pages)
    - Section 020800 Asbestos Abatement. (28 pages)
    - Section 020900 Lead Paint Demolition. (14 pages)

New Drawings:

- Add: Drawing HM-1 *Basement and First Floor Abatement Plan*, and Drawing HM-2 *Second and Third Floor Abatement Plan.*

The bid due dates are unchanged by this Addendum.

The Addendum consists of one-hundred forty-eight (148) pages of 8½" x 11" text, and two (2) pages of 24" x 36" drawings.

End of Addendum #2

May 4th, 2022

1 Holbrook Pl.

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April 28, 2022

Mr. William Silver, AIA
President
Silver, Petrucelli and Associates, Inc.
3190 Whitney Avenue
Hamden, Connecticut 06518

RE: Pre-Renovation Hazardous Building Materials Inspection Report
1 Holbrook Place
Ansonia, Connecticut
Eagle Project No. 22-084.10T1

Dear Mr. Silver:

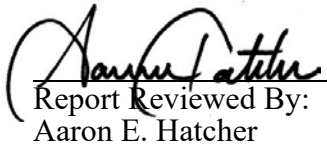
Please find the report for the hazardous building materials inspection conducted at the structure located at 1 Holbrook Place in Ansonia, Connecticut. The scope of services included an asbestos-containing materials inspection, a supplemental lead-based paint screen and lead waste characterization sampling and analysis.

The inspection was performed to support the renovation of the building interiors.

Please do not hesitate to contact us if you have any questions regarding the contents of this report.

Sincerely,
Eagle Environmental, Inc.

Report Prepared By:
Joshua L. Smith
Environmental Consultant II



Report Reviewed By:
Aaron E. Hatcher
Project Manager

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1. INTRODUCTION

On April 4, 2022, Eagle Environmental, Inc. (Eagle) conducted a hazardous building materials inspection of the structure located at 1 Holbrook Place in Ansonia, Connecticut (Site). The scope of the hazardous building material inspection included an asbestos-containing materials inspection, a supplemental lead-based paint screen and lead waste characterization sampling and analysis. The inspection was performed to support the renovation of the building interiors. According to the architect plans for the project, the exterior components with the exception of the existing vinyl window systems are scheduled to remain in their current state.

1.1 Building Description

The subject building is a three-story, wood framed structure built in 1890. The structure contains six (6) dwelling units, a full unfinished basement, an attic and a covered front porch. The former three (3) story rear open porch system was recently demolished and is currently undergoing reconstruction. The exterior facades are layered with wood shingle siding and asphalt shingle siding underneath the exposed outer vinyl siding. The roof is gently slope towards the rear of the building and consists of a rubber membrane system on wood sheathing.

The mechanical equipment is located in the basement and consists of six (6) individual forced hot air systems with metal ductwork. The forced hot air ductwork is exposed in the basement and is partially insulated, and all duct vertical risers and duct boots are concealed within the walls above and are insulated with paper duct insulation. The domestic plumbing pipes are exposed and uninsulated in the basement. Pipe risers are concealed within the walls above.

The interior walls and ceiling are primarily of two-coat plaster on lath construction with limited areas where sheetrock and joint compound was present. The window systems throughout are of vinyl construction with wood trim components. The door frames are wood with wood interior doors and metal entry doors. The floors are finished with various layers of vinyl floor tile and/or linoleum sheet flooring in the kitchens, bathrooms and common stairs. The remaining areas predominantly have hardwood floors with limited areas of resilient floor systems.

2. SCOPE OF INSPECTION

The scope of the inspection included the accessible interior portions of the Site building including all six (6) dwelling units, the basement, the attic, the common front stairs and limited exterior areas. A targeted ACM inspection to support the demolition of the rear porch system and the front porch roof replacement was conducted by Eagle on October 1, 2021. The targeted inspection confirmed that all sampled building materials associated with the porches to be non-asbestos containing and the report for the inspection has been provided to the Client under a separate cover dated October 18, 2021.

Additionally, a comprehensive lead-based paint inspection was performed at the Site by Eagle on December 17, 2014. In order to support the project waste classification, Eagle performed supplemental testing and waste characterization for buildings materials that are scheduled to be impacted by the renovation efforts.

2.1 Asbestos Containing Materials

The asbestos inspection was conducted in order to satisfy the United States Environmental Protection Agency (USEPA) National Emission Standard for Hazardous

Air Pollutants Act (NESHAP) as amended November 20, 1990. The USEPA NESHAP final rule requires the identification and removal of all regulated ACM in an area of renovation prior to renovating the area if the renovation work will impact the ACM.

The asbestos inspection was performed by Joshua Smith; a CT DPH licensed Asbestos Inspector (license #000975).

2.2 Lead-based Paint

2.2.1 X-Ray Fluorescence Screen

The lead-based paint (LBP) screen was performed in accordance with the requirements of the State of Connecticut, Department of Energy and Environmental Protection (DEEP), Guidance for the Management and Disposal of Lead Contaminated Materials Generated in the Lead Abatement, Renovation and Demolition Industries. The DEEP regulates the disposal of hazardous lead waste in the State of Connecticut. Lead-contaminated debris, not contaminated with other hazardous materials, is classified either as hazardous lead waste or as non-hazardous solid waste.

Additionally, the U.S. Department of Labor Occupational Safety and Health Administration (OSHA) regulates lead dust exposure to workers in the construction industry under 29 CFR 1926.62 Lead in Construction.

The lead-based paint screen was performed by Jake Cyr; a CT DPH licensed Lead Inspector/Risk Assessor (license #002300).

2.2.2 Lead Waste Characterization

DEEP regulates the disposal of hazardous waste. The required analytical test to determine a materials waste classification is the Toxicity Characteristic Leachate Procedure, or TCLP (Regulation of State DEEP 22a-449© - 101 (a) (1), incorporating 40 CFR 262.24). Eagle collected samples of building materials for lead waste characterization.

3. INSPECTION PROTOCOLS

3.1 Asbestos Containing Materials

3.1.1 Inspection

The asbestos-containing materials (ACM) inspection included the accessible interior and exterior portions of the building. The roof systems were not included in the inspection services for this project. Semi-destructive testing techniques were utilized during the inspection process. This included manually removing various layers of flooring and layered materials to verify and sample individual layers of suspect ACM. Suspect building materials that are inaccessible for inspection and sampling are assumed to be ACM for the purpose of this report. These suspect materials are generally located in operational equipment, behind rigid walls and ceilings or otherwise concealed areas of the building.

During the inspection, suspect materials are located, sampled, quantified and the friability of the material is determined. Friable materials are those materials that hand pressure can crumble, pulverize or reduce to powder when dry. An estimated quantity of identified ACM is provided for positive materials only. The materials are quantified in linear or square feet, depending on the nature of the material.

3.1.2 Bulk Sampling

During the sampling process, suspect ACM is separated into three (3) USEPA categories. These categories are: Thermal System Insulation (TSI), Surfacing Materials (SURF) and Miscellaneous materials (MISC). TSI includes all materials used to prevent heat loss or gain or water condensation on mechanical systems. Examples of TSI are pipe covering, boiler insulation, duct wrap and mudpack fitting cement. Surfacing ACM includes all ACM that is sprayed, toweled or otherwise applied to an existing surface. These applications are most commonly used in fireproofing, decorative and acoustical applications. Miscellaneous materials include all ACM not listed in thermal or surfacing, such as linoleum, vinyl asbestos flooring and ceiling tile.

Bulk sampling was performed in a random method. Bulk sampling methods and number of samples collected meets or exceeds the USEPA requirements.

3.1.3 Bulk Sample Analysis

The samples of the suspect asbestos containing materials were sent to a CT DPH approved laboratory for analysis by Polarized Light Microscopy (PLM). PLM is the USEPA accepted method of analysis for identification of asbestos in bulk matrices. Samples are collected individually or in sets. When sets of samples are collected, each set is systematically analyzed until one sample is determined to contain asbestos. Upon the determination of the presence of asbestos in one sample in the set, analysis of the remaining samples in the set is discontinued. If no asbestos is observed during analysis of the set of samples, the suspect material is determined to be negative for asbestos content.

Sample analysis results are reported in percentage of asbestos and non-asbestos components. The USEPA defines any material that contains greater than one percent asbestos, utilizing PLM, as being an asbestos-containing material (ACM). Suspect materials containing greater than one percent (>1%) asbestos utilizing the PLM Point Count Method and the NOB TEM method are also considered to be asbestos-containing. Materials determined to contain greater than one percent (>1%) asbestos is regulated by the USEPA, CT DPH and DEEP and the United States Department of Labor. Sample results indicating “no asbestos detected” (NAD) are specified as non-asbestos containing materials. Samples results indicating “Did Not Analyze” (DNA) are not analyzed due to the stop on first positive request to the laboratory.

3.1.3.1 Friable ACM Analysis

Certain samples of friable materials shown to contain less than ten percent (<10%) asbestos are analyzed further by the “Point Count Method”. This procedure is recommended by the United States Environmental Protection Agency to confirm friable bulk samples shown to have less than ten percent (<10%) asbestos by PLM to be definitively negative or positive for asbestos. This method is accepted as providing statistically reliable results when analyzing bulk samples with very low asbestos concentrations. Friable materials containing “Trace” or “less than one percent (<1%)” asbestos must be analyzed by the PLM Point Count Method. No samples were further analyzed by the PLM Point Count Method.

3.1.3.2 Non Friable ACM Analysis

Certain samples of organically bound non-friable materials shown to contain “less than 1% asbestos”, “TRACE” or “NAD” are recommended

for analyses by the “NOB TEM ELAP 198.4 Method”. This procedure is recommended by the United States Environmental Protection Agency to further evaluate non-friable organically bound materials for asbestos. Suspect materials confirmed by NOB TEM to be “less than one percent (<1%) asbestos”, “TRACE” or “NAD” are considered non-asbestos containing. No samples were further analyzed by the NOB TEM Method.

3.2 Lead-based Paint

3.2.1 X-Ray Fluorescence Screen

The lead-based paint screen was performed utilizing an X-Ray Fluorescence (XRF) Radiation Monitoring Device (RMD) Lead Paint Analyzer (LPA 1), serial number 01364 within the limits of the inspection area(s). The screen includes components that were previously identified to contain lead-based paint and required confirmation prior to conducting waste characterization.

The lead-based paint screen includes testing limited components and or surfaces throughout the structure. The intent of the lead-based paint screen was to identify and confirm components/debris as it relates to the disposal of lead paint contaminated debris and potential worker exposure issues. Generally, wall and ceiling surfaces, painted floors, window and door systems are tested. Component and surface locations are identified by side designations represented by the letters "A", "B", "C", and "D". The "A" side is considered the front of the building with the "B", "C", and "D" sides following in a clockwise order.

The data is presented on computer generated Lead Inspection Reports contained in Appendix C. Comprehensive lead-based paint testing data can be available to the Client upon request. The Summary Report provides an inventory of each surface coating that contains lead at or above 1.0 mg/cm². The Detailed Report is an inventory of each tested surface on a room-by-room basis.

For the purpose of this report, the XRF results are separated into two (2) categories; high levels of lead (≥1.0 mg/cm²) and low levels of lead (<1.0 mg/cm²). Building materials containing high levels of lead have a greater probability of creating worker exposures during construction than do building materials with low levels of lead. Additionally, lead waste characterization sampling is required for building materials containing high levels of lead (≥1.0 mg/cm²) and will become a waste product as a result of demolition or renovation activities.

OSHA regulates lead dust exposure to workers in the construction industry under 29 CRF 1926.62 Lead Exposure in Construction; Interim Final Rule. Currently, OSHA does not define a threshold level of lead in paint that may cause worker exposure. Any detectable level of lead in paint (>0.0 mg/cm² +/- 0.3 mg/cm² by XRF or ≥0.01 % by AAS) requires task specific exposure monitoring.

3.2.2 Lead Waste Characterization

The DEEP regulates the disposal of hazardous waste. The required analytical test to determine a materials waste classification is the Toxicity Characteristic Leachate Procedure, or TCLP (Regulation of State DEEP 22a-449© - 101 (a) (1), incorporating 40 CFR 262.24).

The TCLP test subjects a 100-gram sample of waste material to a simulated landfill leaching condition, and assesses the ability of the sample to leach out lead into the environment. The waste is classified as hazardous lead waste if the TCLP sample result is greater than 5.0 mg/l of lead. The waste is classified as non-

hazardous solid waste if the TCLP sample result is less than 5.0 mg/l of lead. Building debris containing equal to or greater than 1.0 mg/cm² of lead by XRF requires waste classification analysis.

There are two (2) primary approaches for TCLP sampling. Both methods utilize the data generated during the lead screen to determine which building materials contain lead in paint coatings and what percentage of the waste stream will consist of the leaded materials. The two (2) basic approaches are described below.

Screen, Sample, and Segregate Method

The Screen, Sample, and Segregate method of TCLP sampling is conducted in accordance with the DEEP Guidance for the Management and Disposal of Lead-Contaminated Materials Generated in the Lead Abatement, Renovation, and Demolition Industries. This method entails screening the building components scheduled to be removed with an XRF lead paint analyzer. Components that are determined to be lead containing are sampled and analyzed by TCLP based on their contribution into the waste stream. The waste stream is made up of those building components that will be removed from the structure as part of the renovation or demolition process and will become a waste product.

Sample and Demolish Method

The Composite Sample and Demolish Method of TCLP sampling is conducted in accordance with the DEEP Guidance for the Management and Disposal of Lead-Contaminated Materials Generated in the Lead Abatement, Renovation and Demolition Industries. This method utilizes composite samples to assess the total amount of leachable lead of the entire quantity of debris to be removed. This sampling method is best utilized for whole building demolitions where the quantity of non-lead debris is expected to be much greater than that of the leaded debris. The first step in the sampling process requires the inspector to identify the potential waste stream of the structure to be demolished. The waste stream is made up of those building components that will be disposed of once the structure is demolished. The inspector calculates the mass by weight of each group of building components within the building (i.e. studs, framing, sheathing, siding, doors, windows, etc.). The lead testing results enables the inspector to determine the percentages of components, within each group, that contain lead. With this information, the inspector can than calculate the percent by weight contribution of each components contribution into the waste stream. This takes into account the ratio of leaded components verse non-leaded components within each group.

4. INSPECTION RESULTS

4.1 Asbestos Containing Materials

During the course of the building inspection one hundred twenty (120) bulk samples of suspect ACM were collected and one hundred thirteen (113) samples were analyzed by PLM based on the “stop on first positive” request to the laboratory. Additionally, there were no samples analyzed by the by PLM Point Count Method and no samples analyzed by the NOB TEM Method.

From the one hundred thirteen (113) samples analyzed, the following materials were found to be ACM:

- Duct insulation paper – grey/white
- Textured ceiling paint – small nodules
- 9” x 9” Floor tile – tan with white and red streaks
- Bottom layer floor tile – beige with blue

- 12” x 12” Floor tile – thin – red
- 12” x 12” Floor tile - brown

The remaining suspect materials were confirmed to be non-ACM.

The locations and summaries of asbestos and non-asbestos materials are presented in Tables I and II respectively. The asbestos analysis laboratory reports are provided in Appendix B.

Any suspect material not specifically identified in this report as non-ACM should be assumed to contain asbestos unless sample results prove otherwise. This report is not intended to serve as a scope of work or technical specification for asbestos abatement. A technical specification for the asbestos abatement work at this project has been provided under a separate cover.

All regulated friable and regulated non-friable ACM must be removed prior to renovation activities. A State of Connecticut Licensed Asbestos Abatement Contractor must be retained to perform the removal work. Visual inspections and air clearances must be performed within each abatement area at the completion of the abatement work. The visual inspections and air clearances must be performed by a State of Connecticut licensed Asbestos Project Monitor. The abatement areas must meet final visual and air clearance inspection criteria prior to building renovation. Re-occupancy air monitoring is required if the building will be re-entered by any person following abatement and prior to renovation. This includes but is not limited to entry for utility disconnects, salvage, equipment removal, etc.

State of Connecticut Regulatory Notification Requirements

The Asbestos Abatement Contractor must submit a notice of asbestos abatement to the CT DPH post marked or hand delivered ten (10) calendar days prior to the commencement of any asbestos abatement activities involving the abatement of greater than ten (10) linear feet or twenty-five (25) square feet of asbestos-containing materials. The asbestos abatement notification satisfies the DPH regulatory requirements for demolition notification. For asbestos abatement projects involving less than ten (10) linear feet or twenty-five (25) square feet of asbestos-containing materials or projects where no regulated asbestos-containing materials are identified, the facility owner or any person who will be conducting demolition must submit a demolition notification to the CT DPH post marked or hand delivered ten (10) days prior to the commencement of demolition activities.

United States Environmental Protection Agency Notification Requirements

As of December 14, 2017, the facility owner/operator must provide a notification of demolition and renovation under the USEPA National Emission Standard for Hazardous Air Pollutants (NESHAP) regulation 40 CFR Part 61 Subpart M. The facility owner must submit notification to the USEPA for all demolition projects ten (10) working days prior to all demolition projects, which fall under the NESHAP regulation regardless of the presence of asbestos-containing materials. The facility owner must also provide notification to the USEPA for all renovation project ten (10) working days prior to all renovation projects involving greater than one hundred sixty (>160) square feet or greater than two hundred sixty (>260) linear feet or thirty-five (35) cubic feet of regulated asbestos-containing materials.

State and federal notifications are completely independent of one another and both regulatory agencies must be notified when applicable.

4.2 Lead-based Paint

4.2.1 X-Ray Fluorescence Screen

A total of one hundred eighty-four (184) XRF readings were collected during the lead-based paint screen of the dwelling units, including instrument calibration readings. The testing only included components that required confirmation testing prior to waste characterization sampling. From the hundred eighty-four (184) readings, fifty-five (55) surfaces or components were found to contain high levels of lead.

The general inventory of surfaces containing high levels of lead include the following surfaces:

Interior

- Apartment 1 – 1-102 – plaster walls
- Apartment 2 – 1-202 – plaster walls
- Apartment 3 – 2-300 – plaster walls
- Apartment 3 – 2-301 – plaster wall
- Apartment 3 – 2-302 – plaster walls and ceiling
- Apartment 3 – 2-303 – plaster walls
- Apartment 4 – 2-403 – plaster walls, wood door and door stop
- Apartment 4 – 2-402 – plaster walls and ceiling
- Apartment 5 – 3-501 – plaster walls
- Apartment 5 – 3-502 – plaster walls
- Apartment 6 – 3-610 – wood window components, wall casings, wall panel, and baseboard
- Apartment 6 – 3-608 – wood window sill
- Apartment 6 – 3-603 – wood window components, wall and wall cap
- Apartment 6 – 3-602 – plaster walls
- Apartment 6 – 3-601 – wood window components, door, and door casing
- Apartment 6 – 3-600 – plaster wall

Based on the comprehensive lead-based paint inspection report dated December 17, 2014, several building materials were determined to contain low levels of lead in paint. Although these levels of lead in paint were less than 1.0 mg/cm^2, the contractor must perform an exposure assessment on employees during tasks that disturb the painted materials.

The remaining components and surfaces that were tested contain no lead in their respective paint coatings.

OSHA regulates lead dust exposure to workers in the construction industry under 29 CFR 1926.62 Lead Exposure in Construction; Interim Final Rule. Currently, OSHA does not define a threshold level of lead in paint that may cause worker exposure. Any detectable level of lead in paint (>0.0 mg/cm^2 +/- 0.3 mg/cm^2 by XRF or >0.01 % by AAS) requires task specific exposure monitoring. This "initial exposure assessment" must be conducted by trained workers utilizing appropriate personal protective equipment. Exposure assessments must be conducted for each task where painted surfaces or components are disturbed.

Examples of task subject to initial monitoring when detectable levels of lead are identified include but are not limited to surface preparation for repainting, manual demolition of components with detectable levels of lead paint and the welding, cutting or grinding of steel with detectable levels of lead in paint.

A complete inventory of tested building materials is presented in Detailed Reports contained Appendix C.

4.2.2 Lead Waste Characterization Results

One (1) composite TCLP sample was collected and analyzed for waste characterization purposes. One (1) waste stream was identified and is anticipated to be generated as a result of the renovation work. The components of the waste stream include the following: negative wood, negative sheetrock, positive plaster and negative plaster.

WASTE STREAM	WASTE CONTRIBUTION IN %
Negative Wood	34
Negative Plaster	52
Positive Plaster	7
Negative Sheetrock	7
TOTAL	**100%**

The result of the TCLP sample representative of the building materials and components that are scheduled to contribute in the project waste stream was 0.52 mg/L, characterizing the material as non-hazardous solid waste.

The waste characterization sampling and analysis confirmed that no hazardous lead waste will be generated as a result of the renovation activities. The waste generated during renovation of the buildings may be disposed of as non-hazardous solid waste. Metal components may be recycled at an approved recycling facility.

The TCLP laboratory reports and computation tables are provided in Appendix D.

5. COST ESTIMATES

This is a budgetary opinion of cost that is expected to be within -15 to + 30 percent of the actual cost. Eagle has no control over the cost of labor, materials, equipment or services furnished by others, or over the Contractor or Contractors' methods of determining prices, or over competitive bidding or market conditions. Eagle's opinion of probable cost of abatement are made on the basis of Eagle's experience and qualifications and represent Eagle's judgment as an experienced and qualified consultant familiar with the abatement industry; but Eagle cannot and does not guarantee that proposals, bids or actual Total Project or Abatement Cost will not vary from opinions of probable cost prepared by Eagle. If, prior to the bidding or negotiating phase, the Owner wishes greater assurance as to Total Project or Abatement Cost, the Owner shall employ an independent cost estimator.

The cost estimates are provided in Appendix E.

TABLE I

ASBESTOS CONTAINING MATERIALS SUMMARY TABLE

KEY FOR TABLES I and II

*** Please utilize the following key for abbreviations used in Tables I and II**

KEY		ANALYTICAL METHODS
DNA = DID NOT ANALYZE	SF = SQUARE FEET	PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT
NAD = NO ASBESTOS DETECTED	LF = LINEAR FEET	TEM NOB = NEW YORK ELAP 198.4 METHOD
F = FRIABLE	Chrys = Chrysotile	PLM = EPA 600/R-93/116
NF = NON-FRIABLE	Amos = Amosite	PS = Previously Sampled
TSI = THERMAL SYSTEMS INSULATION	Anth = Anthophylite	EA = Each
SURF = SURFACING MATERIAL	Trem = Tremolite	IM = Insufficient Material
MISC = MISCELLANEOUS MATERIAL	Croc = Crocidolite	NQ = Not Quantifiable
BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION		

TABLE I
ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
1 HOLBROOK PLACE
ANSONIA, CONNECTICUT

LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS				ESTIMATED QUANTITY	F/NF
				PLM	PLM PC	TEM NOB	ACM		
0-001, 1-101, 1-103, 1-105, 1-106, 1-107, 1-108, 1-109, 1-110, 1-100, 1-201, 2-203, 1-205, 1-206, 1-207, 1-208, 1-209, 1-210, 1-200, 3-303, 3-305, 3-306, 3-307, 3-308, 3-309, 3-310, 2-401, 2-403, 2-404, 2-405, 2-406, 2-407, 2-408, 2-409, 2-410, 3-503, 3-504, 3-505, 3-506, 3-507, 3-508, 3-509, 3-510, 3-601, 3-603, 3-604, 3-605, 3-606, 3-607, 3-608, **3-609,** 3-610	Duct insulation paper - grey/white	04-04-JS-27	TSI	50% Chrys			YES	610 SF	F
		04-04-JS-28		DNA					
		04-04-JS-29		DNA					
1-105, 1-107, **1-207, 1-208, 2-209,** 1-210,, 1-200, 3-600, 3-605, 3-606, 3-607, **3-608, 3-609,** 3-610	Textured ceiling paint - small nodules	04-04-JS-48	SURF	NAD			YES	1600 SF	NF
		04-04-JS-49		NAD					
		04-04-JS-50		NAD					
		04-04-JS-51		2% Chrys					
		04-04-JS-52		DNA					
Front Stair	9" x 9" Floor tile - tan with white and red streaks	04-04-JS-76	MISC	3% Chrys			YES	250 SF	NF
		04-04-JS-77		DNA					

TABLE I
ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
1 HOLBROOK PLACE
ANSONIA, CONNECTICUT

LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS				ESTIMATED QUANTITY	F/NF
				PLM	PLM PC	TEM NOB	ACM		
2-402, 2-404	Bottom layer floor tile - beige with blue	04-04-JS-105	MISC	3% Chrys			YES	35 SF	NF
		04-04-JS-106		DNA					
1-202, 1-203	12" x 12" Floor tile - thin - red	04-04-JS-121	MISC	3% Chrys			YES	160 SF	NF
		04-04-JS-122		DNA					
1-205, 1-206, **1-207**, 1-208, 1-200	12" x 12" Floor tile - brown	04-04-JS-127	MISC	5% Chrys			YES	400 SF	NF
		04-04-JS-128		DNA					
Attic	Woven electrical wire	Assume	MISC	Assume			Assume	200 LF	NF
Basement	Window glazing compound at basement windows	Assume	MISC	Assume			Assume	6 @ 3' x 1.5' Each	NF
Basement	Knob and tube wiring (active)	Assume	MISC	Assume			Assume	~500 LF	NF
1-101, 1-102, 1-103, 2-201, 2-202, 2-203, 2-401, 2-403	Bottom layer flooring under plywood	Assume	MISC	Assume			Assume	500 SF	NF

TABLE II

NON-ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE

KEY FOR TABLES I and II

*** Please utilize the following key for abbreviations used in Tables I and II**

KEY		ANALYTICAL METHODS
DNA = DID NOT ANALYZE	SF = SQUARE FEET	PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT
NAD = NO ASBESTOS DETECTED	LF = LINEAR FEET	TEM NOB = NEW YORK ELAP 198.4 METHOD
F = FRIABLE	Chrys = Chrysotile	PLM = EPA 600/R-93/116
NF = NON-FRIABLE	Amos = Amosite	PS = Previously Sampled
TSI = THERMAL SYSTEMS INSULATION	Anth = Anthophylite	EA = Each
SURF = SURFACING MATERIAL	Trem = Tremolite	IM = Insufficient Material
MISC = MISCELLANEOUS MATERIAL	Croc = Crocidolite	NQ = Not Quantifiable
BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION		

TABLE II
NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
1 HOLBROOK PLACE
ANSONIA, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
3-603	Bottom layer self adhesive floor tile - white rectangle, white backing	04-04-JS-01	MISC	NAD			NO
		04-04-JS-02		NAD			
1-101, 3-603	Middle layer self adhesive floor tile - wood pattern, grey backing	04-04-JS-03	MISC	NAD			NO
		04-04-JS-04		NAD			
3-509, 3-603	Top layer self adhesive floor tile - wood pattern, white backing	04-04-JS-05	MISC	NAD			NO
		04-04-JS-06		NAD			
1-201, 3-603	Sheetrock	04-04-JS-07	MISC	NAD			NO
		04-04-JS-08		NAD			
3-501, 3-603	Joint compound - white	04-04-JS-09	MISC	NAD			NO
		04-04-JS-10		NAD			
1-103, 3-506, 3-603, A-004	Plaster rough coat	04-04-JS-11	SURF	NAD			NO
		04-04-JS-12		NAD			
		04-04-JS-13		NAD			
		04-04-JS-16		NAD			
		04-04-JS-17		NAD			
1-103, 3-506, 3-603, A-004	Plaster smooth coat	04-04-JS-18	SURF	NAD			NO
		04-04-JS-19		NAD			
		04-04-JS-20		NAD			
		04-04-JS-23		NAD			
		04-04-JS-24		NAD			
3-509, 3-603	Window caulk	04-04-JS-25	MISC	NAD			NO
		04-04-JS-26		NAD			
3-601	Joint compound - Type 2 - yellow	04-04-JS-32	MISC	NAD			NO
		04-04-JS-33		NAD			
3-602	Bottom layer self adhesive floor tile under plywood - white, white backing	04-04-JS-34	MISC	NAD			NO
		04-04-JS-35		NAD			
3-501, 3-601	Bath caulk - white	04-04-JS-36	MISC	NAD			NO
		04-04-JS-37		NAD			
3-601	Tub surround adhesive - Type I - black	04-04-JS-38	MISC	NAD			NO
		04-04-JS-39		NAD			

TABLE II
NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
1 HOLBROOK PLACE
ANSONIA, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
3-601	Tub surround adhesive - Type 2 - yellow	04-04-JS-40	MISC	NAD			NO
		04-04-JS-41		NAD			
3-601	4" Ceramic wall tile adhesive	04-04-JS-42	MISC	NAD			NO
		04-04-JS-43		NAD			
2-303, 3-601	4" Ceramic wall tile grout	04-04-JS-44	MISC	NAD			NO
		04-04-JS-45		NAD			
3-602	Residual mastic under counter - black	04-04-JS-46	MISC	NAD			NO
		04-04-JS-47		NAD			
3-606, 3-608	1' x 1' Acoustic ceiling tile	04-04-JS-53	MISC	NAD			NO
		04-04-JS-54		NAD			
3-606, 3-608	Residual carpet adhesive	04-04-JS-55	MISC	NAD			NO
		04-04-JS-56		NAD			
3-606	Paper backed linoleum - brown/beige, black backing	04-04-JS-57	MISC	NAD			NO
		04-04-JS-58		NAD			
3-503	Bottom layer paper backed linoleum under plywood - green with gold glitter and black backing	04-04-JS-59	MISC	NAD			NO
		04-04-JS-60		NAD			
2-303, 3-503	Floor tile mastic - yellow	04-04-JS-61	MISC	NAD			NO
		04-04-JS-62		NAD			
2-303, 3-503	Top layer 12" x 12" floor tile - beige with brown specks	04-04-JS-63	MISC	NAD			NO
		04-04-JS-64		NAD			
3-503	Vinyl cove base adhesive - cream	04-04-JS-65	MISC	NAD			NO
3-503	4" Vinyl cove base - white	04-04-JS-67	MISC	NAD			NO
3-503	Sink undercoating - black	04-04-JS-69	MISC	NAD			NO
3-501	Bottom layer self adhesive floor tile - yellow, white backing	04-04-JS-70	MISC	NAD			NO
		04-04-JS-71		NAD			
2-401, 3-501	Top layer self adhesive floor tile - grey/blue, black/grey backing	04-04-JS-72	MISC	NAD			NO
		04-04-JS-73		NAD			
Front Stair, 2-303	9" x 9" Floor tile mastic/paper - black	04-04-JS-74	MISC	NAD			NO
		04-04-JS-75		NAD			

TABLE II
NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
1 HOLBROOK PLACE
ANSONIA, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
Front Stair	Vinyl stair tread adhesive - brown	04-04-JS-78A	MISC	NAD			NO
		04-04-JS-78B		NAD			
Front Stair	Vinyl stair tread - black	04-04-JS-79A	MISC	NAD			NO
		04-04-JS-79B		NAD			
A-004	Celluose attic insulation	04-04-JS-80	MISC	NAD			NO
		04-04-JS-81		NAD			
A-004	Stored paper backed linoleum floor roll - tan, black backing	04-04-JS-83	MISC	NAD			NO
		04-04-JS-84		NAD			
0-001	Flue cement - Type I - white	04-04-JS-85	MISC	NAD			NO
		04-04-JS-86		NAD			
0-001	Flue cement - Type 2 - grey	04-04-JS-87	MISC	NAD			NO
		04-04-JS-88		NAD			
0-001	Flue cement - Type 3 - tan	04-04-JS-89	MISC	NAD			NO
		04-04-JS-90		NAD			
1-103-Stair, Front Stair	Vapor barrier on sub floor	04-04-JS-91	MISC	NAD			NO
		04-04-JS-92		NAD			
Exterior - Façade B	Exterior window caulk	04-04-JS-93	MISC	NAD			NO
		04-04-JS-94		NAD			
2-403	Self adhesive floor tile adhesive - grey	04-04-JS-95	MISC	NAD			NO
		04-04-JS-96		NAD			
2-402, 2-403	2nd Layer self adhesive floor tile - black, grey backing	04-04-JS-97	MISC	NAD			NO
		04-04-JS-98		NAD			
2-403	Sink undercoating - grey	04-04-JS-99	MISC	NAD			NO
		04-04-JS-100		NAD			
2-403	1' x 1' Acoustic ceiling tile on track - Type 2	04-04-JS-101	MISC	NAD			NO
1-203, 2-402, 2-404	Floor tile mastic on wood - black	04-04-JS-103	MISC	NAD			NO
		04-04-JS-104A		NAD			
		04-04-JS-104B		NAD			
2-402, 2-404	Layered linoleum flooring	04-04-JS-107	MISC	NAD			NO
		04-04-JS-108		NAD			

TABLE II
NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
1 HOLBROOK PLACE
ANSONIA, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
2-401	Top layer self adhesive floor tile - grey	04-04-JS-109	MISC	NAD			NO
		04-04-JS-110		NAD			
2-401	Bath caulk - Type 2 - yellow	04-04-JS-111	MISC	NAD			NO
		04-04-JS-112		NAD			
1-101, 2-303	Middle layer floor tile - thin - cream, white backing	04-04-JS-113	MISC	NAD			NO
		04-04-JS-114		NAD			
2-303	Middle layer self adhesive floor tile - black backing	04-04-JS-115	MISC	NAD			NO
		04-04-JS-116		NAD			
2-302	Self adhesive floor tile - cream	04-04-JS-117	MISC	NAD			NO
		04-04-JS-118		NAD			
2-300, 2-302	Self adhesive floor tile - beige and brown diamonds	04-04-JS-119	MISC	NAD			NO
		04-04-JS-120		NAD			
1-201	Self adhesive floor tile - thick - plank pattern	04-04-JS-123	MISC	NAD			NO
1-201, 1-207	4' x 2' Acoustic ceiling tile	04-04-JS-125	MISC	NAD			NO
		04-04-JS-126		NAD			
1-200	Carpet adhesive - green	04-04-JS-129	MISC	NAD			NO
		04-04-JS-130		NAD			
1-107	Layered self adhesive floor tile	04-04-JS-131	MISC	NAD			NO
		04-04-JS-132		NAD			
1-101, 1-110	Textured ceiling paint - Type 2 - blotch pattern	04-04-JS-133	SURF	NAD			NO
		04-04-JS-134		NAD			
		04-04-JS-135		NAD			
0-001	Cementituous wall coating	04-04-JS-136	MISC	NAD			NO

APPENDIX A

FLOOR PLANS WITH SAMPLE LOCATION DIAGRAMS

SILVER, PETRUCELLI & ASSOCIATES, INC.

1 HOLBROOK PLACE
ANSONIA, CONNECTICUT

EAGLE PROJECT NUMBER: 22-084.10T1

INDEX OF DRAWINGS

LOCATION MAP

APRIL 8, 2022

EAGLE Environmental, Inc.

8 SOUTH MAIN STREET, SUITE 3
TERRYVILLE, CONNECTICUT 06786
860-589-8257

Z:\2022 Files\2022 AutoCAD\Silver Petrucelli\1 Holdbrook Place\ACM Inspection\CAD\1 Holbrook Place.dwg

SIDE-C

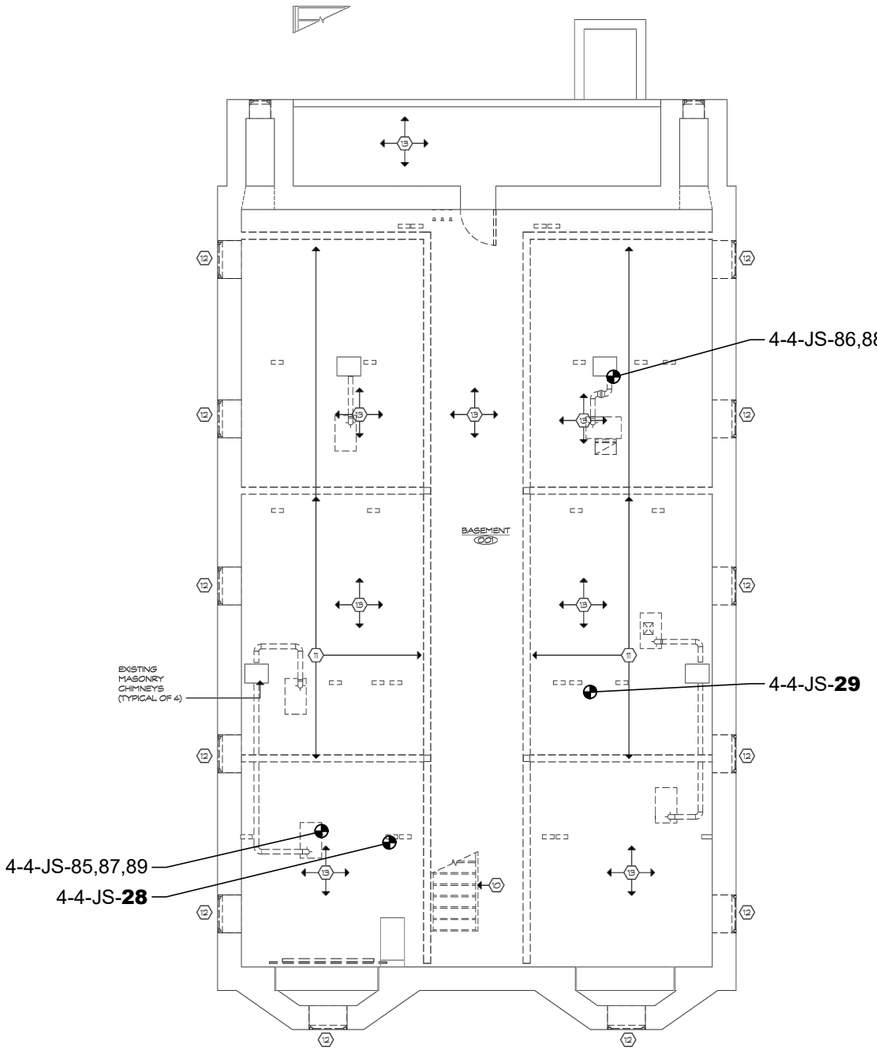
SIDE-B

SIDE-D

SAMPLE KEY:

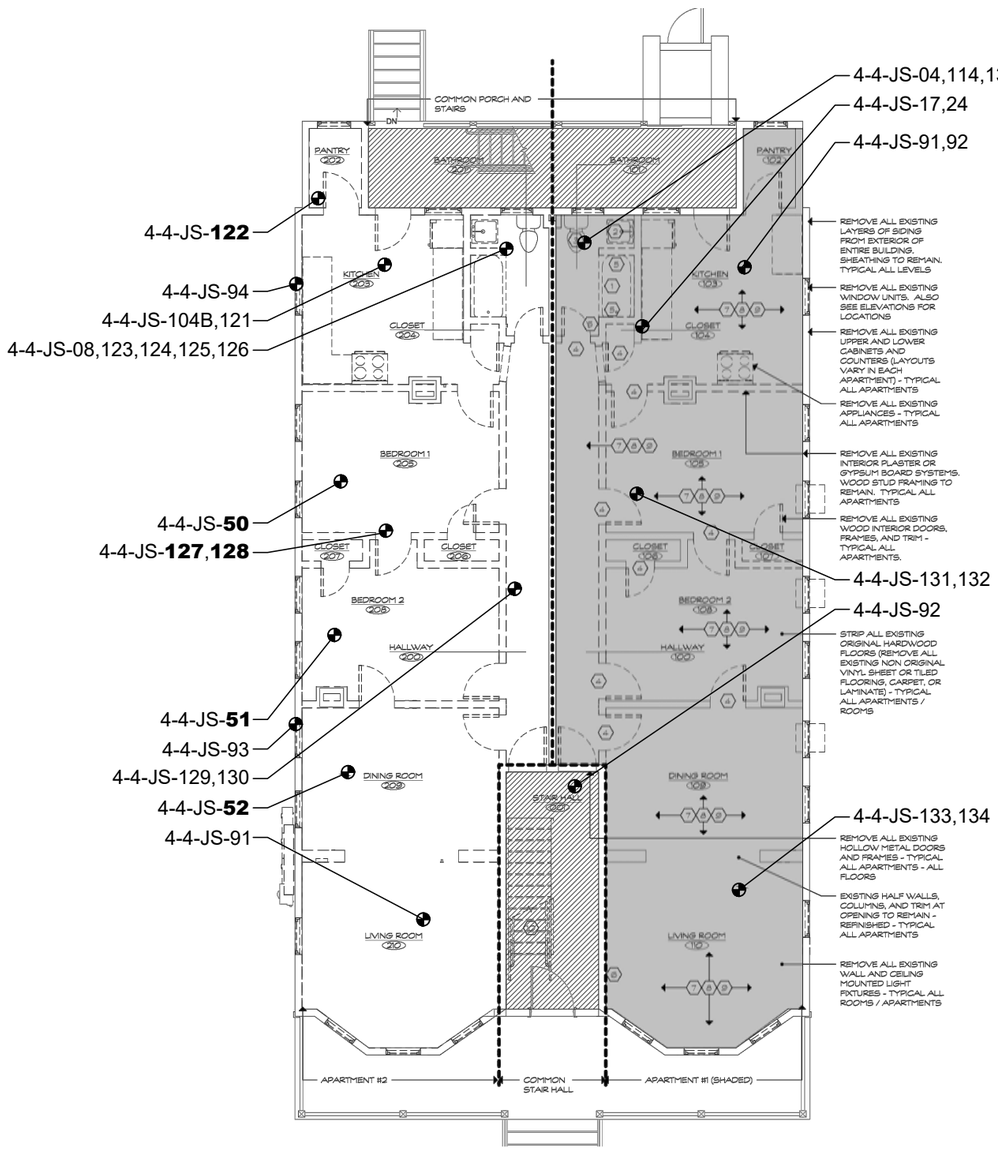
4-4-JS-## = ASBESTOS SAMPLE LOCATION AND NUMBER

BOLDED SAMPLE NUMBERS
INDICATE PRESENCE OF ASBESTOS IN CONCENTRATIONS GREATER THAN 1% WITHIN SAMPLE SET.



BASEMENT

SCALE: 3/32" = 1'-0"



FIRST FLOOR

SCALE: 3/32" = 1'-0"

ASBESTOS-CONTAINING MATERIALS & LEAD-BASED PAINT INSPECTION
SILVER, PETRUCELLI & ASSOCIATES, INC.
1 HOLBROOK PLACE
ANSONIA, CONNECTICUT

PROJECT NO.: 22-084.10TI
DATE: 04/08/2022
DRAWN BY: BB
REVIEWED BY: AH

EAGLE Environmental, Inc.
8 SOUTH MAIN STREET, SUITE 3
TERRYVILLE, CONNECTICUT 06786
860-589-9257

SHEET NO.
FP-1
SHEET 1 OF 3

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SIDE-A (STREET SIDE)

SIDE-C

SIDE-B

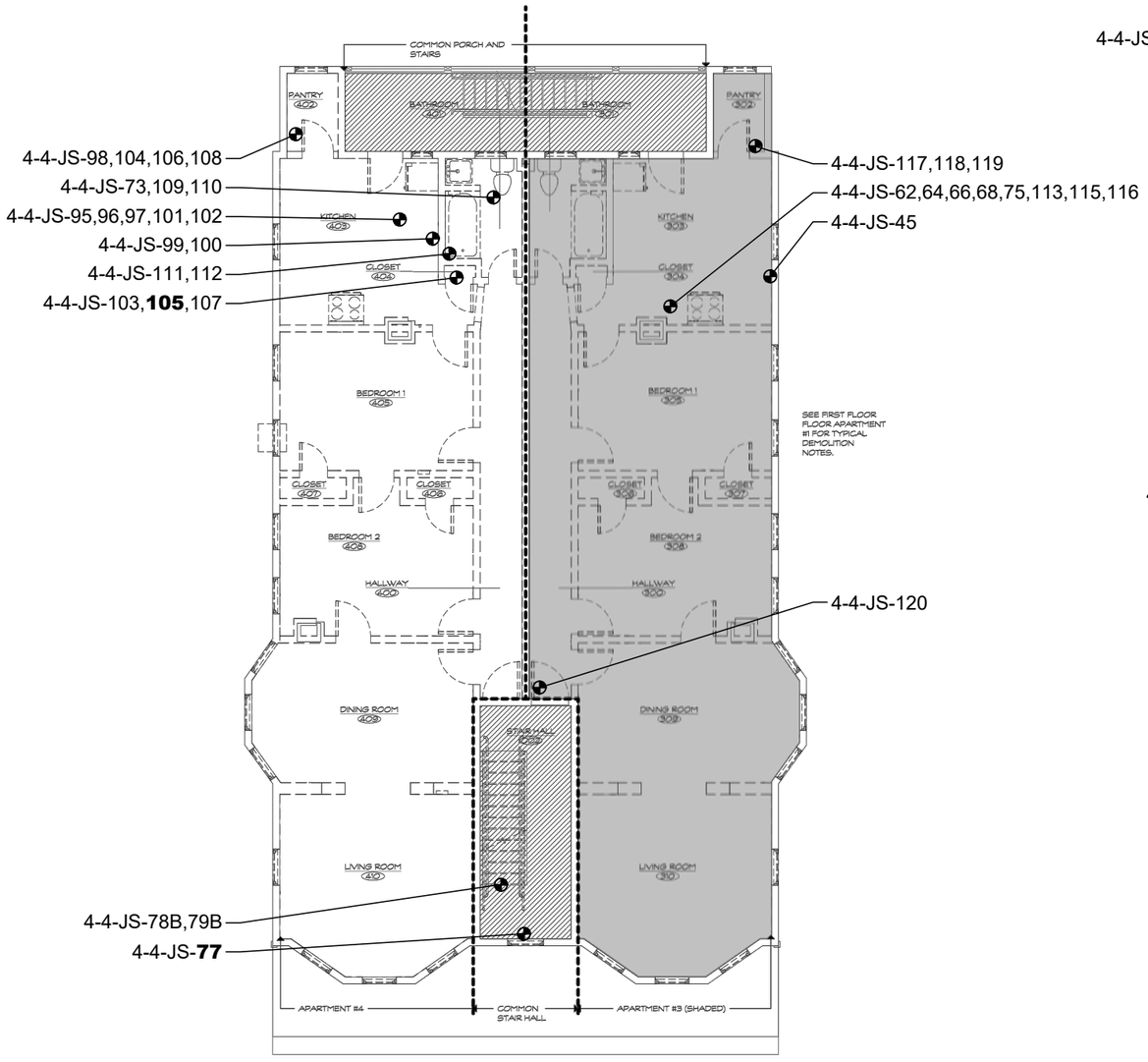
SIDE-D

SIDE-A (STREET SIDE)

SAMPLE KEY:

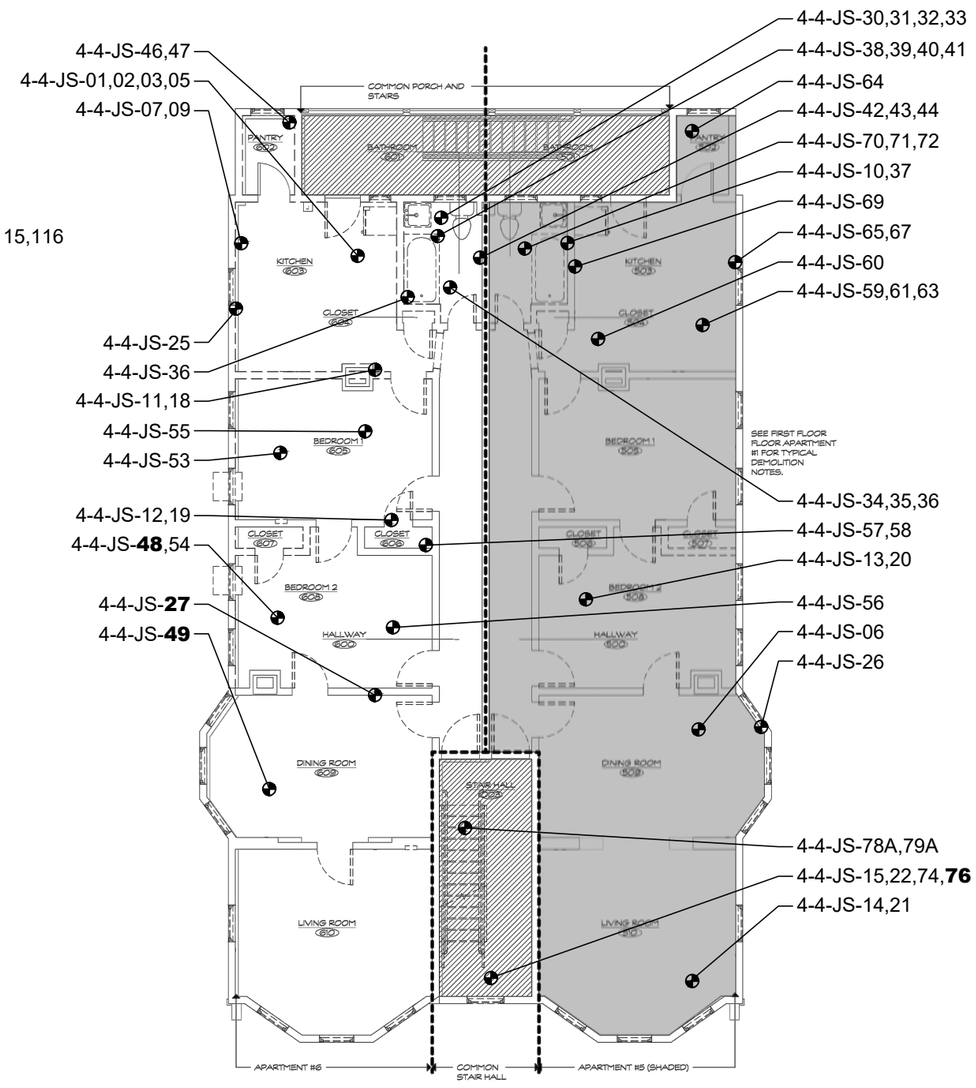
4-4-JS-## = ASBESTOS SAMPLE LOCATION AND NUMBER

BOLDED SAMPLE NUMBERS
INDICATE PRESENCE OF ASBESTOS IN CONCENTRATIONS GREATER THAN 1% WITHIN SAMPLE SET.



SECOND FLOOR

SCALE: 3/32" = 1'-0"



THIRD FLOOR

SCALE: 3/32" = 1'-0"

ASBESTOS-CONTAINING MATERIALS & LEAD-BASED PAINT INSPECTION
SILVER, PETRUCELLI & ASSOCIATES, INC.
1 HOLBROOK PLACE
ANSONIA, CONNECTICUT

PROJECT NO.: 22-084.10TI
DATE: 04/08/2022
DRAWN BY: BB
REVIEWED BY: AH

EAGLE Environmental, Inc.
8 SOUTH MAIN STREET, SUITE 3
TERRYVILLE, CONNECTICUT 06786
860-589-8257

SHEET NO.
FP-2
SHEET 2 OF 3

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SIDE-C

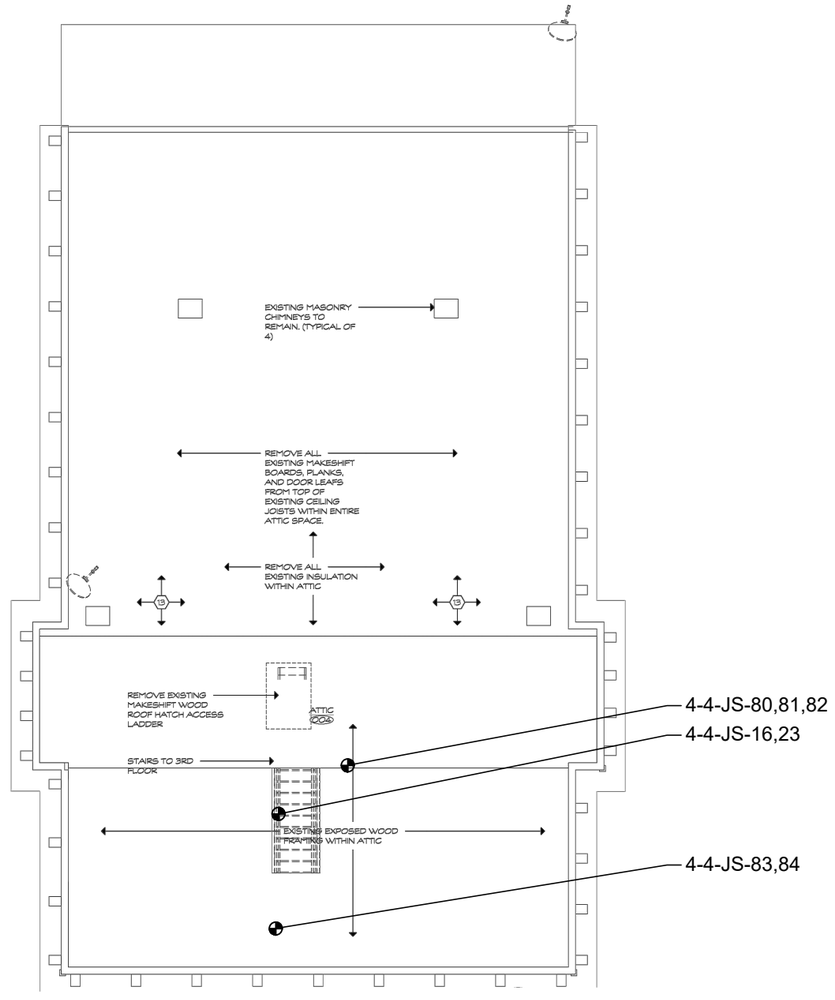
SIDE-B

SIDE-D

SAMPLE KEY:

4-4-JS-## = ASBESTOS SAMPLE LOCATION AND NUMBER

BOLDED SAMPLE NUMBERS
INDICATE PRESENCE OF ASBESTOS IN CONCENTRATIONS GREATER THAN 1% WITHIN SAMPLE SET.



ATTIC

SCALE: 3/32" = 1'-0"

SIDE-A (STREET SIDE)

ASBESTOS-CONTAINING MATERIALS & LEAD-BASED PAINT INSPECTION
SILVER, PETRUCELLI & ASSOCIATES, INC.
1 HOLBROOK PLACE
ANSONIA, CONNECTICUT

PROJECT NO.: 22-084.10TI
DATE: 04/08/2022
DRAWN BY: BB
REVIEWED BY: AH

EAGLE Environmental, Inc.
8 SOUTH MAIN STREET, SUITE 3
TERRYVILLE, CONNECTICUT 06786
860-589-9257

SHEET NO.
FP-3
SHEET 3 OF 3

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APPENDIX B

ASBESTOS BULK SAMPLE LABORATORY REPORTS

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E

Customer: Eagle Environmental, Inc
8 South Main Street
Suite 3
Terryville, CT 06786

Attn: Victoria Farkas
Brandy LeBlanc-Christen

Project: Silver Ppet-1 Holbrook PI-Ansonia

Lab Order ID: 71989353
Analysis ID: 71989353_PLM
Date Received: 4/6/2022
Date Reported: 4/13/2022

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
04-04-JS-01	Bottom layer SAFT - white rectangle, white backing	None Detected		100% Other	White Non Fibrous Homogeneous
71989353PLM_1					Dissolved
04-04-JS-02	Bottom layer SAFT - white rectangle, white backing	None Detected		100% Other	White Non Fibrous Homogeneous
71989353PLM_2					Dissolved
04-04-JS-03	Middle layer SAFT - wood pattern, grey backing	None Detected		100% Other	Gray Non Fibrous Homogeneous
71989353PLM_3					Dissolved
04-04-JS-04	Middle layer SAFT - wood pattern, grey backing	None Detected		100% Other	Gray Non Fibrous Homogeneous
71989353PLM_4					Dissolved
04-04-JS-05	Top layer SAFT - wood pattern, white backing	None Detected		100% Other	White Non Fibrous Homogeneous
71989353PLM_5					Dissolved
04-04-JS-06	Top layer SAFT - wood pattern, white backing	None Detected		100% Other	White Non Fibrous Homogeneous
71989353PLM_6					Dissolved
04-04-JS-07	Sheetrock	None Detected	15% Cellulose	85% Other	White Fibrous Homogeneous
71989353PLM_7					Crushed
04-04-JS-08	Sheetrock	None Detected	15% Cellulose	85% Other	White Fibrous Homogeneous
71989353PLM_8					Crushed

Charmel Dozier (139)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
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Customer: Eagle Environmental, Inc
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Analysis ID: 71989353_PLM
Date Received: 4/6/2022
Date Reported: 4/13/2022

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
04-04-JS-09	Joint compound - white	**None Detected**		**100% Other**	White Non Fibrous Homogeneous
71989353PLM_9					Crushed
04-04-JS-10	Joint compound - white	**None Detected**		**100% Other**	White Non Fibrous Homogeneous
71989353PLM_10					Crushed
04-04-JS-11	Plaster rough coat	**None Detected**		**100% Other**	Tan Non Fibrous Homogeneous
71989353PLM_11					Crushed
04-04-JS-12	Plaster rough coat	**None Detected**		**100% Other**	Tan Non Fibrous Homogeneous
71989353PLM_12					Crushed
04-04-JS-13	Plaster rough coat	**None Detected**		**100% Other**	Tan Non Fibrous Homogeneous
71989353PLM_13					Crushed
04-04-JS-14	NO SAMPLE	**Not Submitted**			
71989353PLM_14					
04-04-JS-15	NO SAMPLE	**Not Submitted**			
71989353PLM_15					
04-04-JS-16	Plaster rough coat	**None Detected**		**100% Other**	Tan Non Fibrous Homogeneous
71989353PLM_16					Crushed

Charmel Dozier (139)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
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Analysis ID: 71989353_PLM
Date Received: 4/6/2022
Date Reported: 4/13/2022

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
04-04-JS-17 *71989353PLM_17*	Plaster rough coat	**None Detected**		**100% Other**	Tan Non Fibrous Homogeneous Crushed
04-04-JS-18 *71989353PLM_18*	Plaster smooth coat	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed
04-04-JS-19 *71989353PLM_19*	Plaster smooth coat	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed
04-04-JS-20 *71989353PLM_20*	Plaster smooth coat	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed
04-04-JS-21 *71989353PLM_21*	NO SAMPLE	**Not Submitted**			
04-04-JS-22 *71989353PLM_22*	NO SAMPLE	**Not Submitted**			
04-04-JS-23 *71989353PLM_23*	Plaster smooth coat	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed
04-04-JS-24 *71989353PLM_24*	Plaster smooth coat	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed

Charmel Dozier (139)

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Lab Order ID: 71989353
Analysis ID: 71989353_PLM
Date Received: 4/6/2022
Date Reported: 4/13/2022

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
04-04-JS-25 / *71989353PLM_25*	Window caulk	None Detected		100% Other	White, Non Fibrous, Homogeneous / Dissolved
04-04-JS-26 / *71989353PLM_26*	Window caulk	None Detected		100% Other	White, Non Fibrous, Homogeneous / Dissolved
04-04-JS-27 / *71989353PLM_27*	Duct insulation paper - grey/white	50% Chrysotile	20% Cellulose	30% Other	Gray, Fibrous, Homogeneous / Teased
04-04-JS-28 / *71989353PLM_28*	Duct insulation paper - grey/white	Not Analyzed			
04-04-JS-29 / *71989353PLM_29*	Duct insulation paper - grey/white	Not Analyzed			
04-04-JS-30 / *71989353PLM_30*	NO SAMPLE	Not Submitted			
04-04-JS-31 / *71989353PLM_31*	NO SAMPLE	Not Submitted			
04-04-JS-32 / *71989353PLM_32*	Joint compound - Type 2 - yellow	None Detected		100% Other	Yellow, Non Fibrous, Homogeneous / Crushed

Charmel Dozier (139)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E

Customer: Eagle Environmental, Inc
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Lab Order ID: 71989353
Analysis ID: 71989353_PLM
Date Received: 4/6/2022
Date Reported: 4/13/2022

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
04-04-JS-33	Joint compound - Type 2 - yellow	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71989353PLM_33					Dissolved
04-04-JS-34	Bottom layer SAFT under plywood - white, white backing	None Detected		100% Other	White Non Fibrous Homogeneous
71989353PLM_34					Dissolved
04-04-JS-35	Bottom layer SAFT under plywood - white, white backing	None Detected		100% Other	White Non Fibrous Homogeneous
71989353PLM_35					Dissolved
04-04-JS-36	Bath caulk - white	None Detected		100% Other	White Non Fibrous Homogeneous
71989353PLM_36					Dissolved
04-04-JS-37	Bath caulk - white	None Detected		100% Other	White Non Fibrous Homogeneous
71989353PLM_37					Dissolved
04-04-JS-38	Tub surround adhesive - Type I - black	None Detected		100% Other	Black Non Fibrous Homogeneous
71989353PLM_38					Dissolved
04-04-JS-39	Tub surround adhesive - Type I - black	None Detected		100% Other	Black Non Fibrous Homogeneous
71989353PLM_39					Dissolved
04-04-JS-40	Tub surround adhesive - Type 2 - yellow	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71989353PLM_40					Dissolved

Charmel Dozier (139)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E

Customer: Eagle Environmental, Inc
8 South Main Street
Suite 3
Terryville, CT 06786

Attn: Victoria Farkas
Brandy LeBlanc-Christen

Project: Silver Ppet-1 Holbrook PI-Ansonia

Lab Order ID: 71989353
Analysis ID: 71989353_PLM
Date Received: 4/6/2022
Date Reported: 4/13/2022

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
04-04-JS-41	Tub surround adhesive - Type 2 - yellow	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71989353PLM_41					Dissolved
04-04-JS-42	4" Ceramic wall tile adhesive	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71989353PLM_42					Dissolved
04-04-JS-43	4" Ceramic wall tile adhesive	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71989353PLM_43					Dissolved
04-04-JS-44	4" Ceramic wall tile grout	None Detected		100% Other	White Non Fibrous Homogeneous
71989353PLM_44					Crushed, Dissolved
04-04-JS-45	4" Ceramic wall tile grout	None Detected		100% Other	White Non Fibrous Homogeneous
71989353PLM_45					Crushed, Dissolved
04-04-JS-46	Residual mastic under counter - black	None Detected	3% Cellulose	97% Other	Black Non Fibrous Homogeneous
71989353PLM_46					Dissolved
04-04-JS-47	Residual mastic under counter - black	None Detected	3% Cellulose	97% Other	Black Non Fibrous Homogeneous
71989353PLM_47					Dissolved
04-04-JS-48	Textured ceiling paint - small nodules	None Detected		100% Other	White Non Fibrous Homogeneous
71989353PLM_48					Dissolved

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Charmel Dozier (139)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E

Customer: Eagle Environmental, Inc
8 South Main Street
Suite 3
Terryville, CT 06786

Attn: Victoria Farkas
Brandy LeBlanc-Christen

Project: Silver Ppet-1 Holbrook PI-Ansonia

Lab Order ID: 71989353
Analysis ID: 71989353_PLM
Date Received: 4/6/2022
Date Reported: 4/13/2022

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
04-04-JS-49	Textured ceiling paint - small nodules	None Detected		100% Other	White Non Fibrous Homogeneous
71989353PLM_49					Dissolved
04-04-JS-50	Textured ceiling paint - small nodules	None Detected		100% Other	White Non Fibrous Homogeneous
71989353PLM_50					Dissolved
04-04-JS-51	Textured ceiling paint - small nodules	2% Chrysotile		98% Other	White Non Fibrous Homogeneous
71989353PLM_51					Dissolved
04-04-JS-52	Textured ceiling paint - small nodules	Not Analyzed			
71989353PLM_52					
04-04-JS-53	1' x 1' Acoustic ceiling tile on track	None Detected	97% Cellulose	3% Other	White Fibrous Homogeneous
71989353PLM_53					Teased
04-04-JS-54	1' x 1' Acoustic ceiling tile on track	None Detected	97% Cellulose	3% Other	White Fibrous Homogeneous
71989353PLM_54					Teased
04-04-JS-55	Residual carpet adhesive	None Detected		100% Other	Brown Non Fibrous Homogeneous
71989353PLM_55					Crushed, Dissolved
04-04-JS-56	Residual carpet adhesive	None Detected		100% Other	Brown Non Fibrous Homogeneous
71989353PLM_56					Crushed, Dissolved

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Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
04-04-JS-57	Paper backed linoleum - brown/beige, black backing	None Detected	30% Cellulose	70% Other	Brown, Black Fibrous Homogeneous
71989353PLM_57					Dissolved
04-04-JS-58	Paper backed linoleum - brown/beige, black backing	None Detected	30% Cellulose	70% Other	Brown, Black Fibrous Homogeneous
71989353PLM_58					Dissolved
04-04-JS-59	Btm lyr ppr bckd lnlm under plywd - grn w/gld glitter, blk bckg	None Detected	50% Cellulose	50% Other	Green, Black Fibrous Homogeneous
71989353PLM_59					Teased, Dissolved
04-04-JS-60	Btm lyr ppr bckd lnlm under plywd - grn w/gld glitter, blk bckg	None Detected	50% Cellulose	50% Other	Green, Black Fibrous Homogeneous
71989353PLM_60					Teased, Dissolved
04-04-JS-61	Floor tile mastic - yellow	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71989353PLM_61					Dissolved
04-04-JS-62	Floor tile mastic - yellow	None Detected		100% Other	Yellow Non Fibrous Homogeneous
71989353PLM_62					Dissolved
04-04-JS-63	Top layer 12" x 12" floor tile - beige with brown specks	None Detected		100% Other	Beige Non Fibrous Homogeneous
71989353PLM_63					Dissolved
04-04-JS-64	Top layer 12" x 12" floor tile - beige with brown specks	None Detected		100% Other	Beige Non Fibrous Homogeneous
71989353PLM_64					Dissolved

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Lab Order ID: 71989353
Analysis ID: 71989353_PLM
Date Received: 4/6/2022
Date Reported: 4/13/2022

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
04-04-JS-65	Vinyl cove base adhesive - cream	**None Detected**		**100% Other**	Cream Non Fibrous Homogeneous
71989353PLM_65					Dissolved
04-04-JS-66	NO SAMPLE	**Not Submitted**			
71989353PLM_66					
04-04-JS-67	4" Vinyl cove base - white	**None Detected**		**100% Other**	White Non Fibrous Homogeneous
71989353PLM_67					Dissolved
04-04-JS-68	NO SAMPLE	**Not Submitted**			
71989353PLM_68					
04-04-JS-69	Sink undercoating tar patch	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous
71989353PLM_69					Dissolved
04-04-JS-70	Bottom layer self adhesive floor tile - yellow, white backing	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
71989353PLM_70					Dissolved
04-04-JS-71	Bottom layer self adhesive floor tile - yellow, white backing	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
71989353PLM_71					Dissolved
04-04-JS-72	Top layer self adhesive floor tile - grey/blue, black/grey bkng	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous
71989353PLM_72					Dissolved

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Project: Silver Ppet-1 Holbrook PI-Ansonia

Lab Order ID: 71989353
Analysis ID: 71989353_PLM
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Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
04-04-JS-73 *71989353PLM_73*	Top layer self adhesive floor tile - grey/blue, black/grey bkng	None Detected		100% Other	Gray Non Fibrous Homogeneous Dissolved
04-04-JS-74 *71989353PLM_74*	9" x 9" Floor tile mastic/paper - black	None Detected	50% Cellulose	50% Other	Black Fibrous Homogeneous Dissolved
04-04-JS-75 *71989353PLM_75*	9" x 9" Floor tile mastic/paper - black	None Detected	70% Cellulose	30% Other	Black Fibrous Homogeneous Dissolved
04-04-JS-76 *71989353PLM_76*	9" x 9" Floor tile - tan with white and red streaks	3% Chrysotile		97% Other	Tan Non Fibrous Homogeneous Dissolved
04-04-JS-77 *71989353PLM_77*	9" x 9" Floor tile - tan with white and red streaks	Not Analyzed			
04-04-JS-78A *71989353PLM_78*	Vinyl stair tread adhesive - brown	None Detected		100% Other	Brown Non Fibrous Homogeneous Dissolved
04-04-JS-78B *71989353PLM_79*	Vinyl stair tread adhesive - brown	None Detected		100% Other	Brown Non Fibrous Homogeneous Dissolved
04-04-JS-79A *71989353PLM_80*	Vinyl stair tread - black	None Detected	2% Synthetic Fibers	98% Other	Black Non Fibrous Homogeneous Ashed

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Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
04-04-JS-79B	Vinyl stair tread - black	None Detected	2% Synthetic Fibers	98% Other	Black Non Fibrous Homogeneous
71989353PLM_81					Ashed
04-04-JS-80	Celluose attic insulation	None Detected	98% Cellulose	2% Other	Gray Fibrous Homogeneous
71989353PLM_82					Teased
04-04-JS-81	Celluose attic insulation	None Detected	98% Cellulose	2% Other	Tan Fibrous Homogeneous
71989353PLM_83					Teased
04-04-JS-82	NO SAMPLE	Not Submitted			
71989353PLM_84					
04-04-JS-83	Stored paper backed linoleum floor roll - tan, black backing	None Detected	50% Cellulose	50% Other	Tan, Black Fibrous Homogeneous
71989353PLM_85					Teased, Dissolved
04-04-JS-84	Stored paper backed linoleum floor roll - tan, black backing	None Detected	50% Cellulose	50% Other	Tan, Black Fibrous Homogeneous
71989353PLM_86					Teased, Dissolved
04-04-JS-85	Flue cement - Type I - white	None Detected	20% Wollastonite	80% Other	White Non Fibrous Homogeneous
71989353PLM_87					Crushed
04-04-JS-86	Flue cement - Type I - white	None Detected	20% Wollastonite	80% Other	White Non Fibrous Homogeneous
71989353PLM_88					Crushed

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Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
04-04-JS-87 *71989353PLM_89*	Flue cement - Type 2 - grey	None Detected	10% Wollastonite	90% Other	Gray Non Fibrous Homogeneous Crushed
04-04-JS-88 *71989353PLM_90*	Flue cement - Type 2 - grey	None Detected	10% Wollastonite	90% Other	Gray Non Fibrous Homogeneous Crushed
04-04-JS-89 *71989353PLM_91*	Flue cement - Type 3 - tan	None Detected	10% Wollastonite	90% Other	Tan Non Fibrous Homogeneous Crushed
04-04-JS-90 *71989353PLM_92*	Flue cement - Type 3 - tan	None Detected	10% Wollastonite	90% Other	Tan Non Fibrous Homogeneous Crushed
04-04-JS-91 *71989353PLM_93*	Vapor barrier on sub floor	None Detected	95% Cellulose	5% Other	Brown Fibrous Homogeneous Teased
04-04-JS-92 *71989353PLM_94*	Vapor barrier on sub floor	None Detected	95% Cellulose	5% Other	Brown Fibrous Homogeneous Teased
04-04-JS-93 *71989353PLM_95*	Exterior window caulk	None Detected		100% Other	White Non Fibrous Homogeneous Dissolved
04-04-JS-94 *71989353PLM_96*	Exterior window caulk	None Detected		100% Other	White Non Fibrous Homogeneous Dissolved

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Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
04-04-JS-95 *71989353PLM_97*	Self adhesive floor tile adhesive - grey	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
04-04-JS-96 *71989353PLM_98*	Self adhesive floor tile adhesive - grey	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
04-04-JS-97 *71989353PLM_99*	2nd Layer self adhesive floor tile - black, grey backing	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Dissolved
04-04-JS-98 *71989353PLM_100*	2nd Layer self adhesive floor tile - black, grey backing	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Dissolved
04-04-JS-99 *71989353PLM_101*	Sink undercoating - grey	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Dissolved
04-04-JS-100 *71989353PLM_102*	Sink undercoating - grey	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Dissolved
04-04-JS-101 *71989353PLM_103*	1' x 1' Acoustic ceiling tile on track - Type 2	**None Detected**	**50% Cellulose** **25% Mineral Wool**	**25% Other**	White Fibrous Homogeneous Teased
04-04-JS-102 *71989353PLM_104*	NO SAMPLE	**Not Submitted**			

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Lab Order ID: 71989353
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Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
04-04-JS-103 *71989353PLM_105*	Floor tile mastic on wood - black	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Dissolved
04-04-JS-104A *71989353PLM_106*	Floor tile mastic on wood - black	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Dissolved
04-04-JS-104B *71989353PLM_107*	Floor tile mastic on wood - black	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Dissolved
04-04-JS-105 *71989353PLM_108*	Bottom layer floor tile - beige with blue	**3% Chrysotile**		**97% Other**	Beige Non Fibrous Homogeneous Dissolved
04-04-JS-106 *71989353PLM_109*	Bottom layer floor tile - beige with blue	**Not Analyzed**			
04-04-JS-107 *71989353PLM_110*	Layered linoleum flooring	**None Detected**	**20% Fiber Glass**	**80% Other**	White Fibrous Homogeneous Teased, Dissolved
04-04-JS-108 *71989353PLM_111*	Layered linoleum flooring	**None Detected**	**20% Cellulose** **10% Fiber Glass**	**70% Other**	White Fibrous Homogeneous Teased, Dissolved
04-04-JS-109 *71989353PLM_112*	Top layer self adhesive floor tile - grey	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous Dissolved

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Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
04-04-JS-110	Top layer self adhesive floor tile - grey	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous
71989353PLM_113					Dissolved
04-04-JS-111	Bath caulk - Type 2 - yellow	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
71989353PLM_114					Dissolved
04-04-JS-112	Bath caulk - Type 2 - yellow	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous
71989353PLM_115					Dissolved
04-04-JS-113	Middle layer floor tile - thin - cream, white backing	**None Detected**		**100% Other**	Cream Non Fibrous Homogeneous
71989353PLM_116					Dissolved
04-04-JS-114	Middle layer floor tile - thin - cream, white backing	**None Detected**		**100% Other**	Cream Non Fibrous Homogeneous
71989353PLM_117					Dissolved
04-04-JS-115	Middle layer self adhesive floor tile - black backing	**None Detected**		**100% Other**	White, Black Non Fibrous Homogeneous
71989353PLM_118					Dissolved
04-04-JS-116	Middle layer self adhesive floor tile - black backing	**None Detected**		**100% Other**	White, Black Non Fibrous Homogeneous
71989353PLM_119					Dissolved
04-04-JS-117	Self adhesive floor tile - cream	**None Detected**		**100% Other**	Cream Non Fibrous Homogeneous
71989353PLM_120					Dissolved

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Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
04-04-JS-118	Self adhesive floor tile - cream	**None Detected**		**100% Other**	Cream Non Fibrous Homogeneous
71989353PLM_121					Dissolved
04-04-JS-119	Self adhesive floor tile - beige and brown diamonds	**None Detected**		**100% Other**	Beige, Brown Non Fibrous Homogeneous
71989353PLM_122					Dissolved
04-04-JS-120	Self adhesive floor tile - beige and brown diamonds	**None Detected**		**100% Other**	Beige, Brown Non Fibrous Homogeneous
71989353PLM_123					Dissolved
04-04-JS-121	12" x 12" Floor tile - thin - red	**3% Chrysotile**		**97% Other**	Red Non Fibrous Homogeneous
71989353PLM_124					Dissolved
04-04-JS-122	12" x 12" Floor tile - thin - red	**Not Analyzed**			
71989353PLM_125					
04-04-JS-123	Self adhesive floor tile - thick - plank pattern	**None Detected**		**100% Other**	Gray Non Fibrous Homogeneous
71989353PLM_126					Dissolved
04-04-JS-124	NO SAMPLE	**Not Submitted**			
71989353PLM_127					
04-04-JS-125	4' x 2' Acoustic ceiling tile	**None Detected**	**50% Cellulose** **25% Mineral Wool**	**25% Other**	White Fibrous Homogeneous
71989353PLM_128					Teased

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Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
04-04-JS-126 *71989353PLM_129*	4' x 2' Acoustic ceiling tile	**None Detected**	**50% Cellulose** **25% Mineral Wool**	**25% Other**	White Fibrous Homogeneous Teased
04-04-JS-127 *71989353PLM_130*	12" x 12" Floor tile - brown	**5% Chrysotile**		**95% Other**	Brown Non Fibrous Homogeneous Dissolved
04-04-JS-128 *71989353PLM_131*	12" x 12" Floor tile - brown	**Not Analyzed**			
04-04-JS-129 *71989353PLM_132*	Carpet adhesive - green	**None Detected**		**100% Other**	Green Non Fibrous Homogeneous Dissolved
04-04-JS-130 *71989353PLM_133*	Carpet adhesive - green	**None Detected**		**100% Other**	Green Non Fibrous Homogeneous Dissolved
04-04-JS-131 *71989353PLM_134*	Layered self adhesive floor tile	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Dissolved
04-04-JS-132 *71989353PLM_135*	Layered self adhesive floor tile	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Dissolved
04-04-JS-133 *71989353PLM_136*	Textured ceiling paint - Type 2 - blotch pattern	**None Detected**		**100% Other**	White Non Fibrous Homogeneous Crushed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	*Lab Notes*				Treatment
04-04-JS-134	Textured ceiling paint - Type 2 - blotch pattern	None Detected		100% Other	White Non Fibrous Homogeneous
71989353PLM_137					Crushed
04-04-JS-135	Textured ceiling paint - Type 2 - blotch pattern	None Detected		100% Other	White Non Fibrous Homogeneous
71989353PLM_138					Crushed
04-04-JS-136	Cementituous wall coating	Not Submitted			
71989353PLM_139					

Charmel Dozier (139)

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71989353

Client:	Eagle Environmental, Inc.
Contact:	Victoria Farkas, Brandy Christen
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Phone:	860-589-8257
Fax:	860-585-7034
Email:	vfarkas@eagleenviro.com bleblanc@eagleenviro.com
Project:	Silver Pet - 1 Holbrook Pl - Ansonia
Client Notes:	Please stop on first positive in sets Please do not split samples
P.O. #.	22-084.10T1
Date Submitted:	4/6/2022 0:00
Analysis:	PLM
TurnAroundTime:	5 Day

Instructions:
Use Column "B" for your contact info

To See an Example Click the bottom Example Tab.

Enter samples between "<<" and ">>"
Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.
Only Enter your data on the first sheet "Sheet1"

Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.

Scientific Analytical Institute

4604 Dundas Drive
Greensboro, NC 27407
Phone: 336.292.3888
Fax: 336.292.3313
Email: lab@sailab.com

Sample Number	Data 1	Sample Description	Data 2
<<			
04-04-JS-01		Bottom layer SAFT - white rectangle, white backing JSel	Unit 6 - 3-603
04-04-JS-02		Bottom layer SAFT - white rectangle, white backing JSel	Unit 6 - 3-603
04-04-JS-03		Middle layer SAFT - wood pattern, grey backing JSel	Unit 6 - 3-603
04-04-JS-04		Middle layer SAFT - wood pattern, grey backing JSel	Unit 1 - 1-101
04-04-JS-05		Top layer SAFT - wood pattern, white backing JSel	Unit 6 - 3-603
04-04-JS-06		Top layer SAFT - wood pattern, white backing JSel	Unit 5- 3-509
04-04-JS-07		Sheetrock JSel	Unit 6 - 3-603
04-04-JS-08		Sheetrock JSel	Unit 2 - 1-201
04-04-JS-09		Joint compound - white JSel	Unit 6 - 3-603
04-04-JS-10		Joint compound - white JSel	Unit 5- 3-501

Accepted ☑

Rejected ☐

10 samples

J. Sykes 4-6 10:30am

Relinquished By

Received By

04-04-JS-11		Plaster rough coat	Unit 6 - 3-603
04-04-JS-12		Plaster rough coat	Unit 6 - 3-~~606~~ 603
04-04-JS-13		Plaster rough coat	Unit 5- 3-506
04-04-JS-14		NO SAMPLE	
04-04-JS-15		NO SAMPLE	
04-04-JS-16		Plaster rough coat	Attic
04-04-JS-17		Plaster rough coat	Unit 1 - 103
04-04-JS-18		Plaster smooth coat	Unit 6 - 3-603
04-04-JS-19		Plaster smooth coat	Unit 6 - 3-~~606~~ 603
04-04-JS-20		Plaster smooth coat	Unit 5- 3-506
04-04-JS-21		NO SAMPLE	
04-04-JS-22		NO SAMPLE	
04-04-JS-23		Plaster smooth coat	Attic
04-04-JS-24		Plaster smooth coat	Unit 1 - 103
04-04-JS-25		Window caulk	Unit 6 - 3-603
04-04-JS-26		Window caulk	Unit 5- 3-509
04-04-JS-27		Duct insulation paper - grey/white	Unit 6 - 3-609
04-04-JS-28		Duct insulation paper - grey/white	Basement
04-04-JS-29		Duct insulation paper - grey/white	Basement
04-04-JS-30		NO SAMPLE	
04-04-JS-31		NO SAMPLE	
04-04-JS-32		Joint compound - Type 2 - yellow	Unit 6 - 3-601
04-04-JS-33		Joint compound - Type 2 - yellow	Unit 6 - 3-601
04-04-JS-34		Bottom layer SAFT under plywood - white, white backing	Unit 6 - 3-601
04-04-JS-35		Bottom layer SAFT under plywood - white, white backing	Unit 6 - 3-601
04-04-JS-36		Bath caulk - white	Unit 6 - 3-601
04-04-JS-37		Bath caulk - white	Unit 5- 3-501
04-04-JS-38		Tub surround adhesive - Type I - black	Unit 6 - 3-601
04-04-JS-39		Tub surround adhesive - Type I - black	Unit 6 - 3-601
04-04-JS-40		Tub surround adhesive - Type 2 - yellow	Unit 6 - 3-601
04-04-JS-41		Tub surround adhesive - Type 2 - yellow	Unit 6 - 3-601
04-04-JS-42		4" Ceramic wall tile adhesive	Unit 6 - 3-601
04-04-JS-43		4" Ceramic wall tile adhesive	Unit 6 - 3-601
04-04-JS-44		4" Ceramic wall tile grout	Unit 6 - 3-601
04-04-JS-45		4" Ceramic wall tile grout	Unit 3 - 2-303
04-04-JS-46		Residual mastic under counter - black	Unit 6 - 3-602
04-04-JS-47		Residual mastic under counter - black	Unit 6 - 3-602

Relinquished By

Received By

04-04-JS-48		Textured ceiling paint - small nodules	Unit 6 - 3-608
04-04-JS-49		Textured ceiling paint - small nodules	Unit 6 - 3-609
04-04-JS-50		Textured ceiling paint - small nodules	Unit 2 - 1-207
04-04-JS-51		Textured ceiling paint - small nodules	Unit 2 - 1-208
04-04-JS-52		Textured ceiling paint - small nodules	Unit 2 - 1-209
04-04-JS-53		1' x 1' Acoustic ceiling tile on track	Unit 6 - 3-~~606~~ 605
04-04-JS-54		1' x 1' Acoustic ceiling tile on track	Unit 6 - 3-608
04-04-JS-55		Residual carpet adhesive	Unit 6 - 3-~~606~~ 605
04-04-JS-56		Residual carpet adhesive	Unit 6 - 3-608
04-04-JS-57		Paper backed linoleum - brown/beige, black backing	Unit 6 - 3-606
04-04-JS-58		Paper backed linoleum - brown/beige, black backing	Unit 6 - 3-606
04-04-JS-59		Btm lyr ppr bckd lnlm under plywd - grn w/gld glitter, blk bckg	Unit 5- 3-503
04-04-JS-60		Btm lyr ppr bckd lnlm under plywd - grn w/gld glitter, blk bckg	Unit 5- 3-503
04-04-JS-61		Floor tile mastic - yellow	Unit 5- 3-503
04-04-JS-62		Floor tile mastic - yellow	Unit 3 - 2-303
04-04-JS-63		Top layer 12" x 12" floor tile - beige with brown specks	Unit 5- 3-503
04-04-JS-64		Top layer 12" x 12" floor tile - beige with brown specks	Unit 3 - 2-303
04-04-JS-65		Vinyl cove base adhesive - cream	Unit 5- 3-503
04-04-JS-66		NO SAMPLE	
04-04-JS-67		4" Vinyl cove base - white	Unit 5- 3-503
04-04-JS-68		NO SAMPLE	
04-04-JS-69		Sink undercoating tar patch	Unit 5- 3-503
04-04-JS-70		Bottom layer self adhesive floor tile - yellow, white backing	Unit 5- 3-501
04-04-JS-71		Bottom layer self adhesive floor tile - yellow, white backing	Unit 5- 3-501
04-04-JS-72		Top layer self adhesive floor tile - grey/blue, black/grey bkng	Unit 5- 3-501
04-04-JS-73		Top layer self adhesive floor tile - grey/blue, black/grey bkng	Unit 4 - 2-401
04-04-JS-74		9" x 9" Floor tile mastic/paper - black	Front Stair
04-04-JS-75		9" x 9" Floor tile mastic/paper - black	Unit 3 - 2-303
04-04-JS-76		9" x 9" Floor tile - tan with white and red streaks	Front Stair
04-04-JS-77		9" x 9" Floor tile - tan with white and red streaks	Front Stair
04-04-JS-78A		Vinyl stair tread adhesive - brown	Front Stair
04-04-JS-78B		Vinyl stair tread adhesive - brown	Front Stair
04-04-JS-79A		Vinyl stair tread - black	Front Stair
04-04-JS-79B		Vinyl stair tread - black	Front Stair
04-04-JS-80		Celluose attic insulation	Attic
04-04-JS-81		Celluose attic insulation	Attic
04-04-JS-82		NO SAMPLE	
04-04-JS-83		Stored paper backed linoleum floor roll - tan, black backing	Attic
04-04-JS-84		Stored paper backed linoleum floor roll - tan, black backing	Attic

Relinquished By

Received By

04-04-JS-85		Flue cement - Type I - white	Basement
04-04-JS-86		Flue cement - Type I - white	Basement
04-04-JS-87		Flue cement - Type 2 - grey	Basement
04-04-JS-88		Flue cement - Type 2 - grey	Basement
04-04-JS-89		Flue cement - Type 3 - tan	Basement
04-04-JS-90		Flue cement - Type 3 - tan	Basement
04-04-JS-91		Vapor barrier on sub floor	Unit 1 - 1-103-Stair
04-04-JS-92		Vapor barrier on sub floor	Front Stair
04-04-JS-93		Exterior window caulk	Exterior - Façade B
04-04-JS-94		Exterior window caulk	Exterior - Façade B
04-04-JS-95		Self adhesive floor tile adhesive - grey	Unit 4 - 2-403
04-04-JS-96		Self adhesive floor tile adhesive - grey	Unit 4 - 2-403
04-04-JS-97		2nd Layer self adhesive floor tile - black, grey backing	Unit 4 - 2-403
04-04-JS-98		2nd Layer self adhesive floor tile - black, grey backing	Unit 4 - 2-402
04-04-JS-99		Sink undercoating - grey	Unit 4 - 2-403
04-04-JS-100		Sink undercoating - grey	Unit 4 - 2-403
04-04-JS-101		1' x 1' Acoustic ceiling tile on track - Type 2	Unit 4 - 2-403
04-04-JS-102		NO SAMPLE	
04-04-JS-103		Floor tile mastic on wood - black	Unit 4 - 2-404
04-04-JS-104A		Floor tile mastic on wood - black	Unit 4 - 2-402
04-04-JS-104B		Floor tile mastic on wood - black	Unit 2 - 1-203
04-04-JS-105		Bottom layer floor tile - beige with blue	Unit 4 - 2-404
04-04-JS-106		Bottom layer floor tile - beige with blue	Unit 4 - 2-402
04-04-JS-107		Layered linoleum flooring	Unit 4 - 2-404
04-04-JS-108		Layered linoleum flooring	Unit 4 - 2-402
04-04-JS-109		Top layer self adhesive floor tile - grey	Unit 4 - 2-401
04-04-JS-110		Top layer self adhesive floor tile - grey	Unit 4 - 2-401
04-04-JS-111		Bath caulk - Type 2 - yellow	Unit 4 - 2-401
04-04-JS-112		Bath caulk - Type 2 - yellow	Unit 4 - 2-401
04-04-JS-113		Middle layer floor tile - thin - cream, white backing	Unit 3 - 2-303
04-04-JS-114		Middle layer floor tile - thin - cream, white backing	Unit 1 - 1-101
04-04-JS-115		Middle layer self adhesive floor tile - black backing	Unit 3 - 2-303
04-04-JS-116		Middle layer self adhesive floor tile - black backing	Unit 3 - 2-303
04-04-JS-117		Self adhesive floor tile - cream	Unit 3 - 2-302
04-04-JS-118		Self adhesive floor tile - cream	Unit 3 - 2-302
04-04-JS-119		Self adhesive floor tile - beige and brown diamonds	Unit 3 - 2-302
04-04-JS-120		Self adhesive floor tile - beige and brown diamonds	Unit 3 - 2-300
04-04-JS-121		12" x 12" Floor tile - thin - red	Unit 2 - 1-203
04-04-JS-122		12" x 12" Floor tile - thin - red	Unit 2 - 1-202
04-04-JS-123		Self adhesive floor tile - thick - plank pattern	Unit 2 - 1-201

Relinquished By

Received By

04-04-JS-124		NO SAMPLE	
04-04-JS-125		4' x 2' Acoustic ceiling tile) set	Unit 2 - 1-201
04-04-JS-126		4' x 2' Acoustic ceiling tile	Unit 2 - 1-~~207~~ 204
04-04-JS-127		12" x 12" Floor tile - brown) set	Unit 2 - 1-~~207~~ 202
04-04-JS-128		12" x 12" Floor tile - brown	Unit 2 - 1-~~207~~ 205
04-04-JS-129		Carpet adhesive - green) set	Unit 2 - 1-200
04-04-JS-130		Carpet adhesive - green	Unit 2 - 1-200
04-04-JS-131		Layered self adhesive floor tile) set	Unit 1 - 1-~~107~~ 105
04-04-JS-132		Layered self adhesive floor tile	Unit 1 - 1-~~107~~ 105
04-04-JS-133		Textured ceiling paint - Type 2 - blotch pattern) set	Unit 1 - 1-110
04-04-JS-134		Textured ceiling paint - Type 2 - blotch pattern	Unit 1 - 1-110
04-04-JS-135		Textured ceiling paint - Type 2 - blotch pattern	Unit 1 - 1-101
04-04-JS-136		Cementituous wall coating	Basement

>>

Relinquished By

Received By

APPENDIX C

XRF LEAD-BASED PAINT INSPECTION REPORTS

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#01364 - 04/04/22 14:37

INSPECTION FOR: Mr. William Silver
Silver/Petrucelli & Associates
3190 Whitney Avenue, Building 2
Hamden, Connecticut 06518

PERFORMED AT: 1 Holbrook Place
Apartment #1 (1st Floor, Right Side)
Ansonia, Connecticut

INSPECTION DATE: 04/04/22

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 01364

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: 002300

Lead-Based Paint Testing of Select Components

SIGNED: _____ **Date:** 04/04/2022

Jake Cyr
Lead Inspector/Risk Assessor
Eagle Environmental, Inc.
8 South Main Street, Suite #3
Terryville, Connecticut 06786

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. William Silver

Inspection Date:	04/04/22	1 Holbrook Place
Report Date:	4/4/2022	Apartment #1 (1st Floor, Right Side)
Abatement Level:	1.0	Ansonia, Connecticut
Report No.	S#01364 - 04/04/22 14:37	
Total Readings:	7 Actionable: 4	
Job Started:	04/04/22 14:37	
Job Finished:	04/04/22 14:49	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 001 1-102									
004	A	Wall	-		D	Plaster	white	4.1	QM
005	B	Wall	-		D	Plaster	white	4.4	QM
006	C	Wall	-		D	Plaster	white	3.5	QM
007	D	Wall	-		D	Plaster	white	3.1	QM
Calibration Readings									

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. William Silver

Inspection Date:	04/04/22	1 Holbrook Place
Report Date:	4/4/2022	Apartment #1 (1st Floor, Right Side)
Abatement Level:	1.0	Ansonia, Connecticut
Report No.	S#01364 - 04/04/22 14:37	
Total Readings:	7	
Job Started:	04/04/22 14:37	
Job Finished:	04/04/22 14:49	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 001 1-102									
004	A	Wall	-		D	Plaster	white	4.1	QM
005	B	Wall	-		D	Plaster	white	4.4	QM
006	C	Wall	-		D	Plaster	white	3.5	QM
007	D	Wall	-		D	Plaster	white	3.1	QM
Calibration Readings									
001								1.0	TC
002								1.1	TC
003								1.1	TC

---- End of Readings ----

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#01364 - 04/04/22 14:50

INSPECTION FOR: Mr. William Silver
Silver/Petrucelli & Associates
3190 Whitney Avenue, Building 2
Hamden, Connecticut 06518

PERFORMED AT: 1 Holbrook Place
Apartment #2 (1st Floor, Left Side)
Ansonia, Connecticut

INSPECTION DATE: 04/04/22

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 01364

ACTION LEVEL: 1.0 mg/cm^2

OPERATOR LICENSE: 002300

Lead-Based Paint Testing of Select Components

SIGNED: _____ **Date:** 04/04/2022

Jake Cyr
Lead Inspector/Risk Assessor
Eagle Environmental, Inc.
8 South Main Street, Suite #3
Terryville, Connecticut 06786

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. William Silver

Inspection Date:	04/04/22	1 Holbrook Place
Report Date:	4/4/2022	Apartment #2 (1st Floor, Left Side)
Abatement Level:	1.0	Ansonia, Connecticut
Report No.	S#01364 - 04/04/22 14:50	
Total Readings:	10 Actionable: 4	
Job Started:	04/04/22 14:50	
Job Finished:	04/04/22 15:08	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 001 1-202									
004	A	Wall	-		D	Plaster	white	1.7	QM
005	B	Wall	-		D	Plaster	white	1.7	QM
006	C	Wall	-		D	Plaster	white	1.9	QM
007	D	Wall	-		D	Plaster	white	1.9	QM
Calibration Readings									

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. William Silver

Inspection Date:	04/04/22	1 Holbrook Place
Report Date:	4/4/2022	Apartment #2 (1st Floor, Left Side)
Abatement Level:	1.0	Ansonia, Connecticut
Report No.	S#01364 - 04/04/22 14:50	
Total Readings:	10	
Job Started:	04/04/22 14:50	
Job Finished:	04/04/22 15:08	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 001 1-202									
004	A	Wall	-		D	Plaster	white	1.7	QM
005	B	Wall	-		D	Plaster	white	1.7	QM
006	C	Wall	-		D	Plaster	white	1.9	QM
007	D	Wall	-		D	Plaster	white	1.9	QM
Calibration Readings									
001								1.1	TC
002								1.0	TC
003								1.0	TC
008								1.0	TC
009								1.0	TC
010								0.9	TC

---- End of Readings ----

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#01364 - 04/04/22 14:06

INSPECTION FOR: Mr. William Silver
Silver/Petrucelli & Associates
3190 Whitney Avenue, Building 2
Hamden, Connecticut 06518

PERFORMED AT: 1 Holbrook Place
Apartment #3 (2nd Floor, Right Side)
Ansonia, Connecticut

INSPECTION DATE: 04/04/22

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 01364

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: 002300

Lead-Based Paint Testing of Select Components

SIGNED: _____ **Date:** 04/04/2022

Jake Cyr
Lead Inspector/Risk Assessor
Eagle Environmental, Inc.
8 South Main Street, Suite #3
Terryville, Connecticut 06786

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. William Silver

Inspection Date:	04/04/22	1 Holbrook Place
Report Date:	4/4/2022	Apartment #3 (2nd Floor, Right Side)
Abatement Level:	1.0	Ansonia, Connecticut
Report No.	S#01364 - 04/04/22 14:06	
Total Readings:	23 Actionable: 8	
Job Started:	04/04/22 14:06	
Job Finished:	04/04/22 14:36	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 001 2-300									
004	B	Wall	-		D	Plaster	tan	2.0	QM
005	D	Wall	-		D	Plaster	tan	2.5	QM
Interior Room 002 2-301									
008	C	Wall	U -		D	Plaster	white	3.2	QM
Interior Room 003 2-302									
011	-	Ceiling	-		D	Plaster	white	5.4	QM
023	A	Wall	-		D	Plaster	tan	3.4	QM
012	B	Wall	-		D	Plaster	tan	3.5	QM
013	C	Wall	-		D	Plaster	tan	3.4	QM
Interior Room 004 2-303									
018	A	Wall	U -		D	Plaster	white	4.6	QM
Calibration Readings									

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. William Silver

Inspection Date:	04/04/22	1 Holbrook Place
Report Date:	4/4/2022	Apartment #3 (2nd Floor, Right Side)
Abatement Level:	1.0	Ansonia, Connecticut
Report No.	S#01364 - 04/04/22 14:06	
Total Readings:	23	
Job Started:	04/04/22 14:06	
Job Finished:	04/04/22 14:36	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 001 2-300									
004	B	Wall	-		D	Plaster	tan	2.0	QM
006	B	Baseboard	-		D	Wood	white	-0.1	QM
005	D	Wall	-		D	Plaster	tan	2.5	QM
007	D	Baseboard	-		D	Wood	white	0.0	QM
Interior Room 002 2-301									
008	C	Wall	U -		D	Plaster	white	3.2	QM
009	C	Wall	-	Cap	D	Wood	white	-0.1	QM
010	C	Wall	L -		D	Wood	white	0.0	QM
Interior Room 003 2-302									
011	-	Ceiling	-		D	Plaster	white	5.4	QM
014	A	Shelf Supp.	-		D	Wood	white	0.0	QM
023	A	Wall	-		D	Plaster	tan	3.4	QM
015	A	Door	-	casing	D	Wood	white	-0.1	QM
016	A	Door	-	jamb	D	Wood	white	0.0	QM
017	A	Door	-	stop	D	Wood	white	-0.1	QM
012	B	Wall	-		D	Plaster	tan	3.5	QM
013	C	Wall	-		D	Plaster	tan	3.4	QM
Interior Room 004 2-303									
018	A	Wall	U -		D	Plaster	white	4.6	QM
019	A	Wall	-	Cap	D	Wood	white	0.0	QM
020	A	Wall	L -		D	Wood	white	0.3	QM
021	A	Wall	U -		D	Ceramic	white	-0.1	QM
022	A	Wall	-	Molding	D	Wood	white	-0.1	QM
Calibration Readings									
001								1.0	TC
002								1.0	TC
003								1.0	TC

---- End of Readings ----

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#01364 - 04/04/22 12:21

INSPECTION FOR: Mr. William Silver
Silver/Petrucelli & Associates
3190 Whitney Avenue, Building 2
Hamden, Connecticut 06518

PERFORMED AT: 1 Holbrook Place
Apartment #4 (2nd Floor, Left Side)
Ansonia, Connecticut

INSPECTION DATE: 04/04/22

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 01364

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: 002300

Lead-Based Paint Testing of Select Components

SIGNED: _____ **Date:** 04/04/2022

Jake Cyr
Lead Inspector/Risk Assessor
Eagle Environmental, Inc.
8 South Main Street, Suite #3
Terryville, Connecticut 06786

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. William Silver

Inspection Date:	04/04/22	1 Holbrook Place
Report Date:	4/4/2022	Apartment #4 (2nd Floor, Left Side)
Abatement Level:	1.0	Ansonia, Connecticut
Report No.	S#01364 - 04/04/22 12:21	
Total Readings:	43 Actionable: 9	
Job Started:	04/04/22 12:21	
Job Finished:	04/04/22 14:03	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 001 2-403									
004	A	Wall	U -		D	Plaster	white	2.5	QM
011	A	Door	-		D	Wood	white	2.6	QM
010	C	Wall	U -		D	Plaster	white	3.1	QM
028	C	Door	-	stop	D	Wood	white	5.7	QM
Interior Room 002 2-402									
032	-	Ceiling	-		D	Plaster	white	1.8	QM
033	A	Wall	- -		D	Plaster	white	1.6	QM
034	B	Wall	- -		D	Plaster	white	1.5	QM
035	C	Wall	- -		D	Plaster	white	1.8	QM
036	D	Wall	- -		D	Plaster	white	1.9	QM
Calibration Readings									

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. William Silver

Inspection Date:	04/04/22	1 Holbrook Place
Report Date:	4/4/2022	Apartment #4 (2nd Floor, Left Side)
Abatement Level:	1.0	Ansonia, Connecticut
Report No.	S#01364 - 04/04/22 12:21	
Total Readings:	43	
Job Started:	04/04/22 12:21	
Job Finished:	04/04/22 14:03	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 001 2-403									
042	A	Crwn Mldg	-		D	Wood	white	0.1	QM
004	A	Wall	U -		D	Plaster	white	2.5	QM
005	A	Wall	- -	Cap	D	Wood	white	0.2	QM
006	A	Wall	L -		D	Wood	red	0.0	QM
043	A	Wall	- -	Molding	D	Wood	white	0.0	QM
011	A	Door	-		D	Wood	white	2.6	QM
012	A	Door	-	casing	D	Wood	white	0.1	QM
013	A	Door	-	jamb	D	Wood	white	0.2	QM
014	A	Door	-	stop	D	Wood	white	0.4	QM
007	B	Wall	U -		D	Plaster	white	0.2	QM
008	B	Wall	- -	Cap	D	Wood	white	0.3	QM
009	B	Wall	L -		D	Wood	red	0.3	QM
024	C	Crwn Mldg	-		D	Wood	white	0.0	QM
010	C	Wall	U -		D	Plaster	white	3.1	QM
015	C	Wall	- -	Cap	D	Wood	white	0.4	QM
016	C	Wall	L -		D	Wood	red	0.6	QM
017	C	Wall	L -		D	Wood	white	0.6	QM
025	C	Door	-		D	Metal	white	0.0	QM
026	C	Door newer	-	casing	D	Wood	white	-0.1	QM
027	C	Door newer	-	jamb	D	Wood	white	-0.1	QM
028	C	Door	-	stop	D	Wood	white	5.7	QM
029	C	Door older	-	casing	D	Wood	white	0.6	QM
031	C	Door older	-	jamb	D	Wood	white	0.3	QM
030	C	Door	-	Header	D	Wood	white	0.6	QM
021	C	Closet	-	door stop	D	Wood	white	-0.1	QM
023	C	Closet	-	Door Header	D	Wood	white	0.1	QM
018	C	Closet	-	Door	D	Wood	white	0.0	QM
019	C	Closet newer	-	Door Casing	D	Wood	white	-0.1	QM
022	C	Closet older	-	Door Casing	D	Wood	white	0.3	QM
020	C	Closet	-	Door Jamb	D	Wood	white	-0.1	QM
Interior Room 002 2-402									
032	-	Ceiling	-		D	Plaster	white	1.8	QM
037	A	Shelf Supp.	-		D	Wood	white	0.4	QM
033	A	Wall	- -		D	Plaster	white	1.6	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. William Silver

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
041	A	Baseboard	-		D	Wood	white	0.2	QM
038	A	Door	-	casing	D	Wood	white	0.0	QM
039	A	Door	-	jamb	D	Wood	white	0.4	QM
040	A	Door	-	stop	D	Wood	white	0.5	QM
034	B	Wall	- -		D	Plaster	white	1.5	QM
035	C	Wall	- -		D	Plaster	white	1.8	QM
036	D	Wall	- -		D	Plaster	white	1.9	QM
Calibration Readings									
001								1.1	TC
002								1.1	TC
003								1.0	TC

---- End of Readings ----

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#01364 - 04/04/22 12:08

INSPECTION FOR: Mr. William Silver
Silver/Petrucelli & Associates
3190 Whitney Avenue, Building 2
Hamden, Connecticut 06518

PERFORMED AT: 1 Holbrook Place
Apartment #5 (3rd Floor, Right Side)
Ansonia, Connecticut

INSPECTION DATE: 04/04/22

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 01364

ACTION LEVEL: 1.0 mg/cm^2

OPERATOR LICENSE: 002300

Lead-Based Paint Testing of Select Components

SIGNED: _____ Date: 04/04/2022

Jake Cyr
Lead Inspector/Risk Assessor
Eagle Environmental, Inc.
8 South Main Street, Suite #3
Terryville, Connecticut 06786

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. William Silver

Inspection Date:	04/04/22	1 Holbrook Place
Report Date:	4/4/2022	Apartment #5 (3rd Floor, Right Side)
Abatement Level:	1.0	Ansonia, Connecticut
Report No.	S#01364 - 04/04/22 12:08	
Total Readings:	26 Actionable: 6	
Job Started:	04/04/22 12:08	
Job Finished:	04/04/22 12:18	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 001 3-501									
004	B	Wall	U -		D	Plaster	blue	1.7	QM
007	C	Wall	U -		D	Plaster	blue	2.4	QM
010	D	Wall	U -		D	Plaster	blue	2.4	QM
Interior Room 002 3-502									
018	B	Wall	-		D	Plaster	white	1.7	QM
020	C	Wall	-		D	Plaster	white	2.8	QM
022	D	Wall	-		D	Plaster	white	2.1	QM
Calibration Readings									

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. William Silver

Inspection Date:	04/04/22	1 Holbrook Place
Report Date:	4/4/2022	Apartment #5 (3rd Floor, Right Side)
Abatement Level:	1.0	Ansonia, Connecticut
Report No.	S#01364 - 04/04/22 12:08	
Total Readings:	26	
Job Started:	04/04/22 12:08	
Job Finished:	04/04/22 12:18	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 001 3-501									
004	B	Wall	U -		D	Plaster	blue	1.7	QM
005	B	Wall	-	Cap	D	Wood	blue	-0.1	QM
006	B	Wall	L -		D	Wood	blue	0.0	QM
007	C	Wall	U -		D	Plaster	blue	2.4	QM
008	C	Wall	-	Cap	D	Wood	blue	-0.1	QM
009	C	Wall	L -		D	Wood	blue	-0.1	QM
014	C	Window	-	casing	D	Wood	blue	0.0	QM
016	C	Window	-	stop	D	Wood	blue	0.2	QM
015	C	Window	-	Apron	D	Wood	blue	0.1	QM
013	C	Window	-	Sill	D	Wood	blue	0.0	QM
010	D	Wall	U -		D	Plaster	blue	2.4	QM
011	D	Wall	-	Cap	D	Wood	blue	0.1	QM
012	D	Wall	L -		D	Wood	blue	-0.2	QM
Interior Room 002 3-502									
017	-	Ceiling	-		D	Plaster	white	-0.1	QM
018	B	Wall	-		D	Plaster	white	1.7	QM
019	B	Baseboard	-		D	Wood	white	0.0	QM
020	C	Wall	-		D	Plaster	white	2.8	QM
021	C	Baseboard	-		D	Wood	white	0.2	QM
025	C	Window	-	casing	D	Wood	white	-0.1	QM
026	C	Window	-	stop	D	Wood	white	0.1	QM
024	C	Window	-	Sill	D	Wood	white	-0.1	QM
022	D	Wall	-		D	Plaster	white	2.1	QM
023	D	Baseboard	-		D	Wood	white	0.1	QM
Calibration Readings									
001								1.1	TC
002								1.0	TC
003								1.1	TC

---- End of Readings ----

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#01364 - 04/04/22 09:20

INSPECTION FOR: Mr. William Silver
Silver/Petrucelli & Associates
3190 Whitney Avenue, Building 2
Hamden, Connecticut 06518

PERFORMED AT: 1 Holbrook Place
Apartment #6 (3rd Floor, Left Side)
Ansonia, Connecticut

INSPECTION DATE: 04/04/22

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 01364

ACTION LEVEL: 1.0 mg/cm^2

OPERATOR LICENSE: 002300

Lead-Based Paint Testing of Select Components

SIGNED: Jake Cyr Date: 04/04/2022

Jake Cyr
Lead Inspector/Risk Assessor
Eagle Environmental, Inc.
8 South Main Street, Suite #3
Terryville, Connecticut 06786

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. William Silver

Inspection Date:	04/04/22	1 Holbrook Place
Report Date:	4/4/2022	Apartment #6 (3rd Floor, Left Side)
Abatement Level:	1.0	Ansonia, Connecticut
Report No.	S#01364 - 04/04/22 09:20	
Total Readings:	75 Actionable: 24	
Job Started:	04/04/22 09:20	
Job Finished:	04/04/22 10:17	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 001 3-610									
005	B	Window	-	casing	D	Wood	white	4.6	QM
007	B	Window	-	stop	D	Wood	white	3.9	QM
006	B	Window	-	Apron	D	Wood	white	4.5	QM
004	B	Window	-	Sill	D	Wood	white	5.4	QM
008	C	Wall	-	casing	D	Wood	white	5.7	QM
010	C	Wall	L -	casing	D	Wood	white	3.3	QM
011	C	Wall	L -	Panel	D	Wood	white	4.1	QM
013	C	Baseboard	-		D	Wood	white	5.0	QM
Interior Room 002 3-608									
023	B	Window	Rgt	Sill	D	Wood	white	3.2	QM
Interior Room 004 3-603									
043	A	Wall	-	Cap	D	Wood	white	2.3	QM
044	A	Wall	L -		D	Wood	white	1.5	QM
047	B	Window	-	casing	D	Wood	white	1.7	QM
049	B	Window	-	stop	D	Wood	white	1.1	TC
046	B	Window	-	Sill	D	Wood	white	2.0	QM
Interior Room 005 3-602									
051	A	Wall	-		D	Plaster	white	2.6	QM
052	B	Wall	-		D	Plaster	white	1.7	QM
053	C	Wall	-		D	Plaster	white	2.8	QM
054	D	Wall	-		D	Plaster	white	5.3	QM
Interior Room 006 3-601									
066	A	Door	-		D	Wood	white	2.7	QM
067	A	Door	-	casing	D	Wood	white	3.8	QM
061	C	Window	-	casing	D	Wood	white	4.0	QM
063	C	Window	-	stop	D	Wood	white	4.3	QM
060	C	Window	-	Sill	D	Wood	white	3.0	QM
Interior Room 007 3-600									
071	D	Wall	-		D	Plaster	white	1.4	QM
Calibration Readings									

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. William Silver

Inspection Date:	04/04/22	1 Holbrook Place
Report Date:	4/4/2022	Apartment #6 (3rd Floor, Left Side)
Abatement Level:	1.0	Ansonia, Connecticut
Report No.	S#01364 - 04/04/22 09:20	
Total Readings:	75	
Job Started:	04/04/22 09:20	
Job Finished:	04/04/22 10:17	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 001 3-610									
005	B	Window	-	casing	D	Wood	white	4.6	QM
007	B	Window	-	stop	D	Wood	white	3.9	QM
006	B	Window	-	Apron	D	Wood	white	4.5	QM
004	B	Window	-	Sill	D	Wood	white	5.4	QM
015	C	Vent	-		D	Metal	white	0.5	QM
008	C	Wall	-	casing	D	Wood	white	5.7	QM
009	C	Wall	L -	Cap	D	Wood	white	-0.1	QM
010	C	Wall	L -	casing	D	Wood	white	3.3	QM
011	C	Wall	L -	Panel	D	Wood	white	4.1	QM
014	C	Wall	-		D	Plaster	white	0.0	QM
013	C	Baseboard	-		D	Wood	white	5.0	QM
012	C	Door	-	Wall	D	Wood	white	0.0	QM
016	C	Door	-	casing	D	Wood	white	0.0	QM
017	C	Door	-	jamb	D	Wood	white	0.0	QM
018	C	Door	-	stop	D	Wood	white	-0.1	QM
Interior Room 002 3-608									
020	B	Window	Lft	casing	D	Wood	white	0.0	QM
022	B	Window	Lft	stop	D	Wood	white	-0.1	QM
021	B	Window	Lft	Apron	D	Wood	white	0.0	QM
019	B	Window	Lft	Sill	D	Wood	white	-0.1	QM
024	B	Window	Rgt	casing	D	Wood	white	0.0	QM
026	B	Window	Rgt	stop	D	Wood	white	0.0	QM
025	B	Window	Rgt	Apron	D	Wood	white	0.0	QM
023	B	Window	Rgt	Sill	D	Wood	white	3.2	QM
Interior Room 003 3-605									
035	A	Crwn Mldg	-		D	Wood	white	0.0	QM
040	A	Vent	-		D	Metal	white	0.5	QM
036	A	Wall	-		D	Plaster	white	-0.1	QM
037	A	Baseboard	-		D	Wood	white	-0.1	QM
038	A	Door	-	casing	D	Wood	white	-0.1	QM
039	A	Door	-	stop	D	Wood	white	0.0	QM
028	B	Window	Lft	casing	D	Wood	white	0.0	QM
030	B	Window	Lft	stop	D	Wood	white	0.0	QM
029	B	Window	Lft	Apron	D	Wood	white	-0.2	QM
027	B	Window	Lft	Sill	D	Wood	white	-0.2	QM
032	B	Window	Rgt	casing	D	Wood	white	0.0	QM
034	B	Window	Rgt	stop	D	Wood	white	0.0	QM
033	B	Window	Rgt	Apron	D	Wood	white	0.1	QM
031	B	Window	Rgt	Sill	D	Wood	white	0.0	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. William Silver

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 004 3-603									
041	A	Crwn Mldg	-		D	Wood	white	0.0	QM
042	A	Wall	U -		D	Dry wall	white	-0.1	QM
043	A	Wall	-	Cap	D	Wood	white	2.3	QM
044	A	Wall	L -		D	Wood	white	1.5	QM
045	A	Wall	-	Molding	D	Wood	white	-0.1	QM
047	B	Window	-	casing	D	Wood	white	1.7	QM
049	B	Window	-	stop	D	Wood	white	1.1	TC
048	B	Window	-	Apron	D	Wood	white	0.3	QM
046	B	Window	-	Sill	D	Wood	white	2.0	QM
Interior Room 005 3-602									
050	-	Ceiling	-		D	Plaster	white	0.0	QM
051	A	Wall	-		D	Plaster	white	2.6	QM
055	A	Baseboard	-		D	Wood	white	0.0	QM
058	A	Door	-	casing	D	Wood	white	0.0	QM
059	A	Door	-	stop	D	Wood	white	0.0	QM
052	B	Wall	-		D	Plaster	white	1.7	QM
056	B	Baseboard	-		D	Wood	white	-0.1	QM
053	C	Wall	-		D	Plaster	white	2.8	QM
054	D	Wall	-		D	Plaster	white	5.3	QM
057	D	Baseboard	-		D	Wood	white	0.0	QM
Interior Room 006 3-601									
064	A	Crwn Mldg	-		D	Wood	white	0.0	QM
065	A	Wall	-		D	Plaster	white	-0.1	QM
066	A	Door	-		D	Wood	white	2.7	QM
067	A	Door	-	casing	D	Wood	white	3.8	QM
068	A	Door	-	jamb	D	Wood	white	0.3	QM
069	A	Door	-	stop	D	Wood	white	-0.1	QM
061	C	Window	-	casing	D	Wood	white	4.0	QM
063	C	Window	-	stop	D	Wood	white	4.3	QM
062	C	Window	-	Apron	D	Wood	white	0.0	QM
060	C	Window	-	Sill	D	Wood	white	3.0	QM
Interior Room 007 3-600									
070	-	Ceiling	-		D	Plaster	white	0.5	QM
071	D	Wall	-		D	Plaster	white	1.4	QM
072	D	Baseboard	-		D	Wood	white	0.0	QM
Calibration Readings									
001								1.0	TC
002								1.1	TC
003								1.0	TC
073								1.0	TC
074								1.0	TC
075								0.9	TC

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. William Silver

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm^2)	Mode

APPENDIX D

LEAD WASTE CHARACTERIZATION LABORATORY REPORTS AND COMPUTATION TABLE

PHOENIX
Environmental Laboratories, Inc.

Thursday, April 28, 2022

Attn: Aaron Hatcher
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Project ID: **SILVER PETRUCELLI - 1 HOLBROOK PL.**
SDG ID: **GCL14567**
Sample ID#s: **CL14567**

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

April 28, 2022

SDG I.D.: GCL14567

Project ID: SILVER PETRUCELLI - 1 HOLBROOK PL.

Client Id	Lab Id	Matrix
TCLP-1-3 COMPOSITE	CL14567	BULK

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 28, 2022

FOR: Attn: Aaron Hatcher
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	BULK	Collected by:	JC	04/04/22	
Location Code:	EAGLEENV	Received by:	LB	04/22/22	12:03
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	22-084.10T1				

Laboratory Data

SDG ID: GCL14567
Phoenix ID: CL14567

Project ID: SILVER PETRUCELLI - 1 HOLBROOK PL.
Client ID: TCLP-1-3 COMPOSITE

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Lead	0.52	0.10	mg/L	1	04/25/22	CPP	SW846 1311/6010
TCLP Metals Digestion	Completed				04/24/22	AB/AB	SW3010A
TCLP Extraction for Metals	Completed				04/22/22	AB	SW1311
TCLP Sample Size Reduction	Completed				04/27/22	SB	SW1311

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

TCLP Non-Volatile Extraction:
Sample weight was < 100 grams (the minimum requirement of the method to insure homogeneity).

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
April 28, 2022
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

April 28, 2022

QA/QC Data

SDG I.D.: GCL14567

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 621673 (mg/L), QC Sample No: CL12360 (CL14567)													
ICP Metals - TCLP Extraction													
Lead	BRL	0.10	0.14	0.16	NC	110	113	2.7	110			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
April 28, 2022

Thursday, April 28, 2022

Criteria: None

State: CT

Sample Criteria Exceedances Report

GCL14567 - EAGLEENV

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

April 28, 2022 SDG I.D.: GCL14567

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

Cooler: Yes ☑ No ☐
Coolant: IPK ☑ ICE ☐ No ☐

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 18 °C Pg of

Data Delivery/Contact Options:
☐ Fax:
☐ Phone:
☒ Email: AHatcher@eagleenvironcom

Customer: Eagle Environmental, Inc
Address: 85 main st, Suite #3
Terryville, CT 06786

Project: Silver Petrucelli - Holbrook pl. Project P.O: 22-084.10T1
Report to: Aaron Hatcher
Invoice to: Eagle
QUOTE #

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: JAKE Cyr - AH Date: 4/4/22

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____ (Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Combi Button lw grams o/o	MS/MSD	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCL	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
14567	TCLP1 - Neg. Wood	SD	4-4-22	PM	39	X												
	TCLP2 - Neg. Plastic	SD	4-4-22	PM	52	X												
	TCLP3 - Pos. Plastic	SD	4-4-22	PM	7	X												

Relinquished by:	Accepted by:	Date:	Time:
		4/22/22	8:05
		4-22-22	12:03

Comments, Special Requirements or Regulations:

Combine To Form (1) TCLP

**MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.*

Turnaround Time:
☐ 1 Day*
☐ 2 Days*
☒ 3 Days*
☐ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ (Residential) Direct Exposure
☐ (Comm/Industrial) Direct Exposure
☐ GA Leachability
☐ GB Leachability
☐ GA-GW Objectives
☐ GB-GW Objectives

CT
☐ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1 ☐ MWRA eSMART
☐ GW-2 ☐ S-1 10% CALC
☐ GW-3
☐ S-1 GW-1 ☐ S-1 GW-2 ☐ S-1 GW-3
☐ S-2 GW-1 ☐ S-2 GW-2 ☐ S-2 GW-3
☐ S-3 GW-1 ☐ S-3 GW-2 ☐ S-3 GW-3
☐ SW Protection

State where samples were collected: CT

Data Format
☐ Excel
☐ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☐ Phoenix Std Report
☐ Other
* SURCHARGE APPLIES

PEL-126 REV. 06/20

DEMOLITION WASTE CLASSIFICATION
TCLP FIELD COMPUTATION TABLE
SILVER PETRUCELLI
1 HOLBROOK PLACE
ANSONIA, CONNECTICUT

Component	Thickness (in)	Thickness (ft)	Area (SF)	Volume (CF)	Density (lbs/CF)	Mass (lbs)	Totals (lbs)	Percent of Total Mass
Negative Wood (solid)	1.00	0.083	4340	361.7	35	12658.3	25287.5	34%
	2.00	0.167	2165	360.8	35	12629.2		
Positive Wood	1.00	0.083	110	9.2	35	320.8	320.8	0%
Negative Plaster	0.50	0.042	17700	737.5	53	39087.5	39087.5	52%
Positive Plaster	0.50	0.042	2300	95.8	53	5079.2	5079.2	7%
Negative Sheetrock	0.50	0.042	2500	104.2	52.8	5500.0	5500.0	7%
			Total Mass				75275.0	100%

APPENDIX E

ABATEMENT AND CONSULTING COST ESTIMATES

HAZARDOUS MATERIALS COST ESTIMATES
1 HOLBROOK PLACE
ANSONIA, CONNECTICUT

ASBESTOS ABATEMENT COST ESTIMATE					
MATERIAL	QUANTITY	UNIT COST			TOTAL COST
FLOOR TILE AND MASTIC	650	$ 6.50	SF		$ 4,225.00
DOUBLE LAYER FLOORING	200	$ 9.00	SF		$ 1,800.00
TEXTURE CEILING PAINT	1,600	$ 3.50	SF		$ 5,600.00
DUCTWORK INSULATION PAPER	1,100	$ 9.00	SF		$ 9,900.00
BOTTOM LAYER FLOORING UNDER PLYWOOD*	450	$ 15.00	SF		$ 6,750.00
KNOB AND TUBE WIRING*	500	$ 4.00	LF		$ 2,000.00
WOVEN ELECTRICAL WIRE*	200	$ 4.00	LF		$ 800.00
BASEMENT WINDOW GLAZING COMPOUND*	6	$ 125.00	SF		$ 750.00
SUBTOTAL					$ 31,825.00
ASBESTOS ABATEMENT CONTINGENCY					$ 3,182.50
ASBESTOS TOTAL					**$ 35,007.50**
*MATERIAL ASSUMED TO BE ASBESTOS CONTAINING.					
LEAD BASED PAINT COST ESTIMATE					
TASK	QUANTITY	UNIT COST			TOTAL COST
LEAD-BASED PAINT REMOVAL CONTINGENCY	1	$ 5,500.00	LUMPSUM		$ 5,500.00
SUBTOTAL					$ 5,500.00
LEAD DEMOLITION CONTINGENCY					$ 550.00
LEAD ABATEMENT TOTAL					**$ 6,050.00**

HAZARDOUS MATERIALS ABATEMENT SUBTOTAL **$ 41,057.50**

HAZARDOUS MATERIALS CONSULTING COST ESTIMATE					
CONSULTING COST	QUANTITY	UNIT COST			TOTAL COST
PRECONSTRUCTION CONFERENCE	1	$350.00	EACH		$ 350.00
DAILY MONITORING/CLEARANCES	7	$550.00	DAY		$ 3,850.00
PCM AIR SAMPLES	52	$7.00	EACH		$ 364.00
LEAD CLEARANCE	7	$165.00	EACH		$ 1,155.00
LEAD DUST WIPE SAMPLING	125	$13.50	EACH		$ 1,687.50
PROJECT MANAGEMENT	7	$90.00	HOUR		$ 630.00
DOCUMENTATION REPORT	1	$700.00	EACH		$ 700.00
SUBTOTAL					$ 8,736.50
CONSULTING CONTINGENCY					$ 873.65
CONSULTING TOTAL					**$ 9,610.15**

GRAND TOTAL **$ 50,667.65**

APPENDIX F

EAGLE ENVIRONMENTAL INC. LICENSES AND LABORATORY CERTIFICATES

ATLAS

CERTIFICATE OF ACHIEVEMENT

This certifies that

Joshua Smith

has successfully completed the

4 Hour Asbestos Site Inspector Refresher Training
Asbestos Accreditation Under TSCA Title II
40 CFR Part 763 and
CT Department of Public Health Title 20

Training held via a Live Webinar

Score: 92%

conducted by:
ATC Group Services LLC dba ATLAS Technical
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Gregory Morsch

Principal Instructor: Gregory Morsch

December 16, 2021
Date of Course

December 16, 2022
Expiration Date

Gregory Morsch

Regional Training Director: Gregory Morsch

SIAR - 70326
Certificate Number

December 16, 2021
Examination Date

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A
ASBESTOS CONSULTANT-INSPECTOR

JOSHUA L SMITH

CERTIFICATE NO.
000975

CURRENT THROUGH
09/30/22

VALIDATION NO.
03-915010

SIGNATURE

COMMISSIONER

CERT#: L-600-Virtual.1161

CHEMSCOPE TRAINING DIVISION

LEAD INSPECTOR/RISK ASSESSOR REFRESHER

8-HOUR TRAINING CERTIFICATE

Jake Cyr

8 South Main Street, Suite 3, Terryville CT

Has attended an 8-hour course on the subject discipline on

08/25/2021 and has passed a written examination.

The above individual has successfully completed the above training course approved in accordance with the Department of Public Health Standards established pursuant to Section 20-477 of the Connecticut General Statutes.

Course topics include all required topics of State of Connecticut DPH and EPA.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (U.S.C. 1001 and 15 U.S. C. 2615), I certify that this training complies with all applicable requirements of Title IV of TSCA, 40 CFR part 745 and any other applicable Federal, State or local requirements.

Examination Score: 100%
Exam Date: 08/25/2021
Expiration Date: 08/25/2022

Daniel Sullivan
Training Manager

Chem Scope, Inc.
15 Moulthrop Street
North Haven CT 06473
Phone: 203.865.5605
www.chem-scope.com

Litho in U.S.A.

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A
LEAD INSPECTOR RISK ASSESSOR

JAKE THOMAS CYR

CERTIFICATE NO.
002300

CURRENT THROUGH
09/30/22

VALIDATION NO.
03-913805

SIGNATURE

COMMISSIONER

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

LEAD CONSULTANT CONTRACTOR

EAGLE ENVIRONMENTAL INC.

LICENSE NO.
001723

CURRENT THROUGH
04/30/22

VALIDATION NO.
03-893267

SIGNATURE

ACTING COMMISSIONER

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

PHOENIX ENVIRONMENTAL LABORATORIES, INC.

LOCATED AT **587 East Middle Turnpike** IN **Manchester, Connecticut 06040**

AND REGISTERED IN THE NAME OF **Allan E. Caffyn**

THIS CERTIFICATE IS ISSUED IN THE NAME OF **Phyllis Shiller (Chemistry)**
Kathleen Cressia (Microbiology) WHO HAS BEEN DESIGNATED

BY THE REGISTERED OWNER\AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

DRINKING WATER, NON-POTABLE/WASTEWATER, SOLID WASTE/SOIL
Examination For:
BACTERIA
INORGANIC CHEMICALS
ORGANIC CHEMICALS
RADIOCHEMICALS

ENVIRONMENTAL HEALTH & HOUSING
Examination For:
LEAD In PAINT
LEAD In DUST WIPES
LEAD (PAINT) In SOIL

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

EFFECTIVE RENEWAL DATE **July 1, 2018**

THIS CERTIFICATE EXPIRES **June 30, 2020** AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS **18th** DAY OF **June, 2018**

Registration No. PH – 0618

SUZANNE BLANCAFLOR, MS, MPH
CHIEF, ENVIRONMENTAL HEALTH SECTION

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

SCIENTIFIC ANALYTICAL INSTITUTE, INC.

LOCATED AT 4604 DUNDAS DRIVE IN GREENSBORO, NC 27407

AND REGISTERED IN THE NAME OF NATHANIEL DURHAM

THIS CERTIFICATE IS ISSUED IN THE NAME OF NATHANIEL DURHAM WHO HAS BEEN DESIGNATED BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

DRINKING WATER	ENVIRONMENTAL HEALTH & HOUSING	BUILDING MATERIALS
Examination For:	LEAD IN PAINT	Examination For:
ASBESTOS	LEAD (PAINT) IN SOIL	ASBESTOS FIBERS – PCM. TEM
	LEAD IN DUST WIPES	ASBESTOS IN BULK – PLM, TEM

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

EFFECTIVE RENEWAL DATE JANUARY 1, 2022

THIS CERTIFICATE EXPIRES DECEMBER 31, 2023 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 1st DAY OF November, 2021

Registration No.

PH–0336

Lori J. Mathieu '21

Lori J. Mathieu
Public Health Branch Chief

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

Renée D. Coleman-Mitchell, MPH
Commissioner

Ned Lamont
Governor

Susan Bysiewicz
Lt. Governor

ENVIRONMENTAL HEALTH AND DRINKING WATER BRANCH

Circular Letter 2020-16

FROM: Lori Mathieu, Public Health Branch Chief

TO: Asbestos contractors, asbestos consultants, asbestos abatement workers, asbestos abatement site supervisors, and asbestos training providers
Backflow prevention device testers and cross-connection survey inspectors
Bulk water haulers
Environmental laboratories
Lead abatement and lead consultant contractors, lead training providers, lead inspectors, lead inspector risk assessors, lead planner-project designers, lead abatement supervisors, and lead abatement workers
Sanitarians
Subsurface sewage disposal system installers and cleaners
Water treatment plant operators, water distribution system operators, and small water system operators

DATE: April 1, 2020

SUBJECT: DPH Certification, License and Permit Renewal and Inspection Requirements Suspended

The purpose of this Circular Letter is to provide information regarding the Commissioner of Public Health's (Commissioner) suspension of Department of Public Health (DPH) certification, license and permit renewal (license renewal) and inspection requirements. On March 27, 2020, Governor Lamont (Governor) issued Executive Order 7O, which modified any statute, regulation or requirement or part thereof relating to license renewals and inspections by DPH to authorize the Commissioner to suspend such license renewal and inspection requirements and to issue any implementing orders she deems necessary. On March 30, 2020, the Commissioner issued an order suspending the requirements for DPH license renewals and inspections (March 30, 2020 Order). The March 30, 2020 Order was effective immediately and will continue throughout the duration of the COVID-19 civil preparedness emergency.

Connecticut Department of Public Health

Phone: (860) 509-7333 • Fax: (860) 509-7359
Telecommunications Relay Service 7-1-1
410 Capitol Avenue, P.O. Box 340308, MS#12DWS
Hartford, Connecticut 06134-0308
www.ct.gov/dph

Pursuant to Executive Order 7O and the Commissioner's March 30, 2020 Order, the requirements for DPH licensees to renew the following certifications, licenses and permits are suspended:

1. Apprentice permits for the performance of work as a subsurface sewage disposal system cleaner or installer
2. Asbestos contractors, asbestos consultants, asbestos abatement workers, asbestos abatement site supervisors, and asbestos training providers
3. Backflow prevention device testers
4. Bulk water haulers
5. Cross-connection survey inspectors
6. Environmental laboratories
7. Lead abatement and lead consultant contractors, lead training providers, lead inspectors, lead inspector risk assessors, lead planner-project designers, lead abatement supervisors, and lead abatement workers
8. Sanitarians
9. Small water system operators
10. Subsurface sewage disposal system installers and cleaners
11. Water treatment plant operators
12. Water distribution system operators

The license renewal requirements are suspended for the above-stated certifications, licenses and permits, provided that:

1. Any certification, license or permit not renewed by DPH shall not expire throughout the duration of the COVID-19 civil preparedness emergency;

2. Any certification, license or permit for which the Commissioner had suspended license renewal requirements that is not renewed in the six-month period following the date of the resumption of the license renewal requirements shall expire, unless the Commissioner, for good cause shown, extends this period of time;

3. If DPH renews a certification, license or permit on a date other than the customary renewal date, the period of licensure shall not extend beyond the customary renewal date provided pursuant to the Connecticut General Statutes; and

4. At the time of such renewal, the licensee shall be responsible for payment of all license fees to DPH, including payment of fees not collected by DPH due to the suspension of such license renewal requirements.

In addition, pursuant to Executive Order 7O and the Commissioner's March 30, 2020 Order, the requirements for any DPH inspection, including inspections of public water systems conducted pursuant to § 19-13-B102(e)(7)(E) of the Regulations of Connecticut State Agencies, are suspended, provided that:

1. Not later than six months from the date the public health and civil preparedness emergency is declared to be over, DPH shall conduct any inspection not conducted during the COVID-19 civil preparedness emergency; and

2. DPH shall complete such resumed inspections not later than six months from the date that the inspections resumed, unless the Commissioner, for good cause shown, extends this period of time.

DPH's Environmental Health and Drinking Water Branch will continue to keep licensees informed. If you have any questions or would like additional information, please contact the DPH Drinking Water Section at (860) 509-7333 or the DPH Environmental Health Section at (860) 509-7293.

c: Deputy Commissioner Heather Aaron, MPH, LNHA, Department of Public Health

SECTION 01 01 00 - HAZARDOUS MATERIALS GENERAL REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

B. Related Sections:

1. Section 01 01 60: Hazardous Materials Scheduling and Phasing
2. Section 01 02 60: Hazardous Materials Abatement Unit Prices
3. Section 01 70 50: Hazardous Materials Contract Closeout
4. Section 02 07 60: Selective Demolition for Hazardous Materials Abatement
5. Section 02 08 00: Asbestos Abatement
6. Section 02 09 00: Lead Paint Demolition

1.2 SECTION INCLUDES

A. HMAC Qualifications

B. HMAC Use of Site and Premises

C. Work Phasing

D. Owner's Operations

E. Close Out and Punch List

F. Cleaning

G. Additional General Requirements

1.3 HAZARDOUS MATERIALS ABATEMENT CONTRACTOR (HMAC) QUALIFICATIONS

A. All bidders shall submit a record of prior experience in asbestos and lead demolition projects, listing no less than three (3) completed jobs in the past year, with all projects of similar size and scope. The Hazardous Materials Abatement Contractor (HMAC) shall list the experience and training of the site supervisor and all on-site workers. The information that shall be included is as follows:

1. Project Name and Address
2. Owner's Name and Address
3. Architect/Consultant/Construction Manager
4. Contract Amount
5. Date of Completion
6. Extras and Change Orders

B. The HMAC selected must appear on the approved list of asbestos abatement contractors on file at the State of Connecticut Department of Public Health (CTDPH).

C. The HMAC must be a USEPA certified Renovation, Repair and Painting (RRP) contractor.

D. Submit a written statement regarding whether the HMAC has ever been found out-of-compliance with federal or state asbestos and/or lead regulations pertaining to worker protection, removal, transport, or disposal.

E. Award of this Contract may not necessarily be based solely on the submitted lowest Base Bid amount. The Owner reserves the right to award this Contract to the Bidder who best meets all HMAC qualifications.

1.4 HMAC USE OF SITE AND PREMISES

A. Limit use of site and premises as follows:

1. Owner occupancy.
2. Work by Owner.
3. Use of site and premises by public.

B. Coordinate use of the premises under the direction of the Owner.

C. Assume full responsibility for protection and safekeeping of products under this Contract.

D. The HMAC shall not interfere with general Site operations. The HMAC shall coordinate parking for employees with the Owner.

E. The HMAC shall coordinate location of waste container(s) with Owner operations.

1.5 WORK PHASING

A. Work under this project may be performed in phases to accommodate Owner's/Architect's requirements and remaining construction phases. Coordinate abatement schedule and operations with the Owner/Consultant and other trades.

B. The HMAC shall become familiar with the phasing of this work and shall include the required mobilization and re-mobilization as necessary to support the work phasing.

1.6 OWNER'S OPERATIONS

A. Schedule the Work to accommodate this requirement.

B. Maintain means of egress.

C. Coordinate Work with the Owner, the Architect, and the Owner's Consultant.

D. Maintain the fire alarm and fire detection systems active at all time during construction.

E. Maintain permanent means of egress during construction. Provide and maintain temporary means of egress as required by Fire Marshall.

1.7 CLOSEOUT AND PUNCH LIST

A. The HMAC shall carefully check his/her own work and that of any Subcontractor as the work is being performed. Unsatisfactory work shall be corrected immediately.

B. When the HMAC determines that he is substantially complete, that is, has less than one percent of his Contract remaining to be completed, he shall prepare for submission to the Consultant, a list of items to be completed or corrected. The failure to include any items on such list does not alter the responsibility of the HMAC to complete all work in accordance with the Contract Documents.

C. Upon receipt of the HMAC's list of items to be completed or corrected, the Consultant will promptly make a thorough inspection and prepare a "punch list" setting forth in accurate detail any items on the HMAC's list and any additional items that are not acceptable.

D. When the "punch list" has been prepared, the Consultant will arrange a meeting with the HMAC to identify and explain all punch list items and answer questions on the work that must be completed before final acceptance.

E. The HMAC shall correct all "punch list" items or shall cause the correction of the "punch list" items within a time frame to be established when the "punch list" is made. The time frame for the completion of the "punch list" shall not exceed the completion date of the Contract. Should the "punch list" not be completed within the specified time frame, the Owner may invoke the rights given under the General Conditions.

F. The Consultant shall not be expected to inspect any area more than once for the preparation of the "punch list" items. If, during an inspection, the Consultant discovers five (5) or more deficient conditions, then the area shall be declared "Not Ready" for Inspection.

G. All inspections and sampling required for hazardous materials abatement compliance will be performed by the Consultant.

1.8 CLEANING

A. Throughout the construction period, the HMAC shall maintain the building and the site free of rubbish, debris, surplus materials, and other items not required for the Work. Remove such material from the site daily to prevent accumulations. Remove all construction debris from work areas, and remove all hazardous waste and asbestos waste as required by the most current federal, state, and local regulations and the requirements of the specifications.

1.9 ADDITIONAL GENERAL REQUIREMENTS

A. The HMAC shall employ a competent and English-speaking Asbestos Abatement Supervisor with at least three (3) years of experience on projects of similar scope and magnitude. The Supervisor shall be responsible for all work involving hazardous materials abatement as described in the specifications and defined in the applicable regulations, and have full time daily supervision of the same. The Supervisor shall be the "Competent Person" as defined by OSHA regulations.

B. The HMAC shall allow the work of this contract to be inspected, if required, by local, state, federal, and any other authorities having jurisdiction over such work. The HMAC shall immediately notify the Owner and Consultant and shall maintain written evidence of such inspection for review by the Owner and Consultant.

C. The HMAC shall incur the cost of all fines resulting from regulatory non-compliance as issued by federal, state, and local agencies. The HMAC shall incur the cost of all work requirements mandated by federal, state, and local agencies as a result of regulatory non-compliance or negligence.

D. The HMAC shall immediately notify the Owner and Consultant of the delivery of all permits, licenses, certificates of inspection, of approval or occupancy, etc., and any other such instruments required under codes by authorities having jurisdiction, regardless to who issued, and shall cause them to be displayed to the Owner and Consultant for verification and recording.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01 01 00

SECTION 01 02 60 - HAZARDOUS MATERIALS ABATEMENT UNIT PRICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

B. Related Sections:

1. Section 01 01 00: Hazardous Materials General Requirements
2. Section 01 70 50: Hazardous Materials Contract Closeout
3. Section 02 07 60: Selective Demolition for Hazardous Materials Abatement
4. Section 02 08 00: Asbestos Abatement Specification
5. Section 02 09 00: Lead-Based Paint Demolition

1.2 SUMMARY

A. A unit price is an amount proposed by Bidders and stated on the Bid Form as a price per unit of measurement for materials or services that will be added to or deducted from the Contract Sum by Change Order in the event the project Scope of Work is altered.

B. Unit prices shall include costs of all materials, all direct or indirect expenses of the Hazardous Materials Abatement Contractor (HMAC) or Sub-Contractors, profit, insurance, bonding, and any applicable taxes. For deleted work, the net credit to the contract shall be 10% less.

C. Unit prices shall be used for work outside of the base bid and to quantify actual value of quantity allowances.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 UNIT PRICE SCHEDULE

A. Unit Prices in accordance with the following schedule will apply to this Contract. Unit prices include labor, disposal and all necessary fees.

Item No. 1 – ASBESTOS CONTAINING FLOOR TILE/SHEET FLOORING AND/OR ASSOCIATED MASTIC/ADHESIVE (All Layers to Substrate), REMOVAL AND DISPOSAL AS ASBESTOS WASTE.

$_____ per containment.

Item No. 2 – ASBESTOS CONTAINING CLOTH WOVEN WIRING WITH KNOB AND TUBING REMOVAL AS COMPLETE ABATEMENT AND DISPOSAL AS ASBESTOS – ESTIMATED EIGHT HUNDRED LINEAR FEET.

$_____ per containment.

Item No. 3 – ASBESTOS CONTAINING CLOTH WOVEN WIRING WITH KNOB AND TUBING REMOVAL AS SPOT REPAIR AND DISPOSAL AS ASBESTOS – ESTIMATED EIGHT HUNDRED LINEAR FEET.

$_____ per glove bag.

Item No. 4 – LEAD-BASED PAINT CLAPBOARD SIDING AND ASSOCIATED TRIM COMPONENTS SHALL BE REMOVED AND DISPOSAL AS HAZARDOUS LEAD WASTE – APPROXIMATELY TWO THOUSAND EIGHT HUNDRED SQUARE FEET

$_____ per 40 CY waste canister.

END OF SECTION 01 02 60

SECTION 01 70 50 - HAZARDOUS MATERIALS CONTRACT CLOSE OUT

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

B. Related Sections:

1. Section 01 01 00: Hazardous Materials General Requirements
2. Section 01 02 60: Hazardous Materials Abatement Unit Prices
3. Section 02 07 60: Selective Demolition for Hazardous Materials Abatement
4. Section 02 08 00: Asbestos Abatement Specification
5. Section 02 09 00: Lead-Based Paint Hazard Reduction

1.2 FINAL CLEANING

A. Unless otherwise specified under Sections of this Specification, the Hazardous Materials Abatement Contractor (HMAC) shall perform final cleaning operations as herein specified prior to final inspection.

B. Maintain the project site free from accumulations of waste, debris and rubbish caused by operations. At the completion of the work, remove waste materials, rubbish, tools, equipment, machinery and surplus materials, and clean all sight-exposed surfaces; leave the project clean and ready for work of other trades.

C. Cleaning shall include all surfaces, interior and exterior, in which the HMAC has had access.

D. Use only those materials that will not create hazards to health or property.

1.3 ABATEMENT CLOSEOUT DOCUMENTS

A. Submit to the Owner/Consultant, final completed hard copies, via mail, all asbestos Waste Shipment Records (WSR), signed by all transporters and the designated disposal site owner/operator. WSR's shall be submitted to Consultant within thirty-five (35) calendar days from shipment of waste from site.

B. Submit to the Owner/Consultant, final completed hard copies, via mail, hazardous lead waste manifests, signed by all transporters and the designated disposal site owner/operator. Manifests shall be submitted to Consultant within thirty-five (35) calendar days from shipment of waste from site.

C. Refer to each hazardous materials abatement section for specific post project submittal requirements.

D. Submit one (1) hard copy of post project submittals to Consultant within thirty-five days (35) of project completion. All post project submittals must be legible and printed on white 8 ½ inch by 11-inch paper.

E. Final payment will be withheld until receipt of all the above documentations to Owner's/Consultant's satisfaction.

PART 2 - PRODUCTS (Not Used)

PART 3- EXECUTION (Not Used)

END OF SECTION 011000

SECTION 02 07 60 - SELECTIVE DEMOLITION FOR HAZARDOUS MATERIALS ABATEMENT

PART 1 - PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

B. Related Sections:

1. Section 01 01 00: Hazardous Materials General Requirements
2. Section 01 02 60: Hazardous Materials Abatement Unit Prices
3. Section 01 70 50: Hazardous Materials Contract Closeout
4. Section 02 08 00: Asbestos Abatement Specification
5. Section 02 09 00: Lead-Based Paint Hazard Reduction Plan

1.2 SUMMARY

A. The Hazardous Materials Abatement Contractor (HMAC) shall be responsible for performing selective demolition, as directed by the Owner/General Contractor/Architect, to determine the presence of concealed materials throughout the work area(s). The selective demolition shall include, but not be limited to select walls, ceilings and cabinetry to confirm heating ductwork with insulation paper, flooring products underneath, raised wooden floors and platforms to access flooring underneath, localized areas of walls and ceilings for evaluation of interstitial wall and ceiling spaces for concealed ACM and other areas deemed necessary by the Owner's Consultant/General Contractor.

B. The HMAC shall be responsible for removing all floor-mounted cabinets, partition walls, furniture, raised platforms and carpet in order to access floor tile and associated mastic that exists underneath. Also, provide selective demolition of partition walls and ceilings, as necessary, to access all asbestos-containing materials specified for removal. The HMAC shall obtain required permits to accomplish this work at no additional cost to the Owner.

C. Selective demolition will be properly coordinated to ensure that asbestos-containing materials are not disturbed during demolition. Any demolition activity that will disturb or potentially disturb the asbestos containing materials, shall not be performed until work areas are properly contained following Section 02 08 00 Asbestos Abatement Specification.

D. The HMAC shall be responsible for the selective demolition of all trim, fixtures, railings, millwork, acoustical ceiling systems, mechanical equipment, electrical equipment, plumbing equipment and fixtures, walls, ceilings and miscellaneous items necessary to perform asbestos abatement and lead-based paint hazard reduction work. Some components are coated with lead-based paint. Refer to Section 02 09 00 Lead-Based Paint Hazard Reduction for additional requirements prior to the start of demolition activities.

E. Coordinate all selective demolition work with the Owner, General Contractor and Consultant.

F. If rental equipment will be utilized during hazardous material abatement activities, the HMAC shall provide written acknowledgement to the rental equipment provider and copy the Owner's

Consultant stating that equipment will be used during hazardous material removal and will be thoroughly decontaminated prior to being returned.

1.3 PROJECT CONDITIONS

A. Occupancy:

1. Areas of the building in which selective demolition will occur will be unoccupied during hazardous material abatement work.

B. Existing Conditions:

1. After the project has begun, the HMAC is responsible for the condition of the structures to be selectively demolished.
2. Unforeseen Conditions: Should unforeseen conditions be encountered that affect design or function of project, investigate and fully submit an accurate, detailed, written report to the office of the General Contractor/Consultant. While awaiting a response, reschedule operations if necessary to avoid delay of overall project.

C. Work under this project may be performed in phases to accommodate Owner's/General Contractor's requirements and remaining construction phases. Coordinate abatement schedule and operations with the Owner/General Contractor/Consultant and other trades.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that utilities have been disconnected and sealed.

B. Insofar as is practicable, arrange operations to reveal unknown or concealed conditions for examination and verification before removal or demolition.

C. Verify actual conditions to determine, in advance, whether removal or demolition of any element will result in structural deficiency, overloading, failure, or unplanned collapse.

1. Demolish and remove connections to all electrical and plumbing fixtures required to remove asbestos containing materials and components coated with lead-based paint.
2. Demolish all building materials as required to access asbestos containing materials for abatement. Selective demolition that impacts asbestos materials shall be performed with engineering controls in place.
3. Demolish all building materials as required to access components coated with lead-based paint scheduled for removal or stabilization. Selective demolition that impacts components shall be performed with engineering controls in place.

3.2 PREPARATION

A. Traffic: Do not obstruct walks or public ways without the written permission of governing authorities and of the Owner. Where routes are permitted to be closed, provide alternate routes if required.

B. Protection:

1. Provide for the protection of persons passing around or through the area of demolition.
2. Perform demolition so as to prevent damage to adjacent improvements and facilities to remain.
3. Protect walls, floors, and other new or existing work from damage during demolition operations.

3.3 POLLUTION CONTROLS

A. Control as much as practicable the spread of dust and dirt.

B. Observe environmental regulations.

C. Do not allow water usage that results in freezing or flooding.

D. Do not allow adjacent improvements to remain to become soiled by demolition operations.

3.4 DEMOLITION - GENERAL

A. Remove: Items indicated to be removed shall be removed by the HMAC.

B. Existing to Remain: Construction or items indicated to remain shall be protected against damage during demolition operations. Where practical, and with the Owner's permission, the HMAC may elect to remove items to a suitable storage location during demolition and then properly clean and reinstall the items.

C. Perform work in a systematic manner.

D. Demolish and remove existing structures only to the extent required, as indicated in the Contract Documents.

E. Perform selective demolition using methods that are least likely to damage work to remain and which will provide proper surfaces for patching.

F. Remove debris daily.

G. Use any methods permitted by governing regulations and the requirements of the Contract Documents.

3.5 DISPOSAL OF DEMOLISHED MATERIALS

A. Promptly dispose of materials resulting from demolition operations. Non-contaminated material may be disposed of as construction waste. Do not allow materials to accumulate on site.

B. All rubbish and waste material from the Work shall be neatly stacked or kept in suitable containers and removed from the premises daily. The premises shall be kept clean and in an orderly condition at all times to the satisfaction of the Owner and the Consultant.

C. Transport materials resulting from demolition operations and legally dispose of off-site.

D. Off-site disposal location shall not be within one-half mile of any portion of the project site or within sight of the project site.

E. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.

F. All disposal containers, receptacles, dumpsters shall be properly labeled and sealed from the onset of waste accumulation. Exterior waste containers shall be locked.

3.6 CLEANING

A. Throughout the abatement period, the HMAC shall maintain the building and site free of rubbish, debris, surplus materials and other items not required for the Work. Remove such material from the site daily to prevent accumulations. Remove all construction debris from work areas and remove all hazardous waste and asbestos waste as required by the most current federal, state, and local regulations and the requirements of the specifications.

END OF SECTION 02 07 60

SECTION 02 08 00 - ASBESTOS ABATEMENT

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

B. Related Sections:

1. Section 01 01 00: Hazardous Materials General Requirements
2. Section 01 02 60: Hazardous Materials Abatement Unit Prices
3. Section 01 70 50: Hazardous Materials Contract Closeout
4. Section 02 07 60: Selective Demolition for Hazardous Materials Abatement
5. Section 02 09 00 Lead-Based Paint Hazard Reduction

1.2 GENERAL PROVISIONS

A. The existing site is composed of the structure scheduled for renovation. The structure is identified as 1 Holbrook Place located in Ansonia, Connecticut.

B. Asbestos containing material (ACM) testing has identified building materials in areas scheduled for renovation/demolition that contain asbestos. The work covered in this section includes the minimum procedures that shall be employed during the abatement of the ACM.

C. Refer to other Sections of these Specifications to determine the type and extent of work therein affecting the work of this Section, whether or not such work is specifically mentioned herein.

D. Aaron E. Hatcher of Eagle Environmental, Inc. is the designer of this Specification. Mr. Hatcher is a State of Connecticut Department of Public Health (CTDPH) Licensed Asbestos Project Designer (License #000330).

E. The Base Bid asbestos abatement work of this project is listed in Table and Hazardous Materials Abatement Plans HM–1 through HM-2.

1.3 PROJECT DESCRIPTION

A. The work to be performed includes, but is not limited to the proper removal, handling, and disposal of all ACM contained within and on the structure located at 1 Holbrook Place in Ansonia, Connecticut (Site). A description of materials and locations of ACM scheduled for removal are shown in Table 1 – Summary of ACM below and on the Hazardous Materials Abatement Plans HM-1 through HM-2.

B. Base Bid asbestos abatement work shall include, but not be limited to the ACM identified in the following Table 1 – Summary of ACM and on the Hazardous Materials Abatement Plans. It is the sole responsibility of the Hazardous Materials Abatement Contractor (HMAC) to visit the site, review the Contract Documents and determine the quantities of ACM to be removed when developing their bid. Locations and **estimated quantities** of specific items noted in paragraph A above include:

TABLE I – SUMMARY OF ACM

LOCATION(S)	MATERIAL TYPE	ESTIMATED QUANTITY	F/NF
1 Holbrook Place			
0-001, 1-101, 1-103, 1-105, 1-106, 1-107, 1-108, 1-109, 1-110, 1-100, 1-201, 2-203, 1-205, 1-206, 1-207, 1-208, 1-209, 1-210, 1-200, 3-303, 3-305, 3-306, 3-307, 3-308, 3-309, 3-310, 2-401, 2-403, 2-404, 2-405, 2-406, 2-407, 2-408, 2-409, 2-410, 3-503, 3-504, 3-505, 3-506, 3-507, 3-508, 3-509, 3-510, 3-601, 3-603, 3-604, 3-605, 3-606, 3-607, 3-608, 3-609, 3-610	Heating ductwork insulation paper	1,100 SF	F
"1-105, 1-107, 1-207, 1-208, 2-209, 1-210, 1-200, 3-600, 3-605, 3-606, 3-607, 3-608, 3-609, 3-610	Texture ceiling paint	1,600 SF	NF
Front Stair	9”x9” floor tile	250 SF	NF
1-200, 1-202, 1-203, 1-205, 1-206, 1-207, 1-208	12”x12” floor tile	560 SF	NF
2-401, 2-402, 2-403, 2-404	Bottom layer floor tile	60 SF	NF
1-101, 1-102, 1-103, 2-201, 2-202, 2-203	Bottom layer flooring under plywood	450 SF	NF
Attic, Basement	Assumed Cloth woven electrical wire with knob and tubing	800 LF	NF
Façades B, D	Window glazing compound at basement windows	10 EA	NF

C. The intent of the project is to remove all identified and assumed ACM from the building to facilitate renovations. Work under this project may be performed in phases to accommodate Owner’s/General Contractor’s requirements and construction phases. Coordinate abatement schedule and operations with the Owner/General Contractor/Consultant and other trades to include, if any, remobilization fees to support the phasing.

D. The HMAC shall determine the quantities of asbestos-containing materials requiring removal prior to submission of bid. Any discrepancies must be submitted in writing in RFI format to the Owner's Consultant/Architect for interpretation. The quantities provided above are estimates only.

E. The HMAC shall be responsible for select wall and ceiling demolition, the removal of counters, cabinets, platforms, fixtures, electrical, mechanical, plumbing systems and miscellaneous items to facilitate asbestos removal. Refer to Section 02 07 50 Selective Demolition Hazardous Materials Abatement for additional requirements.

F. Asbestos containing flooring materials have been identified under counters, ceramic flooring, plywood, finished flooring, raised flooring and platforms. It is the HMACs responsibility to demolish and dispose of these materials in order to remove all ACM below.

G. Where flooring materials are scheduled to be removed, the HMAC shall remove all layers of flooring and adhesives down to substrates as ACM.

H. The HMAC shall be responsible for select wall and ceiling demolition to facilitate the asbestos removal of the heating ductwork with insulation paper.

I. All plaster and sheetrock walls that are demolished to access heating ductwork shall be removed under negative pressure enclosure and disposed of as general construction debris. In areas where heating ductwork is inadvertently damaged during the selective demolition of wall or ceiling systems, the HMAC shall dispose of the impacted plaster or sheetrock as asbestos contaminated waste. Plaster and sheetrock ceilings not coated with asbestos containing texture ceiling paint can be disposed of as general construction debris.

J. The HMAC shall be responsible for select demolition of non-asbestos containing suspended acoustic ceiling tiles to facilitate the removal of asbestos-containing texture ceiling paint. Wood furring or ceiling grids that are directly attached to ceiling with texture ceiling paint shall be cleaned free of debris and visually inspected by a CT DPH licensed Asbestos Project Monitor prior to leaving containment. If the HMAC finds that the components cannot be cleaned then HMAC shall disposed of the furring and ceiling grids as asbestos contaminated waste.

K. The HMAC shall remove the entire ceiling system that contains texture ceiling paint. The ceiling debris shall be disposed of as asbestos containing waste.

L. The cloth woven electrical wiring with knob and tubing is assumed to be asbestos and shall be sampled once electrical wiring is deenergized and a licensed electrician confirms that the wires are no longer energized. If the wiring will be removed to support the renovation project, unit pricing to remove the wiring as asbestos containing waste has been established for the project.

M. If it is determined that the wiring or knob and tubing is asbestos containing then the removal and cutting of electrical wiring shall either be performed under a negative pressure enclosure and disposed of as asbestos containing waste or glovebagged and where cutting is required Following the cutting to properly dislodge the wiring from the substrate or end , the HMAC may remove the wiring as non-disturbance removal.

N. The HMAC shall remove screws/pins and unhinge basement window sashes without breaking or removing glass panes. This work shall be performed as non-disturbance removal. All loose window glazing compound on horizontal surfaces shall be HEPA vacuumed and disposed of as

mixed hazardous asbestos-containing and lead waste. Window frames shall remain intact per the Architect's plans.

O. The HMAC shall be responsible for relocating any remaining stored items or furniture that are within work areas to temporary storage areas outside the work areas.

P. The HMAC is directed to review Sections 02 09 00 Lead-Based Paint Hazard Reduction for additional requirements affecting the work of this section.

Q. If rental equipment will be utilized during abatement activities, the HMAC shall provide written acknowledgement to the rental equipment provider and copy the Owner's Consultant stating that equipment will be used during hazardous material removal and will be thoroughly decontaminated prior to being returned.

1.4 QUALITY ASSURANCE

A. The HMAC shall be licensed by the State of Connecticut Department of Public Health (DPH) to perform asbestos abatement.

B. The Asbestos Abatement Supervisor(s) and Asbestos Abatement Workers shall be accredited in accordance with EPA regulation 40 CFR Part 763, subpart E, Appendix C; and shall be licensed by the State of Connecticut Department of Public Health.

1.5 APPLICABLE CODES

A. The HMAC shall be solely responsible for conducting this project and supervising all work in a manner that will be in conformance with all federal, state and local regulations and guidelines pertaining to asbestos abatement. Specifically, the HMAC shall comply with the requirements of the following:

1. USEPA NESHAP Regulations (40 CFR 61, Subpart M);
2. OSHA Asbestos Regulations (29 CFR 1910.1001 and 1926.1101);
3. Connecticut DEEP Regulations (Section 22a-209-8 (I) and Section 22a-220 of the Connecticut General Statutes);
4. Connecticut DPH Standards for Asbestos Abatement Sections 19a-332a-1 to 19a-332a-16;
5. Connecticut DPH Licensure and Training Requirements Section 20-440-1 to Section 20-440-9.
6. Connecticut Basic Building Code (BOCA);
7. Connecticut Fire Safety Code (NFPA);
8. Local health and safety codes, ordinances or regulations pertaining to asbestos remediation and all national codes and standards including ASTM, ANSI, and Underwriter's Laboratories.

1.6 EXEMPTIONS

A. This project was designed by a State of Connecticut Department of Public Health licensed Asbestos Abatement Designer. Any deviation from these specifications requires the written approval and authorization from the Designer.

B. Any deviations from CTDPH Standards for Asbestos Abatement Sections 19a-332a-1 through 19a-332a-16 must be requested in writing and must be approved in writing by CTDPH.

1.7 NOTIFICATIONS, POSTINGS AND PERMITS

A. The HMAC shall make the following notifications and provide the submittals to the following agencies prior to the commencement of removal work for each building. This notification is required ten (10) days (10 calendar days for CTDPH and 10 business days for USEPA) prior to the start of the abatement project:

1. State of Connecticut
Department of Public Health
Indoor Air Program, MS #12 AIR
410 Capitol Avenue
P.O. Box 340308
Hartford, CT 06134-0308

2. USEPA New England Headquarters
5 Post Office Square, Suite 100
Boston, Massachusetts 02109-3912

Note: Effective December 14, 2017, EPA needs to be notified directly for all asbestos abatement projects involving >160 square feet or >260 linear feet or 35 cubic feet of ACM.

B. The minimum information included in the notification includes:

1. Name and address of building owner/operator
2. Building location
3. Building size, age, and use
4. Amount of friable asbestos
5. Work schedule, including proposed start and completion date
6. Asbestos removal procedures to be used
7. Name and location of disposal site for generated asbestos waste, residue, and debris

C. Ten day notifications shall be posted for each individual phase of the project.

1.8 WORK SITE SAFETY PLAN

A. The HMAC shall establish a set of emergency procedures and shall post them in a conspicuous place at the work site. The safety plan should include provisions for the following:

1. Evacuation of injured workers.
2. Emergency and fire exit routes from all work areas.
3. Emergency first aid treatment.
4. Local telephone numbers for emergency services including ambulance, fire, and police.
5. A method to notify workers in the event of a fire or other emergency requiring evacuation of the building.
6. 24 hour site security program.

B. The HMAC is responsible for training all workers in these procedures.

1.9 ALTERNATIVE WORK PRACTICES (AWP)

A. No AWPs have been submitted or approved for this project.

B. Any deviations from these specifications require the written approval and authorization from the Owner and Consultant.

C. Any deviations from CTDPH Standards for Asbestos Abatement Sections 19a-332a-1 through 19a-332a-16 must be requested in writing and must be approved in writing by CTDPH.

1.10 RE-OCCUPANCY CLEARANCE

A. Re-occupancy air sampling will be required within all interior work areas. Nonessential personnel are not allowed to access work areas prior to receiving passing final visual inspection, passing re-occupancy air monitoring and complete removal of negative pressure enclosure.

B. The Owner shall be responsible for payment of the sampling and analysis of initial final air clearance samples only. The HMAC shall be responsible for payment of all costs associated with the collection and analysis of additional final air clearance samples for areas that failed the initial test.

C. Phase Contrast Microscopy (PCM) air samples will be analyzed by the Owner's Consultant. Transmission Electron Microscopy (TEM) samples will be analyzed by an accredited laboratory on a 24-hour turnaround time. The turnaround time starts once the samples are received at the laboratory.

1.11 CONTROL OVER REMOVAL WORK

A. All HMAC work procedures shall be monitored by the HMAC's "Competent Person" to ensure that areas outside the designated work locations do not become contaminated. The following controls shall be implemented each working day to help ensure this:

B. Prior to work on any given day, the HMAC's designated "Competent Person" shall evaluate job tasks with respect to safety procedures and requirements specified to prevent contamination of the building or the employees working in other sections of the building. This includes a visual survey of the work area and the decontamination enclosure systems.

C. The HMAC shall maintain control of and be responsible for access to all work areas to ensure the following requirements:

1. Nonessential personnel are prohibited from entering the area;
2. All authorized personnel entering the work area shall sign the work area entry log;
3. All authorized personnel entering the work area shall read the "worker protection procedures" which are posted at the entry points to the enclosure system, and shall be equipped with properly fitted respirators and protective clothing;
4. All personnel who are exiting from the decontamination enclosure system shall be properly decontaminated;
5. Asbestos waste that is taken out of the work area must be properly bagged and labeled in accordance with these specifications. The surface of the bags shall be decontaminated. Asbestos waste leaving the enclosure system must be transported off site or immediately

placed in locked, posted temporary storage on site, and be removed within 24 hours of the project conclusion.

6. Any material, equipment, or supplies that are brought out of the decontamination enclosure system shall be cleaned and decontaminated by wet cleaning and/or HEPA vacuuming of all surfaces.

1.12 SITE SECURITY

A. The HMAC shall be responsible for the security of regulated areas. Post asbestos abatement warning signs at entrances to the work area including the waste load out and worker decontamination chamber. The HMAC shall have a supervisor monitoring the entrance of the worker decontamination chamber during abatement work.

B. The supervisor shall maintain a work area access log for each work area. The access log shall document each person that enters the work area, the time entered and the time exited. Copies of the work area access logs shall be provided to the Owner's Consultant during the course of the project.

1.13 PERSONNEL PROTECTION

A. Prior to commencing work, instruct all workers in all aspects of personnel protection, work procedures, emergency procedures use of equipment including procedures unique to this project.

B. Respiratory protection shall meet the requirements of OSHA as required in 29 CFR 1910.134, 29 CFR 1926.11, 29 CFR 1926.62 and the requirements of the CTDPH Standards for Asbestos Abatement (19a-332a-1 through 16). A formal respiratory protection program must be implemented in accordance with 29 CFR 1926.1101 and 29 CFR 1910.134. The HMAC shall conduct exposure assessment air sampling, analysis and reporting to ensure the workers are using appropriate respiratory protection.

C. The HMAC shall provide appropriate respiratory protection for each worker and ensure usage during potential asbestos exposure.

D. The HMAC shall provide respirators from among those approved as being acceptable for protection by the National Institute for Occupational Safety and Health (NIOSH) under the provisions of 30 CFR Part II.

E. The HMAC shall provide an adequate supply of filter for respirators in use.

F. Minimum respiratory protection shall be as follows:

Air borne Asbestos Level:	Required Respirator:
Not in excess of 1 f/cc (10 x PEL)	Half mask air purifying or otherwise as required respirator other than a disposable respirator, equipped with HEPA P 100 filters.
Not in excess of 5 f/cc (50 x PEL)	Full facepiece air purifying respirator equipped with HEPA P 100 filters.

Not in excess of 10 f/cc (100 x PEL)	Any powered air purifying respirator equipped with HEPA P 100 filters or any supplied air respirator operated in continuous flow mode.
Not in excess of 100 f/cc (1000 x PEL)	Full facepiece supplied air respirator operated in pressure demand mode.
Greater than 100 f/cc (1000 x PEL)	Full facepiece supplied air respirator unknown operated in pressure demand mode, equipped with an auxiliary positive pressure self-contained breathing apparatus.

Notes:

1. Respirators assigned for higher airborne fiber concentrations may be used at lower concentrations.
2. A high efficiency filter means a filter that is at least 99.97 percent efficient against mono-dispersed particles of 0.3 micrometers in diameter or larger.
3. In addition to the selection criteria in paragraph 1.13F, the HMAC shall provide a tight-fitting powered air purifying respirator equipped with high efficiency filters or a full facepiece supplied air respirator operated in the pressure demand mode equipped with HEPA egress cartridges or an auxiliary positive pressure self- contained breathing apparatus for all employees within the regulated area where Class I work is being performed for which a negative exposure assessment has not been produced and the exposure assessment indicates the exposure level will not exceed 1 f/cc as an 8-hour time weighted average. A full facepiece supplied air respirator operated in the pressure demand mode equipped with an auxiliary positive pressure self-contained breathing apparatus shall be provided under such conditions if the exposure assessment indicates exposure levels above 1 f/cc as an 8 hour time weighted average.
4. If compresses air is used for supplied air respirators, this air will meet the requirements for grade D breathing air as described by the Compresses Gas association commodity Specification G-7.1-1966. The compressor will be equipped with the necessary safety devices and sorbends/filters, and be situated to avoid entry of contaminated air. In addition, the compressor will be equipped with alarms to indicate failure or overheating, and additional alarms for indicating the presence of carbon monoxide. Air line couplings will be incompatible with outlets for other gas system to prevent inadvertent servicing of air line respirators with non-respirable gases.
5. The HMAC shall provide and require all workers to wear protective clothing in Work Areas where asbestos fiber concentration exceeds permissible limits established by the OSHA or where contamination exists. Protective clothing shall include impervious coveralls with elastic wrists and ankles, head covering, gloves and foot coverings.

G. The HMAC shall ensure that all authorized persons entering contaminated areas are equipped with proper respirators and protective clothing.

1.14 WORKER PROTECTION PROCEDURES

A. The HMAC shall monitor airborne asbestos concentrations in the workers' breathing zone to establish conditions and work procedures for maintaining compliance with OSHA Regulations 29 CFR 1910.1001 and 1926.1001.

B. The HMAC's air sampling professional shall document all air sampling results and provide all air sampling reports as soon as feasible. OSHA air monitoring results shall be posted at a conspicuous location at the job site.

C. All personnel air sampling shall be conducted in accordance with methods described in OSHA standards 29 CFR 1910.1001 and 1926.1101.

1.15 SUBMITTALS

A. The HMAC will submit two (2) copies of the following submittals to the Owner's Consultant ten (10) calendar days prior to the commencement of removal work:

1. HMAC's construction schedule
2. Shop drawings showing work area configuration with decontamination facility and negative air exhaust locations
3. Waste generator label to be used
4. Waste shipment and disposal form to be used with generated information.
5. Waste hauling contractor
6. Asbestos abatement training, licenses, medical and respirator fit-test records of each employee who may be on the project site
7. The qualifications of the hygiene firm that the HMAC proposes to use for this project to analyze HMAC employee OSHA exposure monitoring samples
8. Copies of all notifications and permits
9. Copies of the written respirator plan compliant with the most current issue of OSHA 1910.134
10. Copies of all SDS sheets for materials to be used on site
11. Work Site Safety Plan
12. Negative Exposure Assessment, if any
13. HMAC's State of Connecticut Asbestos Contractor license
14. State and Federal Notification forms

B. The HMAC will submit the following to the Owner's Consultant during the work:

1. Results of all personal air sampling
2. Certificate, training, medical, and fit-test records for new employees to start work (24 hours in advance of work).
3. HMAC site logs and containment access logs
4. Revised Notification, if any.
5. Completed waste shipment records for all asbestos waste transported from the site.

C. The following shall be submitted to the Owner's Consultant at the completion of work:

1. Completed copies of Waste Shipment Records (WSR).
2. Remaining personal air sampling results and site logs.

1.16 DEFINITIONS

A. ABATEMENT - Procedures to control fiber release from asbestos-containing materials; includes removal, encapsulation, and enclosure.

B. AIRLOCK - A system for permitting ingress and egress while assuring air movement to a contaminated area from an uncontaminated area. Two curtained doorways spaced a minimum of six feet apart can form an airlock.

C. AIR MONITORING - The process of measuring the fiber concentration of an area or of a person.

D. AIR SAMPLING PROFESSIONAL – A licensed professional capable of developing air sampling protocols and conducting air monitoring and analysis. This individual should be an industrial hygienist, an environmental scientist, or an engineer with experience in asbestos air monitoring and worker protection equipment and procedures. This individual should have demonstrated proficiency in conducting air sample collection in accordance with 29 CFR 1910.1001 and 1926.1101.

E. ADEQUATELY WETTED - means sufficiently mixed or coated with water, amended or an aqueous solution; or the use of removal encapsulant to prevent dust emissions.

F. AMENDED WATER - Water to which a surfactant has been added.

G. ASBESTOS - The name given to a number of naturally occurring fibrous silicates. This includes the serpentine forms and the amphiboles and includes chrysotile, amosite, crocidolite, tremolite, anthophyllite, and actinolite, or any of these forms that have been chemically altered.

H. ASBESTOS ABATEMENT - Means the removal, encapsulation, enclosure, renovation, or repair of asbestos-containing materials except activities that are related to the removal or repair of asbestos cement pipe and are performed by employees of a water company as defined in Section 25-32a of the Connecticut General Statutes.

I. ASBESTOS ABATEMENT SITE SUPERVISOR - Means any licensed individual who is employed or engaged by an HMAC to supervise an asbestos abatement project.

J. ASBESTOS ABATEMENT WORKER - Means any employee of an HMAC who engages in asbestos abatement.

K. ASBESTOS CONSULTANT - Any person who engages in any activity directly involved with asbestos consultation services and who has been issued a certificate by the commissioner and a license by the department.

L. ASBESTOS CONTAINING MATERIAL (ACM) - A material composed of asbestos of any type and in an amount equal to or greater than one percent be weight, either alone or mixed with other fibrous or nonfibrous material.

M. ASBESTOS CONTRACTOR - Any person or entity engaged in asbestos abatement whose employees actually perform asbestos abatement work.

N. ASBESTOS CONTROL AREA - An area where asbestos abatement operations are performed which is isolated by physical boundaries to prevent the spread of asbestos dust, fibers, or debris.

O. ASBESTOS FIBERS - Those particles with a length greater than five (5) microns and a length to diameter ratio of 3: 1 or greater.

P. ASBESTOS PERMISSIBLE EXPOSURE LIMIT (PEL) - The maximum airborne concentration of asbestos fibers to which an employee is allowed to be exposed. The current level established by OSHA is 0.1 fibers per cubic centimeter of air as an eight (8) hour time weighted average and 1.0 fibers/cc averaged over a sampling period of 30 minutes as an excursion limit. The HMAC is responsible for maintaining work areas in a manner that this standard is not exceeded.

Q. ASBESTOS PROJECT MONITOR - The licensed asbestos consultant who is certified as a project monitor and who functions as an on-site Consultant of the facility Owner or other persons by over-seeing the activities of the asbestos abatement contractor.

R. AUTHORIZED VISITOR - Any person authorized by the Owner to enter the building.

S. BUILDING OWNER - For this Contract only, the building Owner is Ansonia Housing Authority.

T. CLEAN ROOM - An uncontaminated area or room, which is a part of the workers' decontamination enclosure with provisions for storage of workers' street clothes and protective equipment.

U. CLEARANCE SAMPLING - Final air sampling performed aggressively after the completion of the abatement project in a regulated area. Five (5) air samples collected by the asbestos abatement project monitor inside the work area, and having a fiber concentration of less than 0.010 fibers/cc of air will denote acceptable clearance sampling by Phase Contrast Microscopy. Five air samples collected by the asbestos abatement project monitor having an average asbestos concentration of less than 70 asbestos structures mm/sq. will denote acceptable clearance sampling for Transmission Electron Microscopy.

V. COMMISSIONER - Means the Commissioner of the Connecticut Department of Health Services or his/her authorized agent.

W. COMPETENT PERSON - A Consultant of the HMAC who is capable of identifying an asbestos hazard and who has the authority to take prompt corrective measures to eliminate the hazard during asbestos removal.

X. CONFINED SPACE - A work zone where access and egress are restricted, a potential for gaseous vapors to accumulate exist, or a potential for low oxygen content exists.

Y. DECONTAMINATION ENCLOSURE SYSTEM - A series of connected areas, with curtained doorways between any two adjacent areas, for the decontamination of workers and equipment. A decontamination enclosure system always contains at least one airlock and is adjacent and connected to the regulated area, where possible.

Z. DEPARTMENT – The State of Connecticut Department of Public Health.

AA. EPA - Means the U.S. Environmental Protection Agency.

BB. ENCAPSULANT - A liquid material that can be applied to asbestos-containing material that controls the possible release of asbestos fibers from the materials by either creating a membrane over the surface (bridging encapsulant) or penetrating the material and binding its components together (penetrating encapsulant).

CC. ENCAPSULATION - A specified asbestos remediation strategy involving the application of an encapsulant to asbestos containing materials to control the release of asbestos fibers into the air.

DD. EQUIPMENT DECONTAMINATION ENCLOSURE - That portion of a decontamination enclosure system designed for controlling the transfer of materials and equipment, typically consisting of a washroom and a holding area.

EE. EQUIPMENT ROOM - A contaminated area or a room, which is part of the workers' decontamination enclosure with, provisions for storage of contaminated clothing and equipment.

FF. FACILITY - Means any private or public building or structure including but not limited to those used for institutional, residential (including single family homes), commercial or industrial purposes and vessels while ashore or in dry-dock.

GG. FIXED OBJECT - A unit of equipment or furniture in the work areas which cannot be removed from the work area.

HH. FRIABLE ASBESTOS MATERIAL - Any material that contains more than 1% asbestos by weight, that can be crumbled, pulverized or reduced to powder by hand pressure.

II. GLOVE BAG - An impervious plastic bag-like enclosure affixed around asbestos containing material, with glove-like appendages through which materials and tools may be handled.

JJ. HAZARDOUS MATERIALS ABATEMENT CONTRACTOR (HMAC) - Means the Asbestos Contractor, Lead Based Paint Abatement Contractor, PCB Remediation and/or Universal Waste Removal Contractor.

KK. HEPA FILTER - A high efficiency particulate air (HEPA) filter in compliance with ANSI Z9.2-1979.

LL. HEPA VACUUM EQUIPMENT - Vacuum equipment with a HEPA filter system for filtering the effluent air from the unit.

MM. HOLDING AREA - An air-locked chamber in the equipment decontamination enclosure located between the washroom and an uncontaminated area.

NN. INSPECTOR (ASBESTOS ABATEMENT PROJECT MONITOR)- An individual, retained by the Building Owner, who is a "qualified asbestos abatement project monitor" as defined by the State of Connecticut Department of Public Health, and who will be responsible for monitoring the HMAC during the asbestos abatement project.

OO. MOVABLE OBJECT - A unit of equipment or furniture in the work area, which can be removed from the work area.

PP. NEGATIVE AIR FILTRATION EQUIPMENT - A portable local exhaust system equipped with HEPA filtration used to create negative pressure in a regulated area (negative with respect to adjacent unregulated areas) and capable of maintaining a constant, low velocity air flow into regulated areas from adjacent unregulated areas.

QQ. OWNER'S CONSULTANT -The Asbestos Consultant for the project.

RR. NESHAPS - National Emissions Standard for Hazardous Air Pollutants regulations enforced by the EPA.

SS. PLASTICIZE - To cover floors and walls with plastic sheeting as specified herein.

TT. SEPARATION BARRIER - A rigid barrier sealed with two (2) layers of six (6) mil polyethylene sheeting installed between an occupied area and the asbestos abatement work area.

UU. SHOWER ROOM - A room between the clean room and the equipment room in the workers' decontamination enclosure with hot/cold running water and suitably arranged for employee showering during decontamination. The shower room is located in an airlock between the contaminated area and the clean area.

VV. STRIPPING - Removing asbestos materials from any structural member, pipe surface, HVAC, or other equipment.

WW. WASHROOM - A room between the work area and the holding area in the equipment decontamination enclosure with provisions for storage of contaminated clothing and equipment.

XX. WET CLEANING - The process of reducing asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning tools, which have been dampened by amended water, and by then disposing of these cleaning items as asbestos contaminated waste.

YY. WORK AREA - Designated rooms, spaces, or areas of the project in which asbestos abatement actions are occurring and which may become contaminated as a result of such abatement actions. The work area must be totally self-contained by sealing, plasticizing and equipping the area with a decontamination enclosure system.

ZZ. WORKER DECONTAMINATION ENCLOSURE SYSTEM - That portion of a decontamination enclosure system designated for controlled passage of workers, other personnel, and authorized visitors, typically consisting of a clean room, a shower room, and an equipment room.

AAA. WORK STOPPAGE CLEANUP PROCEDURE - A process following the issuance of a written stop work order, whereby the HMAC thoroughly cleans and decontaminates the work area, the decontamination enclosure system, and any other areas of the building affected by the removal project, to the satisfaction of the Asbestos Project Monitor.

BBB. WORK ZONE - The area of the decontamination enclosure system where asbestos is being removed.

1.17 PRECONSTRUCTION MEETING

A. The HMAC shall be required to attend a preconstruction meeting with his/her site supervisor, any subcontractor they employ on site for the purpose of reviewing the contract requirements.

PART 2 - MATERIALS AND EQUIPMENT

2.1 MATERIALS

A. Deliver all materials in the original packages, containers, or bundles bearing the name of the manufacturer and the brand name and product technical description.

B. Damaged or deteriorating materials shall not be used and shall be removed from the premises. Material that becomes contaminated with asbestos shall be decontaminated or disposed of as asbestos waste.

C. Polyethylene sheet in a roll size to minimize the frequency of joints shall be delivered to job site with factory label indicating 4 or 6 mil.

D. Polyethylene disposable bags shall be true six (6) mil with preprinted labels.

E. Tape shall be capable of sealing joints in adjacent polyethylene sheets and for attachment of polyethylene sheets to finished or unfinished surfaces of dissimilar materials and capable of adhering under both dry and wet conditions, including use of amended water.

F. Surfactant (wetting agent) - shall consist of fifty (50) percent polyoxyethylene ether and fifty (50) percent polyoxyethylene ester, or equivalent, and shall be mixed with water to provide a concentration of one (1) ounce surfactant to five (5) gallons of water or as directed by manufacturer.

G. Impermeable containers are to be used to receive and retain any asbestos-containing or contaminated materials until disposal at an acceptable disposal site. (The containers shall be labeled in accordance with OSHA Standard 29 CFR 1926-1101.) Containers must be both air and watertight.

H. Labels and signs, as required by OSHA Standard 29 CFR 1926.1001 will be used.

I. Encapsulant shall be bridging or penetrating type which has been found acceptable to Eagle Environmental. Usage shall be in accordance with manufacturer’s printed technical data.

J. Disposal labels shall be preprinted on self-adhesive labels with the generator name, abatement site and HMAC's name and address. Labels shall not be photocopied and applied with spray adhesive.

2.2 TOOLS AND EQUIPMENT

A. Provide suitable tools for asbestos removal, encapsulation and enclosure.

B. The HMAC shall have air monitoring equipment of type and quantity to monitor operations and conduct personnel exposure surveillance per OSHA requirements.

C. The HMAC shall have available sufficient inventory on site for materials necessary for the job including protective clothing, respirators, filter cartridges, polyethylene sheeting of proper size and thickness, tape, and air filters.

D. The HMAC shall provide temporary electrical power sources such as generators (when required).

E. The HMAC shall have available shower stalls and sufficient hose length and a drain system equipped with 5-micron filters.

F. Exhaust air filtration system units shall contain HEPA filter(s) capable of sufficient air exhaust to create negative pressure of 0.02 inches of water within the enclosure with respect to the outside area. Equipment shall be checked for proper operation by smoke tubes or a differential pressure gauge before the start of each shift and at least twice during the shift. Adequate exhaust air shall be provided for a minimum of four (4) air changes per hour within the enclosure. No air movement system or air filtering equipment shall discharge unfiltered air outside.

G. Vacuum units, of suitable size and capacities for project, shall have HEPA filter(s) capable of trapping and retaining at least 99.97 percent of all monodispersed particles of 0.3 micrometers in diameter or larger.

H. The HMAC will have reserve exhaust air filtration system units in order to maintain negative air filtration in the event that a unit malfunctions during use.

I. The HMAC shall have available and use recording manometers to monitor pressure differential between the work area and occupied areas of the building. A minimum negative pressure differential of 0.02 inches of water column shall be maintained.

J. The HMAC shall have available spray equipment capable of mixing a wetting agent with water and capable of generating sufficient pressure and volume and having sufficient hose length to reach all areas with asbestos.

K. HEPA filtered local exhaust ventilation shall be utilized during the installation of enclosures and supports where asbestos-containing materials may be disturbed.

PART 3 - EXECUTION

3.1 INTERIOR WORK AREA PREPARATION - GENERAL

A. Provide GFCI devices, temporary power, and temporary lighting installed in compliance with the applicable electrical codes. All temporary installations are to be made by a licensed electrician.

B. Shut down electrical power, including receptacles and light fixtures. Lock and tag out circuits associated with the electrical components in the work area(s). Under no circumstances during the abatement and ceiling demolition procedures will lighting fixtures be permitted to be energized.

C. Shut down and/or isolate heating, cooling, and ventilation air systems or zones to prevent contamination and fiber dispersal to other areas of the structure. Lock and tag out circuits associated with heating and cooling units. During the work, vents within the work area shall be sealed with duct tape and polyethylene sheeting.

D. Seal off all openings, including but not limited to windows, corridors, doorways, skylights, grills, diffuser and any other penetration of the work areas, with polyethylene sheeting minimum of six (6) mils thick sealed with duct tape. This includes doorways and corridors which will not be used for passage during work areas and occupied areas. Install 5 micron water filtration socks in all floor drains prior to sealing.

E. Establish worker decontamination facility, critical barriers and negative air filtration prior to conducting pre-cleaning activities. Pre-clean fixed objects within the work areas, using HEPA

vacuum equipment and/or wet cleaning methods as appropriate, and enclose with minimum six (6) mil plastic sheeting sealed with duct tape.

F. Pre-clean movable objects within the work areas, using HEPA vacuum equipment and wet cleaning methods as appropriate. Do not use methods that raise dust, such as dry sweeping or vacuuming with equipment not equipped with HEPA filters.

G. After HEPA vacuum pre-cleaning, conduct work area preparation in accordance with this Specification section.

H. Where fixed walls are not used, one layer of six (6) mil polyethylene sheeting will be applied to a rigid framework of wood, metal, or PVC.

I. Install two layers of four (4) mil polyethylene wall sheeting over all wall surfaces and critical barrier (where wall materials are not being removed as ACM). All overlaps shall be sealed with tape.

J. Where flooring materials are not scheduled to removal, cover all floors in the work area with two layers of six (6)-mil polyethylene sheeting (where flooring materials are not being removed as ACM). Extend the polyethylene flooring a minimum of twelve (12) inches up the walls. Ensure that the wall sheeting overlaps the floor sheeting from the top.

K. Maintain emergency and fire exits from the work area, or establish alternative exits satisfactory to fire officials.

L. Create pressure differential between work areas and occupied areas by the use of acceptable negative air pressure equipment. The HMAC shall ensure required negative air pressure is obtained throughout the containment and the total volume of air within the work area is changed every fifteen (15) minutes.

M. Install and maintain a manometer for each negative pressure enclosure where Class I work (ductwork insulation paper) will be performed.

N. Post all approaches to each work area with Asbestos Warning signs. Warning signs shall be of size and type that are easily readable and are visible from all approaches to the work areas.

3.2 CONTIGUOUS PERSONNEL DECONTAMINATION SYSTEM

A. The HMAC shall establish contiguous to each work area, where feasible, a personnel decontamination system consisting of equipment room, shower room and clean room in series. Access between the contaminated and uncontaminated areas shall be through this decontamination enclosure only. The decontamination system shall be constructed of two layers of six-mil polyethylene sheeting. Pre-fabricated "pop-up" decontamination chambers will not be permitted on this project.

B. Access between rooms in decontamination system shall be through double flap-curtained openings. Clean room, shower room and equipment room within decontamination system shall be completely sealed ensuring that the sole source of air flow through this area originates from uncontaminated areas outside the work area.

C. The shower unit shall be equipped with an adequate supply of warm water. A shower filtration pump containing two 5 micron sock filters or the best available technology shall be installed to filter shower water. Filtered shower water shall be discharged into sanitation drains and shall not be discharged into storm drains or onto floor or ground surfaces.

D. The shower room shall have soap and an adequate supply of drying towels. Provide an adequate number of shower units in accordance with OSHA 29 CFR 1926.1101.

3.3 REMOTE PERSONNEL DECONTAMINATION SYSTEM

A. The HMAC shall establish a remote personnel decontamination system where contiguous decontamination systems are not feasible. The use of such remote decontamination unit must be indicated in the State Notification. Access between the contaminated and uncontaminated areas shall be through this decontamination enclosure only. The decontamination system shall be constructed of two layers of six-mil polyethylene sheeting. Pre-fabricated "pop-up" decontamination chambers will not be permitted on this project.

B. Access between rooms in decontamination system shall be through double flap-curtained openings. Clean room, shower room and equipment room within decontamination system shall be completely sealed ensuring that the sole source of air flow through this area originates from uncontaminated areas outside the work area.

C. The shower unit shall be equipped with an adequate supply of warm water. A shower filtration pump containing two 5 micron sock filters or the best available technology shall be installed to filter shower water. Filtered shower water shall be discharged into sanitation drains and shall not be discharged into storm drains or onto floor or ground surfaces.

D. The shower room shall have soap and an adequate supply of drying towels. Provide an adequate number of shower units in accordance with OSHA 29 CFR 1926.1101.

3.4 WASTE LOAD OUT SYSTEMS

A. The HMAC shall establish waste load out systems, where feasible, attached to the work areas. Waste load out systems shall consist of a minimum of two (2) chambers that are of suitable size for transporting waste out of the work area. Waste load out systems shall be constructed of two layers of six-mil polyethylene sheeting.

B. Access between rooms in the waste load out system shall be through double flap-curtained openings. The waste load out system shall be used for decontaminating waste containers, bags, bundles, etc. prior to removal from the work area and transporting waste from the work area to the non-work area.

C. Persons working inside the contaminated work area are not permitted to pass from the work area to the non-work area through the waste load out system. Persons inside the contaminated work area shall not be permitted to enter into the clean area of the waste load out system.

D. The waste load out system shall remain sealed at all times except during decontamination of waste containers and transport of waste from the work area to the non-work area.

3.5 EXTERIOR WORK AREA PREPARATION – NON-FRIABLE ASBESTOS CONTAINING MATERIALS

A. Where exterior non-friable ACM is to be removed outdoors, post asbestos abatement warning signs and erect temporary barricades to create regulated areas. Regulated areas should be kept clear of any persons not fully trained and protected against exposure.

B. Install single six (6) mil drop cloths extending a minimum of ten (10) feet away from and one (1) foot up on the exterior wall of the building. Extend polyethylene sheeting outward from the base of the structure in order to collect debris when working from higher elevations. Install single six (6) mil critical barriers over any louver, vent or penetration into the building interior within or directly adjacent to the regulated area.

C. Maintain an operable remote worker decontamination chamber during exterior abatement work unless a Negative Exposure Assessment is submitted for the exterior abatement work.

D. Maintain a work area access log at each exterior regulated work area. Access into the regulated area shall be established at a designated location.

3.6 ASBESTOS REMOVAL PROCEDURE - GENERAL

A. The HMAC shall have a designated "Competent Person" on the job at all times to ensure establishment of a proper enclosure system and proper work practices throughout the project. At a minimum, the HMAC Competent Person shall perform or supervise the following duties, as applicable:

1. Ensure the integrity of the containment or enclosure.
2. Set up procedures to control entry to and exit from the enclosure.
3. Supervise employee exposure monitoring.
4. Ensure that employees set up, use and remove engineering controls, use work practices and personal protective equipment in compliance with OSHA regulations.
5. Ensure that employees use the worker decontamination facilities and observe decontamination procedures.

B. Abatement work will not commence until all work area preparation is completed in accordance with this technical specification section.

C. Spray asbestos materials with amended water using airless spray equipment or apply removal wetting agent to reduce the release of fibers during removal operation.

D. Spraying of amended water shall be adequate enough to allow the ACM to absorb the water. Actual removal of ACM shall not be allowed until all ACM has become adequately wet.

E. Do not create any visible emissions during asbestos removal. Ensure all ACM is adequately wet prior to removal.

F. Fill disposal containers as removal proceeds. Seal filled containers before moving to waste load out system. Wet clean each container thoroughly, double bag, drum or use other approved containerization methods and apply a caution label before moving to holding area.

G. Remove and containerize all visible accumulations of asbestos-containing and/or asbestos-contaminated debris.

H. Solidify all liquid waste prior to containerization for disposal.

I. Sealed disposal containers and all equipment used in the work area shall be included in the cleanup and shall be removed from work areas, via the waste load out system at an appropriate time in the cleaning sequence.

J. The HMAC shall remove from each containment all abated asbestos containing materials at the end of each work shift.

K. At any time during asbestos removal, should the competent person suspect contamination of areas outside the work area(s), they shall cause to stop all abatement work until steps to decontaminate these areas and eliminate causes of such contamination are completed. Unprotected individuals shall be prohibited from entering suspected contaminated areas until air sampling and visual inspections certify decontamination.

L. Upon acceptance of the work area by the Owner's Consultant, the HMAC shall apply an even coating of bridging encapsulant with airless spray equipment to all exposed surfaces contained within the work area. Apply encapsulant in accordance with manufacturer's recommendation.

3.7 SPECIFIC REQUIREMENTS – ELECTRICAL WIRE GLOVEBAG

A. Where electrical wire is requires cutting to dislodge the wire from the substrate or service port the HMAC shall perform glovebag operation, post asbestos abatement warning signs and erect temporary barricades to create regulated areas. Regulated areas should be kept clear of any persons not fully trained and protected against exposure.

B. Provide GFCI devices and temporary power installed in compliance with the applicable electrical codes.

C. Pre-clean surfaces contaminated with ACM, using HEPA vacuum equipment or wet wiping as appropriate. Where friable asbestos containing materials are present, establish worker decontamination facility, critical barriers and negative air filtration prior to conducting pre-cleaning activities.

D. Install one layer of six (6) mil polyethylene sheeting on the ground below the work inside the regulated area. All overlaps shall be sealed with tape or spray adhesive.

E. Install six (6) mil glovebag in accordance with OSHA 1926.1101.

F. Post all approaches to each work area with asbestos warning signs. Warning signs shall be of size and type that are easily readable and are visible from all approaches to the work areas.

G. A minimum of two (2) workers will be required to perform glovebag removal activities. Perform removal in accordance with OSHA 1926.1101.

H. All applicable OSHA requirements and glovebag manufacturer's recommendations shall be met during glove bag operations. In the case where a glovebag is not feasible, the Contractor will need to build a full negative pressure containment of sufficient size and follow all regulations as it pertains to removal.

1. Mix the surfactant with water in the garden sprayer, following the manufacturer's directions.

2. Have each employee put on a HEPA filtered respirator approved for asbestos and check the fit using the positive/negative fit check.
3. Have each employee put on a disposable full-body suit. Remember, the hood goes over the respirator straps.
4. Check closely the integrity of the glove bag to be used. Check all seams, gloves, sleeves, and glove openings. OSHA requires the bottom of the bag to be seamless.
5. Attach glovebag with required tools per manufacturer's instructions.
6. Using the smoke tube and aspirator bulb, test 10% of glovebags by placing the tube into the water porthole (two-inch opening to glove bag), and fill the bag with smoke and squeeze it. If leaks are found, they should be taped closed using duct tape and the bag should be retested with smoke.
7. Insert the wand from the water sprayer through the water porthole.
8. Insert the hose end from a HEPA vacuum into the upper portion of the glove bag.
9. Wet with removal encapsulant and remove the pipe/cork insulation. Scrub remaining pipes with nylon pads to remove all asbestos residue.
10. If the section of pipe is covered with an aluminum jacket, remove it first using the wire cutters to cut any bands and the tin snips to remove the aluminum. It is important to fold the sharp edges in to prevent cutting the bag when placing it in the bottom.
11. When the work is complete, spray the pipe and upper portion of the bag and clean; push all residue into the bottom of the bag with the other waste material. Be very thorough. Use adequate water.
12. Put all tools, after washing them off in the bag, in one of the sleeves of glove bag and turn it inside out, drawing it outside of the bag. Twist the sleeve tightly several times to seal it and tape it several tight turns with duct tape. Cut through the middle of the duct tape and remove the sleeve. Put the sleeve in the next glove bag or put it in a bucket of water to decontaminate the tools after cutting the sleeve open.
13. Turn on the HEPA vacuum and collapse the bag completely. Remove the vacuum nozzle, seal the hole with duct tape, twist the bag tightly several times in the middle, and tape it to keep the material in the bottom during removal of the glove bag from the pipe.
14. Slip a disposal bag over the glove bag (still attached to the pipe).
15. Remove the tape securing the ends, and slit open the top of the glove bag and carefully fold it down into the disposal bag. Double bag and gooseneck waste materials.
16. Each glovebag shall pass a visual inspection by the Owner's Consultant prior to bag removal.
17. Following the removal of glovebag the HMAC shall remove the wiring as non-disturbance and dispose of as asbestos waste.

3.8 MINIMUM SPECIFIC ASBESTOS REMOVAL PROCEDURES – NON-DISTURBANCE WINDOW SASH REMOVAL

A. Workers performing the removal of basement window sashes with asbestos glazing compound shall be cross trained in asbestos abatement and lead awareness. HMAC workers must have a minimum of OSHA Lead Awareness training in accordance with CFR 1929.62.

B. Prior to the non-disturbance removal of basement window sashes with glazing compound, the HMAC shall ensure the work area is prepared in accordance with the requirements of Section 3.5 EXTERIOR WORK AREA PREPARATION – GENERAL and 3.3 REMOTE PERSONNEL DECONTAMINATION SYSTEM.

C. HMAC shall post asbestos abatement warning signs and erect temporary barricades to create regulated areas. Regulated areas should be kept clear of any persons not fully trained and protected against exposure.

D. Install single six (6) mil drop cloths under the area of work as a precautionary measure to collect any minor debris.

E. The HMAC shall HEPA vacuum all loose glazing compound from horizontal surfaces associated with the window opening.

F. The HMAC shall remove all hinges and hardware associated with sashes and shall provide disposal or proper recycling.

G. Following removal of sashes, any existing contamination or glazing compound that has become dislodged shall be HEPA vacuumed clean. The limits of the floor work area shall extend four feet from the exterior wall inward into the structure.

H. At the end of each work shift all waste shall be placed directly into the appropriate disposal dumpster. Do not allow waste to over accumulate creating a trip hazard. The HMAC shall ensure that no visible emissions are generated during any portion of the abatement operation.

I. Refer to section 02 09 00 LEAD PAINT DEMOLITION for additional abatement requirements.

J. Window sashes shall be disposed of as mixed waste, a combination of asbestos and hazardous lead waste.

K. Window sashes shall be wrapped in two (2) layers of 6-mil poly sheeting and transported from the work site to the disposal container in a fashion that does not cause additional debris to be dislodged from the sashes.

3.9 MINIMUM SPECIFIC ASBESTOS REMOVAL PROCEDURE – FLOOR TILE, FLOOR COVERINGS AND FLOORING ADHESIVES

A. Provide selective demolition to remove limited partition walls, raised flooring and plumbing fixtures to access all floor tiles and floor coverings, and flooring adhesives as specified herein.

B. Removal of all layers of flooring and associated adhesives down to substrate as shown on abatement plan drawings, this is included in the base work; no change order will be accepted. Floor leveling agents with asbestos-containing adhesives shall be removed and disposed of as asbestos-contaminated waste.

C. Minimum specific requirements relative to the removal of asbestos-containing non-friable flooring materials are as follows:

D. Prior to the removal of any non-friable flooring products, the HMAC shall ensure the work area is prepped in accordance with the requirements of Section 3.1 INTERIOR WORK AREA PREPARATION – GENERAL and 3.2 CONTIGUOUS PERSONNEL DECONTAMINATION SYSTEM.

E. The HMAC shall continuously mist the non-friable flooring products with amended water, removal encapsulant, or detergent solution, so that entire surface is wet. Do not allow wetting

agent to puddle, or run off to other areas. If removal encapsulant is used, use in strict accordance with the manufacturer's instructions.

F. Remove flooring materials including plywood layers using manual or mechanical methods. Continuously mist floor in area where flooring is being removed. Wet any debris generated as necessary to keep continuously wet.

G. Continuously pick up flooring materials and place in lined drums or in nylon mesh bags. Place nylon mesh bags into six (6) mil thick disposal bags with pre-printed OSHA warning labels. Ensure that all waste is placed in six (6) mil disposal bags during waste load out operations.

H. Following removal of gross flooring materials, there will be a layer of paper backing with adhesive remaining on the abated surface. The paper backing and adhesive where present shall be removed from the subfloor using manual scraping methods or grinder with a dust collection device fitted with a HEPA filtration system. Chemical strippers are prohibited. One worker shall be dedicated to continuously misting work area during grinder use.

I. The HMAC shall be responsible for removing all flooring layers including plywood from under floor leveling agents and shall remove and dispose of the floor leveling agents and underlying adhesive as asbestos waste.

J. The waste captured by grinder operation, if used, shall be removed from the grinder, wetted and disposed of as friable asbestos waste.

K. All liquid wastes shall be solidified once packaged for disposal. No liquid wastes shall be permitted to leave the site in liquid form.

3.10 MINIMUM SPECIFIC ASBESTOS REMOVAL PROCEDURE – FRIABLE DUCTWORK INSULATION PAPER

A. HMAC shall conduct selective demolition of walls and ceilings in order to access vertical and horizontal ductwork with insulation paper.

B. Prior to the removal of any friable ductwork insulation paper, the HMAC shall ensure the work area is prepared in accordance with the requirements of Section 3.1 INTERIOR WORK AREA Preparation – GENERAL and 3.2 CONTIGUOUS PERSONNEL DECONTAMINATION SYSTEM.

C. Seal heating registers with a single-layer of six (6) mil-polyethylene sheeting and tape in areas of the building that are not under a negative pressure enclosure and remain to be abated.

D. Utilizing an airless sprayer, the HMAC shall adequately wet all insulation prior to removal.

E. Remove insulated heating ductwork boots, horizontal length and vertical lengths in their entirety. Wet the material as removal proceeds.

F. Remove all visible residue insulation from ceiling decks, joists, hangers and perimeter wall sheathing using nylon scrub pads. Wire brushes are prohibited. Ensure material is adequately wet prior to sealing disposal bag.

G. Wet wipe and HEPA vacuum inside furnace plenums as far as can be reached if furnaces will remain following the abatement in the basement. Seal opening to furnace plenums with polyethylene sheeting.

H. All ACM shall be placed directly into disposal bags. Do not allow waste to accumulate on the ground. The HMAC shall ensure that no visible emissions are generated during any portion of the abatement operation.

I. Clean all joist, walls and miscellaneous items, which become exposed during removal of duct insulation.

3.11 MNIMUM SPECIFIC REMOVAL PROCEDURE – NONFRIABLE TEXTURE CEILING PAINT

A. Prior to the removal of asbestos-containing texture ceiling paint, the HMAC shall ensure the work area is prepared in accordance with the requirements of Part 3.1 INTERIOR WORK AREA PREPARATION – GENERAL and 3.2 CONTIGUOUS PERSONNEL DECONTAMINATION SYSTEM.

B. The HMAC shall have a designated "competent person" on the job at all times to ensure establishment of a proper enclosure system and proper work practices throughout project.

C. Manually remove all non-asbestos 12” x 12” ceiling tiles and dispose of as general construction debris. Furring or ceiling grids shall be cleaned free of texture ceiling paint and removed from containment for disposal as general construction debris. If furring strips and or ceiling grids are unable to be decontaminated they shall be disposed of as asbestos contaminated waste.

D. Remove all existing ceiling mounted light fixtures and conduit. Light fixtures and conduits shall be properly secured and affixed to ceiling joist following entire ceiling removal.

E. Adequately wet texture ceiling paint and remove the entire ceiling including wood lath on the plaster ceilings. Use manual methods to remove all layers of ceiling that the texture ceiling is on. Continuously wet plaster or sheetrock during removal to control visible emissions.

F. Following complete removal of ceiling, the HMAC shall seal all gaps and penetrations with a layer of 6-mil poly sheeting.

G. All ACM shall be placed directly into disposal bags. Do not allow waste to accumulate on the ground. The HMAC shall ensure that no visible emissions are generated during any portion of the abatement operation. Remove all waste from work area in accordance with Section 3.12 WASTE PACKAGING AND REMOVAL PROCECURE.

3.12 FINAL CLEANING AND ENCAPSULATION

A. Upon completion of gross removal of all ACM specified for removal, the HMAC shall begin final cleaning of the effected work area. The HMAC shall HEPA vacuum and wet wipe all surfaces contained within the work area.

B. All tools or equipment that are not necessary for final cleaning shall be decontaminated or bagged and removed from the work area enclosure.

C. The HMAC shall begin final cleaning procedures at the furthest and highest most points from the personnel decontamination unit and move towards the unit. The HMAC shall ensure that all exposed building components and or surfaces are thoroughly HEPA vacuumed and wet wiped.

D. The HMAC shall HEPA vacuum and wet wipe any component specified to remain inside the work area enclosure.

E. The HMAC shall thoroughly wet wipe all polyethylene sheeting inside the work area enclosure.

F. Once all surfaces and components within the work area have been thoroughly cleaned, AND THE WORK AREA IS DRY, the HMAC's Competent Person shall perform a visual inspection of all surfaces and components within the work area enclosure. The HMAC's Competent Person shall sign off on the work area stating that all abatement has been completed for that portion of work and that the work area has met the no visible residue criteria.

G. The HMAC's Competent Person shall then request a final visual inspection to be performed by the Owner's Consultant. The Owner's Consultant shall visually inspect all surfaces and components in the work area for residual debris and or dust. Work areas must be dry for final visual inspection. Inspections will not be performed in work areas where there is standing water or wet surfaces. Additional cleaning shall be performed at the HMAC's expense if the Owner's Consultant identifies visual debris and/or dust during the visual inspection. Additional cleaning shall be performed until the work area meets the no visible residue/dust criteria.

H. Upon acceptance of the work area by the Owner's Consultant, the HMAC shall apply an even layer of bridging encapsulant to all surfaces contained within the work area. The Owner's Consultant shall verify the completeness of work area encapsulation.

3.13 WASTE PACKAGING AND REMOVAL PROCEDURE

A. The HMAC shall strictly adhere to the requirements of this section for ACM waste packaging and transporting waste from the work area enclosure to the disposal dumpster.

B. Waste disposal bags and drums shall be affixed with pre-printed OSHA warning labels, DOT labels and NESHAP labels.

C. Each container of ACM waste shall be made adequately wet prior to sealing the container. Bags shall be sealed immediately following additional wetting procedures. Bags of ACM waste shall not be permitted to remain unsealed while in the work area enclosure.

D. Each bag of ACM waste shall be double-bagged during waste load out procedures. The following waste load out procedure shall be strictly adhered to:

E. Wet wipe inner bag or drum to remove all ACM contamination. Ensure the inner bag is sealed.

F. Transport bag or drum to the equipment room located in the worker decontamination enclosure.

G. One worker, equipped with personal protective equipment, shall be inside the clean room of the worker decontamination enclosure.

H. The worker in the clean room of the decontamination enclosure shall open a six-mil disposal bag and hold it open inside the shower room where the inner bag containing the ACM waste shall be placed.

I. The outer bag shall be sealed with duct tape inside the shower room.

J. The double bagged or drummed waste shall be removed from the decontamination enclosure and waste generator labels shall be immediately affixed to the outer bag or drum.

K. Waste generator labels shall be printed self-adhering labels and shall contain the Owner's name, the site location address, and the HMAC's name.

L. The properly labeled waste shall be transported directly to the lined waste container.

M. The waste container shall be double lined with 6-mil polyethylene sheeting.

N. OSHA warning signs shall be secured to the waste container prior to any loading and unloading operations.

O. The waste container shall be kept locked at all times other than loading and unloading.

3.14 DISPOSAL OF ASBESTOS AND ASBESTOS CONTAMINATED WASTE

A. All disposal of asbestos containing and or asbestos contaminated material must be in compliance with requirements of the Office of the Department of Environmental Protection, State of Connecticut Department of Public Health and the USEPA NESHAP regulations.

B. Disposal approvals shall be obtained from the CTDEEP before commencing asbestos removal if waste will be disposed of in Connecticut.

C. Waste container storage locations shall be pre-approved by the Owner and Owner's Consultant.

D. A copy of approved disposal authorization shall be provided to the Owner and Owner's Consultant and any required federal, state or local agencies.

E. Copies of all landfill receipts will be retained by the Owner's Consultant as part of the project file. The receipts will be signed by the landfill operator on receipt, and the quantity of asbestos debris leaving the job site and arriving at the landfill acknowledged.

F. All asbestos debris shall be transported in covered, sealed vans, boxes or dumpsters, which are physically isolated from the driver by an airtight barrier. All vehicles must be properly licensed to meet United States Department of Transportation (USDOT) requirements.

G. Friable ACM waste shall be placed in double lined enclosed waste containers equipped with a lockable hasp. Waste containers shall be posted with OSHA warning signs during loading and unloading.

H. All liquid waste generated during the work shall be solidified. At no time will liquid wastes be permitted to be stored on site. Liquid waste generated during this project shall be solidified prior to the end of each work shift.

I. Completed Waste Shipment Records (WSR) signed by the landfill must be returned to the Owner or Owner's Consultant no later than 45 days from the time the waste was transported off-site. Completed waste shipment records that are not received by the Owner within 35 days shall require the HMAC to begin tracking the waste. The HMAC must notify the Owner of intentions on tracking the waste.

J. The HMAC must take appropriate actions as outlined in 40 CFR Part 61 NESHAP regulations when completed WSR are not forwarded to the Owner or Owner's Consultant within 45 days from the time the waste was transported off-site.

3.15 REOCCUPANCY AIR CLEARANCE MONITORING

A. After the presealant visual inspection has passed and all surfaces in the abatement area have dried, reoccupancy air clearance monitoring will be performed. The primary and secondary barriers, worker decontamination enclosure, and negative air filtration units shall remain in place. At no time shall tools, ladders, vacuums or waste remain inside the work area enclosure during final air clearance sampling.

B. Once the work area has dried, the Owner's Consultant shall collect aggressive re-occupancy air clearance samples. Aggressive air monitoring will be used. Selection of location and of samples shall be the responsibility of the Owner's Consultant. Air monitoring volumes shall be sufficient to provide a detection limit of 0.010 f/cc (fiber per cubic centimeter of air) using NIOSH-approved method.

C. Areas that do not comply with the re-occupancy air clearance criteria shall continue to be cleaned by and at the HMAC's expense until the specified re-occupancy air clearance criteria is achieved as evidenced by results of air testing as previously specified.

D. Laboratories conducting analysis of final air clearance samples shall be approved by the State of Connecticut Department of Health.

3.16 OWNER'S CONSULTANT RESPONSIBILITY

A. The Owner has retained the services of Eagle Environmental, Inc. to monitor this project. The Owner's Consultant shall collect and analyze air samples to ascertain the integrity of controls, which protect the building from asbestos contamination. Independently, the HMAC shall monitor air quality within the work area to ascertain the protection of employees and to comply with OSHA regulations.

B. The Owner's Consultant shall collect and analyze air samples during a minimum of two time periods:

1. Abatement Period: The Asbestos Abatement Project Monitor shall collect samples on a daily basis during the work period. A sufficient number of background samples shall be taken outside of the work area, at the exhaust of the negative pressure filtration equipment, and outside of the building to evaluate the degree of cleanliness or contamination of the building during asbestos removal. Additional samples may be taken inside the work area and decontamination enclosure system, at the discretion of the Asbestos Abatement Project Monitor.
    a. The Asbestos Abatement Project Monitor shall provide a continual evaluation of the air quality of the building during asbestos abatement, using his/her best professional

judgments in respect to the State Department of Public Health guideline of 0.010 f/cc and the background air quality established during the pre-abatement period.

b. If the Asbestos Abatement Project Monitor determines that the building air quality has become contaminated from the project, he/she shall immediately inform the HMAC to cease all removal operations and implement a work stoppage clean up procedure. The HMAC shall conduct a thorough cleanup of areas of the building designated by the Asbestos Abatement Project Monitor. No further asbestos abatement work shall take place until the Asbestos Abatement Project Monitor has determined that the building's air has been decontaminated.

c. Abatement air samples shall be collected for a minimum period of ninety minutes at a minimum flow rate of 12 liters per minute, or as required to obtain a volume of 1,000 liters. Samples shall be analyzed by phase contrast microscopy (PCM) using the NIOSH 7400 protocol.

2. Reoccupancy Clearance Period: The Asbestos Abatement Project Monitor shall conduct air sampling following the final cleanup phase of the project, once the "no visible residue" criterion as established by the site supervisor and the Asbestos Abatement Project Monitor has been met.

   a. Phase Contrast Microscopy (PCM) - For work areas containing less than 500 linear feet or 1,500 square feet of ACM, post abatement analysis of the samples to determine if reoccupancy clearance standards have been met shall be conducted by PCM. A minimum of five (5) samples shall be collected inside each containment utilizing aggressive methods to comply with State of Connecticut DPH Standard for Asbestos Abatement sections 19a-332a-12, and 19a-332a-13. The project shall be considered complete when the results of samples collected in the work area and analyzed by phase contrast microscopy using the most current National Institute for Occupational Safety and Health (NIOSH) method 7400, to show that the concentration of fibers for each of the five samples is less than or equal to a limit of quantification for PCM (0.010 fibers per cubic centimeter of air).

   b. Transmission Electron Microscopy (TEM) - For work areas containing greater than 500 linear feet or 1500 square feet of ACM, post abatement analysis of the samples to determine if reoccupancy clearance standards have been met shall be conducted by TEM. A minimum of five (5) samples shall be collected inside containment utilizing aggressive methods to comply with State of Connecticut DPH Standard for Asbestos Abatement sections 19a-332a-12, and 19a-332a-13. An asbestos abatement project shall be considered complete when the average concentration of asbestos fibers of five air samples collected within the work area and analyzed by the TEM method in Appendix A of 40 CFR Part 763 subpart E is less than 70.0 structures per square millimeter (s/mm^2) of filter surface or is not statistically significantly different, as determined by the Z-test calculation found in Appendix A of 40 CFR Part 763, subpart E, from the average asbestos concentration of five air samples collected at the same time outside the work area and analyzed in the same manner, and the average asbestos concentration of the three field blanks described in Appendix A of 40 CFR Part 763, subpart E, is below the filter background level, as defined in Appendix A of 40 CFR Part 763 subpart E, of 70 s/mm^2.

3. Inspections shall be conducted by the Owner's Consultant throughout the progress of the abatement project. Inspections shall be conducted in order to document the progress of the abatement work as well as the procedures and practices employed by the HMAC. The Asbestos Abatement Project Monitor shall perform the following inspections during the course of abatement activities.

   a. Precommencement Inspection: Precommencement inspections shall be performed at the time requested by the HMAC. The Asbestos Abatement Project Monitor shall be informed 24 hours prior to the time the inspection is needed. During the course of the precommencement inspection, the Asbestos Abatement Project Monitor shall

inspect the containment. This shall include, but not be limited to, inspection of barrier integrity, the worker decontamination, facility, negative air filtration equipment etc. If during the course of the precommencement inspection, deficiencies are found, the HMAC shall perform the necessary adjustments in order to obtain compliance.

b. Work Area Inspections: Work area inspections shall be conducted on a daily basis at the discretion of the Asbestos Abatement Project Monitor. During the course of the work area inspections, the Asbestos Abatement Project Monitor shall observe the HMAC removal procedures, verify barrier integrity, monitor negative air filtration devices, assess project progress, and inform the HMAC of specific remedial activities if deficiencies are noted.
c. Presealant Inspection: Upon the request of the HMAC, The Asbestos Abatement Project Monitor shall conduct a presealant inspection. The presealant inspection shall be conducted after completion of the initial final cleaning procedures, but prior to work area encapsulation. The presealant inspection shall verify that all ACM and residual debris have been removed from the work area. If, during the course of the presealant inspection, the Asbestos Abatement Project Monitor identifies residual dust or debris, the HMAC shall comply with the request of the Asbestos Abatement Project Monitor, in order to render the area is free of visible residue.
d. Final Visual Inspection: Following receipt of acceptable reoccupancy air monitoring results and concurrent with removal of the work area containment, the Asbestos Abatement Project Monitor shall conduct a final visual inspection. If residual dust or debris is identified during the course of the final inspection, the HMAC shall comply with the request of the Asbestos Abatement Project Monitor, in order to render the area free of visible residue.

END OF SECTION 02 08 00

SECTION 02 09 00 - LEAD PAINT DEMOLITION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

B. Related Sections

1. Section 01 01 00: Hazardous Materials General Requirements
2. Section 01 01 60: Hazardous Materials Scheduling and Phasing
3. Section 01 70 50: Hazardous Materials Contract Closeout
4. Section 02 07 60: Selective Demolition for Hazardous Materials Abatement
5. Section 02 08 00: Asbestos Abatement

1.2 PROJECT DESCRIPTION

A. The Ansonia Housing Authority is undertaking a gut rehabilitation project for the multi-family, three-story, residential structure located at 1 Holbrook Place in Ansonia, Connecticut.

B. The building is comprised of six (6) dwelling units with two (2) dwelling units on each story. A comprehensive lead-based paint inspection was performed at the Site by Eagle Environmental on December 17, 2014. Eagle utilized historic data and supplemental data to generate the work herein.

C. Refer to other Sections of these Specifications and Plans HM-1 through HM-2 and to determine the type and extent of work therein affecting the work of this Section, whether or not such work is specifically mentioned herein.

D. Certain building components at the building were determined to contain levels of lead in paint that may cause worker exposure during renovation and demolition work. Any disturbance to the lead-based painted components resulting from manual demolition or work necessary to facilitate demolition shall be conducted in accordance with this specification.

E. The personnel performing lead-based paint removal work shall be trained in accordance with the Department of Labor's Occupational Safety and Health Administration (OSHA) 29 CFR 1926.62. Lead in Construction Standard. This Specification is intended to provide general information pertaining to lead in surface coatings at the site and to assist the Hazardous Materials Abatement Contractor (HMAC) in complying with applicable worker protection and disposal laws. It is the sole responsibility of the HMAC to comply with all OSHA worker protection laws and disposal laws.

F. All painted, varnished, shellacked, stained, primed or otherwise coated surfaces should be assumed to contain lead above 0.0 mg/cm2. Certain building components (plaster walls and ceilings, window components, door components, baseboards and original clap board siding) have been determined to contain lead above 1.0 mg/cm2. All trades performing work that impact any painted, varnished, shellacked, stained, primed or otherwise coated surface must comply with the requirements of OSHA 29 CFR 1926.62 Lead in Construction Standard.

G. The HMAC should assume that building components that were not tested, but that are like in color and construction date have similar lead paint levels as the components that were tested. In accordance with OSHA 29 CFR 1926.62, the HMAC must assume certain exposure levels for certain tasks in the absence of testing or personal exposure monitoring data. It is the sole responsibility of the HMAC to comply with OSHA 29 CFR 1926.62 for all tasks that disturb paint, varnish, shellac, stain or other surface coatings. HMAC shall refer to Plans HM-1 and HM-2 for components identified with toxic levels of lead-based paint.

H. All components and surfaces that will be impacted by the work of this project shall be covered by this specification.

I. Metal components removed from the building must be recycled in an approved recycling facility for lead paint.

J. Toxicity Characteristic Leachate Procedure (TCLP) testing of waste materials has been performed for the building interiors and all waste generated as a result of lead demolition activities on the building interiors shall be disposed of as non-hazardous solid waste. Exterior clapboard siding and exterior trim if scheduled for demolition shall be disposed of as hazardous lead waste, unit pricing shall be provided. Basement window sashes with asbestos containing glazing compound and lead-based paint shall be disposed of as mixed hazardous waste.

K. For the purpose of this Specification, Non-hazardous solid waste means construction and demolition debris. Hazardous lead waste means a waste which is characteristically hazardous for lead and requires disposal in a Resource Conservation and Recovery Act (RCRA) approved landfill under EPA hazardous waste code D008. The Owner's Consultant shall perform additional TCLP sampling prior to waste disposal of the exterior clapboard siding and associated trim components.

L. The HMAC is responsible for all TCLP testing of workers PPE and cleaning materials. Polyethylene sheeting shall be cleaned free of dust and debris and disposed of as non-hazardous waste.

M. The HMAC shall clean all removed exterior vinyl siding and aluminum enclosures and disposed of as general construction debris.

N. If rental equipment will be utilized during lead remediation activities, the HMAC shall provide written acknowledgement to the rental equipment provider and copy the Owner's Consultant stating that equipment will be used during hazardous material removal and will be thoroughly decontaminated prior to being returned.

1.3 SCOPE OF WORK

A. Component Removal – Refer to the Hazardous Materials Abatement Plans HM-1 through HM-2 and Architect's demolition plans for scope and limits of component removal. Component removal shall include the physical removal of building components for replacement. Components, which are removed, shall be properly disposed of in accordance with this Specification. Component removal associated with this project shall include, but not be limited to the following:

1. Plaster walls and ceilings (Non-hazardous solid waste)
2. Interior wood trim, doors, miscellaneous components (Non-hazardous solid waste)

3. Paint chips and paint from lead paint removal activities (Hazardous lead waste)
4. Porcelain bathtubs and ceramic wall tiles (Non-hazardous solid waste)
5. Basement window sashes (Mixed hazardous waste)
6. Basement window frames – if removed (Hazardous lead waste)
7. Exterior wood components include, but not limited to clapboard siding, fascia boards, soffit boards, porch components, door and window trim (Hazardous lead waste)

B. Paint Stabilization – Refer to the Hazardous Materials Abatement Plans HM-1 through HM-2 and the Architect's demolition and finish plans for scope and limits of repainting. Paint stabilization shall include the removal of loose, flacking, chipped, cracked or otherwise damaged paint followed by priming and repainting. All friction surfaces shall be eliminated as part of paint stabilization efforts. Paint chips generated during surface preparation must be collected and disposed of as hazardous lead waste. The intent of the paint stabilization is to ensure that all painted surfaces are in an intact condition at the conclusion of renovation activities.

C. Specialized Cleaning – Specialized cleaning includes cleaning with vacuums equipped with High Efficiency Particulate Air (HEPA) filters and wet cleaning with a lead cleaning detergent such as Lead Dissolve® or equivalent. Specialized cleaning shall be performed on all floors and horizontal surfaces including, but not limited to window sills, window wells, shelving, millwork, etc. Specialized cleaning shall be performed at the completion of lead disturbing tasks and following all put back work in the buildings.

1.4 APPLICABLE CODES

A. The HMAC shall be solely responsible for conducting this project and supervising all work in a manner which will be in conformance with all federal, state and local regulations and guidelines pertaining to lead paint lead remediation . Specifically, the HMAC shall comply with the requirements of the following:

1. Occupational Safety and Health Administration: OSHA

   a. 29 CFR 1910 General Industry Standards
   b. 29 CFR 1910.1025 Lead Standard for General Inventory
   c. 29 CFR 1910.134 Respiratory Protection
   d. 29 CFR 1910.1200 Hazard Communication
   e. 29 CFR 1910.245 Specifications for Accident Prevention (Sign and Tags)
   f. 29 CFR 1926.62 Lead in Construction Final Rule

2. State of Connecticut Department of Energy and Environmental Protection: DEEP

   a. Guidance for the management and disposal of lead contaminated materials generated in the lead abatement renovation and demolition industries.
   b. All applicable hazardous and solid waste disposal regulations.

3. USEPA

   a. 40 CFR 745.100 - .119 Final Rule
   b. 40 CFR Part 261 United States Environmental Protection Agency

1.5 DEFINITIONS

A. “Action level” means employee exposure, without regard to the use of respirators, to an airborne concentration of lead of 30 micrograms per cubic meter of air (30 ug/m (3)) calculated as an 8-hour time-weighted average (TWA).

B. "Biological monitoring" means the analysis of a person's blood and/or urine, to determine the level of lead contamination in the body.

C. “Competent person” means one who is capable of identifying existing and predictable lead hazards in the surroundings or working conditions and who has authorization to take prompt corrective measures to eliminate them.

D. “Containment” means the process of erecting polyethylene barriers to control dust and debris emissions which is intended to keep adjacent areas and environment free of contamination.

E. "HMAC" means the primary contractor and all sub contractors performing the lead removal work.

F. “Exposure assessment” means the process of collecting and analyzing personal air samples to determine a worker’s potential to be exposed to contaminants and to determine the level of respiratory and personal protective equipment that would be suitable to prevent exposure from occurring.

G. HEPA (High Efficiency Particulate Air) means a type of filtering system capable of filtering out particles of 0.3 microns or greater diameter from a body of air at 99.97% efficiency or greater.

H. "High phosphate detergent" is detergent that contains at least five (5%) percent tri-sodium phosphate (TSP).

I. “Lead” means metallic lead, all inorganic lead compounds, and organic lead soaps. Excluded from this definition are all other organic lead compounds.

J. PEL (Permissible exposure limit) means the maximum allowable airborne concentration a worker can be exposed to over an eight (8) hour work shift without having to don respiratory and personal protective equipment. The OSHA PEL is 50 ug/m3.

K. RCRA (Resource Conservation Recovery Act): The EPA enforced act, which establishes regulatory levels for hazardous chemicals. There are eight (8) heavy metals of concern for disposal: Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium and Silver.

L. Standard means the OSHA Lead in Construction Standard 29 CFR 1926.62.

M. Toxicity Characteristic Leachate Procedure: Is the EPA required sample preparation and analysis for determining the hazard characteristic of a waste generated at a lead remediation site.

1.6 FEES, PERMITS AND LICENSES

A. The HMAC shall comply with the provisions of all permits or applications required by the work specified, as well as make all submittals required under those auspices.

B. The HMAC shall make notifications to the local Police Department and Fire Department regarding the project.

1.7 SEQUENCING AND SCHEDULING

A. The HMAC shall extend full cooperation to Owner in all matters involving the use of Owner's facilities. At no time shall the HMAC cause or allow to be caused conditions that may cause risk or hazards to the general public or conditions that might impair safe use of the facility.

B. The HMAC shall submit a time-line schedule, not date specific, to Owner and Consultant for integration into the overall project schedule. Coordinate the work of this section with the needs of the Owner and General Contractor. Phasing and scheduling of this project will be at the discretion of the General Contractor and shall not proceed in any area without the express consent of the General Contractor.

C. The HMAC shall coordinate their work with the progress of the work of other trades so that the work shall be completed as soon as conditions permit. Work under this project may be performed in phases to accommodate Owner’s/Architect’s requirements and construction phases. Coordinate schedule and operations with the Owner/Architect/Consultant and other trades.

D. Schedule initial assessment work in areas where the work will not cause an exposure potential to unprotected individuals.

1.8 SUBMITTALS

A. This Section specifies administrative and procedural requirements for submittals required for performance of the Work.

B. The HMAC shall provide the following pre-project submittals prior to initiating work at the site:

1. Copies of all notifications, permits, applications, licenses and like documents required by federal, state and local regulations obtained or submitted in proper fashion.
2. Copies of medical records for each employee to be used on the project.
3. Record of successful respirator fit testing performed by a qualified individual within the previous year, for each employee to be used on this project with the employee's name and social security number with each record.
4. Proposed respiratory protection program for employees throughout all phases of the job, including make, model and NIOSH approval numbers of respirators to be used.
5. Written description, for the Owner's review and acceptance, of all proposed procedures, methods or equipment to be utilized that differ from the Contract Specifications, including manufacturers' specifications on any equipment not specified for use by this Section; in all instances, the HMAC must comply with all applicable federal, state and local regulations.
6. Proposed electrical safeguards to be implemented by qualified Electrical Contractor, including but not limited to location of GFCI outlets, lighting, and power panels necessary to safely perform the job including a description of electrical hazards safety plan for common practices in the work area.
7. Chain-of-Command of responsibility at work site including supervisors, foremen, and competent person, their names, resumes and certificates of training.
8. List of all supervisors and workers intended to be assigned to the project.

9. The name and address of HMAC's blood lead testing lab, OSHA-CDC listing, and Certification in the state where work site is located.
10. The name and address of HMAC's personal air monitoring and waste disposal lead testing laboratory (ies) including certification(s) of AIHA accreditation for heavy metal analysis, listing of relevant experience in air and debris lead analysis.
11. Safety Data Sheets (SDS) on all materials and chemicals to be used on the project.
12. Name, address, and ID number of the hazardous waste hauler, waste transfer route, and proposed disposal site.
13. Name, address, and ID number of the proposed construction debris site.
14. Temporary EPA Hazardous Waste I.D. No.
15. Copy of each workers lead awareness training certificate.
16. Copy of each workers initial blood lead level and zinc protoporphorin level.
17. Lead Based Paint compliance plan.

C. The HMAC shall provide the following post-project submittals at the completion of the work on site:

1. Copies of completed hazardous waste manifests with signatures from the landfill acknowledging receipt of the hazardous waste.
2. Copies of completed non-hazardous waste manifests.
3. Copies of work area access logs.
4. Copies of supervisor log
5. Copies of post project blood lead levels and zinc protoporphorin levels for each worker and supervisor who worked on the site.
6. Copies of all OSHA Compliance air sampling results.

1.9 EPA RENOVATE, REPAIR AND PAINTING RULE

A. The HMAC must apply, pay the fee and become an EPA Certified RRP firm.

B. The HMAC must ensure that that all renovators working in target housing, common areas or exteriors are EPA certified renovators or trained by a certified EPA renovator. Renovators can become certified by successfully attending an eight (8) hour RRP EPA accredited training course.

C. The HMAC must provide all tenants with a copy of EPA’s Renovate Right: Important Lead Hazard Information for Families, Child Care Providers and Schools pamphlet no earlier than sixty (60) days prior to the date renovation activities are to be performed.

D. The HMAC shall have an adult occupant sign the Pre-Renovation Disclosure Form.

E. The HMAC must assume that all painted surfaces contain toxic levels of lead-based paint unless inspected by a licensed lead inspector/risk assessor or tested with an EPA approved lead testing kit and proven otherwise.

F. The HMAC is required to ensure renovators minimize lead paint/dust exposure by performing activities in a lead safe manner, including posting of lead warning signs in plain view of the occupants.

G. The HMAC shall ensure all sub-contractors performing renovation activities on known or assumed lead-based paint above the EPA de minimus level are EPA RRP certified firms and

employees are EPA certified renovators or trained by a certified EPA RRP renovator. The Contractor shall document the firm's and renovator's certification numbers.

H. The HMAC shall provide the Owner and the consultant with documentation to include:

1. The HMAC's EPA RRP Firm Certification Number.
2. The HMAC's EPA RRP Renovator's Certification Number.
3. Documentation that all other non-certified employees have been trained on RRP practices by a EPA RRP Certified Renovator.

I. The HMAC is required to keep all documents for a minimum of three (3) years.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Deliver all materials in the original packages, containers, or bundles bearing the name of the manufacturer and the brand name and product technical description.

B. Damaged or deteriorating materials shall not be used and shall be removed from the premises.

C. Fire retardant polyethylene sheet in a roll size to minimize the frequency of joints shall be delivered to job site with factory label indicating 6 mil.

D. Polyethylene disposable bags shall be six (6) mil with pre-printed label. Tie wraps for bags shall be plastic, five (5) inches long (minimum), pointed and looped to secure filled plastic bags.

E. Tape shall be capable of sealing joints in adjacent polyethylene sheets and for attachment of polyethylene sheet to finished or unfinished surfaces of dissimilar materials and capable of adhering under both dry and wet conditions, including use of amended water.

F. Impermeable containers are to be used to received and retain any lead containing or contaminated materials until disposal at an acceptable disposal site. (The containers shall be labeled in accordance with EPA and DOT standards.)

G. HEPA filtered exhaust systems shall be used during any dust generating deleading operations.

H. Other materials such as lumber, nails and hardware necessary to construct and dismantle the decontamination enclosures and the barriers that isolate the work area shall be provided as appropriate for the work.

PART 3 - EXECUTION

3.1 INITIAL EXPOSURE ASSESSMENT

A. In order to comply with the requirements of OSHA 29 CFR 1926.62 Lead in Construction regulation, an initial exposure assessment must be performed for each activity that disturbs lead paint covered building materials. If the results of the initial exposure assessment are less than the "Action Level" for lead dust exposure of 30 micrograms per cubic meter of air, the employer is not obligated to comply with most requirements of the regulation. If the results of

the initial exposure assessment are greater than the Action Level for lead dust exposure, all requirements of the Standard apply.

B. The Scope of this Section applies to all construction work where an employee may be occupationally exposed to lead. All construction work excluded from the general industry standard for lead 29 CFR 1910.1025(a) (2) is covered by this section. This includes but is not limited to the following.

1. Demolition or salvage of structures where lead or materials containing lead is present.
2. Removal or encapsulation of materials containing lead.
3. New construction, alteration, repair, or renovation of structures, substrates, or portions thereof that contain lead, or materials containing lead.
4. Lead contamination cleanup
5. Transportation, disposal, storage, or containment of lead or materials containing lead on the site or location at which construction activities are performed.

C. The HMAC shall assume that the employee is being exposed above the Permissible Exposure Level (PEL) until an initial exposure assessment has been completed for each lead related task being performed.

D. For the purpose of the initial exposure assessment, employee exposure is that exposure which would occur if the employee were not using a respirator.

E. The employer shall collect personal air samples representative of a full shift including at least one sample for each job classification in each work area for each shift or for the shift with the highest exposure level.

F. Until the employer performs an initial exposure assessment as required by the Standard, the employer shall provide appropriate respiratory protection, appropriate personal protective equipment, clean change areas, hand washing facilities, biological monitoring, training under 29 CFR 1926.59, Hazard Communication; 29 CFR 1926.62 – Lead, 29 CFR 1926.21, Safety Training and Education.

G. Where the employer has objective data, demonstrating that a particular product or material containing lead or a specific process, operation or activity involving lead cannot result in employee exposure to lead at or above the Action Level during processing, use or handling, the employer may rely upon such data instead of implementing initial monitoring.

3.2 LEAD-BASED PAINT COMPLIANCE PLAN

A. The HMAC shall be required to submit a lead-based paint compliance plan to the Owner detailing how the HMAC will maintain compliance with this Specification.

B. The HMAC shall describe the work procedures within the compliance plan that will be utilized to prevent contamination to the work site and surrounding environment.

C. The HMAC shall describe the work procedures and engineering controls that will be implemented to ensure that workers are not exposed above OSHA's PEL for lead dust exposure.

D. The HMAC shall describe how compliance with the hazardous waste disposal regulations will be met.

3.3 DUST GENERATING ACTIVITIES – WORK AREA PREPARATION

A. The HMAC shall establish a clean area outside the lead remediation areas for workers to change into protective clothing and store personal belongings.

B. When dust generating activities are undertaken, the work area shall be isolated from other trades by double flapped curtain doorways. The HMAC shall utilize double flapped curtain doorways for separation of the work area from the non-work area. All ingress to the work area shall be through the double flapped curtain doorways.

C. All HVAC vents and grills shall also be sealed with a single layer of six (6)-mil polyethylene sheeting sealed with duct tape.

D. Cover all floors within the work area with a single layer of six-mil polyethylene sheeting.

E. Windows to the outside of the building shall remain shut during demolition activities.

F. The HMAC shall post lead hazard warning signs in accordance with OSHA 29 CFR 1926.62. It shall be the sole responsibility of the HMAC to ensure that only authorized personnel are permitted to enter the work area. A work area access log shall be maintained at the entrance to the work area. Authorized personnel shall sign in and out of the work area containment.

3.4 NON-DUST ACTIVITIES – WORK AREA PREPARATION

A. The HMAC shall establish a clean area outside the lead remediation areas for workers to change into protective clothing and store personal belongings.

B. When activities are undertaken that don't readily create dust, the work area shall be isolated from other trades by barrier caution tape. A buffer zone of a minimum of ten (10) feet is recommended between lead demolition activities and general trades work.

C. The HMAC shall utilize six-mil polyethylene drop cloths within the work area under all lead hazard remediation work.

D. The HMAC shall post lead hazard warning signs in accordance with OSHA 29 CFR 1926.62. It shall be the sole responsibility of the HMAC to ensure that only authorized personnel are permitted to enter the work area. A work area access log shall be maintained at the entrance to the work area. Authorized personnel shall sign in and out of the work area containment.

3.5 PERSONAL PROTECTION

A. Eye protection, head protection, and ear protection shall be provided to each worker.

B. The HMAC shall establish a wash station in close proximity to the work area where workers shall decontaminate their person. The wash station shall be supplied with warm water and soap and an ample supply of drying towels. Wash water shall be tested for proper disposal.

C. All equipment used by workers inside the work area shall be wet wiped or bagged for later decontamination before removal from work area.

D. The HMAC is responsible for using safe procedures to avoid electrical hazards. All temporary electrical wiring will be protected by GFIs.

3.6 EXTERIOR WORK AREA PREPARATION

A. Remove all moveable objects from the work area.

B. The HMAC shall cover the ground with sturdy nylon reinforced drop cloths covered with six mil drop cloths. The sturdy nylon reinforced drop cloths shall be secured to the foundation of the building. The Drop cloths shall extend a minimum of ten feet from the building.

C. Regulate the work area with lead warning signs and barrier tape.

D. Seal all windows, doors or other penetrations into the building, which are located within the regulated work area.

As work progresses, remove debris to the appropriate waste container.

3.7 COMPONENT REMOVAL PROCEDURE

A. Prior to any component removal, the HMAC shall ensure that work area set up has been completed in accordance with applicable work area preparation section. Refer to the architects plans and specifications to determine extent of demolition work.

B. Where possible, the HMAC shall remove components in their full units and shall minimizing breakage to the best extent feasible.

C. The HMAC shall perform all incidental work necessary to facilitate removal of painted components.

D. Dust control measures must be employed during demolition work.

E. The HMAC shall transport painted components to the appropriate waste container as required to keep the work area free from tripping hazards.

F. The HMAC shall clean all loose paint chips generated during component removal or disturbance. Containerize all paint chips in a 55 gallon lined steel drum and hold for TCLP testing.

G. Containerize paint chips for disposal as removal process. Do not allow paint chips to accumulate on floors.

3.8 LEAD-BASED PAINT STABILIZATION

A. The Contractor shall conduct work area lead remediation preparation as specified in Sections 3.3 and 3.6 prior to conducting lead remediation activities.

B. Lightly mist the surface to be stabilized with water. Wet scrape the surface with a drag scraper or putty knife to remove the loose paint. Continuously mist during scraping. Do not dry scrape.

C. Feather paint edges as necessary to remove high spots in paint that may be subject to future peeling.

D. Remove all raised paint edges that may be present on surfaces or components.

E. Surface contaminants that prevent adhesion should be removed by cleaning with lead dissolve and water solution. These contaminants generally include dirt, grease, and soap films.

F. Once all loose paint is removed, clean the surface with a lead dissolve and water solution.

G. Prepare all surfaces for re-painting. Wet wipe the surface with clean water.

3.9 SPECIALIZED CLEANING

A. Complete all necessary work area preparation in each area prior to commencing work in that area.

B. Specialized cleaning shall be performed during two distinct phases. Perform specialized cleaning following completion of each of the following phases:

1. Construction and demolition phase
2 Following all put back work and prior to occupancy

C. Follow the cleaning procedure described below for hard smooth or semi-porous surfaces:

1. Conduct a thorough HEPA vacuuming of the surface.
2. Wash the floor with a string mop equipped with wringer. Use a lead cleaning detergent.
3. Wring the mop into an empty bucket after each cleaning and before dipping the mop back into the cleaning solution.
4. Conduct a clean rinse mopping on the floor.
5. Conduct a second HEPA vacuuming of the surface.

3.10 PROHIBITED ACTIVITIES

A. The HMAC shall be prohibited from the following:

1. Sanding lead-based painted components without HEPA dust collection devices and appropriate engineering controls.
2. Open flame paint removal.
3. Torch cutting steel components without appropriate engineering controls.
4. Rivet busting without appropriate engineering controls.
5. Creating visible dust or fumes during lead-based paint removal.

3.11 CLEANING

A. Paint Chips - All paint chips collected during clean up shall be placed in airtight leak proof lined 55 gallon drums. Drums shall be stored in a secure locked area until they are transported off site for disposal.

B. Small wood debris will be picked up, collected and placed into a single six-mil plastic bag or six-mil polyethylene sheeting. The bags shall not be overloaded, shall be securely sealed, and shall be transported to the appropriate waste disposal container.

C. The HMAC shall HEPA vacuum all surfaces within the work areas. Floors and horizontal surfaces shall be wet cleaned with a lead cleaning detergent. The resulting liquid waste shall be disposed of in accordance with all applicable local, state, and federal regulations.

D. The HMAC shall thoroughly wet sweep the effected work areas. Floors shall be mopped with a lead cleaning detergent.

E. The Owner's Consultant shall perform a visual inspection of each work area to determine adequacy of cleaning procedures. Polyethylene sheeting shall be subjected to TCLP analyses provided and paid for by the HMAC.

F. The HMAC shall HEPA vacuum all paint chips from the exterior areas of the building.

G. The HMAC shall include in their Scope of Work a return visit to the Site to clean all newly installed materials and surfaces prior to lead clearance dust sampling by the Owner's Consultant.

H. Upon the request of the Owner, the Environmental Consultant shall inspect work areas following final cleaning and perform OSHA lead clearance dust sampling at the completion of renovations and prior to work areas being re-occupied. Twenty-Four (24) hour written notification shall be given prior to this testing.

I. Lead clearance testing shall include representative testing of floors, window sill and window wells in each newly constructed room.

J. Lead dust clearance standards utilized for this project shall include the following:

1. Floors: <10 ug/ft^2
2. Window sills: <100 ug/ft^2
3. Window wells: <100 ug/ft^2

K. The HMAC shall be responsible for cleaning all surfaces within the work area until clearance is achieved. The HMAC shall be responsible for the cost of all re-wipes.

3.12 DISPOSAL OF WASTE MATERIALS

A. The HMAC shall dispose of all paint chips and exterior wood coated with toxic levels of lead-based paint as hazardous lead-waste. The waste classifications are as follows:

1. Paint chips: Hazardous lead waste
2. Plaster walls and ceilings: Non-hazardous solid waste
3. Interior wood trim components: Non-hazardous solid waste
4. Exterior wood components (identified in Plans and Specifications) scheduled for demolition: Hazardous Lead Waste with confirmatory TCLP sampling by Owner's Consultant
5. Basement window sashes: (Mixed hazardous waste)
6. Metal components: Recycle at approved recycling facility
7. Cleaning materials, PPE, polyethylene sheeting: TCLP sampling by HMAC

B. Caution Note for Contractors: All materials, whether hazardous or non-hazardous, shall be disposed of in accordance with all laws and the provisions of any or all applicable federal, state, county, or local regulations and guidelines. It shall be the sole responsibility of the HMAC to assure compliance with all laws and regulations relating to this disposal.

C. The HMAC is responsible for performing and paying for all additional waste characterization testing, waste profiling and all other information required by their selected landfill for each shipment of waste.

D. Metal components shall be recycled at an approved recycling facility that accepts lead coated materials.

E. All paint removed from steel components shall be properly disposed of as hazardous lead waste.

F. The Contractor shall perform the following:

1. The HMAC shall comply with the requirements for small quantity generators (generates between one hundred (100) kg and one thousand (1000) kg of hazardous waste in a month or accumulates no more than one thousand (1000) kg of hazardous waste on-site at any one time and stores waste for no greater than ninety (90) days).
2. The HMAC shall ensure that all hazardous waste generated is sent off-site to permitted hazardous waste treatment, storage, or disposal facilities (TSDF).
3. The HMAC shall use DEEP permitted transporters for transport of hazardous waste.
4. The HMAC shall apply for a temporary EPA identification number, where applicable. Hazardous waste manifests must be utilized which bear this I.D. number.
5. The HMAC must comply with hazardous waste containerization requirements including but not limited to maintaining the containers in good condition, keeping containers closed and locked while in storage, properly labeling and dating containers, and using containers which are DEEP approved for over the road use.
6. The HMAC shall develop a written inspection schedule to inspect any containers of hazardous waste at least weekly.
7. The HMAC must designate an emergency coordinator who will be responsible for coordinating emergency response measures. Basic emergency information must be listed in writing, and posted next to the on-site telephone. This information must include the name and number of the emergency coordinator.
8. The HMAC must develop a written contingency plan for the site, which describe actions personnel will take in response to fires or other emergencies that may result in a release of hazardous waste constituents. The plan must meet certain content requirements and copies of the plan must be submitted to certain local emergency response officials.
9. The HMAC must provide written notification to local fire departments and/or police regarding the location, nature, and duration of the lead-removal project, and regarding the type and quantity of hazardous waste that may be stored at the site.
10. The HMAC must train their employees in hazardous waste management. They must maintain certain documentation regarding their training program, including the names, job titles, and job descriptions of the employees involved with hazardous waste management, a written description of the training that is given, and records documenting that employees have been trained. Annual updates of training must also be given.
11. The HMAC may not store hazardous waste on-site for greater than ninety (90) days without a TSDF permit.
12. Before leaving the site for the last time, the HMAC must remove any remaining hazardous waste and must decontaminate any equipment, storage areas, structures, soil, etc. contaminated as a result of the removal or storage of the hazardous waste generated at the site.

3.13 POST RENOVATION FINAL CLEARANCE

A. A visual inspection by the environmental consultant licensed lead inspector shall be conducted at the completion of the renovation work prior to re-occupancy to ensure the presence or absence of dust-lead hazards. The HMAC/General Contractor shall notify the Owner's Consultant a minimum of forty-eight (48) hours before the clearance inspection.

B. One (1) dust wipe sample shall be collected from the floor, a representative window sill and representative window well in each room or work area totaling three (3) dust wipes per area.

C. The following criteria must be met for final clearance dust wipe samples where work was performed:

1. Floors: < 10µg/ft²
2. Window Sills: < 100µg/ft²
3. Window Wells: < 100µg/ft²

G. The initial sampling costs shall be incurred by the Owner. Additional sample collection and analysis costs shall be incurred by the HMAC for failed sample results.

END OF SECTION 02 09 00

SIDE C

SIDE B

SIDE D

ASBESTOS ABATEMENT NOTES:

AC = ASBESTOS CONTAINING

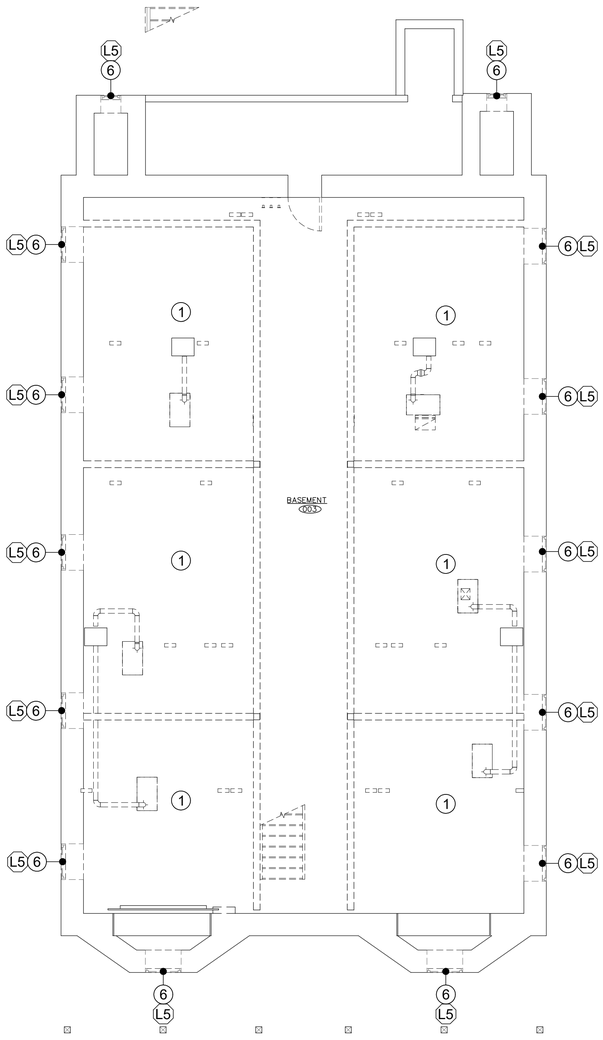
1. REMOVE AND DISPOSE DUCT WORK WITH AC DUCT INSULATION PAPER. DEMOLITION OF PLASTER AND SHEETROCK WALLS AND CEILINGS REQUIRED TO ACCESS CONCEALED DUCTWORK. PLASTER AND SHEETROCK NOT COATED WITH AC TEXTURE CEILING PAINT OR CONTAMINATED WITH DUCT INSULATION PAPER CAN BE DISPOSED OF AS GENERAL CONSTRUCTION DEBRIS.
2. REMOVE AND DISPOSE OF AC TEXTURED CEILING PAINT. COMPLETE DEMOLITION OF PLASTER AND SHEETROCK CEILINGS SHOULD BE DISPOSED OF AS ASBESTOS WASTE. ACOUSTIC CEILING TILES (ACT), IF NOT IN DIRECT CONTACT WITH CEILING CAN BE DISPOSED OF AS GENERAL CONSTRUCTION DEBRIS. ACT FURRING STRIPS SHALL BE DISPOSED OF AS ASBESTOS CONTAMINATED WASTE.
3. REMOVE AND DISPOSE SINGLE LAYER OF AC FLOOR TILE ON HARDWOOD FLOORING. FLOOR TILE MASTIC IS NON-AC.
4. REMOVE AND DISPOSE OF AC FLOOR TILE UNDER CARPET ON HARDWOOD FLOOR. FLOOR TILE MASTIC IS NON-AC. CARPET CAN BE DISPOSED OF AS GENERAL CONSTRUCTION DEBRIS.
5. REMOVE AND DISPOSE ALL LAYERS OF AC FLOORING DOWN TO SUB FLOOR.
6. REMOVE AND DISPOSE OF BASEMENT WINDOW SASHES WITH AC GLAZING COMPOUND AS MIXED HAZARDOUS WASTE.

LEAD-BASED PAINT RENOVATION NOTES:

- L1 REMOVE AND DISPOSE PLASTER WALLS AND WOOD LATH TO WOOD STUDS AND DISPOSE OF AS NON-HAZARDOUS SOLID WASTE.
- L2 REMOVE AND DISPOSE PLASTER CEILINGS AND WOOD LATH TO WOOD STUDS AND DISPOSE OF AS NON-HAZARDOUS SOLID WASTE.
- L3 REMOVE AND DISPOSE WINDOW CASINGS, WINDOW SILLS, WINDOW STOPS, WINDOW APRONS AND DISPOSE OF AS NON-HAZARDOUS SOLID WASTE.
- L4 REMOVE AND DISPOSE BASEBOARDS, CHAIR RAILS AS NON-HAZARDOUS SOLID WASTE.
- L5 REMOVE AND DISPOSE UNDER LAYING WINDOW JAMBS, WELLS AND SILLS. CLEAN VINYL WINDOW JUMP FRAMES OF PAINT CHIPS AND DEBRIS PRIOR TO DISPOSAL AS NON-HAZARDOUS SOLID WASTE.
- L6 REMOVE AND RECYCLE VINYL SIDING, GUTTERS AND ALL ALUMINUM ENCLOSURES OVER TRIM; PAINT STABILIZE SIDING AND TRIM COMPONENTS PRIOR TO INSTALLING MOISTURE BARRIERS AND VINYL / ALUMINUM ENCLOSURES.
- L7 ALL PORCH COMPONENTS THAT ARE SCHEDULED FOR REMOVAL SHALL BE DISPOSED OF AS HAZARDOUS LEAD WASTE. COMPONENTS THAT WILL REMAIN SHALL BE PAINT STABILIZED UTILIZING LEAD SAFE WORK PRACTICES AND ENCLOSED PER ARCHITECT'S PLANS.
- L8 REMOVE AND DISPOSE OF VINYL SIDING ENCLOSURES AND ASPHALT SIDING AS NON-HAZARDOUS SOLID WASTE. PAINT STABILIZE CLAPBOARD SIDING AND ASSOCIATED TRIM IF TO REMAIN. DISPOSE OF CLAPBOARD SIDING AS HAZARDOUS LEAD WASTE IF SCHEDULED FOR REMOVAL. REVIEW ARCHITECT'S PLANS.

GENERAL LEAD-BASED PAINT NOTES:

- ALL EXTERIOR PAINTED COMPONENTS SHALL BE CONTAINERIZED AS HAZARDOUS LEAD WASTE AND CHARACTERIZED FOR PROPER WASTE DISPOSAL.
- ALL PAINT CHIPS SHALL BE COLLECTED AND PLACED IN A LINED STEEL 50-GALLON WASTE DRUM AND DISPOSED OF AS HAZARDOUS WASTE.
- THE GROUND POLYETHYLENE SHEETING SHALL BE CLEANED AND DISPOSED OF AS NON-HAZARDOUS SOLID WASTE.
- ALL INTERIOR PAINTED MATERIALS SHALL BE DISPOSED OF AS NON-HAZARDOUS SOLID WASTE.



BASEMENT
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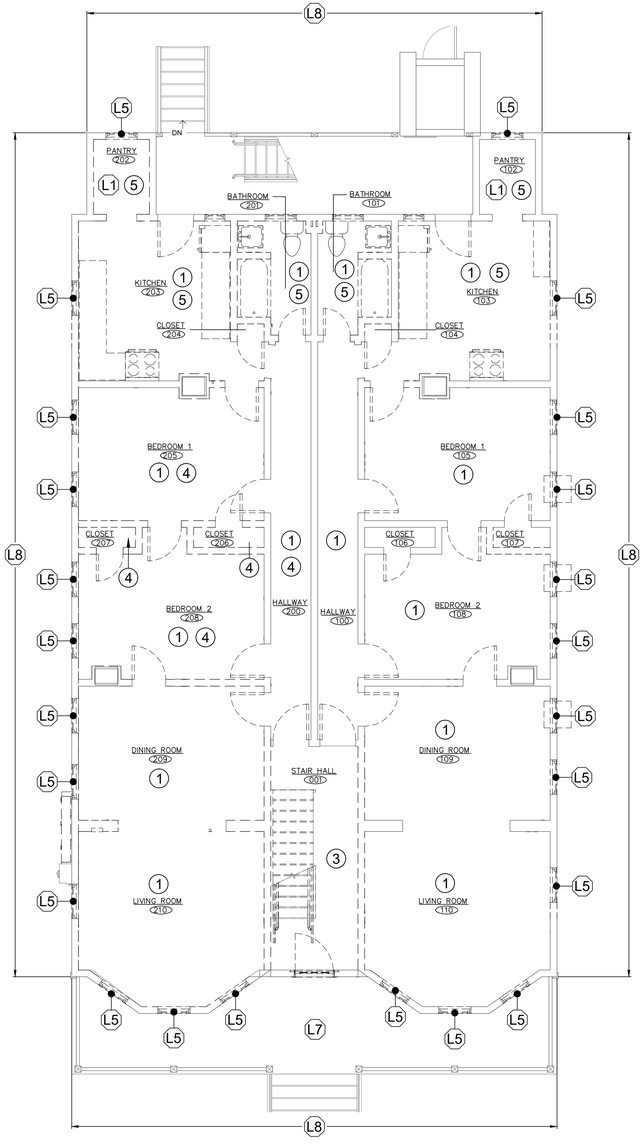

FIRST FLOOR
SCALE: 3/16" = 1'-0"

SIDE A (STREET SIDE)

REVISIONS		
NO.	DATE:	DESCRIPTION

DATE: 05/06/2022
DRAWN BY: BB
SCALE: AS NOTED
REVIEWED BY: AH
PROJECT NO.: 22-084.10FT

PROJECT TITLE:
HAZARDOUS BUILDING MATERIAL ABATEMENT

NOT FOR CONSTRUCTION: MAY 2022

PROJECT CLIENT AND ADDRESS:
SILVER PRETRUCELLI & ASSOC.

1 HOLBROOK PLACE
ANSONIA, CONNECTICUT

CONSULTANT'S SEAL

EAGLE Environmental, Inc.
8 SOUTH MAIN STREET, SUITE 3
TERRYVILLE, CONNECTICUT 06786
860-589-8257

SHEET TITLE:
BASEMENT & FIRST FLOOR ABATEMENT PLAN

SHEET NO.
HM-1
SHEET 1 OF 2

SIDE C

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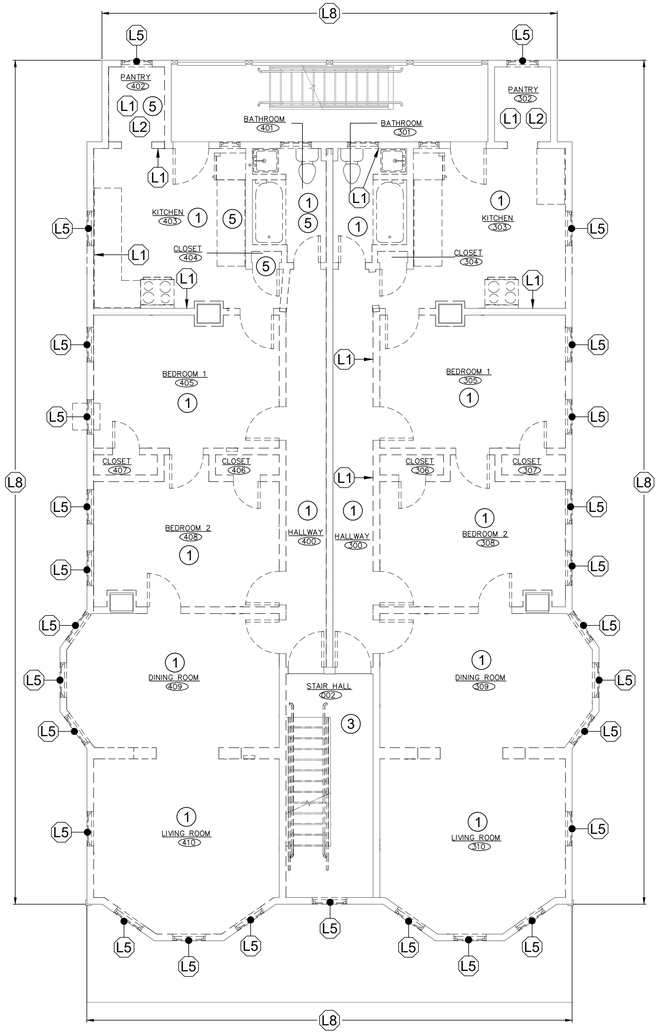
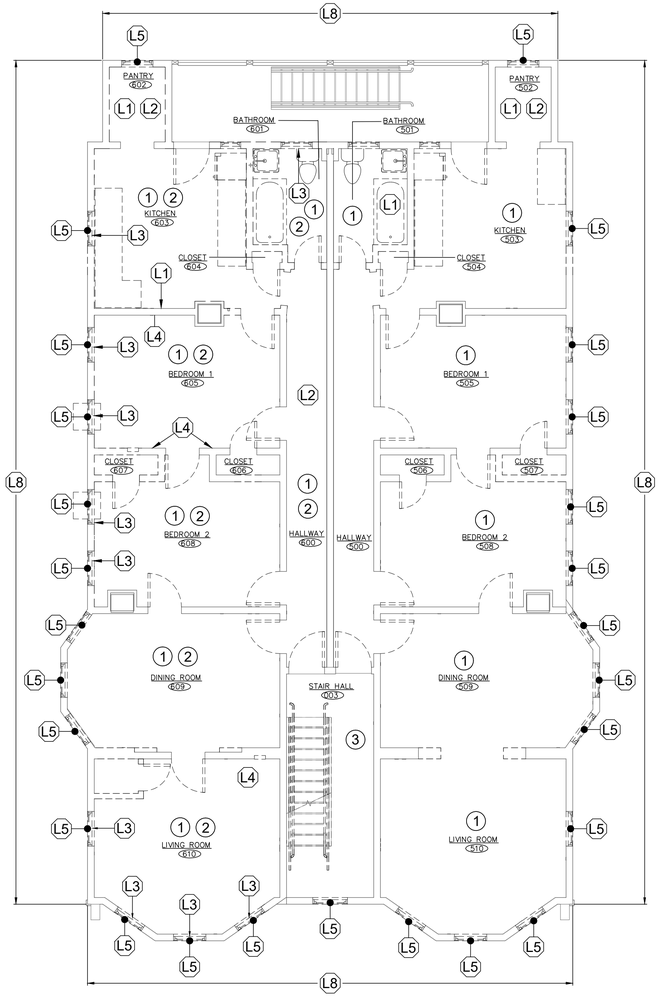
SIDE B



SECOND FLOOR
SCALE: 3/16" = 1'-0"



THIRD FLOOR
SCALE: 3/16" = 1'-0"

SIDE D

SIDE A (STREET SIDE)

7:\2022 Files\2022 AutoCAD\Silver Petrucelli\1 Holdbrook Place\Design\CAD\1 Holbrook Place - ABATEMENT PLANS.dwg

REVISIONS		
NO.	DATE:	DESCRIPTION

DATE: 05/06/2022
DRAWN BY: BB
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CONSULTANTS SEAL

EAGLE Environmental, Inc.
8 SOUTH MAIN STREET, SUITE 3
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860-589-8257

SHEET TITLE:
SECOND & THIRD FLOOR ABATEMENT PLAN

SHEET NO.
HM-2
SHEET 2 OF 2