



**EAGLE**  
**Environmental, Inc.**



Hazardous Building Materials > Industrial Hygiene/IAQ > Environmental Assessments > Laboratory Services & Training

November 19, 2014

Mr. David Holmes  
Capital Studio Architects  
1379 Main Street  
East Hartford, CT 06108

**RE: Environmental Assessment Report**  
**Department of Housing**  
**CDBG-DR – Sandy Disaster Recovery Program**  
**64 Hackley Street**  
**Bridgeport, Connecticut 06605**  
**Application #1326**  
**Eagle Project No. 14-028.12T11**

Dear Mr. Holmes:

Please find the attached Environmental Assessment Report conducted at 64 Hackley Street located in Bridgeport, Connecticut (Site). The environmental assessment was performed in support of the planned renovations/repairs to the Site building under the State of Connecticut Department of Housing Community Development Block Grant – Disaster Recovery Program (Program). The assessment focused only on those areas of the building that are scheduled for renovation/repair work with the exception of the lead-based paint hazard screen, which included the interior and exterior of the building. The proposed scope of renovation/repair work was provided to Eagle Environmental, Inc. (Eagle) by Capital Studio Architects (CSA).

This assessment and report is intended to satisfy the review process of the National Environmental Policy Act (NEPA) Statutory Checklist Sections 13C (Lead-Based Paint), 13D (Asbestos), 13E (Radon) and 13F (Mold).

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

Sincerely,  
**Eagle Environmental, Inc.**

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Peter J. Folino  
Project Manager

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## **1. INTRODUCTION**

On April 24 and May 28, 2014, Eagle Environmental, Inc. conducted an environmental assessment of portions of the site building located at 64 Hackley Street in Bridgeport, Connecticut. The scope of the environmental assessment included an inspection for asbestos-containing materials, a lead-based paint screen and a visual inspection for microbial contamination.

### **1.1 Inspection Area Description**

The inspection area included those areas of the building that will be impacted by planned renovation work. The areas of inspection are determined by reviewing the planned renovation work provided in CSA's Project Scope dated April 10, 2014. For the purpose of this project the following areas were inspected:

- Basement/Crawl Space
- Facades

In addition to testing the areas of the building that will be impacted by the renovation work, a lead hazard screen was performed throughout the site building to comply with federal funding requirements for a residential building receiving Federal funding assistance under a Department of Housing and Urban Development (HUD) administered program.

A complete list of components that were tested may be found in the XRF Lead Inspection Detailed Report.

## **2. SCOPE OF INSPECTION**

### **2.1 Asbestos Containing Materials**

The asbestos inspection was conducted to identify and sample suspect asbestos-containing materials within the areas of proposed renovation or repair work. Although federal regulations requiring asbestos inspection do not pertain to a residential structure containing less than five (5) units, demolition or renovation activities which may disturb asbestos would be unauthorized under the State of Connecticut Department of Public Health (DPH) regulations. Disposal of asbestos containing waste in unauthorized landfills is also prohibited. The inspection was performed to facilitate compliance with these applicable abatement and disposal regulations.

The asbestos inspection was performed by Andrew Carnevale; a State of Connecticut licensed Asbestos Inspector (license #000850).

### **2.2 Lead-based Paint**

A lead-based paint hazard screen was performed at the site building to comply with the Department of Housing and Urban Development (HUD) Lead Safe Housing Rule (24 CFR 35) for a residential property receiving Federal rehabilitation assistance under a program administered by HUD.

Certain lead-based paint requirements apply to each project depending on the level of Federal Funding allocated. The lead-based paint requirements include the following for each level of funding:

1. Residential property receiving \$5,000 or less per unit (Not Applicable to this Project):
  - a. Conduct lead-based paint testing or presume all painted surfaces contain toxic levels of lead-based paint. If lead-based paint testing confirms that the painted surfaces are not coated with lead-based paint, lead safe work practices and clearances are not required.
  - b. Conduct a risk assessment in each unit receiving Federal funds, in common areas and the exteriors.
  - c. Interim control measures may be utilized throughout the building
  - d. Lead safe work practices are to be utilized during rehabilitation work that will disturb painted surfaces.
  - e. After the completion of any rehabilitation work that has disturbed painted surfaces, clearances are to be performed.
  
2. Residential property receiving between \$5,000 and \$25,000 per unit:
  - a. Conduct lead-based paint testing or presume all painted surfaces contain toxic levels of lead-based paint. If lead-based paint testing confirms that the painted surfaces are not coated with lead-based paint, lead safe work practices and clearances are not required.
  - b. Lead safe work practices are to be utilized during rehabilitation work that will disturb lead-based painted surfaces.
  - c. Perform interim controls on all lead hazards identified during the lead hazard screen.
  - d. Perform clearance testing following interim control work and renovations.
  - e. Provide notice of lead-hazard reduction within 15 days of completion of work.
  
3. **Residential property receiving greater than \$25,000 per unit:**
  - a. **Conduct lead-based paint testing or presume all painted surfaces contain toxic levels of lead-based paint. If lead-based paint testing confirms that the painted surfaces are not coated with lead-based paint, lead safe work practices and clearances are not required.**
  - b. **Conduct a risk assessment in each unit receiving Federal funds, in common areas and the exteriors.**
  - c. **Abate all interior lead-based paint hazards identified during the lead inspection/risk assessment. Interim controls are acceptable on**

**exterior surfaces that are not disturbed by rehabilitation and on paint-lead hazards that are below the de minimus levels.**

- d. Lead safe work practices are to be utilized during rehabilitation work that will disturb painted surfaces.**
- e. Perform clearance testing following abatement work.**
- f. Provide notice of lead-hazard reduction within 15 days of completion of work.**

The lead-based paint hazard screen was performed by Eltwaun Lawrence and Kristen Liljehult; State of Connecticut licensed Lead Inspectors/Risk Assessors (license # 002250 and 002206, respectively).

In addition to HUD's Lead Safe Housing Rule, the State of Connecticut Department of Public Health Lead Poisoning Prevention and Control regulations apply when a child under the age of six (6) years old lives in the residence at the time of the inspection. The lead hazard screen was performed in accordance with State requirements, where applicable. No children under the age of six (6) years old resided in the building at the time of the inspection.

### **2.3 Radon Testing**

Radon testing for this program is performed on a case-by-case basis. Building's which are constructed on piers with its lowest level not in contact with the ground are not considered for Radon testing.

Buildings, which are not elevated off the ground, are tested for Radon under this Program. Radon testing is performed to comply with the National Environmental Policy Act (NEPA).

At a minimum, the Indoor Radon Potential Map of Connecticut was reviewed to determine each sites geographic location in respect to indoor Radon potential.

### **2.4 Mold Inspection**

Eagle performed a visual inspection for the presence of suspect mold within the inspection areas. The inspection included an investigation for signs of visible microbial growth including discoloring of building materials, mal odors and water intrusion that may inhibit microbial growth. The inspection was visual in nature and did not include any sampling or destructive investigations behind rigid walls or ceilings.

## **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 that will potentially be impacted by the proposed renovation/repair work. The inspection did not include areas outside of the proposed renovation/repair work areas.

Semi-destructive testing techniques were utilized during the inspection process. This included removing small pieces of suspect materials for analysis (bulk sampling). Only those building materials that will be impacted by the proposed renovation/repair work were sampled. Wood, glass, metal and fiberglass are not defined as suspect materials and are not sampled.

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 State of Connecticut Department of Public Health (DPH) approved laboratory for analysis by Polarized Light Microscopy (PLM). PLM is the USEPA accepted method of analysis for identification of asbestos in bulk matrixes. 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, the State of Connecticut Department of Public Health and Department of Energy and Environmental Protection 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 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 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 for the 64 Hackley Street in Bridgeport, Connecticut.

### **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 1% asbestos", "TRACE" or "NAD" are considered non-asbestos containing. No samples were further analyzed by the NOB TEM Method for the 64 Hackley Street in Bridgeport, Connecticut.

## **3.2 Lead-based Paint**

The lead-based paint hazard screen was performed utilizing an X-Ray Fluorescence (XRF) Radiation Monitoring Device (RMD) Lead Paint Analyzer (LPA 1), serial number 1364 and 2753 throughout the building.

Due to the level of proposed Federal Funding for this project (exceeding \$25,000 per unit), the lead-based paint screen included testing surfaces where defective paint or surface coatings were identified. A visual inspection was performed to evaluate the condition of surface coating associated with the building. Where surface coatings were defective (peeling, chipping, flaking, etc.), paint testing was performed. 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 3. The Summary Report provides an inventory of each surface coating that contains lead at or above 1.0 mg/cm<sup>2</sup>. The Detailed Report is an inventory of each tested surface on a room-by-room basis.

For the purpose of this report, lead-based paint is defined as surface coatings that contain  $\geq 1.0$  mg/cm<sup>2</sup> of lead by XRF.

In addition to XRF testing, dust samples are collected at the time of inspection if defective lead-based paint is identified. The exterior grounds are evaluated as well and if bare areas of soil are identified, soil samples are collected. Any dust or soil hazards

identified are incorporated into the Lead-Based Paint Hazard Reduction or Abatement Plan.

### **3.3 Radon Testing**

The site building is proposed to be elevated with its lowest level of the building not in contact with the ground; therefore radon testing was not performed.

### **3.4 Mold Inspection**

Eagle Environmental, Inc. performed a visual inspection within the limits of the inspection area for potential microbial growth. The visual inspection was performed to evaluate building materials for signs of water damage and suspect microbial growth. Building materials such as gypsum board, cellulose ceiling tiles, paper pipe coverings or duct coverings and heating, ventilation and air conditioning components were visually assessed. Only visible accessible materials were inspected within the proposed areas of renovation/repair.

Discoloration and decay of the aforementioned building materials may signify mold growth. Water damage or damp conditions may also signify suitable conditions for mold growth.

Suspect mold growth or conditions that may sustain mold growth were documented during the inspection process. In general, the location, color of suspect growth and estimated quantity of impacted building materials were recorded during the inspection process.

Eagle used an Extech Instruments Model MO290 Moisture/Humidity Meter to measure the relative moisture content of accessible representative building materials that may have been impacted by water during the storm. A "dry standard" for each component was determined by averaging the moisture measurements for materials in un-impacted areas. The "dry standard" was used as a baseline comparison to determine if the materials were wet. Moisture measurements were recorded on the Mold Moisture Reading Form.

## **4. INSPECTION RESULTS**

### **4.1 Asbestos Containing Materials**

During the course of the building inspection thirty-seven (37) bulk samples of suspect ACM were collected and thirty-one (31) samples were analyzed by PLM based on the "stop on first positive" request to the laboratory.

The following materials were confirmed to be ACM:

- Residual pipe insulation and fitting insulation
- Damp proofing on foundation walls (exterior)

The summaries of asbestos and non-asbestos materials are presented in Tables I and II respectively. The asbestos analysis laboratory reports are provided in Appendix 2.

The crawlspace is to be in-filled prior to pouring the new slab, therefore, all residual pipe insulation must be removed prior to any elevation work is to begin. The removal of the friable material must be done by a State of CT licensed Asbestos Abatement Contractor.

Damp proofing was identified on the exterior portion of the cinderblock foundation. The damp proofing is applied on the exterior portion of the cinderblock as a moisture barrier. The damp proofing may be impacted if the building is raised above the appropriate flood level. The damp proofing is a non-friable exterior material and is not regulated by CT DPH regulations. Any portion of the foundation, which is removed and contains damp proofing, will require disposal as ACM waste. Contractors performing work that impacts the damp proofing must comply with the US Department of Labor's Occupational Safety and Health Administration (OSHA), the USEPA National Emission Standard for Hazardous Air Pollutants and the CT DEEP regulated waste disposal regulations.

Any suspect material not specifically identified in this report as non-ACM should be assumed to contain asbestos unless sample results prove otherwise.

All regulated friable and regulated non-friable ACM must be removed prior to renovation/repair 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 / demolition. Re-occupancy air monitoring is required if the building will be re-entered by any person following abatement and prior to demolition. This includes but is not limited to entry for utility disconnects, salvage, equipment removal, etc.

The Asbestos Abatement Contractor must submit a notice of asbestos abatement to the State of Connecticut Department of Public Health post marked or hand delivered ten (10) 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 State of Connecticut Department of Public Health post marked or hand delivered ten (10) days prior to the commencement of demolition activities.

#### **4.2 Lead-based Paint**

A copy of this lead-hazard screen report must be provided to residence within fifteen (15) days of the evaluation. A total of one hundred and fourteen (114) XRF readings were collected during the lead-hazard screen of the building. From the one hundred and fourteen (114) readings, sixty (60) were found to contain toxic levels of lead-based paint.

The general inventory of defective surfaces containing lead-based paint include the following

- Basement (002) stair components
- Foyer (006) exterior window components
- Kitchen (007) door jamb
- Sitting Room (010) door and door trim components, baseboard, window trim components
- Bedroom 1 (011) door jamb and closet door
- Bathroom (012) window sill

- Bedroom 2 (014) window sill
- Throughout: wood window components

The lead-based paint identified at the property will not impact the proposed scope of work to be performed; however, the hazards will need to be addressed prior to the completion of the job.

A complete inventory of tested building materials is presented in Detailed Reports contained Appendix 4.

No children under the age of six (6) years old resided at this site building at the time of the inspection. However, the Federal funding for this project is anticipated to exceed \$25,000.00 per unit. All interior lead-based paint hazards must be controlled utilizing full abatement methods while exterior lead-based paint hazards may be controlled utilizing interim controls (temporary measures). This residence is considered target housing (housing constructed prior to 1978) by the USEPA. All lead-hazard remediation work shall be performed in compliance with the USEPA Renovation, Remodeling and Painting (RRP) Rule as prescribed by 40 CFR Part 745.80 Subpart E. Including USEPA RRP Firm Certification, USEPA RRP Renovator Certification, Disclosure and Notification, Placement of Warning Signs, Lead-Safe Work Practice, Cleaning and Post Remediation Lead Dust Clearance by an approved USEPA method.

The U.S. Department of Labor Occupation Safety and Health Administration (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 ( $>0.0 \text{ mg/cm}^2$  +/-  $0.3 \text{ mg/cm}^2$  by XRF or  $>0.01 \%$  by AAS) requires task specific exposure monitoring. Contractors performing lead disturbing tasks on this project must comply with the OSHA Lead in Construction Standard.

#### **4.2.1 Dust Hazards**

A total of ten (10) dust wipes were collected at the time of inspection. One (1) dust-lead hazard was identified on the Vestibule floor (Room 005). Remediation of the dust hazard is incorporated into the scope of lead-hazard control work. Dust lead hazards were not identified at the remaining sample locations.

#### **4.2.2 Soil Hazards**

One (1) soil sample was collected at the time of inspection. A soil-lead hazard was identified in the vegetable/flower garden located on the "C" side of the property.

A copy of the dust and soil sample laboratory reports may be found in Appendix 5.

### **4.3 Radon**

Radon testing was not performed at this Site since the building is to be elevated and the lowest level of the building will not be in contact with the ground. The site building has a Radon Rating Potential of "Moderate" (22% of the homes in the "Moderate" rating areas have an indoor basement radon level equal to or exceeding 4.0 pCi/L.

#### **4.4 Mold**

The physical mold inspection found that there was no evidence of water intrusion, visible mold spore growth, water staining or strong odors throughout the dwelling unit. The observations made during this assessment represent the conditions on the day of the assessment only. Conditions may change as environmental impacts and seasonal changes occur.

The mold inspection forms are provided in Appendix 7.

#### **5. COST ESTIMATES**

The cost estimates include only the abatement or remediation work necessary to support the renovation/repair work. Other regulated or hazardous materials may be present and were not inspected for under this scope of services and are not included within the estimate.

This is a budgetary opinion of cost that is expected to be within -15 to + 30 percent of the actual cost. Eagle Environmental, Inc. 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 Environmental, Inc.'s opinion of probable cost of abatement are made on the basis of Eagle Environmental, Inc.'s experience and qualifications and represent Eagle Environmental, Inc.'s judgment as an experienced and qualified consultant familiar with the abatement industry; but Eagle Environmental, Inc. 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 Environmental, Inc. 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 8.

**TABLE I**  
**ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE**

**TABLE I**  
**ASBESTOS CONTAINING MATERIALS**  
**SUMMARY TABLE**  
**64 HACKLEY STREET**  
**BRIDGEPORT, CONNECTICUT**

LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			ESTIMATED QUANTITY	F/NF
				PLM	PLM/PC	TEM NOB		
Room 002, Crawl Space	Residual pipe insulation	4-24-AC-01	TSI	32% Chrys			33 LF	F
		4-24-AC-02		DNA		YES		
		4-24-AC-03		DNA				
	Mudded pipe fitting insulation	4-24-AC-04	TSI	DNA			10 EA	F
		4-24-AC-05		DNA		YES		
		4-24-AC-06		DNA				
Facade B, Facade D	Damp proofing on foundation	4-24-AC-34	MISC	22% Chrys			NQ	NF
		4-24-AC-35		DNA		YES		
<b>KEY</b>								
DNA = DID NOT ANALYZE								
NAD = NO ASBESTOS DETECTED								
F = FRIABLE								
NF = NON-FRIABLE								
TSI = THERMAL SYSTEMS INSULATION								
SURF = SURFACING MATERIAL								
MISC = MISCELLANEOUS MATERIAL								
<b>ANALYTICAL METHODS</b>								
PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT								
TEM NOB = NEW YORK ELAP 198.4 METHOD								
PLM = EPA 600/R-93/116								
PS = Previously Sampled								
EA = Each								
NQ = Not Quantified								
<b>BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION</b>								

**TABLE II**

**NON ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE**

TABLE II  
 NON - ASBESTOS CONTAINING MATERIALS  
 SUMMARY TABLE  
 64 HACKLEY STREET  
 BRIDGEPORT, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM/PC	TEM NOB	ACM
Room 002	Furnace flue cement	4-24-AC-07	MISC	NAD			NO
		4-24-AC-08		NAD			
Room 004	White textured wall paint	4-24-AC-09	SURF	NAD			NO
		4-24-AC-10		NAD			
		4-24-AC-11		NAD			
Room 002, Room 004	Sheetrock - ceiling	4-24-AC-12	MISC	NAD			NO
		4-24-AC-13		NAD			
Room 004	Battling insulation paper	4-24-AC-14	MISC	NAD			NO
Room 002	Rough coat plaster	4-24-AC-15	SURF	NAD			NO
		4-24-AC-16		NAD			
Room 002	Skim coat plaster	4-24-AC-17	SURF	NAD			NO
		4-24-AC-18		NAD			
		4-24-AC-19		NAD			
Room 002	Patching compound on white plaster	4-24-AC-20	SURF	NAD			NO
		4-24-AC-21		NAD			
Room 002	Fiberboard wall panel	4-24-AC-22	MISC	NAD			NO
		4-24-AC-23		NAD			
Room 002	Burner gun gasket	4-24-AC-24	MISC	NAD			NO
		4-24-AC-25		NAD			
Room 002	Interior furnace insulation	4-24-AC-26	TSI	NAD			NO
		4-24-AC-27		NAD			
		4-24-AC-28		NAD			
Facade B, Facade D	Basement window glazing compound	4-24-AC-29	MISC	NAD			NO
		4-24-AC-30		NAD			
Facade B, Facade D	Stone mortar at retaining wall	4-24-AC-31	MISC	NAD			NO
		4-24-AC-32		NAD			
Facade B, Facade D	Stone mortar at retaining wall	4-24-AC-33	MISC	NAD			NO
		4-24-AC-36		NAD			
Facade B, Facade D	Stone mortar at retaining wall	4-24-AC-37	MISC	NAD			NO
		4-24-AC-37		NAD			
<b>KEY:</b>				<b>ANALYTICAL METHODS</b>			
DNA = DID NOT ANALYZE				PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT			
NAD=NO ASBESTOS DETECTED				TEM NOB = NEW YORK ELAP 198.4 METHOD			
F = FRIABLE				PLM = EPA 600/R-93/116			
NF = NON-FRIABLE				PS = Previously Sampled			
TSI = THERMAL SYSTEMS INSULATION				EA = Each			
SURF = SURFACING MATERIAL							
MISC = MISCELLANEOUS MATERIAL							
<b>BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION</b>							

**APPENDIX 1**  
**FLOOR PLANS**

# CAPITOL STUDIOS ARCHITECTS

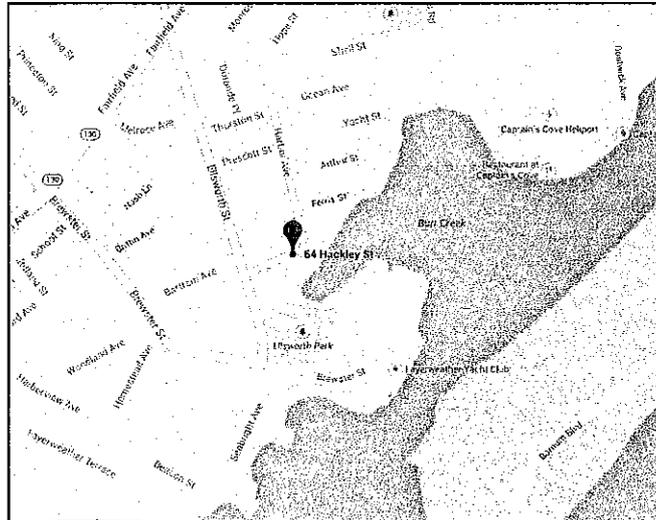
64 HACKLEY STREET  
BRIDGEPORT, CONNECTICUT

EAGLE PROJECT NUMBER: 14-028.12T5

## INDEX OF DRAWINGS

SP-1 SITE PLAN  
FP-1 BASEMENT PLAN  
FP-2 FIRST FLOOR PLAN  
FP-3 SECOND FLOOR PLAN  
FP-4 ATTIC PLAN

## LOCATION MAP



NOVEMBER 19, 2014



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

# SITE PLAN

SIDE-C



RETAINING WALL

GRASS

**SAMPLE KEY:**

☒ = NUMBER AND LOCATION OF SOIL SAMPLES

**BOLD TEXT INDICATES A SOIL-LEAD HAZARD FOUND**

DECK

CONCRETE WALKWAY

MULCH BED

CONCRETE WALKWAY

GARAGE

RESIDENCE

SIDE-D

WOOD FENCE

ASPHALT DRIVEWAY

GRASS

CONCRETE WALKWAY

SHRUBBERY

NOT TO SCALE

SIDE-A (STREET SIDE)

SIDE-B



**EAGLE**  
Environmental, Inc.

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

DATE: 11/19/2014  
PROJECT NO.: 14-028.12-T4  
DRAWN BY: VB  
REVIEWED BY: AH

**ENVIRONMENTAL REVIEW**  
64 HACKLEY STREET  
BRIDGEPORT, CONNECTICUT  
**SITE PLAN WITH SOIL SAMPLE LOCATION**

SHEET NO.

**SP-1**

SHEET 1 OF 5

# BASEMENT

SIDE-C

**WINDOW KEY:**

**DC** = DECORATIVE

**OW** = OLDER OR ORIGINAL WOOD SASH (TESTED POSITIVE FOR LEAD-BASED PAINT)

**RW** = REPLACEMENT WOOD SASH (TESTED NEGATIVE FOR LEAD-BASED PAINT)

CONCRETE SLAB UNDER DECK

BASEMENT 003

BASEMENT 004

PLYWOOD VENT

B/OW-03

B/OW-02

B/OW-01

B/OW-04

B/OW-05

SIDE-B

SIDE-D

BASEMENT 002

CRAWL SPACE 001

SIDE-A (STREET SIDE)

NOT TO SCALE

C = CLOSET EVALUATED WITH ADJACENT ROOM



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Environmental, Inc.

8 SOUTH MAIN STREET, SUITE 3  
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860-589-8257

SHEET NO.

**FP-1**

SHEET 2 OF 5

DATE: 11/19/2014  
PROJECT NO.: 14-028.12-T4  
DRAWN BY: VB  
REVIEWED BY: AH

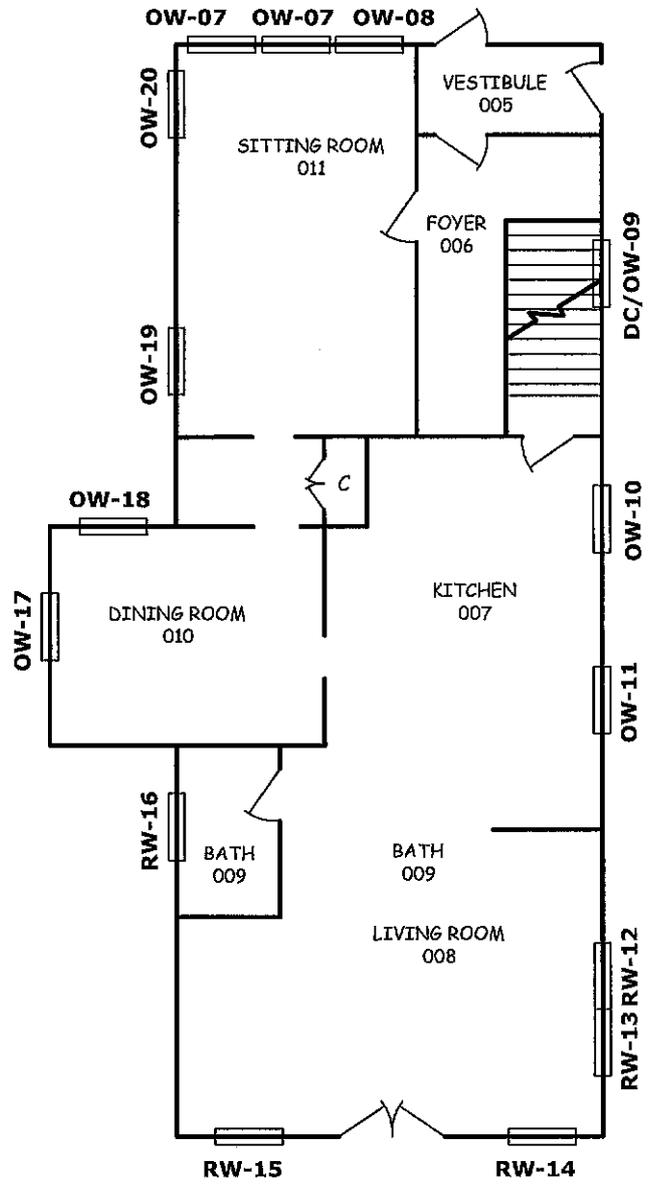
**ENVIRONMENTAL REVIEW**  
64 HACKLEY STREET  
BRIDGEPORT, CONNECTICUT  
BASEMENT

# FIRST FLOOR

SIDE-C

**WINDOW KEY:**

- DC** = DECORATIVE
- OW** = OLDER OR ORIGINAL WOOD SASH (TESTED POSITIVE FOR LEAD-BASED PAINT)
- RW** = REPLACEMENT WOOD SASH (TESTED NEGATIVE FOR LEAD-BASED PAINT)



SIDE-B

SIDE-D

SIDE-A (STREET SIDE)

NOT TO SCALE  
C = CLOSET EVALUATED WITH ADJACENT ROOM



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

**SHEET NO.**  
**FP-2**  
SHEET 3 OF 5

DATE: 11/19/2014  
PROJECT NO.: 14-028.12-T4  
DRAWN BY: VB  
REVIEWED BY: AH

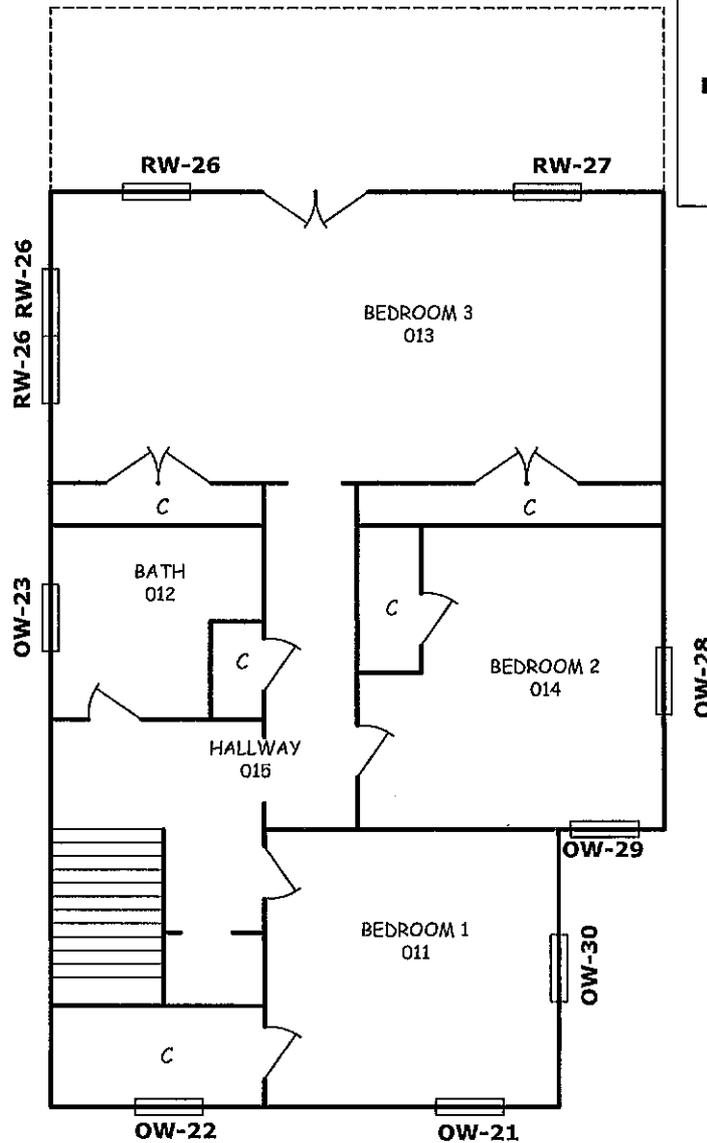
**ENVIRONMENTAL REVIEW**  
**64 HACKLEY STREET**  
**BRIDGEPORT, CONNECTICUT**  
**FIRST FLOOR PLAN**

# SECOND FLOOR

SIDE-C

**WINDOW KEY:**

- DC** = DECORATIVE
- OW** = OLDER OR ORIGINAL WOOD SASH (TESTED POSITIVE FOR LEAD-BASED PAINT)
- RW** = REPLACEMENT WOOD SASH (TESTED NEGATIVE FOR LEAD-BASED PAINT)



NOT TO SCALE

C = CLOSET EVALUATED WITH ADJACENT ROOM

SIDE-A (STREET SIDE)



**EAGLE**  
Environmental, Inc.

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TERRYVILLE, CONNECTICUT 06786  
860-589-8257

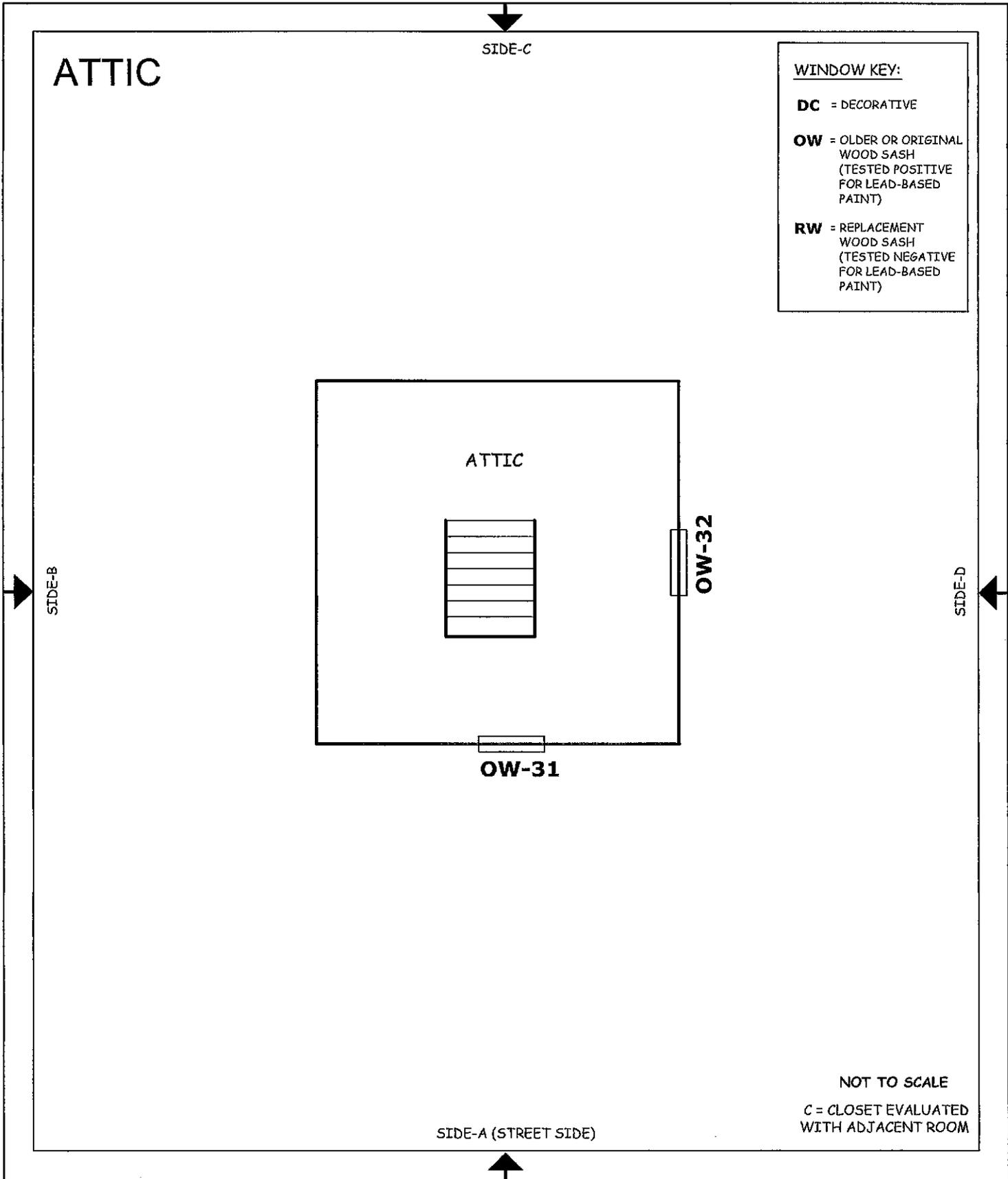
DATE: 11/19/2014  
PROJECT NO.: 14-028.12-T4  
DRAWN BY: VB  
REVIEWED BY: AH

**ENVIRONMENTAL REVIEW**  
64 HACKLEY STREET  
BRIDGEPORT, CONNECTICUT  
SECOND FLOOR PLAN

SHEET NO.

**FP-3**

SHEET 4 OF 5



**WINDOW KEY:**

**DC** = DECORATIVE

**OW** = OLDER OR ORIGINAL WOOD SASH (TESTED POSITIVE FOR LEAD-BASED PAINT)

**RW** = REPLACEMENT WOOD SASH (TESTED NEGATIVE FOR LEAD-BASED PAINT)

NOT TO SCALE  
 C = CLOSET EVALUATED WITH ADJACENT ROOM



**EAGLE**  
 Environmental, Inc.

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

SHEET NO.

**FP-5**

SHEET 5 OF 5

DATE: 11/19/2014  
 PROJECT NO.: 14-028.12-T4  
 DRAWN BY: VB  
 REVIEWED BY: AH

ENVIRONMENTAL REVIEW  
 64 HACKLEY STREET  
 BRIDGEPORT, CONNECTICUT  
 ATTIC PLAN

**APPENDIX 2**

**ASBESTOS BULK SAMPLE LABORATORY REPORTS**

REVISED

03/16/14



<b>EMSL - MA</b> 7 Constitution Way, Ste 107 Woburn, MA 01801 (781) 933-8411 (781) 933-8412 Fax	<b>EMSL - CT</b> 29 N. Plains Hwy, Unit 4 Wallingford, CT 06492 (203) 284-6948 (203) 284-6976 Fax	<b>EMSL - NY</b> 307 West 36 <sup>th</sup> Street New York, NY 10018 (866) 448-8675 (212) 290-0058 Fax	<b>EMSL - NJ</b> 107 Haddon Avenue Westmont, NJ 08108 (800) 220-3675 (856) 858-4960 Fax
-------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------

**Your Name:** Brandy LaBlanc **Project Manager:** PF

**Company:** Eagle Environmental, Inc.

**Street:** 6 South Main Street, Suite 3

**City/State/Zip:** Terryville, CT 06786

**Phone:** 860-589-8257 ext. 203 **Fax:** 860-585-7054 **Email:** [brandy@eagleenviro.com](mailto:brandy@eagleenviro.com), [project@eagleenviro.com](mailto:project@eagleenviro.com), [owynn@eagleenviro.com](mailto:owynn@eagleenviro.com), [rebel@eagleenviro.com](mailto:rebel@eagleenviro.com)

**Project Name:** CSA - Superstorm Sandy **Project #:** 14-028-12711

**Project Location:** 84 Hackley Street, Bridgeport **Project State (US):** CT

**TURNAROUND TIME**

3 Hours  6 Hours  24 Hours  48 Hours  72 Hours  4 Days  5 Days  6-18 Days

**SAMPLE MATRIX**

Air  Bulk  Soil  Wipe  Micro-Vac  Drinking Water  Wastewater  Chips  Other

<b>ASBESTOS ANALYSIS</b> <b>PCM - Air</b> <input type="checkbox"/> NIOSH 7400(A) Issue 2, August 1994 <input type="checkbox"/> OSHA 308/TWA <b>TEM AIR</b> <input type="checkbox"/> AHERA 40 CFR, Part 763 Subpart E <input type="checkbox"/> NIOSH 7402 Issue 2 <input type="checkbox"/> EPA Level H <b>PLM - Bulk</b> <input checked="" type="checkbox"/> EPA 800/R-93/116 <input type="checkbox"/> NY Standard Point Count <input type="checkbox"/> California Air Resources Board (CARB) 436 <input type="checkbox"/> NIOSH 9002 <input type="checkbox"/> PLM NOB (Gravimetric) NYS 188.1 <input type="checkbox"/> EPA Point Count (100 Points) <input type="checkbox"/> EPA Point Count (1,000 Points) <input type="checkbox"/> Standard Addition Point Count <b>SOILS</b> <input type="checkbox"/> EPA Protocol Qualitative <input type="checkbox"/> EPA Protocol Quantitative <input type="checkbox"/> EMSL MSD 6030 Method fibers/gram <input type="checkbox"/> Superfund EPA 640-R097-028 (duet generation) <b>TEM BULK</b> <input type="checkbox"/> Drop Count (Qualitative) <input type="checkbox"/> Chatfield SDP-1986-02 <input type="checkbox"/> TEM NOB (Gravimetric) NY 198.4 <b>TEM MICROVAC</b> <input type="checkbox"/> ASTM D.5755-95 (Quantitative) <b>TEM WIPE</b> <input type="checkbox"/> ASTM D-6189-09 <input type="checkbox"/> Qualitative <b>TEM WATER</b> <input type="checkbox"/> EPA 100.1 <input type="checkbox"/> EPA 100.2 <input type="checkbox"/> NYS 198.2 <input type="checkbox"/> Other	<b>LEAD ANALYSIS</b> <b>Flame Atomic Absorption</b> <input type="checkbox"/> Wipe, SW846-7420 <input type="checkbox"/> ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> Soil, SW846-7420 <input type="checkbox"/> Air, NIOSH 7082 <input type="checkbox"/> Chips, SW846-7420 or AOAC 5.069 (1974.02) <input type="checkbox"/> Wastewater, SW 846-7420 <input type="checkbox"/> TOLP Lead SW846-1311/7420 <b>Graphite Furnace Atomic Absorption</b> <input type="checkbox"/> Air, NIOSH 7106 <input type="checkbox"/> Wastewater, SW846-7421 <input type="checkbox"/> Soil, SW846-7424 <input type="checkbox"/> Drinking Water, EPA 238.2 <b>ICP - Inductively Coupled Plasma</b> <input type="checkbox"/> Wipe, SW846-8010 <input type="checkbox"/> ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> Soil, SW846-8010 <input type="checkbox"/> Air, NIOSH 7300	<b>MICROBIAL ANALYSIS</b> <b>Air Samples</b> <input type="checkbox"/> Mold & Fungi by Air O Cell <input type="checkbox"/> Mold & Fungi by Agar Plate count & ID <input type="checkbox"/> Bacterial Count and Gram Stain <input type="checkbox"/> Bacterial Count and Identification <b>Water Samples</b> <input type="checkbox"/> Total Coliforms, Fecal Coliforms <input type="checkbox"/> Escherichia Coli, Fecal Streptococci <input type="checkbox"/> Legionella <input type="checkbox"/> Salmonella <input type="checkbox"/> Giardia and Cryptosporidium <b>Wipe and Bulk Samples</b> <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi - (Culture Follow up to direct examination if necessary) <input type="checkbox"/> Mold & Fungi - Culture (Count & ID) <input type="checkbox"/> Mold & Fungi - Culture (Count only) <input type="checkbox"/> Bacterial Count & Gram Stain <input type="checkbox"/> Bacterial Count & Identification (5 most prominent types) <input type="checkbox"/> Other
<b>MATERIALS ANALYSIS</b> <input type="checkbox"/> Full Particle Identification <input type="checkbox"/> Optical Particle Identification <input type="checkbox"/> Dual/Mix and Insect Fragments <input type="checkbox"/> Particle Size & Distribution <input type="checkbox"/> Product Comparison <input type="checkbox"/> Paint Characterization <input type="checkbox"/> Failure Analysis <input type="checkbox"/> Corrosion Analysis <input type="checkbox"/> Glove Box Containment Study <input type="checkbox"/> Petrographic Examination of Concrete <input type="checkbox"/> Portland Cement in Workplace Atmospheres (OSHA ID-143) <input type="checkbox"/> Man Made Vitreous Fibers - MMVF's <input type="checkbox"/> Synthetic Fiber Identification <input type="checkbox"/> Other	<b>IAQ ANALYSIS</b> <input type="checkbox"/> Nuisance Dust (NIOSH 0500 & 0600) <input type="checkbox"/> Airborne Dust (PM10, TSP) <input type="checkbox"/> Slime Analysis by XRD <input type="checkbox"/> NIOSH 7500 <input type="checkbox"/> HVAC Efficiency <input type="checkbox"/> Carbon Black <input type="checkbox"/> Airborne Oil Mist <input type="checkbox"/> Other	

Additional Information/Comments/Instructions: **\*\*PLEASE STOP ON 1ST POSITIVE WITHIN SETS**

Client Sample # (S)	4-24-AC-01	4-24-AC-37	TOTAL SAMPLE #	31 / 37
Relinquished:	ANDREW GARNEVAL <i>[Signature]</i>	Date:	4-24-14	Time: PM
Received:	RENEE SIOCH <i>[Signature]</i>	Date:	4-24-14	Time: PM
Relinquished:	RENEE SIOCH <i>[Signature]</i>	Date:	4-28-14	Time: AM
Received:	R. DOJANSKI <i>[Signature]</i>	Date:	4/29/14	Time: 10:25 AM



<b>EMSL - MA</b> 7 Constitution Way, Ste 107 Woburn, MA 01801 (781) 933-8411 (781) 933-8412 Fax	<b>EMSL - CT</b> 29 N. Plains Hwy, Unit 4 Wallingford, CT 06492 (203) 284-5948 (203) 284-5978 Fax	<b>EMSL - NY</b> 307 West 38 <sup>th</sup> Street New York, NY 10018 (866) 448-3675 (212) 290-0058 Fax	<b>EMSL - NJ</b> 107 Haddon Avenue Westmont, NJ 08108 (800) 220-3675 (856) 858-4960 Fax
-------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------

SAMPLE NUMBER	SAMPLE DESCRIPTION	ROOM or LOGATION	VOLUME Air (L)	Area (Inches sq.)
4-24-AC-01	Residual pipe insulation	002		32% Chrys
4-24-AC-02	Residual pipe insulation	002		DNA
4-24-AC-03	Residual pipe insulation	002		↓ NAD ↓
4-24-AC-04	Residual mudded fitting	002		
4-24-AC-05	Residual mudded fitting	002		
4-24-AC-06	Residual mudded fitting	002		
4-24-AC-07	Furnace flue cement	002		
4-24-AC-08	Furnace flue cement	002		
4-24-AC-09	White textured wall paint	004		
4-24-AC-10	White textured wall paint	004		
4-24-AC-11	White textured wall paint	004		
4-24-AC-12	Sheetrock - ceiling	004		
4-24-AC-13	Sheetrock - ceiling	002		↓
4-24-AC-14	Battling insulation paper	004		
4-24-AC-15	Battling insulation paper	004		
4-24-AC-16	Rough coat plaster	002		
4-24-AC-17	Rough coat plaster	002		
4-24-AC-18	Rough coat plaster	002		
4-24-AC-19	Skim coat plaster	002		
4-24-AC-20	Skim coat plaster	002		
4-24-AC-21	Skim coat plaster	002		



**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018  
 Phone/Fax: (212) 290-0051 / (212) 290-0058  
<http://www.EMSL.com> [manhattanlab@emsl.com](mailto:manhattanlab@emsl.com)

EMSL Order: 031416161  
 CustomerID: EEVM50  
 CustomerPO:  
 ProjectID:

Attn: **Brandy LeBlanc**  
**Eagle Environmental, Inc. - CT**  
**8 South Main Street**  
**Suite 3**  
**Terryville, CT 06786**

Phone: (860) 589-8257  
 Fax: (860) 585-7034  
 Received: 04/29/14 10:25 AM  
 Analysis Date: 4/30/2014  
 Collected: 4/24/2014

Project: 14-028.12T11/ CSA-SUPERSTORM SANDY/ 64 HACKLEY STREET, BRIDGEPORT, CT

### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4-24-AC-01 031416161-0001	RESIDUAL PIPE INSULATION - 002	Gray Fibrous Homogeneous	18% Cellulose	50% Non-fibrous (other)	32% Chrysotile
4-24-AC-02 031416161-0002	RESIDUAL PIPE INSULATION - 002				Stop Positive (Not Analyzed)
4-24-AC-03 031416161-0003	RESIDUAL PIPE INSULATION - 002				Stop Positive (Not Analyzed)
4-24-AC-04 031416161-0004	RESIDUAL MUDDED FITTING - 002				Stop Positive (Not Analyzed)
4-24-AC-05 031416161-0005	RESIDUAL MUDDED FITTING - 002				Stop Positive (Not Analyzed)
4-24-AC-06 031416161-0006	RESIDUAL MUDDED FITTING - 002				Stop Positive (Not Analyzed)
4-24-AC-07 031416161-0007	FURNACE FLUE CEMENT - 002	Gray Non-Fibrous Homogeneous		32% Gypsum 68% Non-fibrous (other)	None Detected
4-24-AC-08 031416161-0008	FURNACE FLUE CEMENT - 002	Gray Non-Fibrous Homogeneous		43% Quartz 57% Non-fibrous (other)	None Detected

**Analyst(s)**

*Emmanuel Alberto (19)*  
*Henry Akintunde (12)*

James Hall, Laboratory Manager  
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11508, NJ NY022, CT PH-0170, MA AA000170

Initial report from 04/30/2014 11:29:04

**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018  
 Phone/Fax: (212) 290-0051 / (212) 290-0058  
<http://www.EMSL.com> [manhattanlab@emsl.com](mailto:manhattanlab@emsl.com)

EMSL Order: 031416161  
 CustomerID: EEVM50  
 CustomerPO:  
 ProjectID:

Attn: **Brandy LeBlanc**  
**Eagle Environmental, Inc. - CT**  
**8 South Main Street**  
**Suite 3**  
**Terryville, CT 06786**

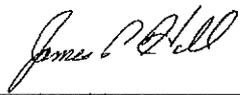
Phone: (860) 589-8257  
 Fax: (860) 585-7034  
 Received: 04/29/14 10:25 AM  
 Analysis Date: 4/30/2014  
 Collected: 4/24/2014

Project: 14-028.12T11/ CSA-SUPERSTORM SANDY/ 64 HACKLEY STREET, BRIDGEPORT, CT

### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4-24-AC-09 031416161-0009	WHITE TEXTURED WALL PAINT - 004	Gray Non-Fibrous Homogeneous		37% Quartz 30% Gypsum 33% Non-fibrous (other)	None Detected
4-24-AC-10 031416161-0010	WHITE TEXTURED WALL PAINT - 004	White Non-Fibrous Homogeneous		26% Gypsum 74% Non-fibrous (other)	None Detected
4-24-AC-11 031416161-0011	WHITE TEXTURED WALL PAINT - 004	Gray Non-Fibrous Homogeneous		35% Ca Carbonate 65% Non-fibrous (other)	None Detected
4-24-AC-12 031416161-0012	SHEETROCK-CEILING - 004	Gray Non-Fibrous Homogeneous	15% Cellulose	37% Gypsum 48% Non-fibrous (other)	None Detected
4-24-AC-13 031416161-0013	SHEETROCK-CEILING - 002	Gray Fibrous Homogeneous	5% Cellulose 3% Glass	55% Gypsum 37% Non-fibrous (other)	None Detected
4-24-AC-14 031416161-0014	BATTING INSULATION PAPER - 004	Pink Fibrous Homogeneous	67% Min. Wool	33% Non-fibrous (other)	None Detected
4-24-AC-15 031416161-0015	BATTING INSULATION PAPER - 004	Brown/Pink Fibrous Homogeneous	50% Cellulose 45% Glass	5% Non-fibrous (other)	None Detected
4-24-AC-16 031416161-0016	ROUGH COAT PLASTER - 002	Gray Non-Fibrous Homogeneous		43% Quartz 30% Gypsum 27% Non-fibrous (other)	None Detected

Analyst(s)  
 Emmanuel Alberto (19)  
 Henry Akintunde (12)

  
 James Hall, Laboratory Manager  
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC-IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 04/30/2014 11:29:04

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EMSL Order: 031416161  
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Attn: **Brandy LeBlanc**  
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**8 South Main Street**  
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Phone: (860) 589-8257  
 Fax: (860) 585-7034  
 Received: 04/29/14 10:25 AM  
 Analysis Date: 4/30/2014  
 Collected: 4/24/2014

Project: 14-028.12T11/ CSA-SUPERSTORM SANDY/ 64 HACKLEY STREET, BRIDGEPORT, CT

### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4-24-AC-17 031416161-0017	ROUGH COAT PLASTER - 002	Gray Non-Fibrous Homogeneous		35% Quartz 22% Gypsum 43% Non-fibrous (other)	None Detected
4-24-AC-18 031416161-0018	ROUGH COAT PLASTER - 002	Gray Non-Fibrous Homogeneous		45% Quartz 15% Ca Carbonate 40% Non-fibrous (other)	None Detected
4-24-AC-19 031416161-0019	SKIM COAT PLASTER - 002	White Non-Fibrous Homogeneous		32% Gypsum 68% Non-fibrous (other)	None Detected
4-24-AC-20 031416161-0020	SKIM COAT PLASTER - 002	White Non-Fibrous Homogeneous		29% Gypsum 71% Non-fibrous (other)	None Detected
4-24-AC-21 031416161-0021	SKIM COAT PLASTER - 002	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (other)	None Detected
4-24-AC-22 031416161-0022	PATCHING COMPOUND ON WHITE PLASTER - 002	White Non-Fibrous Homogeneous		55% Ca Carbonate 45% Non-fibrous (other)	None Detected
4-24-AC-23 031416161-0024	PATCHING COMPOUND ON WHITE PLASTER - 002	White Non-Fibrous Homogeneous		70% Ca Carbonate 30% Non-fibrous (other)	None Detected

**Analyst(s)**

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*Henry Akintunde (12)*

James Hall, Laboratory Manager  
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC-IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

initial report from 04/30/2014 11:29:04

**EMSL Analytical, Inc.**

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<http://www.EMSL.com> [manhattanlab@emsl.com](mailto:manhattanlab@emsl.com)

EMSL Order: 031416161  
 CustomerID: EEVM50  
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 ProjectID:

Attn: **Brandy LeBlanc** Phone: (860) 589-8257  
**Eagle Environmental, Inc. - CT** Fax: (860) 585-7034  
**8 South Main Street** Received: 04/29/14 10:25 AM  
**Suite 3** Analysis Date: 4/30/2014  
**Terryville, CT 06786** Collected: 4/24/2014

Project: 14-028.12T11/ CSA-SUPERSTORM SANDY/ 64 HACKLEY STREET, BRIDGEPORT, CT

### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4-24-AC-24 031416161-0026	PATCHING COMPOUND ON WHITE PLASTER - 002	White Non-Fibrous Homogeneous		35% Ca Carbonate 65% Non-fibrous (other)	None Detected
4-24-AC-25 031416161-0028	FIBERBOARD WALL PANEL - 002	Brown Fibrous Homogeneous	56% Cellulose	44% Non-fibrous (other)	None Detected
4-24-AC-26 031416161-0029	FIBERBOARD WALL PANEL - 002	Brown Non-Fibrous Homogeneous	55% Cellulose	45% Non-fibrous (other)	None Detected
4-24-AC-27 031416161-0030	BURNER GUN GASKET - 002	Yellow Fibrous Homogeneous	66% Glass	34% Non-fibrous (other)	None Detected
4-24-AC-28 031416161-0031	BURNER GUN GASKET - 002	Yellow Fibrous Homogeneous	90% Glass	10% Non-fibrous (other)	None Detected
4-24-AC-29 031416161-0032	INTERIOR FURNACE INSULATION - 002	Black Non-Fibrous Homogeneous	15% Cellulose	35% Ca Carbonate 50% Non-fibrous (other)	None Detected
4-24-AC-30 031416161-0033	INTERIOR FURNACE INSULATION - 002	Black Non-Fibrous Homogeneous	12% Cellulose	27% Ca Carbonate 61% Non-fibrous (other)	None Detected
4-24-AC-31 031416161-0034	INTERIOR FURNACE INSULATION - 002	Brown/Gray Non-Fibrous Homogeneous	15% Cellulose	30% Ca Carbonate 55% Non-fibrous (other)	None Detected

**Analyst(s)**

Emmanuel Alberto (19)  
 Henry Akintunde (12)

James Hall, Laboratory Manager  
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC-IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 04/30/2014 11:29:04

**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018  
 Phone/Fax: (212) 290-0051 / (212) 290-0058  
<http://www.EMSL.com> [manhattanlab@emsl.com](mailto:manhattanlab@emsl.com)

EMSL Order: 031416161  
 CustomerID: EEVM50  
 CustomerPO:  
 ProjectID:

Attn: **Brandy LeBlanc**  
**Eagle Environmental, Inc. - CT**  
**8 South Main Street**  
**Suite 3**  
**Terryville, CT 06786**

Phone: (860) 589-8257  
 Fax: (860) 585-7034  
 Received: 04/29/14 10:25 AM  
 Analysis Date: 4/30/2014  
 Collected: 4/24/2014

Project: 14-028.12T11/ CSA-SUPERSTORM SANDY/ 64 HACKLEY STREET, BRIDGEPORT, CT

### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4-24-AC-32 031416161-0035	BASEMENT WINDOW GLAZING COMPOUND - FAÇADE D	Gray Non-Fibrous Homogeneous		32% Gypsum 68% Non-fibrous (other)	None Detected
4-24-AC-33 031416161-0036	BASEMENT WINDOW GLAZING COMPOUND - FAÇADE B	Gray Non-Fibrous Homogeneous		40% Quartz 20% Ca Carbonate 40% Non-fibrous (other)	None Detected
4-24-AC-34 031416161-0037	DAMP PROOFING ON FOUNDATION - FAÇADE B	Black Non-Fibrous Homogeneous		78% Non-fibrous (other)	22% Chrysotile
4-24-AC-35 031416161-0038	DAMP PROOFING ON FOUNDATION - FAÇADE D				Stop Positive (Not Analyzed)
4-24-AC-36 031416161-0039	STONE MORTAR AT RETAINING WALL - FAÇADE B	Gray Non-Fibrous Homogeneous		34% Quartz 28% Gypsum 38% Non-fibrous (other)	None Detected
4-24-AC-37 031416161-0040	STONE MORTAR AT RETAINING WALL - FAÇADE B	Gray Non-Fibrous Homogeneous		40% Quartz 15% Ca Carbonate 45% Non-fibrous (other)	None Detected

**Analyst(s)**

*Emmanuel Alberto (19)*  
*Henry Akintunde (12)*

James Hall, Laboratory Manager  
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC-IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 04/30/2014 11:29:04

**APPENDIX 3**

**INTERIOR AND EXTERIOR VISUAL ASSESSMENT FORMS**













# EAGLE Environmental, Inc.

## INTERIOR VISUAL ASSESSMENT FORM

Address: 64 Hackley Street, Bridgeport, CT

Room No: Basement 002

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Floor	A B C D	(D) F P	unpainted concrete	
Wall	(A)(B)(C)(D)	(D) F P	unpainted stone/masonry	
Ceiling	A B C D	(D) F P	unpainted studs ceiling deck	
Door	A B C D	I F P		
Door Casing	A B C D	I F P		
Door Jamb	A B C D	I F P		
Baseboard	A B C D	I F P		
Window Casing	A (B) C (D)	(D) F P	Varnished	
Window Stop	A B C D	I F P		
Window Jamb	A B C D	I F P		
Window Sash	A (B) C (D)	(D) F P	varnished	
Window Well	A B C D	I F P		
Window Sill	A B C D	I F P		
Window Apron	A B C D	I F P		
Closet Door	(A) B C D	I F (P)		
Closet Door Casing	(A) B C D	I F (P)		
Closet Door Jamb	(A) B C D	I F (P)		
Closet Shelf	A B C D	I F P		
Shelf Support	A B C D	I F P		
Radiator	A B C D	I F P		
Crown Molding	A B C D	I F P		
Cabinet	A B C D	I F P		
Cabinet Door	A B C D	I F P		
Cabinet Frame	A B C D	I F P		
Closet wall	(A) B C D	I F (P)	(inside) XRF	
Closet Frame	(A) B C D	I F (P)	(outer wall) XRF ⊕	Liquid Encap.
Stair tread	A B C D	(D) F P	Carpeted (entire length)	
Stair stringer	A B C D	I F (P)	XRF ⊕	Liquid Encap.
Top stair riser	A B C D	I F (P)	XRF ⊕	Enclose w/wood
Stair walls	A (B) C (D)	I F (P)	XRF ⊕	
Stair shelving	A (B) C D	I F (P)	XRF ⊕	Liquid Encap.
Stair shelf supp.	A B C (D)	I F (P)	XRF ⊕	
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		









# EAGLE Environmental, Inc.

## INTERIOR VISUAL ASSESSMENT FORM

Address: 64 Hackley Street, Bridgeport, CT

Room No: Foyer 006

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Floor	A B C D	① F P	hardwood	
Wall	Ⓐ Ⓑ Ⓒ Ⓓ	① F P	B wall cracked along stringer XRF	
Ceiling	A B C D	① F P		
Door	Ⓐ Ⓑ Ⓒ Ⓓ	① F P		
Door Casing	Ⓐ Ⓑ Ⓒ Ⓓ	① F P		
Door Jamb	Ⓐ Ⓑ Ⓒ Ⓓ	① F P		
Baseboard	Ⓐ Ⓑ Ⓒ Ⓓ	① F P		
Window Casing	A Ⓑ C D	I F P		
Window Stop	A Ⓑ C D	① F P		
Window Jamb	A Ⓑ C D	① F P		
Window Sash	A Ⓑ C D	① F P		
Window Well	A Ⓑ C D	I F P	XRF ⊕	
Window Sill	A Ⓑ C D	① F P		
Window Apron	A Ⓑ C D	① F P		
Closet Door	A B C D	I F P	n/a	
Closet Door Casing	A B C D	I F P		
Closet Door Jamb	A B C D	I F P		
Closet Shelf	A B C D	I F P		
Shelf Support	A B C D	I F P		
Radiator	A B C D	I F P		
Crown Molding	A B C D	I F P		
Cabinet	A B C D	I F P		
Cabinet Door	A B C D	I F P		
Cabinet Frame	A B C D	I F P		
Stair tread	A B C D	① F P	varnished	
Stair risers	A B C D	① F P	Painted	
Stair stringer	A B C D	① F P	Painted	
Stair newel post	A B C D	① F P	varnished	
Stair rail top	A B C D	① F P	varnished	
Stair balusters	A B C D	① F P	Painted	
Stair header	A B C D	① F P		
Win Blinds top	A Ⓑ C D	I F P	XRF ⊕	
Win Ext Sash	A Ⓑ C D	I F P	XRF ⊕	
	A B C D	I F P		
	A B C D	I F P		



# EAGLE Environmental, Inc.

## INTERIOR VISUAL ASSESSMENT FORM

Address: 64 Hackley Street, Bridgeport, CT

Room No: Kitchen 007

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Floor	A B C D	① F P	hardwood	
Wall	ⓐ ⓑ ⓒ ⓓ	① F P		
Ceiling	A B C D	① F P		
Door	ⓐ ⓑ ⓒ ⓓ	I F Ⓟ	XRF ⊖	trim door to prevent rubbing
Door Casing	ⓐ ⓑ ⓒ ⓓ	① F P	/ Door rubs	
Door Jamb	ⓐ ⓑ ⓒ ⓓ	I F Ⓟ	XRF ⊕	paint removal
Baseboard	ⓐ ⓑ ⓒ ⓓ	① F P		
Window Casing	A ⓑ C D	① F P		
Window Stop	A ⓑ C D	① F P		
Window Jamb	A ⓑ C D	① F P		
Window Sash	A ⓑ C D	① F P		
Window Well	A ⓑ C D	I F Ⓟ	XRF ⊕	R+R
Window Sill	A ⓑ C D	① F P		
Window Apron	A ⓑ C D	① F P		
Closet Door	A B C D	I F P		
Closet Door Casing	A B C D	I F P		
Closet Door Jamb	A B C D	I F P		
Closet Shelf	A B C D	I F P		
Shelf Support	A B C D	I F P		
Radiator	A B C D	I F P		
Crown Molding	A B C D	I F P		
Cabinet	A ⓑ ⓒ ⓓ	① F P		
Cabinet Door	A ⓑ ⓒ ⓓ	① F P		
Cabinet Frame	A ⓑ ⓒ ⓓ	① F P		
ceiling trim	A B C D	① F P		
Built-in shelf	ⓐ ⓑ C D	① F P		
Win blindstop	A ⓑ C D	I F Ⓟ	XRF ⊕	R+R
Win ext. sash	A B C D	I F Ⓟ	XRF ⊕	
radiator cover	A ⓑ C D	① F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		







# EAGLE Environmental, Inc.

## INTERIOR VISUAL ASSESSMENT FORM

Address: 64 Hackley Street, Bridgeport, CT

Room No: Dining Rm 009

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Floor	A B C D	① F P	hardwood	
Wall	Ⓐ Ⓑ Ⓒ Ⓓ	① F P		
Ceiling	A B C D	① F P		
Door	A Ⓑ C D	① F P		
Door Casing	Ⓐ Ⓑ C D	① F P		
Door Jamb	A Ⓑ C D	① F P		
Baseboard	Ⓐ Ⓑ Ⓒ Ⓓ	① F P		
Window Casing	Ⓐ B C Ⓓ	① F P		
Window Stop	Ⓐ B C Ⓓ	① F P		
Window Jamb	Ⓐ B C Ⓓ	I F Ⓟ	XRF ⊕	R-12
Window Sash	Ⓐ B C Ⓓ	① F P		
Window Well	Ⓐ B C Ⓓ	I F Ⓟ	XRF ⊕	
Window Sill	Ⓐ B C Ⓓ	① F P		
Window Apron	Ⓐ B C Ⓓ	① F P		
Closet Door	A Ⓑ C D	I F P		
Closet Door Casing	A Ⓑ C D	I F P		
Closet Door Jamb	A Ⓑ C D	I F P		
Closet Shelf	A Ⓑ C D	I F P		
Shelf Support	A Ⓑ C D	I F P		
Radiator	A B C Ⓓ	① F P		
Crown Molding	Ⓐ Ⓑ Ⓒ Ⓓ	① F P		
Cabinet	A B C Ⓓ	① F P		
Cabinet Door	A B C Ⓓ	① F P		
Cabinet Frame	A B C Ⓓ	① F P		
Window blindstop	Ⓐ B C Ⓓ	I F Ⓟ	XRF ⊕	
Window ext. sash	Ⓐ B C Ⓓ	I F Ⓟ	XRF ⊕	
Chair rail	Ⓐ Ⓑ Ⓒ Ⓓ	① F P		
Window part. bead	Ⓐ B C Ⓓ	I F Ⓟ	XRF ⊕	
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		

Area  
6/12/02  
10/02

Area  
6/12/02  
10/02



# EAGLE Environmental, Inc.

## INTERIOR VISUAL ASSESSMENT FORM

Address: 64 Hackley Street, Bridgeport, CT

Room No: Attic Rm 010

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Floor	A B C D	(1) F P	hardwood	
Wall	(A) (B) (C) (D)	(1) F P	water damage on 'D' XRF (-)	
Ceiling	A B C D	(1) F P		
Door	A (B) C D	I F (P)	Door does not close XRF (+)	(+) strip plastic paint
Door Casing	A (B) (C) D	I F (P)	XRF (+)	Liquid Encap
Door Jamb	A (B) (C) D	I F (P)	XRF (+)	paint removal
Baseboard	(A) (B) (C) (D)	I F (P)	XRF (+)	Liquid Encap
Window Casing	(A) B C (D)	I F (P)	} XRF (+)	Liquid Encap. tan
Window Stop	(A) B C (D)	I F (P)		
Window Jamb	(A) B C (D)	I F (P)		
Window Sash	(A) B C (D)	I F (P)		
Window Well	(A) B C (D)	I F (P)		
Window Sill	(A) B C (D)	I F (P)		
Window Apron	(A) B C (D)	I F (P)		
Closet Door	A B C D	I F P	} n/a ↓	
Closet Door Casing	A B C D	I F P		
Closet Door Jamb	A B C D	I F P		
Closet Shelf	A B C D	I F P		
Shelf Support	A B C D	I F P		
Radiator	A B C D	I F P		
Crown Molding	A B C D	I F P		
Cabinet	A B C D	I F P		
Cabinet Door	A B C D	I F P		
Cabinet Frame	A B C D	I F P		
radiator cover	(A) B C D	(1) F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		





# EAGLE Environmental, Inc.

## INTERIOR VISUAL ASSESSMENT FORM

Address: 64 Hackley Street, Bridgeport, CT

Room No: Bath 2 012

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Floor	A B C D	① F P	linoleum	
Wall	A B C D	① F P	up plaster four-ounce tile	
Ceiling	A B C D	① F P		
Door	A B C D	I F P	XRF ⊕	
Door Casing	A B C D	① F P		
Door Jamb	A B C D	I F P	XRF ⊕	
Baseboard	A B C D	I F P		
Window Casing	A B C D	① F P		
Window Stop	A B C D	① F P		
Window Jamb	A B C D	I F P	XRF ⊕	
Window Sash	A B C D	I F P		
Window Well	A B C D	I F P	XRF ⊕	
Window Sill	A B C D	I F P	XRF ⊕	Liquid Escap
Window Apron	A B C D	① F P		
Closet Door	A B C D	I F P	old	
Closet Door Casing	A B C D	I F P		
Closet Door Jamb	A B C D	I F P		
Closet Shelf	A B C D	I F P		
Shelf Support	A B C D	I F P		
Radiator	A B C D	I F P		
Crown Molding	A B C D	I F P		
Cabinet	A B C D	① F P	medicines cabinet	
Cabinet Door	A B C D	① F P		
Cabinet Frame	A B C D	① F P		
radiator cover	A B C D	① F P		
ext sash	A B C D	I F P	XRF ⊕	
win B window stop	A B C D	I F P	XRF ⊕	
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		





# EAGLE Environmental, Inc.

## INTERIOR VISUAL ASSESSMENT FORM

Address: 64 Hackley Street, Bridgeport, CT

Room No: Bedroom 2.014

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Floor	A B C D	① F P	Hardwood	
Wall	A B C D	① F P		
Ceiling	A B C D	① F P		
Door	A B C D	① F P		
Door Casing	A B C D	① F P		
Door Jamb	A B C D	① F P		
Baseboard	A B C D	① F P		
Window Casing	A B C D	① F P		
Window Stop	A B C D	① F P		
Window Jamb	A B C D	I F P	XRF ⊕	
Window Sash	A B C D	① F P		
Window Well	A B C D	I F P	XRF ⊕	
Window Sill	A B C D	I F P	XRF ⊕	Liquid Seep
Window Apron	A B C D	① F P		
Closet Door	A B C D	① F P		
Closet Door Casing	A B C D	① F P		
Closet Door Jamb	A B C D	① F P		
Closet Shelf	A B C D	① F P		
Shelf Support	A B C D	① F P		
Radiator	A B C D	① F P		
Crown Molding	A B C D	I F P	no	
Cabinet	A B C D	I F P		
Cabinet Door	A B C D	I F P		
Cabinet Frame	A B C D	I F P		
Ext. Sash	A B C D	I F P	XRF ⊕	
Int. Sash	A B C D	I F P	XRF ⊕	
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		

**APPENDIX 4**

**XRF LEAD-BASED PAINT INSPECTION REPORTS**

# LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#01364 - 04/24/14 08:46

INSPECTION FOR: Mr. David Holmes  
Capital Studio Architects  
1379 Main Street  
East Hartford, CT 06108

PERFORMED AT: 64 Hackley Street  
Bridgeport, CT

INSPECTION DATE: 04/24/14

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

ACTION LEVEL: 1.0 mg/cm<sup>2</sup>

OPERATOR LICENSE: 002250

Lead-based paint screen for renovation purposes of 64 Hackley Street, Bridgeport, CT.

SIGNED: Eltwaun Lawrence

Date: 4/24/14

Eltwaun Lawrence  
Lead Inspector / Risk Assessor  
Eagle Environmental, Inc.  
8 South Main Street, Suite 3  
Terryville, CT 06786

**SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. David Holmes**

Inspection Date: 04/24/14 64 Hackely Street  
 Report Date: 4/24/2014 Bridgeport, CT  
 Abatement Level: 1.0  
 Report No. S#01364 - 04/24/14 08:46  
 Total Readings: 41 Actionable: 10  
 Job Started: 04/24/14 08:46  
 Job Finished: 04/24/14 10:12

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm <sup>2</sup> )	Mode
<b>Exterior Room 002 Facade B</b>									
030	B	Basement	Lft	Wndw Sash	I	Wood	white	2.7	QM
<b>Exterior Room 003 Facade C</b>									
031	C	Wall	Ctr	Clapboards	I	Wood	gray	8.2	QM
<b>Interior Room 002 Number Only</b>									
004	A	Closet	Rgt	Wall	P	Wood	lt. blue	7.4	QM
006	B	Stairs	Ctr	Stringers	I	Wood	gray	1.3	QM
009	B	Stairs	Ctr	Window Case	I	Wood	lt green	3.8	QM
010	B	Stairs	Ctr	Window Sill	P	Wood	lt green	8.1	QM
011	B	Stairs	Ctr	WindowApron	I	Wood	lt green	1.6	QM
012	B	Stairs	Ctr	L Wall	I	Wood	lt green	7.5	QM
007	B	Stairs	Ctr	Risers	I	Wood	gray	1.6	QM
<b>Interior Room 003</b>									
020	B	Window	Rgt	Sash	I	Wood	gray	2.2	QM
----- End of Readings -----									

**DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. David Holmes**

Inspection Date: 04/24/14  
 Report Date: 4/24/2014  
 Abatement Level: 1.0  
 Report No. S#01364 - 04/24/14 08:46  
 Total Readings: 41  
 Job Started: 04/24/14 08:46  
 Job Finished: 04/24/14 10:12

64 Hackely Street  
 Bridgeport, CT

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm <sup>2</sup> )	Mode
Exterior Room 001 Facade A									
025	A	Floor	Lft		I	Concrete	gray	0.0	QM
023	A	Wall	Lft	Clapboards	I	Wood	gray	0.3	QM
022	A	Cornerboard	Rgt		I	Wood	white	0.0	QM
024	A	Door	Lft	Kickplate	I	Wood	white	0.5	QM
Exterior Room 002 Facade B									
030	B	Basement	Lft	Wndw Sash	I	Wood	white	2.7	QM
026	B	Basement	Rgt	Wndw Case	I	Wood	white	0.1	QM
027	B	Basement	Rgt	Wndw Sash	P	Wood	gray	0.2	QM
029	B	Wall	Ctr	Clapboards	I	Wood	gray	0.0	QM
028	B	Cornerboard	Ctr		I	Wood	white	0.3	QM
Exterior Room 003 Facade C									
031	C	Wall	Ctr	Clapboards	I	Wood	gray	8.2	QM
032	C	Cornerboard	Lft		I	Wood	white	-0.2	QM
Exterior Room 004 Facade D									
035	D	Basement	Lft	Wndw Case	I	Wood	white	0.0	QM
036	D	Basement	Lft	Wndw Sash	P	Wood	white	0.6	QM
037	D	Basement	Lft	Wndw Stop	P	Wood	white	0.6	QM
038	D	Pipe	Lft		I	Metal	black	0.0	QM
033	D	Wall	Ctr	Clapboards	I	Wood	gray	-0.4	QM
034	D	Cornerboard	Ctr		I	Wood	white	-0.1	QM
Interior Room 002 Number Only									
005	A	Closet	Rgt	Door	P	Wood	lt. blue	0.1	QM
004	A	Closet	Rgt	Wall	P	Wood	lt. blue	7.4	QM
013	B	Window	Rgt	Sash	I	Wood	varnish	0.0	QM
006	B	Stairs	Ctr	Stringers	I	Wood	gray	1.3	QM
009	B	Stairs	Ctr	Window Case	I	Wood	lt green	3.8	QM
010	B	Stairs	Ctr	Window Sill	P	Wood	lt green	8.1	QM
011	B	Stairs	Ctr	WindowApron	I	Wood	lt green	1.6	QM
012	B	Stairs	Ctr	L Wall	I	Wood	lt green	7.5	QM
008	B	Stairs	Ctr	Wall	P	Plaster	lt green	0.5	QM
007	B	Stairs	Ctr	Risers	I	Wood	gray	1.6	QM
014	D	Window	Lft	Sash	I	Wood	varnish	0.0	QM
015	D	Window	Rgt	Sash	I	Wood	varnish	0.0	QM
Interior Room 003									
016	-	Ceiling	Ctr		I	Sheetrock	white	0.0	QM
017	A	Wall	Ctr		I	Concrete	white	0.4	QM

**DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. David Holmes**

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm <sup>2</sup> )	Mode
018	B	Window	Ctr	Sash	I	Wood	varnish	0.2	QM
020	B	Window	Rgt	Sash	I	Wood	gray	2.2	QM
019	C	Door	Ctr		I	Wood	gray	0.1	QM
021	D	Wall	Ctr		I	Concrete	gray	0.2	QM
<b>Calibration Readings</b>									
001								0.9	TC
002								0.8	TC
003								0.9	TC
039								0.9	TC
040								0.9	TC
041								0.8	TC

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

# LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#02753 - 05/28/14 13:27

INSPECTION FOR: Mr. David Holmes  
Capital Studio Architects  
1379 Main Street  
East Hartford, CT 06108

PERFORMED AT: 64 Hackley Street  
Bridgeport, CT

INSPECTION DATE: 05/28/14

INSTRUMENT TYPE: R M D  
MODEL LPA-1  
XRF TYPE ANALYZER  
Serial Number: 02753

ACTION LEVEL: 1.0 mg/cm<sup>2</sup>

OPERATOR LICENSE: 002206

A Lead-Based Paint Hazard Assessment was performed for the interiors and exteriors.

SIGNED: \_\_\_\_\_



Kristen Liljehult  
Lead Inspector / Risk Assessor  
Eagle Environmental, Inc.  
8 South Main Street, Suite # 3  
Terryville, CT 06786

Date: \_\_\_\_\_

5/28/14

**SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. David Holmes**

Inspection Date: 05/28/14  
 Report Date: 5/29/2014  
 Abatement Level: 1.0  
 Report No. S#02753 - 05/28/14 13:27  
 Total Readings: 73 Actionable: 50  
 Job Started: 05/28/14 13:27  
 Job Finished: 05/28/14 16:27

64 Hackley Street  
 Bridgeport, CT

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm <sup>2</sup> )	Mode
Interior Room 002 Basement									
005	-	Stairs	Ctr	Stringers	P	Wood	gray	2.5	QM
006	-	Stairs	Ctr	Risers	P	Wood	gray	3.5	QM
		top riser only							
009	B	Stairs	Ctr	Shelving	P	Wood	lt green	3.2	QM
010	B	Stairs	Ctr	Shelving	P	Wood	lt green	>9.9	QM
013	B	Stairs	Ctr	Win Casing	P	Wood	lt green	>9.9	QM
Interior Room 006 Foyer									
018	B	Window	Ctr	Blind Stop	P	Wood	white	>9.9	QM
019	B	Window	Ctr	Ext. Sash	P	Wood	white	3.1	QM
Interior Room 007 Kitchen									
021	A	Door	Rgt	Jamb	P	Wood	white	3.6	QM
023	B	Window	Lft	Blind Stop	P	Wood	white	>9.9	QM
024	B	Window	Lft	Ext. Sash	P	Wood	white	>9.9	QM
022	B	Window	Lft	Well	P	Wood	white	2.9	QM
025	B	Window	Rgt	Blind Stop	P	Wood	white	>9.9	QM
Interior Room 009 Dining Rm									
028	A	Window	Lft	Jamb	P	Wood	white	>9.9	QM
029	A	Window	Lft	Blind Stop	P	Wood	white	>9.9	QM
030	A	Window	Lft	Ext. Sash	P	Wood	white	>9.9	QM
026	A	Window	Lft	Well	P	Wood	white	>9.9	QM
027	A	Window	Lft	Part. bead	P	Wood	white	>9.9	QM
031	D	Window	Ctr	Ext. Sash	P	Wood	white	>9.9	QM
Interior Room 010 Sitting Rm									
039	A	Window	Lft	Sash	P	Wood	white	5.5	QM
040	A	Window	Ctr	Sash	P	Wood	white	4.2	QM
041	A	Window	Rgt	Sash	P	Wood	white	3.4	QM
042	B	Door	Rgt		P	Wood	white	>9.9	QM
043	B	Door	Rgt	Casing	P	Wood	white	>9.9	QM
044	B	Door	Rgt	Jamb	P	Wood	white	8.0	QM
033	D	Baseboard	Ctr		P	Wood	white	5.6	QM
038	D	Window	Lft	Sash	P	Wood	white	9.4	QM
034	D	Window	Rgt	Casing	P	Wood	white	>9.9	QM
036	D	Window	Rgt	Stop	P	Wood	white	2.9	QM
037	D	Window	Rgt	Sash	P	Wood	white	7.1	QM
035	D	Window	Rgt	Sill	P	Wood	white	>9.9	QM

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. David Holmes

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm <sup>2</sup> )	Mode
Interior Room 011 Bedroom 1									
051	A	Window	Lft	Jamb	P	Wood	white	>9.9	QM
052	A	Window	Lft	Blind Stop	P	Wood	white	>9.9	QM
053	A	Window	Lft	Sash	P	Wood	white	>9.9	QM
050	A	Window	Lft	Well	P	Wood	white	>9.9	QM
055	A	Closet	Ctr	Win sash	P	Wood	white	5.1	QM
047	B	Door	Rgt	Jamb	P	Wood	white	>9.9	QM
049	B	Closet	Lft	Jamb	P	Wood	white	>9.9	QM
048	B	Closet	Lft	Door	P	Wood	white	5.4	QM
054	D	Window	Ctr	Sash	P	Wood	white	>9.9	QM
Interior Room 012 Bath 2									
060	B	Window	Lft	Jamb	P	Wood	white	2.6	QM
061	B	Window	Lft	Blind Stop	P	Wood	white	>9.9	QM
062	B	Window	Lft	Ext. Sash	P	Wood	white	2.6	QM
059	B	Window	Lft	Well	P	Wood	white	1.4	QM
058	B	Window	Lft	Sill	P	Wood	white	1.5	QM
Interior Room 014 Bedroom 2									
064	A	Window	Lft	Jamb	P	Wood	white	>9.9	QM
065	A	Window	Lft	Blind Stop	P	Wood	white	>9.9	QM
066	A	Window	Lft	Ext. Sash	P	Wood	white	>9.9	QM
063	A	Window	Lft	Well	P	Wood	white	>9.9	QM
068	A	Window	Ctr	Sill	P	Wood	white	>9.9	QM
067	D	Window	Ctr	Ext. Sash	P	Wood	white	>9.9	QM
Calibration Readings									
----- End of Readings -----									

**DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. David Holmes**

Inspection Date: 05/28/14 64 Hackley Street  
 Report Date: 5/29/2014 Bridgeport, CT  
 Abatement Level: 1.0  
 Report No. S#02753 - 05/28/14 13:27  
 Total Readings: 73  
 Job Started: 05/28/14 13:27  
 Job Finished: 05/28/14 16:27

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm <sup>2</sup> )	Mode
Interior Room 002 Basement									
005	-	Stairs	Ctr	Stringers	P	Wood	gray	2.5	QM
011	-	Stairs	Ctr	Ceiling dck	P	Wood	lt green	0.6	QM
006	-	Stairs	Ctr	Risers	P	Wood	gray	3.5	QM
		top riser only							
004	A	Closet	Rgt	Wall	P	Wood	beige	0.1	QM
009	B	Stairs	Ctr	Shelving	P	Wood	lt green	3.2	QM
010	B	Stairs	Ctr	Shelving	P	Wood	lt green	>9.9	QM
013	B	Stairs	Ctr	Win Casing	P	Wood	lt green	>9.9	QM
007	B	Stairs	Ctr	Wall	P	Plaster	lt green	0.4	QM
012	D	Stairs	Ctr	Shelf supp	P	Wood	lt green	0.0	QM
008	D	Stairs	Ctr	Wall	P	Plaster	lt green	0.6	QM
Interior Room 003 Basement									
014	C	Door	Ctr	Ext side	P	Wood	gray	-0.2	QM
015	C	Door	Ctr	Casing	P	Wood	white	0.1	QM
Interior Room 006 Foyer									
016	B	Wall	Ctr		P	Plaster	brown	-0.2	QM
018	B	Window	Ctr	Blind Stop	P	Wood	white	>9.9	QM
019	B	Window	Ctr	Ext. Sash	P	Wood	white	3.1	QM
017	B	Window	Ctr	Well	P	Wood	white	0.7	QM
Interior Room 007 Kitchen									
020	A	Door	Rgt		P	Wood	white	0.1	QM
021	A	Door	Rgt	Jamb	P	Wood	white	3.6	QM
023	B	Window	Lft	Blind Stop	P	Wood	white	>9.9	QM
024	B	Window	Lft	Ext. Sash	P	Wood	white	>9.9	QM
022	B	Window	Lft	Well	P	Wood	white	2.9	QM
025	B	Window	Rgt	Blind Stop	P	Wood	white	>9.9	QM
Interior Room 009 Dining Rm									
028	A	Window	Lft	Jamb	P	Wood	white	>9.9	QM
029	A	Window	Lft	Blind Stop	P	Wood	white	>9.9	QM
030	A	Window	Lft	Ext. Sash	P	Wood	white	>9.9	QM
026	A	Window	Lft	Well	P	Wood	white	>9.9	QM
027	A	Window	Lft	Part. bead	P	Wood	white	>9.9	QM
031	D	Window	Ctr	Ext. Sash	P	Wood	white	>9.9	QM
Interior Room 010 Sitting Rm									
039	A	Window	Lft	Sash	P	Wood	white	5.5	QM
040	A	Window	Ctr	Sash	P	Wood	white	4.2	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. David Holmes

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm <sup>2</sup> )	Mode
041	A	Window	Rgt	Sash	P	Wood	white	3.4	QM
042	B	Door	Rgt		P	Wood	white	>9.9	QM
043	B	Door	Rgt	Casing	P	Wood	white	>9.9	QM
044	B	Door	Rgt	Jamb	P	Wood	white	8.0	QM
045	B	Door	Rgt	Stop	P	Wood	white	0.3	QM
032	D	Wall	Ctr		P	Plaster	pink	-0.1	QM
033	D	Baseboard	Ctr		P	Wood	white	5.6	QM
038	D	Window	Lft	Sash	P	Wood	white	9.4	QM
034	D	Window	Rgt	Casing	P	Wood	white	>9.9	QM
036	D	Window	Rgt	Stop	P	Wood	white	2.9	QM
037	D	Window	Rgt	Sash	P	Wood	white	7.1	QM
035	D	Window	Rgt	Sill	P	Wood	white	>9.9	QM
Interior Room 011 Bedroom 1									
051	A	Window	Lft	Jamb	P	Wood	white	>9.9	QM
052	A	Window	Lft	Blind Stop	P	Wood	white	>9.9	QM
053	A	Window	Lft	Sash	P	Wood	white	>9.9	QM
050	A	Window	Lft	Well	P	Wood	white	>9.9	QM
055	A	Closet	Ctr	Win sash	P	Wood	white	5.1	QM
046	B	Door	Rgt		P	Wood	white	0.4	QM
047	B	Door	Rgt	Jamb	P	Wood	white	>9.9	QM
049	B	Closet	Lft	Jamb	P	Wood	white	>9.9	QM
048	B	Closet	Lft	Door	P	Wood	white	5.4	QM
054	D	Window	Ctr	Sash	P	Wood	white	>9.9	QM
Interior Room 012 Bath 2									
056	A	Door	Ctr		P	Wood	white	0.1	QM
057	A	Door	Ctr	Jamb	P	Wood	white	0.2	QM
060	B	Window	Lft	Jamb	P	Wood	white	2.6	QM
061	B	Window	Lft	Blind Stop	P	Wood	white	>9.9	QM
062	B	Window	Lft	Ext. Sash	P	Wood	white	2.6	QM
059	B	Window	Lft	Well	P	Wood	white	1.4	QM
058	B	Window	Lft	Sill	P	Wood	white	1.5	QM
Interior Room 014 Bedroom 2									
064	A	Window	Lft	Jamb	P	Wood	white	>9.9	QM
065	A	Window	Lft	Blind Stop	P	Wood	white	>9.9	QM
066	A	Window	Lft	Ext. Sash	P	Wood	white	>9.9	QM
063	A	Window	Lft	Well	P	Wood	white	>9.9	QM
068	A	Window	Ctr	Sill	P	Wood	white	>9.9	QM
067	D	Window	Ctr	Ext. Sash	P	Wood	white	>9.9	QM
Interior Room 016 Attic									
069	B	Stairs	Ctr	Wall	P	Plaster	white	0.0	QM
		no access to original windows.							
070	D	Stairs	Ctr	Wall	P	Plaster	white	0.0	QM
Calibration Readings									
001								1.1	TC

**DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. David Holmes**

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm <sup>2</sup> )	Mode
002								1.1	TC
003								1.0	TC
071								1.1	TC
072								1.1	TC
073								1.1	TC
----- End of Readings -----									

**APPENDIX 5**

**LEAD DUST AND SOIL SAMPLE LABORATORY REPORTS**

0314 20580



<b>EMSL - MA</b> 7 Constitution Way, Ste 107 Woburn, MA 01801 (781) 933-8411 (781) 933-8412 Fax	<b>EMSL - CT</b> 29 N. Plains Hwy, Unit 4 Wallingford, CT 06492 (203) 284-5948 (203) 284-5978 Fax	<b>EMSL - NY</b> 307 West 38 <sup>th</sup> Street New York, NY 10018 (866) 448-3675 (212) 290-0058 Fax	<b>EMSL - NJ</b> 107 Haddon Avenue Westmont, NJ 08108 (800) 220-3675 (856) 858-4960 Fax
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**Your Name:** Brandy LeBlanc **Project Manager:** PF

**Company:** Eagle Environmental, Inc.

**Street:** 8 South Main Street, Suite 3

**City/State/Zip:** Terryville, CT 06786

**Phone:** 860-589-8257 ext. 203 **Fax:** 860-585-7034 **Email:** bleblanc@eagleenviro.com; nporter@eagleenviro.com; dwynne@eagleenviro.com; rsloch@eagleenviro.com

**Project Name:** Capital Studio Architects - Environmental Review **Project #:** 14-028.12T11

**Project Location:** 64 Hackley Street, Bridgeport **Project State (US):** CT

**TURNAROUND TIME**

3 Hours  
  6 Hours  
  24 Hours  
  48 Hours  
  72 Hours  
  4 Days  
  5 Days  
  6-10 Days

**SAMPLE MATRIX**

Air  
  Bulk  
  Soil  
  Wipe  
  Micro-Vac  
  Drinking Water  
  Wastewater  
  Chips  
  Other

**ASBESTOS ANALYSIS**

**PCM - Air**

NIOSH 7400 (A) Issue 2: August 1994  
 OSHA w/TWA

**TEM AIR**

AHERA 40 CFR, Part 763 Subpart E  
 NIOSH 7402 Issue 2  
 EPA Level II

**PLM - Bulk**

EPA 600/R-93/116  
 NY Stratified Point Count  
 California Air Resource Board (CARB) 435  
 NIOSH 9002  
 PLM NOB (Gravimetric) NYS 198.1  
 EPA Point Count (400 Points)  
 EPA Point Count (1,000 Points)  
 Standard Addition Point Count

**SOILS**

EPA Protocol Qualitative  
 EPA Protocol Quantitative  
 EMSL MSD 9000 Method fibers/gram  
 Superfund EPA 540-R097-028 (dust generation)

**TEM BULK**

Drop Mount (Qualitative)  
 Chatfield SOP-1988-02  
 TEM NOB (Gravimetric) NY 198.4

**TEM MICROVAC**

ASTM D 5755-95 (Quantitative)

**TEM WIPE**

ASTM D-6480-99  
 Qualitative

**TEM WATER**

EPA 100.1  
 EPA 100.2  
 NYS 198.2  
 Other:

**LEAD ANALYSIS**

**Flame Atomic Absorption**

Wipe, SW846-7420  ASTM  non ASTM  
 Soil, SW846-7420  
 Air, NIOSH 7082  
 Chips, SW846-7420 or AOAC 5.009 (974.02)  
 Wastewater, SW 846-7420  
 TCLP LEAD SW846-1311/7420

**Graphite Furnace Atomic Absorption**

Air, NIOSH 7105  
 Wastewater, SW846-7421  
 Soil, SW846-7421  
 Drinking Water, EPA 239.2

**ICP - Inductively Coupled Plasma**

Wipe, SW846-6010  ASTM  non ASTM  
 Soil, SW846-6010  
 Air, NIOSH 7300

**MATERIALS ANALYSIS**

Full Particle Identification  
 Optical Particle Identification  
 Dust Mites and Insect Fragments  
 Particle Size & Distribution  
 Product Comparison  
 Paint Characterization  
 Failure Analysis  
 Corrosion Analysis  
 Glove Box Containment Study  
 Petrographic Examination of Concrete  
 Portland Cement in Workplace Atmospheres (OSHA ID-143)  
 Man Made Vitreous Fibers - MMVF's  
 Synthetic Fiber Identification  
 Other:

**MICROBIAL ANALYSIS**

**Air Samples**

Mold & Fungi by Air O Cell  
 Mold & Fungi by Agar Plate count & Id  
 Bacterial Count and Gram Stain  
 Bacterial Count and Identification

**Water Samples**

Total Coliforms, Fecal Coliforms  
 Escherichia Coli, Fecal Streptococcus  
 Legionella  
 Salmonella  
 Giardia and Cryptosporidium

**Wipe and Bulk Samples**

Mold & Fungi - Direct Examination  
 Mold & Fungi - (Culture follow up to direct examination if necessary)  
 Mold & Fungi - Culture (Count & ID)  
 Mold & Fungi - Culture (Count only)  
 Bacterial Count & Gram Stain  
 Bacterial Count & Identification (3 most prominent types)  
 Other:

**IAQ ANALYSIS**

Nuisance Dust (NIOSH 0500 & 0600)  
 Airborne Dust (PM10, TSP)  
 Silica Analysis by XRD  Niosh 7500  
 HVAC Efficiency  
 Carbon Black  
 Airborne Oil Mist  
 Other:

Additional Information/Comments/Instructions: **\*\*PLEASE STOP ON 1<sup>ST</sup> POSITIVE WITHIN SETS**

Client Sample # (S)			TOTAL SAMPLE #
5/28 KL 11	5/28 KL 20		10
Relinquished:	<i>[Signature]</i>	Date: 5/28/14	Time: PM
Received:	<i>[Signature]</i>	Date: 5/28/14	Time: PM
Relinquished:	<i>[Signature]</i>	Date: 5/29/14	Time: AM
Received:	<i>[Signature]</i>	Date: 5/30/14	Time: 9:25 AM



**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018  
 Phone/Fax: (212) 290-0051 / (212) 290-0058  
<http://www.EMSL.com> [manhattanlab@emsl.com](mailto:manhattanlab@emsl.com)

EMSL Order: 031420580  
 CustomerID: EEVM50  
 CustomerPO:  
 ProjectID:

Attn: **Eagle Environmental, Inc. - CT**  
**8 South Main Street**  
**Suite 3**  
**Terryville, CT 06786**

Phone: (860) 589-8257  
 Fax: (860) 585-7034  
 Received: 05/30/14 9:55 AM  
 Collected: 5/28/2014

Project: 14-028.12T11/ CAPITAL STUDIO ARCHITECTS -ENVIRONMENTAL REVIEW/ 64 HACKLEY STREET, BRIDGEPORT/ CT

### Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)\*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
5/28 KL 11 Site: FLOOR AT ENTRY Desc: VESTIBULE	0001	5/28/2014	5/30/2014	144 in <sup>2</sup>	40 µg/ft <sup>2</sup>
5/28 KL 12 Site: FLOOR AT ENTRY Desc: FOYER	0002	5/28/2014	5/30/2014	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
5/28 KL 13 Site: WINDOW SILL Desc: FOYER	0003	5/28/2014	5/30/2014	67.5 in <sup>2</sup>	64 µg/ft <sup>2</sup>
5/28 KL 14 Site: WINDOW SILL Desc: KITCHEN	0004	5/28/2014	5/30/2014	72.5 in <sup>2</sup>	320 µg/ft <sup>2</sup>
5/28 KL 15 Site: FLOOR AT ENTRY Desc: LIVING RM	0005	5/28/2014	5/30/2014	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
5/28 KL 16 Site: WINDOW WELL Desc: LIVING RM	0006	5/28/2014	5/30/2014	102 in <sup>2</sup>	70 µg/ft <sup>2</sup>
5/28 KL 17 Site: FLOOR AT ENTRY Desc: BEDROOM 3	0007	5/28/2014	5/30/2014	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
5/28 KL 18 Site: WINDOW SILL Desc: BEDROOM 3	0008	5/28/2014	5/30/2014	119 in <sup>2</sup>	<12 µg/ft <sup>2</sup>
5/28 KL 19 Site: FIELD BLANK	0009	5/28/2014	5/30/2014	n/a	<10 µg/wipe
5/28 KL 20 Site: FIELD BLANK	0010	5/28/2014	5/30/2014	n/a	<10 µg/wipe

*M. Apfeldorfer*

Miron Apfeldorfer, Laboratory Manager  
 or other approved signatory

Reporting limit is 10 µg/wipe. The QC data associated with these sample results included in this report meet the method quality control requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities.

\* slight modifications to methods applied Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted  
 Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--ELLAP Accredited #102581, NYS ELAP 11508

Initial report from 05/30/2014 14:42:53

031420572



<b>EMSL – MA</b> 7 Constitution Way, Ste 107 Woburn, MA 01801 (781) 933-8411 (781) 933-8412 Fax	<b>EMSL – CT</b> 29 N. Plains Hwy, Unit 4 Wallingford, CT 06492 (203) 284-5948 (203) 284-5978 Fax	<b>EMSL – NY</b> 307 West 38 <sup>th</sup> Street New York, NY 10018 (866) 448-3675 (212) 290-0058 Fax	<b>EMSL – NJ</b> 107 Haddon Avenue Westmont, NJ 08108 (800) 220-3675 (856) 858-4960 Fax
-------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------

**Your Name:** Brandy LeBlanc **Project Manager:** PF

**Company:** Eagle Environmental, Inc.

**Street:** 8 South Main Street, Suite 3

**City/State/Zip:** Terryville, CT 06786

**Phone:** 860-589-8257 ext. 203 **Fax:** 860-585-7034 **Email:** bleblanc@eagleenviro.com; nporter@eagleenviro.com; dwynne@eagleenviro.com; rsioch@eagleenviro.com

**Project Name:** Capital Studio Architects - Environmental Review **Project #:** 14-028.12T11

**Project Location:** 64 Hackley Street, Bridgeport **Project State (US):** CT

**TURNAROUND TIME**

3 Hours  
  6 Hours  
  24 Hours  
  48 Hours  
  72 Hours  
  4 Days  
  5 Days  
  6-10 Days

**SAMPLE MATRIX**

Air  
  Bulk  
  Soil  
  Wipe  
  Micro-Vac  
  Drinking Water  
  Wastewater  
  Chips  
  Other

**ASBESTOS ANALYSIS**

**PCM - Air**

NIOSH 7400 (A) Issue 2: August 1994

OSHA w/TWA

**TEM AIR**

AHERA 40 CFR, Part 763 Subpart E

NIOSH 7402 Issue 2

EPA Level II

**PLM - Bulk**

EPA 600/R-93/116

NY Stratified Point Count

California Air Resource Board (CARB) 435

NIOSH 9002

PLM NOB (Gravimetric) NYS 198.1

EPA Point Count (400 Points)

EPA Point Count (1,000 Points)

Standard Addition Point Count

**SOILS**

EPA Protocol Qualitative

EPA Protocol Quantitative

EMSL MSD 9000 Method fibers/gram

Superfund EPA 540-R097-028 (dust generation)

**TEM BULK**

Drop Mount (Qualitative)

Chatfield SOP-1988-02

TEM NOB (Gravimetric) NY 198.4

**TEM MICROVAC**

ASTM D 5755-95 (Quantitative)

**TEM WIPE**

ASTM D-6480-99

Qualitative

**TEM WATER**

EPA 100.1

EPA 100.2

NYS 198.2

Other: \_\_\_\_\_

**LEAD ANALYSIS**

**Flame Atomic Absorption**

Wipe, SW846-7420  ASTM  non ASTM

Soil, SW846-7420

Air, NIOSH 7082

Chips, SW846-7420 or AOAC 5.009 (974.02)

Wastewater, SW 846-7420

TCLP LEAD SW846-1311/7420

**Graphite Furnace Atomic Absorption**

Air, NIOSH 7105

Wastewater, SW846-7421

Soil, SW846-7421

Drinking Water, EPA 239.2

**ICP - Inductively Coupled Plasma**

Wipe, SW846-6010  ASTM  non ASTM

Soil, SW846-6010

Air, NIOSH 7300

**MATERIALS ANALYSIS**

Full Particle Identification

Optical Particle Identification

Dust Mites and Insect Fragments

Particle Size & Distribution

Product Comparison

Paint Characterization

Failure Analysis

Corrosion Analysis

Glove Box Containment Study

Petrographic Examination of Concrete

Portland Cement in Workplace Atmospheres (OSHA ID-143)

Man Made Vitrous Fibers - MMVF's

Synthetic Fiber Identification

Other: \_\_\_\_\_

**MICROBIAL ANALYSIS**

**Air Samples**

Mold & Fungi by Air O Cell

Mold & Fungi by Agar Plate count & id

Bacterial Count and Gram Stain

Bacterial Count and Identification

**Water Samples**

Total Coliforms, Fecal Coliforms

Escherichia Coli, Fecal Streptococcus

Legionella

Salmonella

Giardia and Cryptosporidium

**Wipe and Bulk Samples**

Mold & Fungi - Direct Examination

Mold & Fungi - (Culture follow up to direct examination if necessary)

Mold & Fungi - Culture (Count & ID)

Mold & Fungi - Culture (Count only)

Bacterial Count & Gram Stain

Bacterial Count & Identification (3 most prominent types)

Other: \_\_\_\_\_

**IAQ ANALYSIS**

Nuisance Dust (NIOSH 0500 & 0600)

Airborne Dust (PM10, TSP)

Silica Analysis by XRD  NIOSH 7500

HVAC Efficiency

Carbon Black

Airborne Oil Mist

Other: \_\_\_\_\_

Additional Information/Comments/Instructions: **\*\*PLEASE STOP ON 1ST POSITIVE WITHIN SETS**

Client Sample # (S)	5/28 KL SOIL 01	TOTAL SAMPLE #	1
Relinquished:	<i>[Signature]</i>	Date:	5/28/14
Received:	<i>[Signature]</i>	Date:	5/28/14
Relinquished:	<i>[Signature]</i>	Date:	5/28/14
Received:	<i>[Signature]</i>	Date:	5/30/14
		Time:	PM
		Time:	PM
		Time:	PM
		Time:	9:51 AM

S - 7900 0579 3290





**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018  
Phone/Fax: (212) 290-0051 / (212) 290-0058  
<http://www.EMSL.com> [manhattanlab@emsl.com](mailto:manhattanlab@emsl.com)

EMSL Order: 031420572  
CustomerID: EEVM50  
CustomerPO:  
ProjectID:

Attn: **Eagle Environmental, Inc. - CT**  
**8 South Main Street**  
**Suite 3**  
**Terryville, CT 06786**

Phone: (860) 589-8257  
Fax: (860) 585-7034  
Received: 05/30/14 9:51 AM  
Collected: 5/28/2014

Project: 14-028.12T11/ CAPITAL STUDIO ARCHITECTS - ENVIRONMENTAL REVIEW/ 64 HACKLEY STREET, BRIDGEPORT/ CT

**Test Report: Lead in Soils by Flame AAS (SW 846 3050B/7000B)\***

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
5/28 KL SOIL 01	0001	5/28/2014	5/30/2014	560 mg/Kg
Site: VEGETABLE GARDEN/ C/D SIDE				

*M. Apfeldorfer*

Miron Apfeldorfer, Laboratory Manager  
or other approved signatory

\*Analysis following Lead in Soil/Solids by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 40 mg/kg based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. Results reported based on dry weight. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise  
Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC-ELLAP Accredited #102581, NYS ELAP 11506

Initial report from 05/31/2014 01:34:36

**APPENDIX 6**  
**RADON TESTING REPORTS**

**Radon testing not performed. Structure will be elevated with lowest level of building not in contact with the ground.**

**APPENDIX 7**  
**MOLD INSPECTION FORMS**



**MOLD OBSERVATION FORM**

Eagle Project No: 14-028.12T11 Date: 4/24/14 Inspector: Eltwain Lawrence

Facility Address: 64 Huckley Street, Bridgeport, CT

Location	Observation	Sample Number
Basement	No visible mold or spores of mold was observed; No odor or smell of mold noted	

**APPENDIX 8**

**ABATEMENT AND CONSULTING COST ESTIMATE**

**HAZARDOUS MATERIALS ABATEMENT COST ESTIMATES**

**APPLICATION NO.1326**

**64 HACKLEY STREET**

**BRIDGEPORT, CONNECTICUT**

**ASBESTOS ABATEMENT COST ESTIMATE**

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
ASBESTOS PIPE/FITTING INSULATION REMOVAL	1	\$ 2,300.00 EACH	\$ 2,300.00
DAMP PROOFING ALLOWANCE	1	\$ 1,000.00 EACH	\$ 1,000.00
SUBTOTAL			\$ 3,300.00
ASBESTOS ABATEMENT CONTINGENCY			\$ 330.00
ASBESTOS TOTAL			\$ 3,630.00

**LEAD BASED PAINT COST ESTIMATE**

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
LEAD-BASED PAINT CONTINGENCY	1	\$ 17,650.00 EACH	\$ 17,650.00
SUBTOTAL			\$ 17,650.00
LEAD RENOVATION CONTINGENCY			\$ 3,530.00
LEAD RENOVATION TOTAL			\$ 21,180.00

**HAZARDOUS MATERIALS ABATEMENT SUBTOTAL \$ 24,810.00**

**HAZARDOUS MATERIALS CONSULTING COST ESTIMATE**

CONSULTING COST	QUANTITY	UNIT COST	TOTAL COST
HAZARDOUS MATERIALS CONSULTING CONTIN.	1	\$2,500.00 EACH	\$ 2,500.00
SUBTOTAL			\$ 2,500.00
CONSULTING CONTINGENCY			\$ 250.00
CONSULTING TOTAL			\$ 2,750.00

**GRAND TOTAL \$ 27,560.00**

**APPENDIX 9**  
**EAGLE ENVIRONMENTAL, INC. LICENSES**  
**AND LABORATORY CERTIFICATES**

# Certificate of Training

Awarded to

**ANDREW CARNEVALE**

For successful completion of a 4 Hour, 1/2 Day  
**Asbestos Building Inspector  
Annual Refresher Training**  
January 2, 2014

This training was approved and given in accordance with the  
Regulations for Connecticut State Agencies  
RCSA 20-440-1-9 and RCSA 20-441 and meets the  
requirements of the EPA Revised MAP under TSCA Title II of 4/4/94.

Presented by

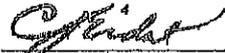
**Mystic Air Quality Consultants, Inc.**

1204 North Road, Groton, CT 06340 (800) 247-7746

Certificate Number: ABIRF22726

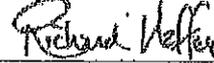
Exam Grade: 100

Expiration Date: 01/02/2015



Christopher J. Eident, CIH, CSP, RS

Exam Date: 01/02/2014



George Williamson, Training Director

Richard Haffey, Training Director

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  
ASBESTOS CONSULTANT INSPECTOR

ANDREW C. CARNEVALE

LICENSE NO.  
000850  
CURRENT THROUGH  
10/31/14  
VALIDATION NO.  
03-702940

  
SIGNATURE

  
COMMISSIONER

CERT# L-500 -160

**CHEMSCOPE TRAINING DIVISION**

**LEAD INSPECTOR REFRESHER**

**8 HOUR TRAINING CERTIFICATE**

**Eltwaun D. Lawrence**

**631 North Main Street, Bristol CT**

Has attended an 8 hour course on the subject discipline on  
06/20/2013 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 syllabus includes all required topics of State of Connecticut DPH and EPA.

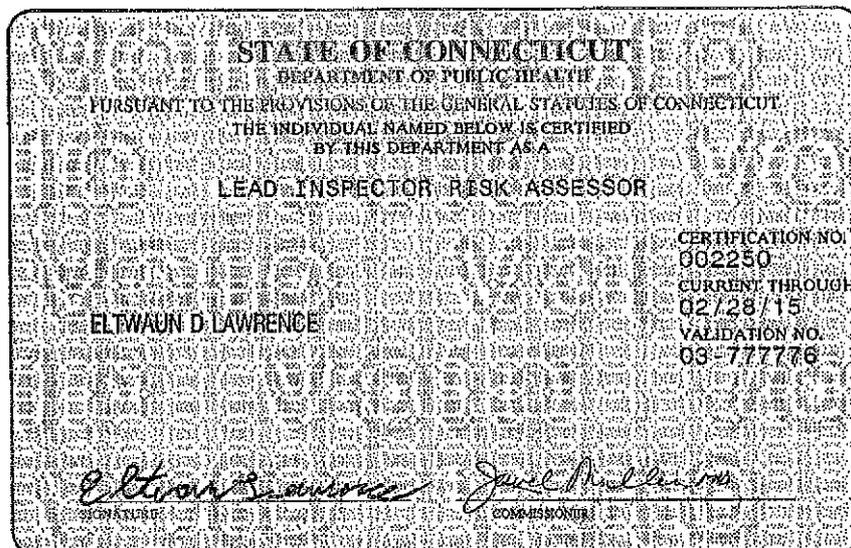
**Examination Date: 06/20/2013**

**Expiration Date: 06/20/2014**

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (U.S.C. 1001 and 16 U.S.C. 2616), 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.

  
Ronald D. Arena or Scott Arena  
Training Director Training Manager

Chem Scope, Inc.  
15 Moulthrop Street  
North Haven CT 06473  
(203) 888-6608



# ENVIRONMENTAL TRAINING AND ASSESSMENT

## Certificate of Completion Lead Inspector/Risk Assessor — Refresher

Awarded To

**Kristen Liljehult**  
269 Baileyville Road  
Middlefield, CT 06455

Has successfully completed, and passed an examination covering the contents of a EPA Model Eight (8) Hour Refresher Training Course for Lead Inspector/Risk Assessor and in accordance with the Department of Public Health Standards established pursuant to Section 20-477 of the Connecticut General Statutes. Approved under the New Standard and 40 CFR 745.225(c)(8)(i).

Course Date: 1/2/2014  
Examination Date: 1/2/2014

Examination Grade: 88%  
Certificate Number: LI/RAR-00350  
Expiration Date: 1/2/2015

*Stephen Craig*

Stephen J. Craig, Training Manager

Boston Lead Company, LLC  
dba  
Environmental Training and Assessment  
62 Washington Street  
Middletown, CT 06457  
860-347-7277

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

KRISTEN P. LILJEHULT

CERTIFICATION NO.  
002206

CURRENT THROUGH  
12/31/14

VALIDATION NO.  
03-715183

*James J. Miller*  
COMMISSIONER

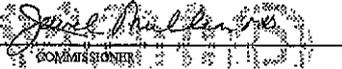
STATE OF CONNECTICUT  
DEPARTMENT OF PUBLIC HEALTH

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  
04/30/15  
VALIDATION NO.  
08-794089

  
SIGNATURE

  
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 DETERMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT

**EMSL ANALYTICAL, INC. - MANHATTAN, NY**

LOCATED AT 307 West 33rd Street IN New York NY 10018

AND REGISTERED IN THE NAME OF Peter Fiasca, Ph.D.

THIS CERTIFICATE IS ISSUED IN THE NAME OF James Hall 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:

ASBESTOS

Examination For:

Bulk - Identification (PDM, TEM)  
Air - Fiber Counting (PCM, TEM)  
Water - TEM

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

Environmental Health & Hoising

Examination For:

Lead in Paint  
Lead Paint in Soil  
Lead in Dust Wipes

THIS CERTIFICATE EXPIRES September 30, 2014 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH DATED AT HARTFORD, CONNECTICUT, THIS 4<sup>th</sup> DAY OF October, 2012



Registration No.

PH-0170

**SUZANNE BLANCAFLOR, MS**  
CHIEF, ENVIRONMENTAL HEALTH SECTION