



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



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

May 27, 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**  
**167 Pleasant View Road, Derby**  
**Application #2028**  
**Eagle Project No. 14-020.12T8**

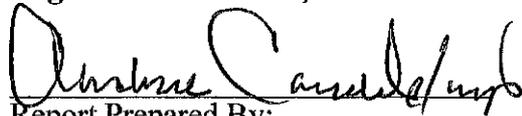
Dear Mr. Holmes:

Please find the attached Environmental Assessment Report conducted at 167 Pleasant View Road located in Derby, 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 lead hazard screen, which included the interior and exterior the entire building. The proposed scope of renovation/repair work was provided to Eagle Environmental, Inc. (Eagle) by Capital Studio Architects (CSA).

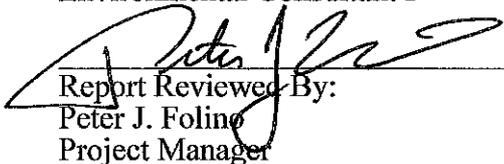
This assessment and report is intended to satisfy the review process of the National Environmental Policy Act (NEPA) Statutory Checklist Sections 13C (Lead-Based Paint), 13D (Asbestos), 13E (Radon) and 13F (Mold).

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

Sincerely,  
**Eagle Environmental, Inc.**

  
Report Prepared By:

Andrew Carnevale  
Environmental Consultant I

  
Report Reviewed By:  
Peter J. Folino  
Project Manager

\\Eaglesvr\public\2014 Files\2014 Reports\Capital Studio Architects\Hurricane Sandy\167 Pleasant View Rd - Derby\167 Pleasant View Rd.- HAZ Inspection Report.doc

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## **1. INTRODUCTION**

On April 18, 2014, Eagle Environmental, Inc. conducted an environmental assessment of portions of the site building located at 167 Pleasant View Road in Derby, Connecticut. The scope of the environmental assessment included an inspection for asbestos-containing materials, a lead-based paint screen, Radon testing 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 March 26, 2014. For the purpose of this project the following areas were inspected:

- Basement
- Basement Bathroom

## **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 bolded text indicates the requirements applicable to this project based on the anticipated level of funding. 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. **Provide notice to residents of lead evaluation within 15 days of assessment.**
  - c. **Lead safe work practices are to be utilized during rehabilitation work that will disturb lead-based painted surfaces.**
  - d. **Perform interim controls on all lead hazards identified during the lead hazard screen.**
  - e. **Perform clearance testing following interim control work and renovations.**
  - f. **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. Provide notice to residents of lead evaluation to within 15 days of assessment.
  - d. 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.
  - e. Lead safe work practices are to be utilized during rehabilitation work that will disturb painted surfaces.

- f. Perform clearance testing following abatement work.
- g. Provide notice of lead-hazard reduction within 15 days of completion of work.

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.

The lead hazard screen was performed by Kristen Liljehult, a State of Connecticut licensed Lead Inspector/Risk Assessor (license 002206).

### **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.

One (1) Radon canister was placed for Radon measurement in the basement of the building.

### **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, towed 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 property located at 167 Pleasant View Road, Derby, 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 property at 167 Pleasant View Road, Derby, Connecticut.

## **3.2 Lead-based Paint**

The lead hazard screen was performed utilizing an X-Ray Fluorescence (XRF) Radiation Monitoring Device (RMD) Lead Paint Analyzer (LPA 1), serial number 2753. Eagle did not presume lead-based paint to be present but tested where defective paint was visually identified.

Due to the level of proposed Federal Funding for this project (between \$5,000.00 and \$25,000 per unit), a lead-hazard screen was performed, which 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 were collected at the time of inspection if defective lead-based paint was identified. The exterior grounds were evaluated as well for bare areas of soil. Soil sampling was performed where bare soil areas were identified. The dust and soil hazards are incorporated into the Lead-Based Paint Hazard Reduction Plan, as required.

### **3.3 Radon Testing**

Eagle Environmental placed one (1) radon canister within the building. The canister was placed by Kristen Liljehult on May 16, 2014 and was retrieved by Eric Foley on May 19, 2014. The canister was placed within the basement or lowest level of the building. The United States Environmental Protection Agency (USEPA) recommends that the test measurements be performed in the lowest level of the building.

The radon testing device utilized for the radon measurements is an Activated Charcoal Adsorption Devices or charcoal canister. The canister is placed in the center of the room where feasible. The testing location was away from any drafts or excessive air movements and windows and doors remained closed during the testing period. The measurements that are taken are considered short-term tests. A short-term test is conducted from two to nine days.

The charcoal canister was sent to Radon Testing Corporation of America (RTCA) of Elmsford, New York for analysis. RTCA is listed in the USEPA Radon Measurement Proficiency (RMP) Program.

### **3.4 Mold Inspection**

Eagle Environmental, Inc. performed a visual inspection within the limits of the inspection area for potential microbial growth. The basement and basement bathroom were flooded by approximately 6 inches of water during the storm event and were the focus of this investigation. 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.

## **4. INSPECTION RESULTS**

### **4.1 Asbestos Containing Materials**

During the course of the building inspection eleven (11) bulk samples of suspect ACM were collected and analyzed by PLM Method. Based upon the results of the analyses the materials that were sampled were confirmed to be Non-ACM. No further action is required for asbestos-containing materials.

The summaries of non-asbestos materials are presented in Table II. The asbestos analysis laboratory reports are provided in Appendix 2.

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

## **4.2 Lead-based Paint**

A total of fifty-four (54) XRF readings were collected during the lead-based paint hazard screen of the building. None of the samples were found to contain high levels of lead.

A complete inventory of tested building materials is presented in Detailed Reports contained Appendix 3.

No further action is required regarding lead-based paint. Contractors contemplating work on this project must still comply with the U.S. Department of Labor Occupation Safety and Health Administration (OSHA) 29 CFR 1926.62 Lead Exposure in Construction; Interim Final Rule.

### **4.2.1 Lead Dust Hazards**

A total of eight (8) lead dust wipe samples and two (2) blanks were collected. The results of the dust wipe sampling confirmed that lead dust hazards were not present at the sampled locations. No further action is recommended.

## **4.3 Radon**

Radon is measured in Picocuries of radon per Liter of air or pCi/L. The USEPA has set a national action level of 4 pCi/L. Ambient concentrations of radon are approximately 0.4 pCi/L of radon for outside air. The USEPA recommends that short term tests that have results of 4 pCi/L or greater be confirmed with a second short-term test. Two short-term tests with results equal to or greater than 4 pCi/L require that radon mitigation be performed.

A review of the Indoor Radon Potential Map of Connecticut indicates a Radon Potential Rating of Moderate (22%). The Radon Potential Rating indicates the percentage of tested homes in this geographical area with basement air radon greater than or equal to 4.0 pCi/l (USEPA Action Level for Radon)

The result of the Radon testing was 0.9 pCi/L, which is below the USEPA action level. No further action is required.

## **4.4 Mold**

The physical inspection noted water and microbially impacted building materials within the basement areas. Site sources indicated that the water was approximately six (6) inches deep in the basement during the storm event. This would have brought the water level over the bottom wall plate and up the finished walls, which are finished with gypsum wall board on wood studs or wood furring strips. The wall board shows signs of water staining and deterioration. The water appears to have wicked up the wall at least twelve (12) inches.

The underlying wood studs and furring strips are likely holding high levels of moisture and will require replacement, or drying at a minimum. The pre-hung wood doors also show signs of impact from water and should be replaced.

Microbial growth was observed in the bathroom above the baseboard on the gypsum wall board as well as on the gypsum wall board and wood baseboards in other finished areas of the basement.

Microbial growth may be present on the back side of the gypsum wall board, which was generally not accessible for observation. The gypsum wall board is recommended to be removed in its entirety from the walls in order to allow for drying and or replacement of the wood studs and framing.

The ceramic tile in the bathroom is recommended for replacement. Localized areas of the grout are showing signs of deterioration and the tiles appear visually impacted. It is likely that water has impacted the slab below the tiles, which may result in future microbial growth.

The ceiling did not show signs of water or microbial impact at the time of the inspection and a pre-cautionary surface decontamination is recommended but not a full scale replacement of the ceiling.

Observations and data obtained during the site visits represent conditions during that time span only. Moisture content, fungal ecology, moisture content of building materials, and psychometric variables are intrinsically dynamic and can vary dramatically and impact the scope of work.

The mold visual inspection forms are provided in Appendix 5.

## **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 6.

**TABLE I**

**ASBESTOS CONTAINING MATERIALS SUMMARY TABLE**

TABLE I  
 ASBESTOS CONTAINING MATERIALS  
 SUMMARY TABLE  
 167 PLEASANT VIEW ROAD  
 DERBY, CONNECTICUT

LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			ESTIMATED QUANTITY	F/NF
				PLM	PLM/PC	TEM NOB/ACM		
<b>NO ACM IDENTIFIED IN THIS SCOPE OF WORK</b>								
<b>KEY</b>								
DNA = DID NOT ANALYZE		SF = SQUARE FEET		<b>ANALYTICAL METHODS</b>				
NAD = NO ASBESTOS DETECTED		LF = LINEAR FEET		PLM/PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT				
F = FRIABLE		Chrys = Chrysotile		TEM NOB = NEW YORK ELAP 198.4 METHOD				
NF = NON-FRIABLE		Amos = Amosite		PLM = EPA 600/R-93/116				
TSI = THERMAL SYSTEMS INSULATION		Anth = Anthophyllite		PS = Previously Sampled				
SURF = SURFACING MATERIAL		Trem = Tremolite		EA = Each				
MISC = MISCELLANEOUS MATERIAL		Croc = Crocidolite						
<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**  
**167 PLEASANT VIEW ROAD**  
**DERBY, CONNECTICUT**

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM/PC	TEM NOB	ACM
Basement	Textured wall paint	4-18-AC-21	SURF	NAD			NO
		4-18-AC-22		NAD			
		4-18-AC-23		NAD			
Basement	Acoustic Fiberboard ceiling tile	4-18-AC-24	MISC	NAD			NO
		4-18-AC-25		NAD			
Bathroom, Basement	Sheetrock	4-18-AC-26	MISC	NAD			NO
		4-18-AC-27		NAD			
Bathroom	Joint compound	4-18-AC-28	MISC	NAD			NO
		4-18-AC-29		NAD			
Bathroom	Sheetrock/joint compound composite	4-18-AC-30	MISC	NAD			NO
		4-18-AC-31		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

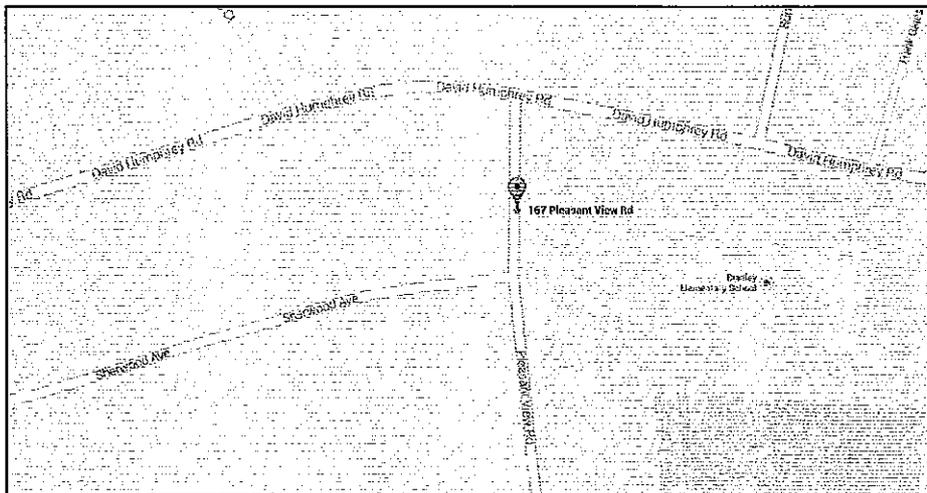
14-028.12T8

167 PLEASANT VIEW ROAD  
DERBY, CONNECTICUT

## INDEX OF DRAWINGS

SP-1 SITE PLAN  
FP-1 BASEMENT PLAN  
FP-2 FIRST FLOOR PLAN

## LOCATION MAP



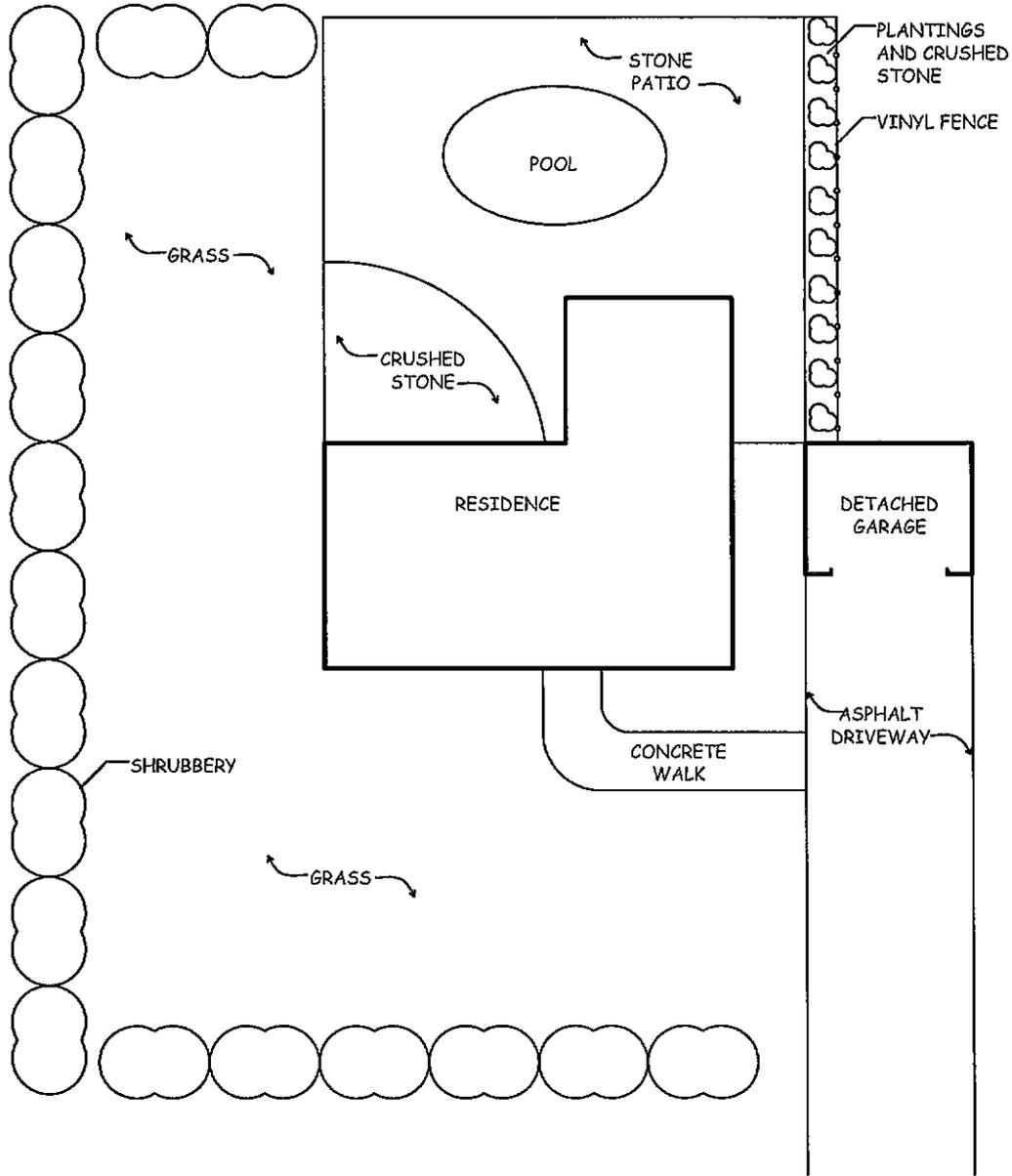
MAY 7, 2014



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

# SITE PLAN

SIDE-C



SIDE-B

SIDE-D

SIDE-A (STREET SIDE)

NOT TO SCALE



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Environmental, Inc.

DATE: 05/07/14  
PROJECT NO.: 14-028.12T8  
DRAWN BY: VB  
REVIEWED BY: AH

LEAD-BASED PAINT RISK ASSESSMENT  
167 PLEASANT VIEW ROAD  
DERBY, CONNECTICUT  
SITE PLAN

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

SHEET NO.

**SP-1**

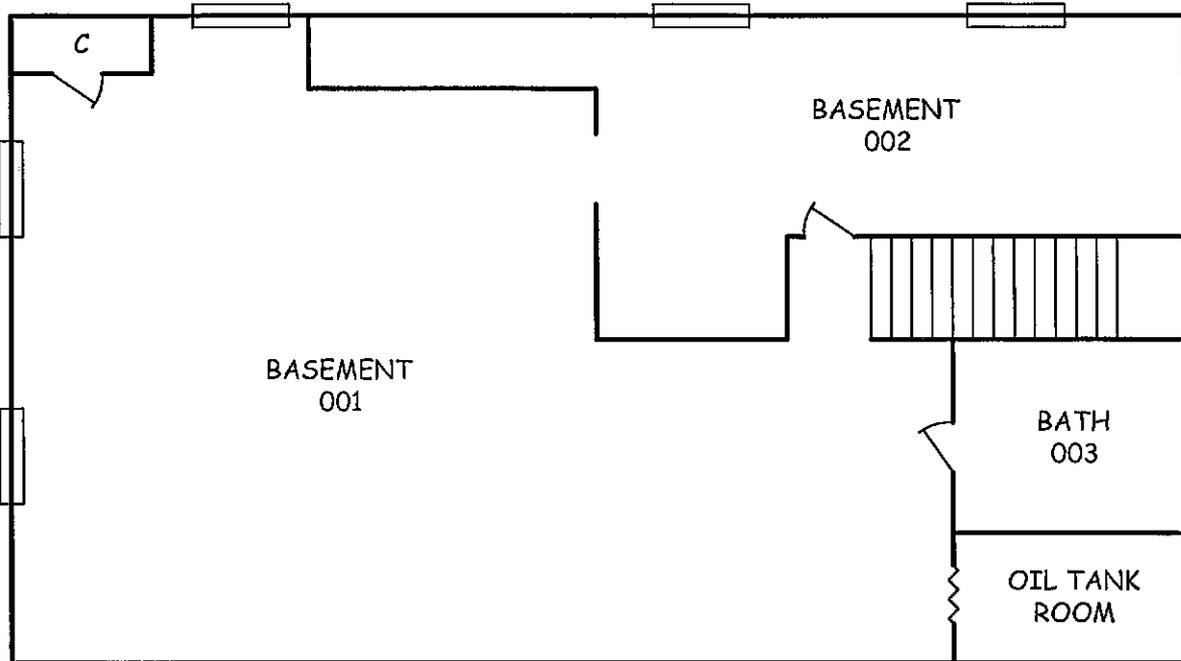
SHEET 1 OF 3

# BASEMENT PLAN

SIDE-C

SIDE-B

SIDE-D



SIDE-A (STREET SIDE)

NOT TO SCALE



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

SHEET NO.

**FP-1**

SHEET 2 OF 3

DATE: 05/07/14  
PROJECT NO.: 14-028.12T8  
DRAWN BY: VB  
REVIEWED BY: AH

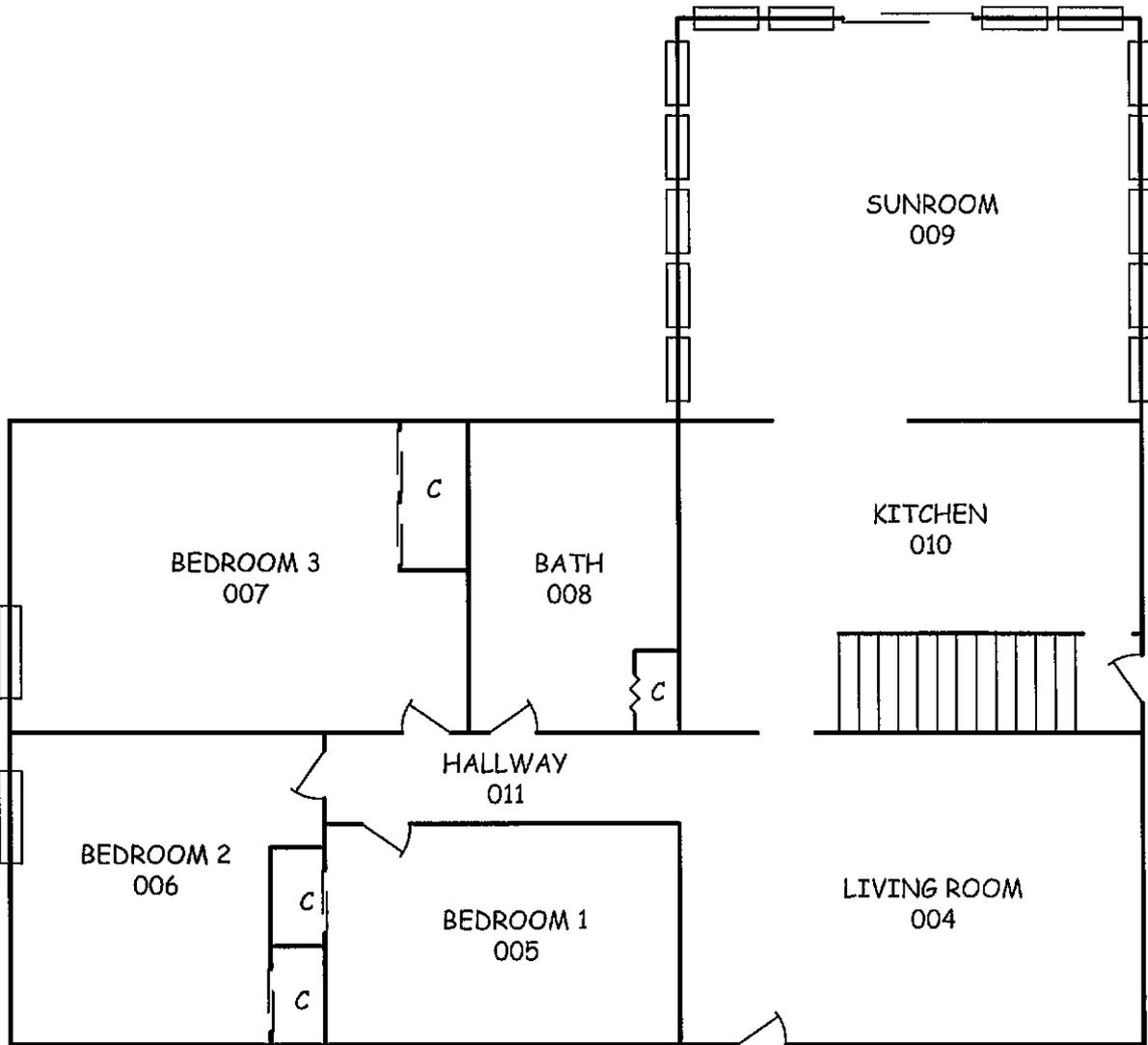
**LEAD-BASED PAINT RISK ASSESSMENT**  
167 PLEASANT VIEW ROAD  
DERBY, CONNECTICUT  
**BASEMENT PLAN**

# FIRST FLOOR PLAN

SIDE-C

SIDE-B

SIDE-D



C = CLOSET EVALUATED WITH ADJACENT ROOM

SIDE-A (STREET SIDE)

NOT TO SCALE



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

SHEET NO.

**FP-2**

SHEET 3 OF 3

**LEAD-BASED PAINT RISK ASSESSMENT**  
167 PLEASANT VIEW ROAD  
DERBY, CONNECTICUT  
FIRST FLOOR PLAN

DATE: 05/07/14  
PROJECT NO.: 14-028.12T8  
DRAWN BY: VB  
REVIEWED BY: AH

**APPENDIX 2**

**ASBESTOS BULK SAMPLE LABORATORY REPORTS**



**EMSL - MA**  
 7 Constitution Way, Ste 107  
 Woburn, MA 01801  
 (781) 933-8411  
 (781) 933-8412 Fax

**EMSL - CT**  
 29 N. Plains Hwy, Unit 4  
 Wallingford, CT 06492  
 (203) 284-5948  
 (203) 284-5978 Fax

**EMSL - NY**  
 307 West 38<sup>th</sup> Street  
 New York, NY 10018  
 (866) 448-3675  
 (212) 290-0058 Fax

**EMSL - NJ**  
 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; dwynee@eagleenviro.com; rsioch@eagleenviro.com

**Project Name:** CSA Super Storm Sandy Project **Project #:** 14-020.12T10

**Project Location:** 167 PLEasant VIEW, DERBY **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-1998-02  
 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  
 TOLP 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, SW846-8010  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)	4-18-AC-21	4-18-AC-31	TOTAL SAMPLE #	11
Relinquished:	ANDREW CARNEVALE	<i>Andrew Carnevale</i>	Date: 4-18-2014	Time: PM
Received:	NANCY PORTER	<i>Nancy Porter</i>	Date: 4-18-2014	Time: PM
Relinquished:	NANCY PORTER	<i>Nancy Porter</i>	Date: 4-18-2014	Time: PM
Received:	<i>[Signature]</i>	<i>[Signature]</i>	Date: 4/19	Time: 10:40am

031414969



**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: 031414969  
 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: 04/19/14 10:40 AM  
 Analysis Date: 4/20/2014  
 Collected: 4/18/2014

Project: 14-020.12T10/ CSA SUPER STORM SANDY PROJECT/ 167 PLEASANT VIEW DERBY

### 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
4-18-AC-21 031414969-0001	TEXTURED WALL PAINT - BASEMENT	Gray/White Non-Fibrous Heterogeneous		25% Quartz 40% Ca Carbonate 35% Non-fibrous (other)	None Detected
4-18-AC-22 031414969-0002	TEXTURED WALL PAINT - BASEMENT	Gray/White Non-Fibrous Heterogeneous		35% Quartz 22% Ca Carbonate 43% Non-fibrous (other)	None Detected
4-18-AC-23 031414969-0003	TEXTURED WALL PAINT - BASEMENT	White Non-Fibrous Homogeneous		10% Quartz 40% Ca Carbonate 50% Non-fibrous (other)	None Detected
4-18-AC-24 031414969-0004	ACOUSTIC FIBERBOARD CEILINT TILE - BASEMENT	Brown/White Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
4-18-AC-25 031414969-0005	ACOUSTIC FIBERBOARD CEILINT TILE - BASEMENT	Brown/White Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (other)	None Detected
4-18-AC-26 031414969-0006	SHEETROCK - BASEMENT	Brown/White Non-Fibrous Homogeneous	15% Cellulose	52% Gypsum 33% Non-fibrous (other)	None Detected
4-18-AC-27 031414969-0007	SHEETROCK - BASEMENT	White Non-Fibrous Homogeneous	5% Cellulose	40% Gypsum 55% Non-fibrous (other)	None Detected

**Analyst(s)**

Jessica Cox (5)

Jon Williams (6)

James Hall, Laboratory Manager  
 or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%  
 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 04/20/2014 12:07:01



**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

EMSL Order: 031414969  
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: 04/19/14 10:40 AM  
Analysis Date: 4/20/2014  
Collected: 4/18/2014

Project: 14-020.12T10/ CSA SUPER STORM SANDY PROJECT/ 167 PLEASANT VIEW DERBY

**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
4-18-AC-28 031414969-0008	JOINT COMPOUND - BASEMENT	White Non-Fibrous Heterogeneous		40% Ca Carbonate 60% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
4-18-AC-29 031414969-0009	JOINT COMPOUND - BASEMENT	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
4-18-AC-30 031414969-0010	SHEETROCK/ JOINT COMPOUND COMPOSITE - BASEMENT	Brown/White Non-Fibrous Heterogeneous	14% Cellulose	38% Gypsum 14% Ca Carbonate 34% Non-fibrous (other)	None Detected
4-18-AC-31 031414969-0011	SHEETROCK/ JOINT COMPOUND COMPOSITE - BASEMENT	Tan/White Fibrous Homogeneous	10% Cellulose	30% Gypsum 20% Ca Carbonate 40% Non-fibrous (other)	None Detected

**Analyst(s)**

Jessica Cox (5)  
Jon Williams (6)

James Hall, Laboratory Manager  
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%  
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 04/20/2014 12:07:01

**APPENDIX 3**

**LEAD-BASED PAINT XRF INSPECTION REPORTS**

# LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#02753 - 05/07/14 10:07

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

PERFORMED AT: 167 Pleasant View Road  
Derby, CT

INSPECTION DATE: 05/07/14

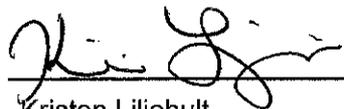
INSTRUMENT TYPE: R M D  
MODEL LPA-1  
XRF TYPE ANALYZER  
Serial Number: 02753

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

OPERATOR LICENSE: 002206

A Lead-Based Paint Risk Assessment was performed for the dwelling.

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



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

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

5/7/14

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

Inspection Date: 05/07/14 167 Pleasant View Road  
Report Date: 5/7/2014 Derby, CT  
Abatement Level: 1.0  
Report No. S#02753 - 05/07/14 10:07  
Total Readings: 33 Actionable: 0  
Job Started: 05/07/14 10:07  
Job Finished: 05/07/14 11:08

---

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

---

Calibration Readings

---

Calibration Readings

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



# LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#02753 - 04/18/14 14:05

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

PERFORMED AT: 168 Pleasant View Road  
Derby, Connecticut  
Basement

INSPECTION DATE: 04/18/14

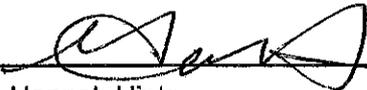
INSTRUMENT TYPE: R M D  
MODEL LPA-1  
XRF TYPE ANALYZER  
Serial Number: 02753

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

OPERATOR LICENSE: 002244

A lead-based paint screen was performed in the  
Basement at 167 Pleasant View Road located in  
Derby, Connecticut

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



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

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

4/18/14

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

Inspection Date: 04/18/14 168 Pleasant View Road  
Report Date: 4/18/2014 Derby, Connecticut  
Abatement Level: 1.0 Basement  
Report No. S#02753 - 04/18/14 14:05  
Total Readings: 21 Actionable: 0  
Job Started: 04/18/14 14:05  
Job Finished: 04/18/14 15:11

---

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

---

Calibration Readings

---

Calibration Readings

---- End of Readings ----

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

Inspection Date: 04/18/14 168 Pleasant View Road  
 Report Date: 4/18/2014 Derby, Connecticut  
 Abatement Level: 1.0 Basement  
 Report No. S#02753 - 04/18/14 14:05  
 Total Readings: 21  
 Job Started: 04/18/14 14:05  
 Job Finished: 04/18/14 15:11

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm <sup>2</sup> )	Mode
Interior Room 001 Basement									
010	-	Floor	Ctr		P	Concrete	Gray	0.0	QM
008	-	Ceiling	Ctr		P	Fiberboard	White	0.0	QM
009	A	Crown Mldg	Ctr		P	Wood	White	0.2	QM
004	A	Wall	Lft		P	Panel	White	-0.4	QM
018	A	Window	Lft	Casing	P	Wood	White	-0.1	QM
014	B	Wall	Lft		P	Concrete	White	0.2	QM
007	B	Wall	Ctr		P	Panel	White	-0.3	QM
015	B	Wall	Ctr		P	Dry wall	White	-0.1	QM
006	C	Wall	Rgt		P	Panel	White	-0.2	QM
016	C	Stairs	Ctr	Stringers	P	Wood	White	-0.2	QM
017	C	Stairs	Ctr	Wall Cap	P	Wood	White	-0.4	QM
005	D	Wall	Lft		P	Panel	White	-0.3	QM
013	D	Wall	Rgt		P	Concrete	White	0.6	QM
011	D	Window	Rgt	Casing	P	Wood	White	-0.2	QM
012	D	Window	Rgt	Stop	P	Wood	White	-0.2	QM

**Calibration Readings**

001	1.0	TC
002	1.0	TC
003	1.0	TC
019	1.1	TC
020	1.0	TC
021	1.0	TC

---- End of Readings ----

**APPENDIX 4**

**LEAD DUST SAMPLE LABORATORY REPORT**



<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; rsloch@eagleenviro.com

**Project Name:** LBP Risk Assessment **Project #:** 14-028.12T8

**Project Location:** 167 Pleasant View Rd, Derby **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 8000 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 5755-05 (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 1ST POSITIVE WITHIN SETS**

Client Sample # (S)	5/7 KL 01	5/7 KL 10	TOTAL SAMPLE #	10
Relinquished:	Kristen Liljeblom	Date: 5/7/14	Time: AM	
Received:	<i>[Signature]</i>	Date: 5/7/14	Time: PM	
Relinquished:	<i>[Signature]</i>	Date: 5/8/14	Time: 10:07 AM	
Received:	<i>[Signature]</i>			



**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: 031417585  
 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: 05/08/14 10:07 AM  
 Collected: 5/7/2014

Project: 14-028.12TB/ LBP RISK ASSESSMENT/ 167 PLEASANT VIEW RD, DERBY/ CT

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

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
5/7 KL 01 Site: FLOOR AT ENTRY Desc: LIVING RM	0001	5/7/2014	5/8/2014	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
5/7 KL 02 Site: WINDOW SILL Desc: LIVING RM	0002	5/7/2014	5/8/2014	54 in <sup>2</sup>	<27 µg/ft <sup>2</sup>
5/7 KL 03 Site: FLOOR Desc: BEDROOM 1	0003	5/7/2014	5/8/2014	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
5/7 KL 04 Site: WINDOW WELL Desc: BEDROOM 1	0004	5/7/2014	5/8/2014	99 in <sup>2</sup>	42 µg/ft <sup>2</sup>
5/7 KL 05 Site: FLOOR Desc: BEDROOM 3	0005	5/7/2014	5/8/2014	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
5/7 KL 06 Site: WINDOW SILL Desc: BEDROOM 3	0006	5/7/2014	5/8/2014	54 in <sup>2</sup>	<27 µg/ft <sup>2</sup>
5/7 KL 07 Site: FLOOR AT ENTRY Desc: SUN ROOM	0007	5/7/2014	5/8/2014	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
5/7 KL 08 Site: FLOOR AT ENTRY Desc: KITCHEN	0008	5/7/2014	5/8/2014	144 in <sup>2</sup>	<10 µg/ft <sup>2</sup>
5/7 KL 09 Site: FIELD BLANK	0009	5/7/2014	5/8/2014	n/a	<10 µg/wipe
5/7 KL 10 Site: FIELD BLANK	0010	5/7/2014	5/8/2014	n/a	<10 µg/wipe

*M. Apfeldorfer*

Miron Apfeldorfer, Laboratory Manager  
 or other approved signatory

Reporting limit is 10 ug/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 11506

Initial report from 05/09/2014 10:20:17

**APPENDIX 5**  
**RADON TESTING REPORTS**

**Radon Testing Corp. of America**  
**2 Hayes Street**  
**Elmsford, NY 10523**  
**Phone: (914) 345-3380**

**Radon Testing Summary Sheet**

*Please fill out all pertinent information legibly*

**Mailing Address:**

Contact: Peter J. Folino

Company/Agency/Board of Ed: Eagle Environmental  
Address: 8 South Main Street Suite 3

City: Terryville State: CT Zip: 06786

Project Code (if any) 14-028.12T8

Fax or email: 860 585-7034

Phone 860 589-8257

**Building/School Information**

School District: \_\_\_\_\_

School Code Number: \_\_\_\_\_

County: \_\_\_\_\_

Municipality: \_\_\_\_\_

Building/School Name: \_\_\_\_\_

Test Location Street Address: 167 Pleasant View Road, Derby CT

Placed By ID# EF Retrieved by ID# EF

Start Date: 5/16/14 Stop Date: 5/19/14

Weather During Test Sunny and 65 degrees f

Total # of detectors for this building 1



Site Radon Inspection Report

Date : 05/21/2014

Mr. Peter Folino  
EAGLE ENVIRONMENTAL  
8 South Main Street  
Suite #3  
Terryville, CT 06786-

Client: Unknown  
Test Location: 167 Pleasant View Road  
Derby, CT 06418-

Individual Canister Results

Canister ID# :	2310080	Test Start :	05/16/2014 @ 15:00
Canister Type :	Charcoal Canister 3 inch	Test Stop :	05/19/2014 @ 07:11
Location :	Basement	Received:	05/21/2014 @ 14:34
Radon Level :	0.9 pCi/L	Analyzed:	05/21/2014 @ 15:36
Error for Measurement is: ±	0.2 pCi/L		

The reported results indicate that radon levels in the building tested are below the United States Environmental Protection Agency (EPA) action level of 4.0 picoCuries per liter of air (pCi/L). The EPA recommends retesting if your living patterns change and you begin occupying a lower level of the building, such as a basement or if major remodeling is done.

General radon information may be obtained by consulting the EPA booklet: A Citizen's Guide to Radon ([www.epa.gov/radon/pubs/citguide.html](http://www.epa.gov/radon/pubs/citguide.html)). To request a copy or for further information, please contact your state health department. The EPA maintains a radon information website, including copies of its publications, at [www.epa.gov/iaq/radon](http://www.epa.gov/iaq/radon).

**For New Jersey clients:** Please see the attached guidance document entitled Radon Testing and Mitigation: The Basics for further information.

**For New York clients:** If the radon level of one or more testing devices is equal to or exceeds 20 pCi/L please contact the New York State Department of Health, Bureau of Environmental Radiation Protection, for technical advice and assistance at 518-402-7556 or toll free 1-800-458-1158.

**PLEDGE OF ASSURED QUALITY**

All procedures used for generating this report are in complete accordance with the current EPA protocols for the analysis of radon in air (EPA 402-R-92-004). The analytical results relate only to the samples tested, in the condition received by the lab, and that calculations were based upon the information supplied by client. RTCA and its personnel do not assume responsibility or liability, collectively and individually, for analysis results when detectors have been improperly handled or placed by the consumer, nor does RTCA and its personnel accept responsibility for any financial or health consequences of subsequent action or lack of action, taken by the customer or it's consultants based on RTCA-provided results.



*Andreas C. George*

Andreas C. George  
Radon Measurement Specialist

NJ MES 11089

*Dante Galan*

Dante Galan  
Laboratory Director

NRSB ARL0001  
NYS ELAP ID: 10808  
PADEP ID: 0348  
NJDEP ID: NY933  
NJ MEB 90036  
FL DOH RB1609

**APPENDIX 6**  
**MOLD INSPECTION FORMS**



# EAGLE Environmental, Inc.

## MOLD MOISTURE READING FORM

Eagle Project No: 14-028.12T8 Date: 4/18/14 Inspector: HH

Facility Address: 167 Pleasant View Rd, Derby

MOISTURE MODE						
ROOM	COMPONENT	SUBSTRATE	REL. SURFACE MOISTURE	DRY	AT RISK	WET
Basement	Ceiling	fiberglass	14.1	✓		
	Joist	Wood	11.9	✓		
	Sub floor	Wood	13.8	✓		
	Wall	Panel	11.9	✓		
Basement	Ceiling	Sheetrock	12.1	✓		
Bath	Wall	Sheetrock	12.4	✓		

HYGROMETER MODE				
TIME	ROOM	% RELATIVE HUMIDITY	AIR TEMP.	DEW POINT TEMP.



**APPENDIX 7**

**ABATEMENT AND CONSULTING COST ESTIMATES**

**HAZARDOUS MATERIALS ABATEMENT COST ESTIMATES**

**APPLICATION NO. 2028**  
**167 PLEASANT VIEW ROAD**  
**DERBY, CONNECTICUT**

**MICROBIAL CONTAMINATION REMEDIATION COST ESTIMATE**

<b>MATERIAL</b>	<b>QUANTITY</b>	<b>UNIT COST</b>	<b>TOTAL COST</b>
BASEMENT MICROBIAL REMEDIATION	1	\$ 6,400.00 EACH	\$ 6,400.00
SUBTOTAL			\$ 6,400.00
MICROBIAL REMEDITION CONTINGENCY			\$ 640.00
MICROBIAL REMEDIATION TOTAL			\$ 7,040.00

**HAZARDOUS MATERIALS ABATEMENT SUBTOTAL** \$ 7,040.00

**HAZARDOUS MATERIALS CONSULTING COST ESTIMATE**

<b>CONSULTING COST</b>	<b>QUANTITY</b>	<b>UNIT COST</b>	<b>TOTAL COST</b>
PROJECT OVERSIGHT	10	\$70.00 HOUR	\$ 700.00
PROJECT MANAGEMENT	3	\$130.00 HOUR	\$ 390.00
POST REMEDIATION SAMPLE ANALYSIS	1	\$500.00 EACH	\$ 500.00
PROJECT CLOSEOUT REPORTING	3	\$70.00 HOUR	\$ 210.00
CLERICAL	4	\$50.00 HOUR	\$ 200.00
SUBTOTAL			\$ 2,000.00
CONSULTING CONTINGENCY			\$ 200.00
CONSULTING TOTAL			\$ 2,200.00

**GRAND TOTAL** \$ 9,240.00

**APPENDIX 8**

**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.**

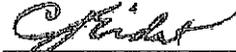
1204 North Road, Groton, CT 06340 (800) 247-7746

Certificate Number: ABIRF22726

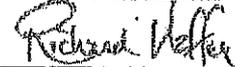
Exam Grade: 100

Expiration Date: 01/02/2015

Exam Date: 01/02/2014



Christopher J. Eldert, CIH, CSP, RS



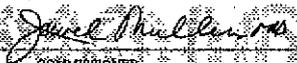
George Williamson, Training Director  
Richard Haffey, Training Director

**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.  
08-702940

  
SIGNATURE

  
COMMISSIONER

# ENVIRONMENTAL TRAINING AND ASSESSMENT

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

Awarded To

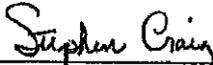
**Kristen Liljehult**  
269 Baileyville Road  
Middlefield, CT 06455

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 Dates: 1/2/2014  
Examination Date: 1/2/2014

Examination Grade: 88%  
Certificate Number: LI/RAR-00350

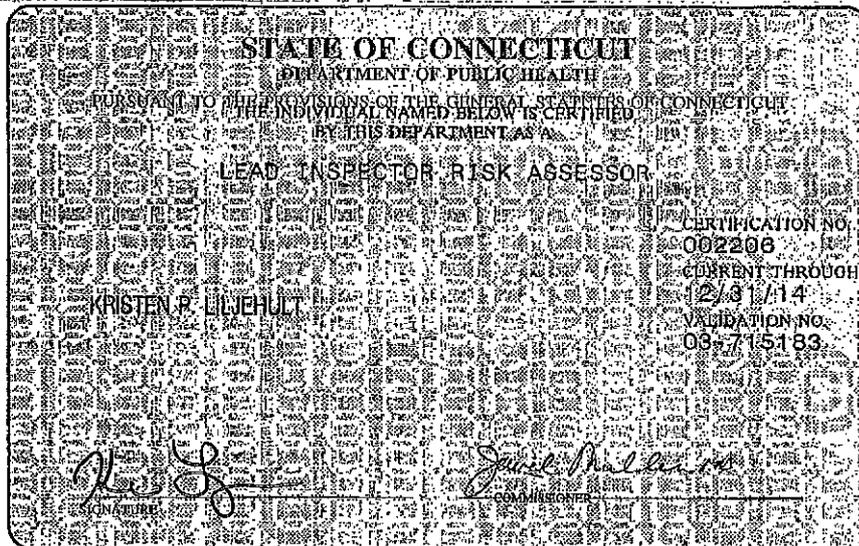
Expiration Date: 1/2/2015



Stephen J. Craig, Training Manager

Boston Lead Company, LLC  
dba

Environmental Training and Assessment  
62 Washington Street  
Middletown, CT 06457  
860-347-7277



# CERTIFICATE OF ACHIEVEMENT

*This certifies that*

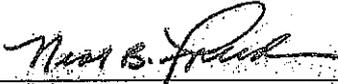
**Hannah Hintz**

45 Frederick Street, Bristol, CT 06010  
000-00-0583

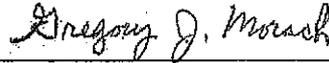
*has successfully completed the*

## INSPECTOR RISK ASSESSOR REFRESHER

Training Course  
conducted by  
Cardno ATC  
73 William Franks Drive  
West Springfield, MA 01089  
(413) 781-0070



Principal Instructor



Training Manager

October 2, 2013  
Date of Course

October 2, 2013  
Exam Date

CTLIRAR-354  
Certificate Number

October 2, 2014  
Expiration Date

Training received complies with the requirements of the Connecticut Department of Public Health pursuant to Section 2-477 of the Connecticut General Statutes.

### 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

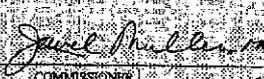
LEAD INSPECTOR RISK ASSESSOR

HANNAH E HINTZ

CERTIFICATION NO.  
002244  
CURRENT THROUGH  
06/30/14  
VALIDATION NO.  
03-623637



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

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

LOCATED AT 307 West 38<sup>th</sup> Street IN New York, NY 10018

AND REGISTERED IN THE NAME OF Peter Frasca, 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 (PLM, TEM)  
Air - Fiber Counting (PCM, TEM)  
Water - TEM

#### Environmental Health & Housing

##### Examination For:

Lead in Paint  
Lead Paint in Soil  
Lead in Dust Wipes

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

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