EAGLE Environmental, Inc.

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

February 15, 2015

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
9 Cottage Place
Bridgeport, Connecticut 06604
Application #2372
Eagle Project No. 14-028.12T18

Dear Mr. Holmes:

Please find the attached Environmental Assessment Report conducted at 9 Cottage Place 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 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:
Kristen Liljehult
Environmental Consultant II

Report Reviewed By:
Peter J. Folino
Project Manager

\\Baglesvr\public\2014 Files\2014 Reports\Capital Studio Architects\Hurricane Sandy\9 Cottage Place-Bridgeport\9 Cottage Place - Environmental Assessment Report.doc

TABLE OF CONTENTS

1. INTRODUCTION 1

1.1 INSPECTION AREA DESCRIPTION 1

2. SCOPE OF INSPECTION 1

2.1 ASBESTOS CONTAINING MATERIALS 1
2.2 LEAD-BASED PAINT 1
2.3 RADON TESTING 3
2.4 MOLD INSPECTION 3

3. INSPECTION PROTOCOLS 3

3.1 ASBESTOS CONTAINING MATERIALS 3
3.1.1 Inspection 3
3.1.2 Bulk Sampling 4
3.1.3 Bulk Sample Analysis 4
3.2 LEAD-BASED PAINT 5
3.3 RADON TESTING 5
3.4 MOLD INSPECTION 5

4. INSPECTION RESULTS 6

4.1 ASBESTOS CONTAINING MATERIALS 6
4.2 LEAD-BASED PAINT 7
4.2.1 Dust Hazards 7
4.2.2 Soil Hazards 8
4.3 RADON 8
4.4 MOLD 8

5. COST ESTIMATES 8

LIST OF TABLES

Table I Asbestos-Containing Materials Summary Table
Table II Non Asbestos-Containing Materials Summary Table

APPENDICES

Appendix 1 Floor Plans
Appendix 2 Asbestos Bulk Sample Laboratory Reports
Appendix 3 Interior and Exterior Visual Assessment Forms
Appendix 4 XRF Lead-Based Paint Inspection Reports
Appendix 5 Lead Dust and Soil Sample Laboratory Reports
Appendix 6 Radon Testing Reports
Appendix 7 Mold Inspection Forms
Appendix 8 Abatement and Consulting Cost Estimates
Appendix 9 Eagle Environmental Inc. Licenses and Laboratory Certificates

1. INTRODUCTION

On July 11, 2014, Eagle Environmental, Inc. conducted an environmental assessment of portions of the site building located at 9 Cottage Place in Bridgeport, Connecticut. The scope of the environmental assessment included an inspection for asbestos-containing materials, a lead-based paint hazard 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 were determined by reviewing the planned renovation work provided in CSA's Project Scope dated May 28, 2014. For the purpose of this project the following areas were inspected:

- Basement
- Façades

In addition to testing the areas of the building that will be impacted by the renovation work, a lead-based paint 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 Reports provided in Appendix 4.

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 $25,00 0 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 Kristen Liljehult; a State of Connecticut licensed Lead Inspector/Risk Assessor (license # 002206).

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. There were no children under six (6) years of age residing in the dwelling at the time of 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 9 Cottage Place 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 9 Cottage Place 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 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 4. The Summary Report provides an inventory of each surface coating that contains lead at or above 1.0 mg/cm^2. 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^2 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 planned to be raised to proper flood elevation and the lowest level of the building will not be in contact with the ground. Radon testing was not performed for this site building.

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 twenty-three (23) bulk samples of suspect ACM were collected and twenty-two (22) samples were analyzed by PLM based on the "stop on first positive" request to the laboratory.

The following materials were confirmed to be ACM:

- Furnace Flue Cement in Room 001 (Basement)

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 furnace is to be replaced per the architects Scope of Work during the renovations. The flue cement at the flue pipe and chimney connection will require removal prior to disturbing the furnace or flue pipe. The removal can be performed following the OSHA glove bag method.

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 the lead-based paint hazard screen report must be provided to residence within fifteen (15) days of the evaluation. A total of sixty-seven (67) XRF readings were collected during the lead-hazard screen of the building. From the sixty-seven (67) readings, thirty-seven (37) were found to contain toxic levels of lead-based paint.

The wood clapboard under the existing vinyl siding contains toxic levels of lead-based paint. Lead safe work practices must be used when constructing the addition on the house. The lead-based paint identified on the interior will have no impact on the proposed renovations but the defect lead-based paint must be abated as part of this job.

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

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 mg/cm^2 +/- 0.3 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. A dust-lead hazard was identified on the living room window well; specialized cleaning of this surface is required.

4.2.2 Soil Hazards

One (1) soil sample was collected from the bare soil under the deck off "C" façade of the building. A soil-hazard was identified and interim controls may be utilized as the results are below 5,000 mg/Kg.

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

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 Low-Moderate range (16%). 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)

Radon testing was not performed at this Site since the building will be elevated and the lowest level of the building will not be in contact with the ground.

4.4 Mold

The physical inspection identified no signs of visible mold growth, no signs of water damage and no pungent odors.

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
8 COTTAGE PLACE
BRIDGEPORT, CONNECTICUT

LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS				ESTIMATED QUANTITY	F/NF
				PLM	PLM PC	TEM NOB	ACM		
001	Furnace flue cement	7-11-AC-01	MISC	2% Chrys			YES	2 LF	F
		7-11-AC-02		DNA					

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

BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION

TABLE II

NON ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE

TABLE II
NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
9 COTTAGE PLACE
BRIDGEPORT, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
001	Mineral wool insulation	7-11-AC-03	TSI	NAD			NO
		7-11-AC-04		NAD			
		7-11-AC-05		NAD			
001	Batt insulation paper	7-11-AC-06	MISC	NAD			NO
		7-11-AC-07		NAD			
001	Black cementitous skim coat on brick	7-11-AC-08	MISC	NAD			NO
		7-11-AC-09		NAD			
		7-11-AC-10		NAD			
001	Sheetrock	7-11-AC-11	MISC	NAD			NO
		7-11-AC-12		NAD			
001	Joint compound	7-11-AC-13	MISC	NAD			NO
		7-11-AC-14		NAD			
001	Sheetrock / joint compound composite	7-11-AC-15	MISC	NAD			NO
		7-11-AC-16		NAD			
Façade C	Homasote under siding	7-11-AC-17	MISC	NAD			NO
		7-11-AC-18		NAD			
Façade C	Blue paint on brick	7-11-AC-19	MISC	NAD			NO
		7-11-AC-20		NAD			
		7-11-AC-21		NAD			
Façade C	White window sill caulk	7-11-AC-22	MISC	NAD			NO
		7-11-AC-23		NAD			

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

BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION

APPENDIX 1

FLOOR PLANS

CAPITAL STUDIO ARCHITECTS

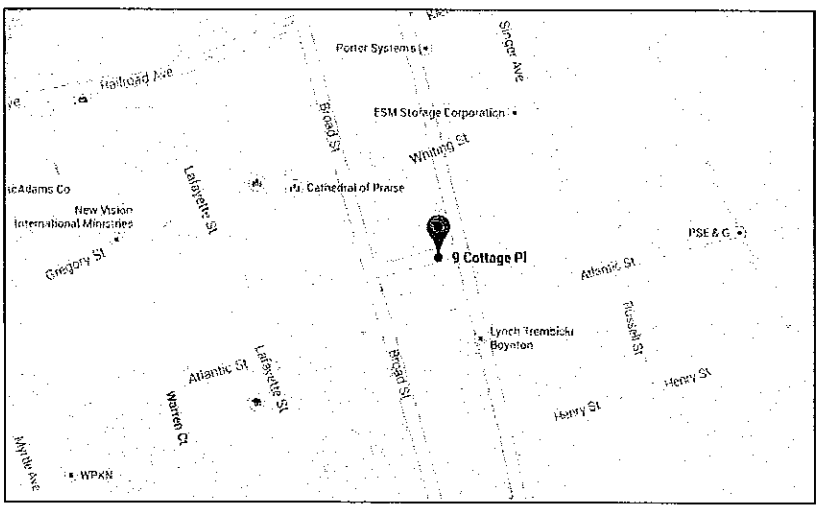
9 COTTAGE PLACE
BRIDGEPORT, CONNECTICUT

EAGLE PROJECT NUMBER: 14-028.12T18

INDEX OF DRAWINGS

SP-1 SITE PLAN WITH SOIL SAMPLE LOCATION
FP-1 BASEMENT PLAN
FP-2 FIRST FLOOR PLAN
FP-3 SECOND FLOOR PLAN

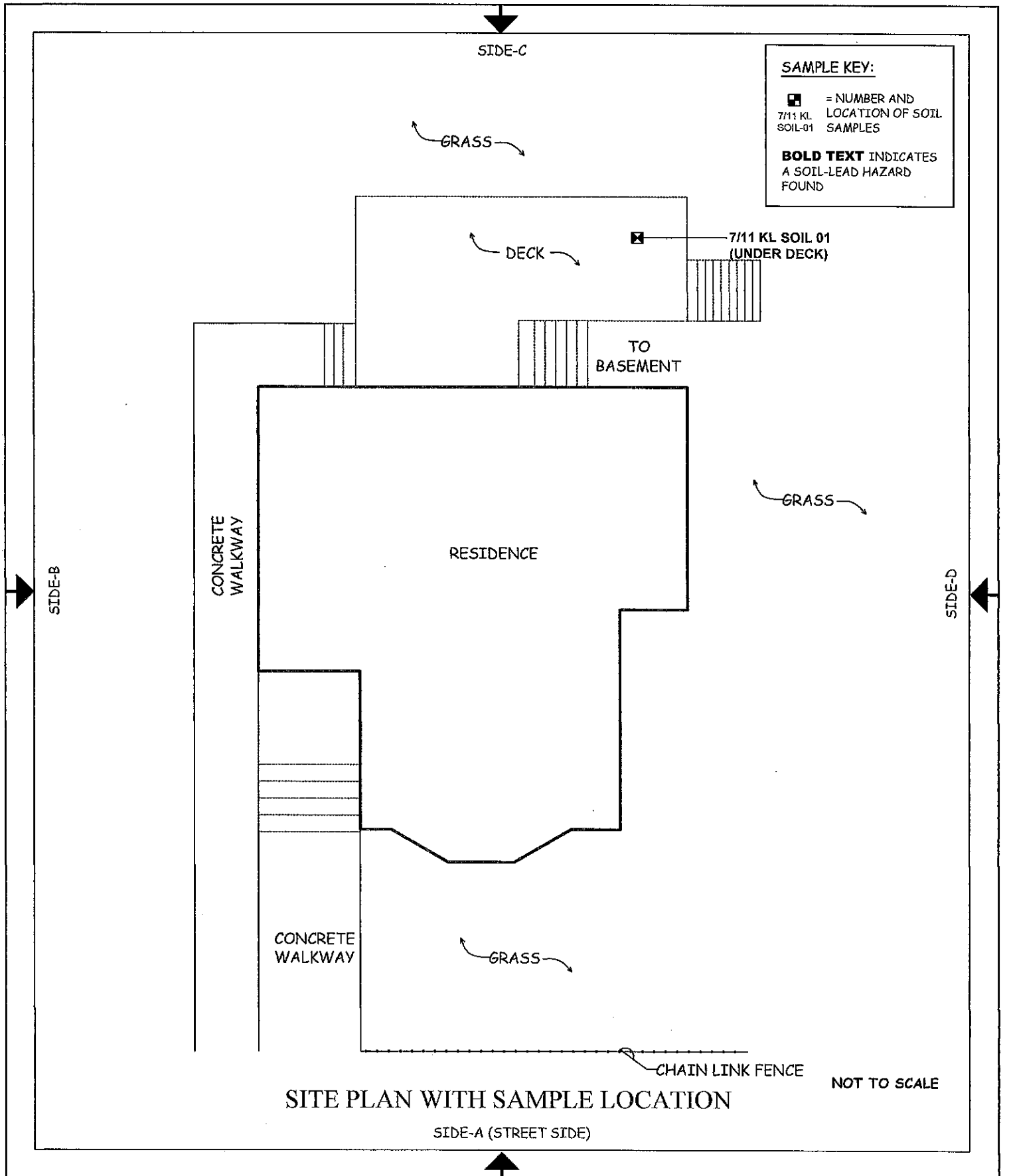
LOCATION MAP



MARCH 12, 2015

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

\\eaglesvr\public\2014 files\2014 autocad\capital studio architects\9 cottage place\inspection\cad\9 cottage place.dwg



SITE PLAN WITH SAMPLE LOCATION

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

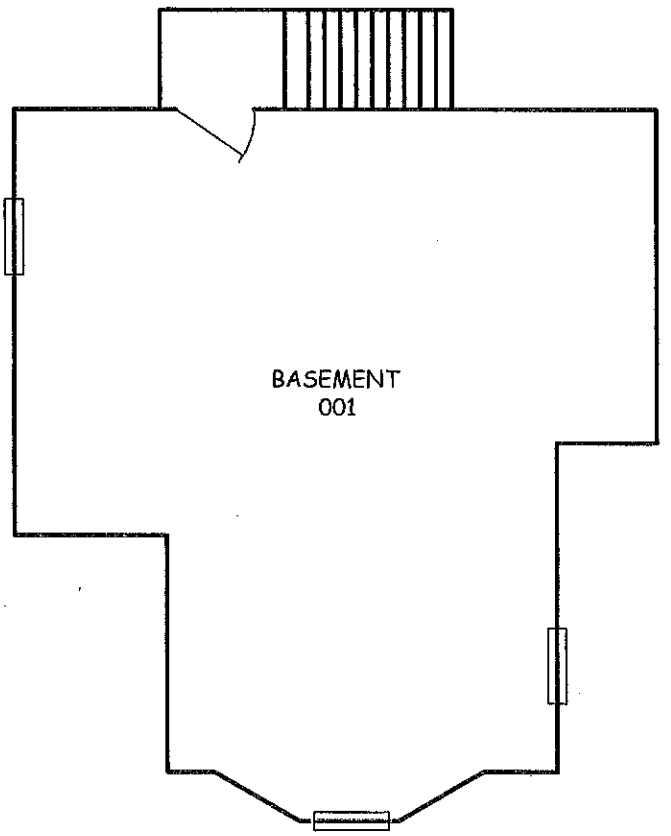
DATE: 03/04/2015
PROJECT NO.: 14-028.12T18
DRAWN BY: VB
REVIEWED BY: AH

ENVIRONMENTAL ASSESSMENT
9 COTTAGE PLACE
BRIDGEPORT, CONNECTICUT

SHEET NO.
SP-1

\\eaglesvr\public\2014 files\2014 autocad\capital studio architects\9 cottage place\inspection\cad\9 cottage place.dwg

SIDE-C



SIDE-B

SIDE-D

BASEMENT

NOT TO SCALE

SIDE-A (STREET SIDE)

EAGLE Environmental, Inc.

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

DATE: 03/04/2015
PROJECT NO.: 14-028.12T18
DRAWN BY: VB
REVIEWED BY: AH

ENVIRONMENTAL ASSESSMENT
9 COTTAGE PLACE
BRIDGEPORT, CONNECTICUT

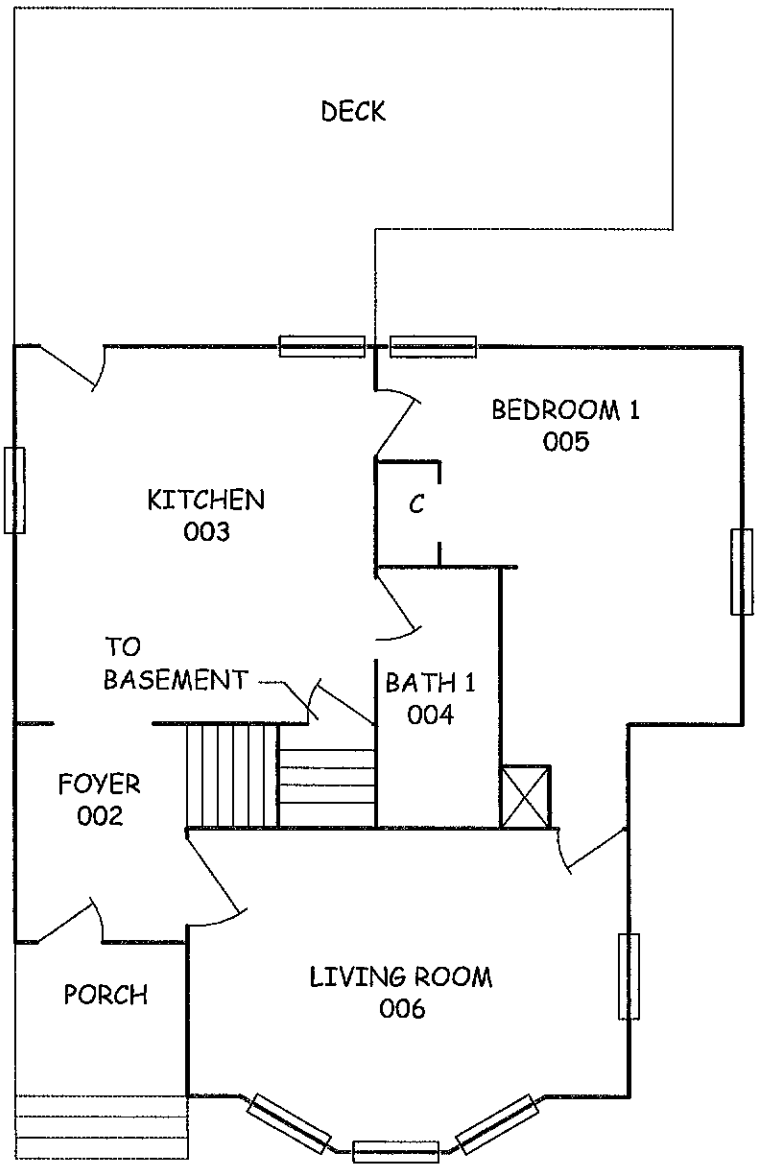
SHEET NO.

FP-1

SHEET 2 OF 4

\\eaglesvr\public\2014 files\2014 autocad\capital studio architects\9 cottage place\inspection\cad\9 cottage place.dwg

SIDE-C



SIDE-B

SIDE-D

FIRST FLOOR

NOT TO SCALE

SIDE-A (STREET SIDE)

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

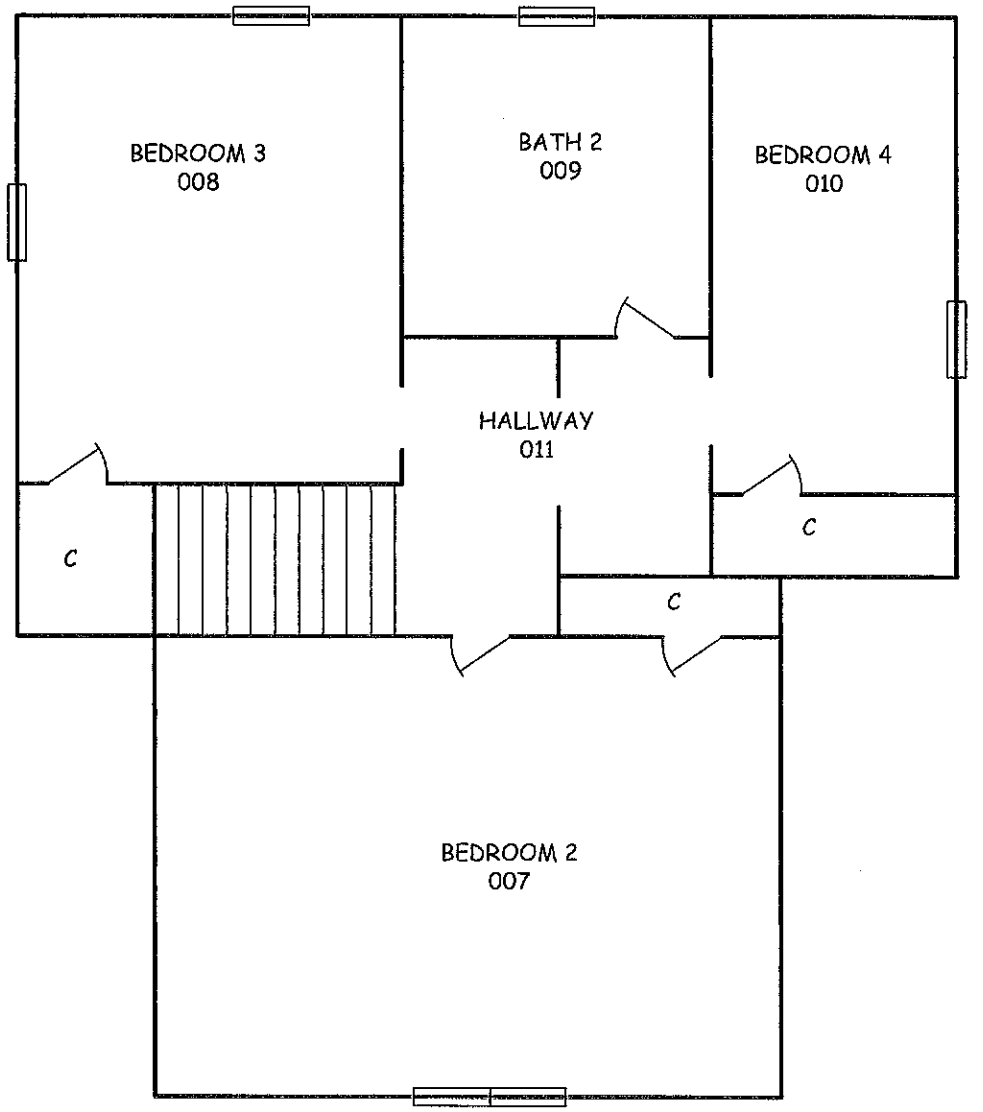
DATE: 03/04/2015
PROJECT NO.: 14-028.12T18
DRAWN BY: VB
REVIEWED BY: AH

ENVIRONMENTAL ASSESSMENT
9 COTTAGE PLACE
BRIDGEPORT, CONNECTICUT

SHEET NO.
FP-2
SHEET 3 OF 4

\\eaglesvr\public\2014 files\2014 autocad\capital studio architects\9 cottage place\inspection\cad\9 cottage place.dwg

SIDE-C



SIDE-B

SIDE-D

SECOND FLOOR

NOT TO SCALE

SIDE-A (STREET SIDE)

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

DATE: 03/04/2015
PROJECT NO.: 14-028.12T18
DRAWN BY: VB
REVIEWED BY: AH

ENVIRONMENTAL ASSESSMENT
9 COTTAGE PLACE
BRIDGEPORT, CONNECTICUT

SHEET NO.

FP-3

SHEET 4 OF 4

\\eaglesvr\public\2014 files\2014 autocad\capital studio architects\9 cottage place\inspection\cad\9 cottage place.dwg

APPENDIX 2

ASBESTOS BULK SAMPLE LABORATORY REPORTS

OrderID: 031426997 031426997

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 38th 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

www.emsl.com

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	CSA - Superstorm Sandy			**Project #:**	14-028.12T18
Project Location:	9 Cottage Place, 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 _____

7/13

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

Client Sample # (S)	7-11-AC-01 ... 7-11-AC-23			**TOTAL SAMPLE #**	22 / 23
Relinquished:	ANDREW CARNEVALE	Date:	7-11-14	Time:	PM
Received:	RENEE SIOCH	Date:	7-11-14	Time:	PM
Relinquished:	RENEE SIOCH	Date:	7-11-14	Time:	PM
Received:	José Arriaga	Date:	7/12/14	Time:	10:27 AM

mm 7/12/14

OrderID: 031426997 031426997

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 38th 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

www.emsl.com

SAMPLE NUMBER	SAMPLE DESCRIPTION	ROOM or LOCATION	VOLUME Air (L)	Area (Inches sq.)
7-11-AC-01	Furnace flue cement	001		2% Chrys RNA RMD
7-11-AC-02	Furnace flue cement	001		
7-11-AC-03	Mineral wool insulation	001		
7-11-AC-04	Mineral wool insulation	001		
7-11-AC-05	Mineral wool insulation	001		
7-11-AC-06	Batt insulation paper	001		
7-11-AC-07	Batt insulation paper	001		
7-11-AC-08	Black cementitous skim coat on brick	001		
7-11-AC-09	Black cementitous skim coat on brick	001		
7-11-AC-10	Black cementitous skim coat on brick	001		
7-11-AC-11	Sheetrock	001		
7-11-AC-12	Sheetrock	001		
7-11-AC-13	Joint compound	001		
7-11-AC-14	Joint compound	001		
7-11-AC-15	Sheetrock / joint compound composite	001		
7-11-AC-16	Sheetrock / joint compound composite	001		
7-11-AC-17	Homasote under siding	Façade C		
7-11-AC-18	Homasote under siding	Façade C		
7-11-AC-19	Blue paint on brick	Façade C		
7-11-AC-20	Blue paint on brick	Façade C		
7-11-AC-21	Blue paint on brick	Façade C		
7-11-AC-22	White window sill caulk	Façade C		Archived 7/13
7-11-AC-23	White window sill caulk	Façade C		

Received 7-12-14, 10:27 AM

7/12/14

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:	031426997
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:	07/12/14 10:27 AM
Analysis Date:	7/13/2014
Collected:	7/11/2014

Project: **14-028.12T18/ CSA - SUPERSTORM SANDY/ 9 COTTAGE PLACE/ BRIDGEPORT**

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

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
7-11-AC-01 *031426997-0001*	FURNACE FLUE CEMENT - 001	Gray Non-Fibrous Homogeneous	13%	Wollastonite	85%	Non-fibrous (other)	2%	**Chrysotile**
7-11-AC-02 *031426997-0002*	FURNACE FLUE CEMENT - 001							**Stop Positive (Not Analyzed)**
7-11-AC-03 *031426997-0003*	MINERAL WOOL INSULATION - 001	Gray Fibrous Homogeneous	46%	Cellulose	54%	Non-fibrous (other)		**None Detected**
7-11-AC-04 *031426997-0004*	MINERAL WOOL INSULATION - 001	Gray Non-Fibrous Homogeneous	58%	Cellulose	42%	Non-fibrous (other)		**None Detected**
7-11-AC-05 *031426997-0005*	MINERAL WOOL INSULATION - 001	Brown Fibrous Homogeneous	60%	Cellulose	40%	Non-fibrous (other)		**None Detected**
7-11-AC-06 *031426997-0006*	BATT INSULATION PAPER - 001	Brown Non-Fibrous Homogeneous	80%	Cellulose	20%	Non-fibrous (other)		**None Detected**
7-11-AC-07 *031426997-0007*	BATT INSULATION PAPER - 001	Brown Non-Fibrous Homogeneous	80%	Cellulose	20%	Non-fibrous (other)		**None Detected**
7-11-AC-08 *031426997-0008*	BLACK CEMENTITOUS SKIM COAT ON BRICK - 001	Black Non-Fibrous Homogeneous			69% 9% 22%	Quartz Ca Carbonate Non-fibrous (other)		**None Detected**
7-11-AC-09 *031426997-0009*	BLACK CEMENTITOUS SKIM COAT ON BRICK - 001	Black Non-Fibrous Homogeneous			70% 9% 21%	Quartz Ca Carbonate Non-fibrous (other)		**None Detected**

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 07/13/2014 21:09:13

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:	031426997
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:	07/12/14 10:27 AM
Analysis Date:	7/13/2014
Collected:	7/11/2014

Project: **14-028.12T18/ CSA - SUPERSTORM SANDY/ 9 COTTAGE PLACE/ BRIDGEPORT**

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
7-11-AC-10 *031426997-0010*	BLACK CEMENTITOUS SKIM COAT ON BRICK - 001	Gray Non-Fibrous Homogeneous		50% Quartz 50% Non-fibrous (other)	**None Detected**
7-11-AC-11 *031426997-0011*	SHEETROCK - 001	Gray Non-Fibrous Homogeneous	6% Cellulose	54% Gypsum 40% Non-fibrous (other)	**None Detected**
7-11-AC-12 *031426997-0012*	SHEETROCK - 001	Brown/Gray Fibrous Homogeneous	10% Cellulose	70% Gypsum 20% Non-fibrous (other)	**None Detected**
7-11-AC-13 *031426997-0013*	JOINT COMPOUND - 001	White Non-Fibrous Homogeneous		73% Ca Carbonate 27% Non-fibrous (other)	**None Detected**
7-11-AC-14 *031426997-0014*	JOINT COMPOUND - 001	Tan Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (other)	**None Detected**
7-11-AC-15 *031426997-0015*	SHEETROCK/ JOINT COMPOUND COMPOSITE - 001	Brown/White Non-Fibrous Homogeneous	5% Cellulose	30% Gypsum 30% Ca Carbonate 35% Non-fibrous (other)	**None Detected**
7-11-AC-16 *031426997-0016*	SHEETROCK/ JOINT COMPOUND COMPOSITE - 001	Brown/White Non-Fibrous Homogeneous	11% Cellulose	10% Gypsum 25% Ca Carbonate 54% Non-fibrous (other)	**None Detected**
7-11-AC-17 *031426997-0017*	HOMASOTE UNDER SIDING - FAÇADE C	Brown Non-Fibrous Homogeneous	77% Cellulose 2% Glass	21% Non-fibrous (other)	**None Detected**

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 07/13/2014 21:09:13

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:	031426997
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:	07/12/14 10:27 AM
Analysis Date:	7/13/2014
Collected:	7/11/2014

Project: **14-028.12T18/ CSA - SUPERSTORM SANDY/ 9 COTTAGE PLACE/ BRIDGEPORT**

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

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
7-11-AC-18 *031426997-0018*	HOMASOTE UNDER SIDING - FAÇADE C	Brown Fibrous Homogeneous	70%	Cellulose	30%	Non-fibrous (other)	**None Detected**
7-11-AC-19 *031426997-0019*	BLUE PAINT ON BRICK - FAÇADE C	Various Non-Fibrous Homogeneous	5%	Cellulose	2% 37% 56%	Mica Gypsum Non-fibrous (other)	**None Detected**
7-11-AC-20 *031426997-0020*	BLUE PAINT ON BRICK - FAÇADE C	Various Non-Fibrous Homogeneous	6%	Cellulose	35% 59%	Gypsum Non-fibrous (other)	**None Detected**
7-11-AC-21 *031426997-0021*	BLUE PAINT ON BRICK - FAÇADE C	Gray Non-Fibrous Homogeneous			10% 90%	Quartz Non-fibrous (other)	**None Detected**
7-11-AC-22 *031426997-0022*	WHITE WINDOW SILL CAULK - FAÇADE C	Gray Non-Fibrous Homogeneous			44% 56%	Ca Carbonate Non-fibrous (other)	**None Detected**
7-11-AC-23 *031426997-0023*	WHITE WINDOW SILL CAULK - FAÇADE C	Tan Non-Fibrous Homogeneous			35% 65%	Ca Carbonate Non-fibrous (other)	**None Detected**

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 07/13/2014 21:09:13

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:	031426997
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:	07/12/14 10:27 AM
Analysis Date:	7/13/2014
Collected:	7/11/2014

Project: **14-028.12T18/ CSA - SUPERSTORM SANDY/ 9 COTTAGE PLACE/ BRIDGEPORT**

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date::	7/12/2014	Sample Receipt Time:	10:27 AM
Analysis Completed Date:	7/13/2014	Analysis Completed Time:	8:44 PM

Analyst(s):

Daena Charles PLM (7)

Madisen Nnaoji PLM (15)

Samples reviewed and approved by:

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 07/13/2014 21:09:13

APPENDIX 3

INTERIOR AND EXTERIOR VISUAL ASSESSMENT FORMS

EAGLE Environmental, Inc.

EXTERIOR VISUAL ASSESSMENT FORM

Address: 9 Cottage Place, Brigeport

Side: A Facade

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Siding	(A) B C D	(I) F P	Enclosed	SEE LBP SPEC
Skirt Board	(A) B C D	(I) F P		
Corner Board	(A) B C D	(I) F P		
Upper Trim	(A) B C D	(I) F P		
Porch Column	(A) B C D	(I) F P		
Porch Floor	A B C D	I F P		
Porch Ceiling	A B C D	I F P		
Porch Trim	(A) B C D	(I) F P		
Window Casing	(A) B C D	(I) F P		
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		
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		
Foundation	(A) B C D	I F (P)	XRF	
Gutters	A B C D	I F P		
Rain Leaders	A B C D	I F P		
Blindstops	(A) B C D	I F (P)	XRF	
Clapboard	A B C D	I F P	assume +	
(under vinyl)	(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		
	A B C D	I F P		
	A B C D	I F P		

8 SOUTH MAIN STREET • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

EAGLE Environmental, Inc.

EXTERIOR VISUAL ASSESSMENT FORM

Address: 9 Cottage Place, Brigeport

Side: B Facade

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Siding	A (B) C D	(I) F P	Enclosed	See LBP Spec
Skirt Board	A (B) C D	(I) F P		
Corner Board	A (B) C D	(I) F P		
Upper Trim	A (B) C D	(I) F P		
Porch Column	A B C D	I F P		
Porch Floor	A B C D	I F P		
Porch Ceiling	A B C D	I F P		
Porch Trim	A B C D	I F P		
Window Casing	A (B) C D	(I) F P	Enclosed	
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	Enclosed	
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		
Foundation	A (B) C D	I F (P)	XRF	
Gutters	A B C D	I F P		
Rain Leaders	A B C D	I F P		
Blindstops	A (B) C D	I F (P)	XRF	
Window trim	A B C D	I F (P)	Enclosures failing	
Clapboard	A (B) C D	I F P	Assume (P)	
(under vinyl)	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		
	A B C D	I F P		
	A B C D	I F P		

8 SOUTH MAIN STREET • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

EAGLE Environmental, Inc.

EXTERIOR VISUAL ASSESSMENT FORM

Address: 9 Cottage Place, Brigeport

Side: C Facade

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Siding	A B (C) D	(I) F P	} Enclosed	See LBP Spec
Skirt Board	A B (C) D	(I) F P		
Corner Board	A B (C) D	(I) F P		
Upper Trim	A B (C) D	(I) F P		
Porch Column	A B C D	I F P		
Porch Floor	A B C D	I F P		
Porch Ceiling	A B C D	I F P		
Porch Trim	A B C D	I F P		
Window Casing	A B (C) D	(I) F P	Enclosed	
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	Enclosed	
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		
Foundation	A B (C) D	I F (P)	XRF	
Gutters	A B C D	I F P		
Rain Leaders	A B C D	I F P		
Clapboard	A B C D	I F P		
(under vinyl)	A B (C) D	I F (P)	XRF	
Blinds/tops	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		
	A B C D	I F P		

8 SOUTH MAIN STREET • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

EAGLE Environmental, Inc.

EXTERIOR VISUAL ASSESSMENT FORM

Address: 9 Cottage Place, Brigeport

Side: D Facade

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Siding	A B C (D)	(I) F P	} Enclosed	See LBP Spec
Skirt Board	A B C (D)	(I) F P		
Corner Board	A B C (D)	(I) F P		
Upper Trim	A B C (D)	(I) F P		
Porch Column	A B C D	I F P		
Porch Floor	A B C D	I F P		
Porch Ceiling	A B C D	I F P		
Porch Trim	A B C D	I F P		
Window Casing	A B C (D)	(I) F P	Enclosed	
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	Enclosed	
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		
Foundation	A B C (D)	I F (P)	XRF	
Gutters	A B C D	I F P		
Rain Leaders	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		
	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		

8 SOUTH MAIN STREET • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

EAGLE Environmental, Inc.

INTERIOR
VISUAL ASSESSMENT FORM

Address: 9 Cottage Place, Bridgeport

Room No: 001 Basement

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTOL
Floor	A B C D	(I) F P	Unpainted concrete	
Wall	(A) (B) (C) (D)	(I) F P	Stone/Brick	
Ceiling	A B C D	(I) F P	Unpainted studs + insulation	
Door	A B (C) D	(I) F P		
Door Casing	A B (C) D	(I) F P		See LBP Spec
Door Jamb	A B (C) D	(I) F P		
Baseboard	A B C D	I F P		
Window Casing	(A) (B) C (D)	I F P		
Window Stop	A B C D	I F P	New vinyl	
Window Jamb	A B C D	I F P	windows and	
Window Sash	A B C D	I F P	New unpainted	
Window Well	A B C D	I F P	trim	
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		
Clst.Door Casing	A B C D	I F P		
Clst.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 + rail system	A B C D	(I) F P	Unpainted wood	
Columns	A B C D	(I) F P	brick + wood - unpainted	
Stair walls	(A) B (C) (D)	(I) F P	unpainted sheetrock	
Stair Door Casing	A B (C) D	I F (P)	XRF	
Shelving	(A) B C D	(I) F P	unpainted	
	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		

8 SOUTH MAIN STREET • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

EAGLE Environmental, Inc.

INTERIOR
VISUAL ASSESSMENT FORM

Address: 9 Cottage Place, Bridgeport

Room No: 002 Foyer

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTOL
Floor	A B C D	(I) F P	self Adhesive tiles	
Wall	(A)(B)(C)(D)	(I) F P		
Ceiling	A B C D	I F (P)	Intact - minor cracks - no peeling paint	
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)	XRF	
Baseboard	(A)(B)(C)(D)	(I) F P		
Window Casing	A B C D	I F P		
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		
Clst.Door Casing	A B C D	I F P		
Clst.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		
	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		

8 SOUTH MAIN STREET • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

EAGLE Environmental, Inc.

INTERIOR
VISUAL ASSESSMENT FORM

Address: 9 Cottage Place, Bridgeport

Room No: 003 Kitchen

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTOL
Floor	A B C D	I F P	self adh. tiles	
Wall	A B C D	I F P		
Ceiling	A B C D	I F P		See LBP spec
Door	A B C D	I F P		
Door Casing	A B C D	I F P	XRF –	
Door Jamb	A B C D	I F P	XRF –	
Baseboard	A B C D	I F P		
Window Casing	A B C D	I F P		
Window Stop	A B C D	I F P		
Window Jamb	A B C D	I F P	vinyl windows	
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	XRF ⊕	
Window Apron	A B C D	I F P		
Closet Door	A B C D	I F P		
Clst.Door Casing	A B C D	I F P		
Clst.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		
Basement Door	A B C D	I F P	XRF ⊕	
Door Cas	A B C D	I F P		
Door jamb	A B C D	I F P	XRF ⊕	
Wall trim	A B C D	I F P		
Ceiling trim	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		

8 SOUTH MAIN STREET • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

EAGLE Environmental, Inc.

INTERIOR
VISUAL ASSESSMENT FORM

Address: 9 Cottage Place, Bridgeport

Room No: 004 Bath 1 005

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTOL
Floor	A B C D	(I) F P		
Wall	(A) (B) (C) (D)	(I) F P	Panel	See LBP Spec
Ceiling	A B C D	(I) F P		
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)	XRF ⑨	
Baseboard	(A) (B) (C) (D)	(I) F P		
Window Casing	A B C D	I F P		
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		
Clst.Door Casing	A B C D	I F P		
Clst.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		
Door Stop	A (B) C D	I F (P)	XRF ⑧	
	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		

8 SOUTH MAIN STREET • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

EAGLE Environmental, Inc.

INTERIOR
VISUAL ASSESSMENT FORM

Address: 9 Cottage Place, Bridgeport

Room No: 005 Bedroom 1

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTOL
Floor	A B C D	(I) F P	self adh. tiles	
Wall	(A) (B) (C) (D)	(I) F P		See LBP spec
Ceiling	A B C D	(I) F P		
Door	A (B) C D	I F P		
Door Casing	(A) (B) C D	I F (P)	XRF (+)	
Door Jamb	(A) (B) C D	I F (P)	XRF (+)	
Baseboard	(A) (B) (C) (D)	(I) F P		
Window Casing	A B (C) (D)	I F (P)	XRF (+)	
Window Stop	A B (C) (D)	(I) F P		
Window Jamb	A B C D	I F P	vinyl	
Window Sash	A B C D	I F P	replacement	
Window Well	A B C D	I F P	windows	
Window Sill	A B (C) (D)	I F (P)	XRF (+)	
Window Apron	A B (C) (D)	(I) F P		
Closet Door	A B C D	I F P		
Clst.Door Casing	A (B) C D	(I) F P		
Clst.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)	XRF -	
Door shop	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		

8 SOUTH MAIN STREET • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

EAGLE Environmental, Inc.

INTERIOR
VISUAL ASSESSMENT FORM

Address: 9 Cottage Place, Bridgeport

Room No: 001e Living Room

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTOL
Floor	A B C D	I F P	varnished	
Wall	A B C D	I F P		
Ceiling	A B C D	I F P		
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	I F P		
Window Stop	A B C D	I F P		
Window Jamb	A B C D	I F P	vinyl w/	
Window Sash	A B C D	I F P	window	
Window Well	A B C D	I F P	replacements	
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		
Clst.Door Casing	A B C D	I F P		
Clst.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		
Fireplace + trim	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		

8 SOUTH MAIN STREET • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

EAGLE Environmental, Inc.

INTERIOR
VISUAL ASSESSMENT FORM

Address: 9 Cottage Place, Bridgeport

Room No: 007 Bedroom 2

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTOL
Floor	A B C D	I F P	Selfadh. tiles/linoleum/Varnished wood - XRF	
Wall	A B C D	I F P		
Ceiling	A B C D	I F P		See LBP Spec
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	I F P	XRF⊕	
Window Stop	A B C D	I F P	XRF⊕	
Window Jamb	A B C D	I F P	Jamb liner	
Window Sash	A B C D	I F P	Replacement window	
Window Well	A B C D	I F P	XRF⊖	
Window Sill	A B C D	I F P	XRF⊕	
Window Apron	A B C D	I F P	XRF⊕	
Closet Door	A B C D	I F P		
Clst.Door Casing	A B C D	I F P		
Clst.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	XRF⊕ Plaster	
Closet floor	A B C D	I F P	XRF⊕	
Closet Doorthresh	A B C D	I F P	XRF⊖	
Blindstops	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		

8 SOUTH MAIN STREET • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

EAGLE Environmental, Inc.

INTERIOR
VISUAL ASSESSMENT FORM

Address: 9 Cottage Place, Bridgeport

Room No: 008 Bedroom 3 *room being repainted

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTOL
Floor	A B C D	I F P	Self adh. tiles	
Wall	A B C D	I F P		
Ceiling	A B C D	I F P		
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	I F P		
Window Stop	A B C D	I F P		
Window Jamb	A B C D	I F P	Vinyl replacement windows	
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		
Clst.Door Casing	A B C D	I F P		
Clst.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		
	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		
	A B C D	I F P		

8 SOUTH MAIN STREET • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

EAGLE Environmental, Inc.

INTERIOR
VISUAL ASSESSMENT FORM

Address: 9 Cottage Place, Bridgeport

Room No: 009 Bath 2

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTOL
Floor	A B C D	I F P	vinyl tile	
Wall	A B C D	I F P		
Ceiling	A B C D	I F P		
Door	A B C D	I F P	new door +	
Door Casing	A B C D	I F P	trim comp.	
Door Jamb	A B C D	I F P		
Baseboard	A B C D	I F P		
Window Casing	A B C D	I F P		
Window Stop	A B C D	I F P	vinyl	
Window Jamb	A B C D	I F P	slider	
Window Sash	A B C D	I F P	window	
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		
Clst.Door Casing	A B C D	I F P		
Clst.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		
ceramic tile around tub	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		
	A B C D	I F P		

8 SOUTH MAIN STREET • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

EAGLE Environmental, Inc.

INTERIOR
VISUAL ASSESSMENT FORM

Address: 9 Cottage Place, Bridgeport

Room No: OLD Bedroom 4

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTOL
Floor	A B C D	I F (P)	layers of vinyl tile - XRF (P)	
Wall	(A) (B) (C) (D)	I F (P)	XRF (P)	
Ceiling	A B C D	I F (P)	XRF (P)	
Door	A B C D	I F P		See LBP spec
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)	I F (P)		
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)	Bed is blocking door from being open - assume (P) and def	
Clst.Door Casing	(A) B C D	I F (P)		
Clst.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 Walls	(A) B C D	I F P	ASSUME (P)	
Closet floor	(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		

8 SOUTH MAIN STREET • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

EAGLE Environmental, Inc.

INTERIOR
VISUAL ASSESSMENT FORM

Address: 9 Cottage Place, Bridgeport

Room No: 011 Hallway

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTOL
Floor	A B C D	I F (P)	XRF (-)	
Wall	(A) (B) (C) (D)	(I) F P		See LBP Spec
Ceiling	A B C D	(I) F P		
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)	XRF (+)	
Window Casing	A B C D	I F P		
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		
Clst.Door Casing	A B C D	I F P		
Clst.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 treads	A B C D	I F (P)	XRF (-)	
risers	A B C D	I F (P)	XRF (0)	
Stringers	A B C D	I F (P)	XRF (+)	
Handrail	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		

8 SOUTH MAIN STREET • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

APPENDIX 4

XRF LEAD-BASED PAINT INSPECTION REPORTS

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#02753 - 07/11/14 12:37

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

PERFORMED AT: 9 Cottage Place
Bridgeport, CT

INSPECTION DATE: 07/11/14

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

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: 002206

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

SIGNED: _____ Date: 7/11/14

Kristen Liljehult
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:	07/11/14	9 Cottage Place
Report Date:	7/11/2014	Bridgeport, CT
Abatement Level:	1.0	
Report No.	S#02753 - 07/11/14 12:37	
Total Readings:	67 Actionable: 37	
Job Started:	07/11/14 12:37	
Job Finished:	07/11/14 15:03	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Facade A									
011	A	Window	Ctr	Blind Stop	P	Wood	white	2.0	QM
Exterior Room 002 Facade B									
012	B	Window	Ctr	Blind Stop	P	Wood	white	1.8	QM
Exterior Room 003 Facade C									
004	C	Facade	Ctr		P	Wood	beige	>9.9	QM
		under vinyl siding							
006	C	Window	Ctr	Blind Stop	P	Wood	beige	1.7	QM
Exterior Room 004 Facade D									
007	D	Window	Ctr	Blind Stop	P	Wood	white	3.7	QM
Interior Room 001 Basement									
027	-	Stringer	Ctr		P	Wood	beige	1.6	QM
		Exposed area in doorway from kitchen							
018	C	Stairs	Rgt	Door Casing	P	Wood	beige	4.9	QM
Interior Room 003 Kitchen									
023	A	Basement Doo	Lft		P	Wood	white	>9.9	QM
024	A	Basement Doo	Lft	Jamb	P	Wood	white	>9.9	QM
026	A	Basement Doo	Lft	Stop	P	Wood	beige	>9.9	QM
022	B	Window	Lft	Sill	P	Wood	white	>9.9	QM
Interior Room 004 Bathroom 1									
028	B	Door	Ctr	Jamb	P	Wood	white	>9.9	QM
029	B	Door	Ctr	Stop	P	Wood	white	>9.9	QM
Interior Room 005 Bedroom 1									
030	B	Door	Rgt	Casing	P	Wood	white	>9.9	QM
031	B	Door	Rgt	Jamb	P	Wood	white	2.7	QM
032	B	Door	Rgt	Stop	P	Wood	white	>9.9	QM
033	C	Window	Lft	Casing	P	Wood	white	>9.9	QM
034	C	Window	Lft	Sill	P	Wood	white	>9.9	QM
Interior Room 007 Bedroom 2									
036	A	Window	Lft	Casing	P	Wood	white	>9.9	QM
039	A	Window	Lft	Stop	P	Wood	white	>9.9	QM
041	A	Window	Lft	Blind Stop	P	Wood	white	3.2	QM
038	A	Window	Lft	Apron	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/cm²)	Mode
037	A	Window	Lft	Sill	P	Wood	white	>9.9	QM
045	C	Closet	Rgt	Floor	P	Wood	gray	1.7	QM
044	C	Closet	Rgt	Wall	P	Plaster	blue	1.0	TC
Interior Room 010 Bedroom 4									
051	-	Ceiling	Ctr		P	Plaster	beige	7.8	QM
047	A	Wall	Ctr		P	Plaster	beige	6.6	QM
056	A	Closet	Rgt	Door	P	Wood	beige	>9.9	QM
	no access to interior, bed blocks closet.								
057	A	Closet	Rgt	Door Casing	P	Wood	beige	>9.9	QM
058	A	Closet	Rgt	Door Jamb	P	Wood	beige	>9.9	QM
049	C	Wall	Ctr		P	Plaster	blue	6.4	QM
050	D	Wall	Ctr		P	Plaster	blue	9.1	QM
052	D	Window	Ctr	Casing	P	Wood	beige	>9.9	QM
054	D	Window	Ctr	Stop	P	Wood	beige	>9.9	QM
053	D	Window	Ctr	Sill	P	Wood	beige	>9.9	QM
Interior Room 011 Hallway									
064	-	Stairs	Ctr	Stringers	P	Wood	brown	>9.9	QM
061	D	Baseboard	Ctr		P	Wood	blue	>9.9	QM
Calibration Readings									

---- End of Readings ----

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

Inspection Date:	07/11/14	9 Cottage Place
Report Date:	7/11/2014	Bridgeport, CT
Abatement Level:	1.0	
Report No.	S#02753 - 07/11/14 12:37	
Total Readings:	67	
Job Started:	07/11/14 12:37	
Job Finished:	07/11/14 15:03	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Facade A									
010	A	Foundation	Ctr		P	Brick	gray	-0.2	QM
011	A	Window	Ctr	Blind Stop	P	Wood	white	2.0	QM
Exterior Room 002 Facade B									
013	B	Foundation	Ctr		P	Brick	gray	0.2	QM
012	B	Window	Ctr	Blind Stop	P	Wood	white	1.8	QM
Exterior Room 003 Facade C									
004	C	Facade under vinyl siding	Ctr		P	Wood	beige	>9.9	QM
005	C	Foundation	Ctr		P	Brick	gray	0.1	QM
006	C	Window	Ctr	Blind Stop	P	Wood	beige	1.7	QM
Exterior Room 004 Facade D									
008	D	Foundation	Ctr		P	Brick	gray	0.1	QM
009	D	Window	Lft	Sill	P	Wood	white	0.4	QM
007	D	Window	Ctr	Blind Stop	P	Wood	white	3.7	QM
Interior Room 001 Basement									
027	-	Stringer Exposed area in doorway from kitchen	Ctr		P	Wood	beige	1.6	QM
017	-	Stairs	Ctr	Handrail	P	Wood	white	-0.1	QM
014	A	Wall	Ctr		P	Stone	white	0.1	QM
016	C	Stairs	Ctr	Wall	P	Dry wall	No Paint	-0.2	QM
018	C	Stairs	Rgt	Door Casing	P	Wood	beige	4.9	QM
015	D	Electrical p	Rgt	Wall	P	Wood	black	-0.5	QM
Interior Room 002 Foyer									
019	A	Door	Rgt	Jamb	P	Wood	beige	-0.2	QM
Interior Room 003 Kitchen									
023	A	Basement Doo	Lft		P	Wood	white	>9.9	QM
024	A	Basement Doo	Lft	Jamb	P	Wood	white	>9.9	QM
025	A	Basement Doo	Lft	Threshold	P	Wood	varnish	-0.3	QM
026	A	Basement Doo	Lft	Stop	P	Wood	beige	>9.9	QM
022	B	Window	Lft	Sill	P	Wood	white	>9.9	QM
020	C	Door	Lft	Casing	P	Wood	white	-0.1	QM
021	C	Door	Lft	Jamb	P	Wood	white	-0.3	QM
Interior Room 004 Bathroom 1									
028	B	Door	Ctr	Jamb	P	Wood	white	>9.9	QM

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

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
029	B	Door	Ctr	Stop	P	Wood	white	>9.9	QM
Interior Room 005 Bedroom 1									
030	B	Door	Rgt	Casing	P	Wood	white	>9.9	QM
031	B	Door	Rgt	Jamb	P	Wood	white	2.7	QM
032	B	Door	Rgt	Stop	P	Wood	white	>9.9	QM
035	B	Closet	Rgt	Wall	P	Concrete	white	-0.1	QM
033	C	Window	Lft	Casing	P	Wood	white	>9.9	QM
034	C	Window	Lft	Sill	P	Wood	white	>9.9	QM
Interior Room 007 Bedroom 2									
043	-	Floor	Ctr		P	Wood	varnish	0.2	QM
036	A	Window	Lft	Casing	P	Wood	white	>9.9	QM
039	A	Window	Lft	Stop	P	Wood	white	>9.9	QM
041	A	Window	Lft	Blind Stop	P	Wood	white	3.2	QM
042	A	Window	Lft	Ext. Sash	P	Wood	white	-0.1	QM
040	A	Window	Lft	Well	P	Wood	white	0.0	QM
038	A	Window	Lft	Apron	P	Wood	white	>9.9	QM
037	A	Window	Lft	Sill	P	Wood	white	>9.9	QM
046	C	Closet	Rgt	Door Thresh	P	Wood	gray	-0.1	QM
045	C	Closet	Rgt	Floor	P	Wood	gray	1.7	QM
044	C	Closet	Rgt	Wall	P	Plaster	blue	1.0	TC
Interior Room 010 Bedroom 4									
059	-	Floor	Ctr		P	Wood	varnish	0.2	QM
051	-	Ceiling	Ctr		P	Plaster	beige	7.8	QM
047	A	Wall	Ctr		P	Plaster	beige	6.6	QM
056	A	Closet	Rgt	Door	P	Wood	beige	>9.9	QM
no access to interior, bed blocks closet.									
057	A	Closet	Rgt	Door Casing	P	Wood	beige	>9.9	QM
058	A	Closet	Rgt	Door Jamb	P	Wood	beige	>9.9	QM
048	B	Wall	Ctr		P	Dry wall	blue	-0.1	QM
049	C	Wall	Ctr		P	Plaster	blue	6.4	QM
050	D	Wall	Ctr		P	Plaster	blue	9.1	QM
052	D	Window	Ctr	Casing	P	Wood	beige	>9.9	QM
054	D	Window	Ctr	Stop	P	Wood	beige	>9.9	QM
055	D	Window	Ctr	Sash	P	Wood	beige	-0.3	QM
053	D	Window	Ctr	Sill	P	Wood	beige	>9.9	QM
Interior Room 011 Hallway									
060	-	Floor	Ctr		P	Wood	varnish	0.1	QM
064	-	Stairs	Ctr	Stringers	P	Wood	brown	>9.9	QM
062	-	Stairs	Ctr	Treads	P	Wood	brown	-0.1	QM
063	-	Stairs	Ctr	Risers	P	Wood	brown	0.2	QM
061	D	Baseboard	Ctr		P	Wood	blue	>9.9	QM
Calibration Readings									
001								0.9	TC
002								1.0	TC

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

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
003								0.9	TC
065								0.9	TC
066								1.0	TC
067								1.0	TC

---- End of Readings ----

APPENDIX 5

LEAD DUST AND SOIL SAMPLE LABORATORY REPORTS

OrderID: 031426996 031426996

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

www.emsl.com

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 #:**	14-028.12T18
Project Location:	9 Cottage Place, 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 Characterizaton
- ☐ 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)	7-11-K1-01	7-11-K1-10	**TOTAL SAMPLE #**	10	
Relinquished:	[signature]	**Date:**	7-11-14	**Time:**	PM
Received:		**Date:**	7/11/14	**Time:**	
Relinquished:		**Date:**		**Time:**	
Received:	José Arriaga	**Date:**	7-12-14	**Time:**	10:27 AM

Page 1

OrderID: 031426996

031426996

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 38th 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

www.emsl.com

SAMPLE NUMBER	SAMPLE DESCRIPTION		ROOM or LOCATION	VOLUME Air (L)	Area (Inches sq.)
7-11-K1-01	Floor at entry		Foyer		144
7-11-K1-02	Window well		Living Rm		3X26
7-11-K1-03	Floor at rear entry		Kitchen		144
7-11-K1-04	window sill		↓		3X3
7-11-K1-05	Floor		bed 2		144
7-11-K1-06	window sill		Bed 2		3X24
7-11-K1-07	Floor		bed 3		144
7-11-K1-08	Window well		bed 3		3X26
7-11-K1-09	Blank		—	—	—
7-11-K1-10	Blank		—	—	—
Reid Flemings 7-12-14, 10:27 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

EMSL Order:	031426996
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:	07/12/14 10:27 AM
Collected:	7/11/2014

Project: **14-028.17T18/ CAPITAL STUDIO ARCHITECTS/ ENVIRONMENTAL REVIEW/ 9 COTTAGE PLACE/ BRIDGEPORT**

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Area Sampled*	*Lead Concentration*
7-11-K1-01	*0001*	7/11/2014	7/14/2014	144 in²	10 µg/ft²
	Site: FLOOR AT ENTRY Desc: FOYER				
7-11-K1-02	*0002*	7/11/2014	7/14/2014	78 in²	440 µg/ft²
	Site: WINDOW WELL Desc: LIVING RM				
7-11-K1-03	*0003*	7/11/2014	7/14/2014	144 in²	<10 µg/ft²
	Site: FLOOR AT REAR ENTRY Desc: KITCHEN				
7-11-K1-04	*0004*	7/11/2014	7/14/2014	105 in²	20 µg/ft²
	Site: WINDOW SILL Desc: KITCHEN				
7-11-K1-05	*0005*	7/11/2014	7/14/2014	144 in²	<10 µg/ft²
	Site: FLOOR Desc: BED 2				
7-11-K1-06	*0006*	7/11/2014	7/14/2014	72 in²	190 µg/ft²
	Site: WINDOW SILL Desc: BED 2				
7-11-K1-07	*0007*	7/11/2014	7/14/2014	144 in²	26 µg/ft²
	Site: FLOOR Desc: BED 3				
7-11-K1-08	*0008*	7/11/2014	7/14/2014	78 in²	180 µg/ft²
	Site: WINDOW WELL Desc: BED 3				
7-11-K1-09	*0009*	7/11/2014	7/14/2014	n/a	<10 µg/wipe
	Site: BLANK				
7-11-K1-10	*0010*	7/11/2014	7/14/2014	n/a	<10 µg/wipe
	Site: BLANK				

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 07/14/2014 12:14:10

OrderID: 031426995

031426995

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

www.emsl.com

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 #:**	14-028.12T18
Project Location:	9 Cottage Place, Bridgeport	**Project State (US):**	CT

Soil

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 Characterizaton
- ☐ 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): 7-11-K1-S0[illegible] **TOTAL SAMPLE #:** 1

Relinquished:	[signature]	**Date:**	7-11-14	**Time:** PM
Received:	[signature]	**Date:**	7/11/14	**Time:** PM
Relinquished:	[signature]	**Date:**	7/11/14	**Time:** PM
Received:	José Arriaga José Arriaga	**Date:**	7-12-14	**Time:** 10:27 AM

Page 1

OrderID: 031426995

031426995

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 38th 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

www.emsl.com

SAMPLE NUMBER	SAMPLE DESCRIPTION	ROOM or LOCATION	VOLUME Air (L)	Area (Inches sq.)
7-11 K1-Soil-1	Bare soil under deck	C side		
Rec'd [illegible] 7-12-14, 10:27 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

EMSL Order:	031426995
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:	07/12/14 10:27 AM
Collected:	7/11/2014

Project: **14-028.17T18/ CAPITAL STUDIO ARCHITECTS/ ENVIRONMENTAL REVIEW/ 9 COTTAGE PLACE/ BRIDGEPORT**

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Lead Concentration*
7-11-K1-SOIL-1	*0001*	7/11/2014	7/15/2014	600 mg/Kg
Site: BARE SOIL UNDER DECK/ C 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 07/15/2014 09:58:56

APPENDIX 6

RADON TESTING REPORTS

RADON TESTING NOT PERFORMED

The structure is proposed to be elevated with the lowest level of the building not in contact with the ground.

APPENDIX 7

MOLD INSPECTION FORMS

EAGLE Environmental, Inc.

MOLD OBSERVATION FORM

Eagle Project No: 14-028.d2H8 Date: 7-11-14 Inspector: Andrew Cahecke

Facility Address: 9 Cottage Place, Bridgeport

Location	Observation	Sample Number
001	The wood beams are inspected	
	no mold spores or	
	water damage visually	
	evident.	
	The drywall located at	
	basement stairs shows no	
	sign of mold growth	
	windows in basement appear	
	to have been replaced, no	
	mold growth visible on	
	new woodcasing.	

EAGLE Environmental, Inc.

MOLD MOISTURE READING FORM

Eagle Project No: 14-028.01ZHB Date: 7-11-14 Inspector: Andrew Carlevale

Facility Address: 9 Cottage Place, Bridgeport

MOISTURE MODE						
ROOM	COMPONENT	SUBSTRATE	REL. SURFACE MOISTURE	DRY	AT RISK	WET
001	Ceiling beam	Wood	4.3	✓		
	Ceiling beam	Wood	15.3	✓		
	Ceiling beam	Wood	14.3	✓		
	Ceiling beam	Wood	17.0	✓		
	door casing	Wood	10.2	✓		
	window casing	Wood	2.9	✓		
	Wall	drywall	9.4	✓		
	Wall	drywall	9.7	✓		
	Stair tread	Wood	11.1	✓		
	Ceiling beam	Wood	13.5	✓		

HYGROMETER MODE				
TIME	ROOM	% RELATIVE HUMIDITY	AIR TEMP.	DEW POINT TEMP.
11:00 AM	001	52.9	79.2°F	60.1°F

APPENDIX 8

ABATEMENT AND CONSULTING COST ESTIMATE

HAZARDOUS MATERIALS ABATEMENT COST ESTIMATES
APPLICATION NO. 2372
9 COTTAGE PLACE
BRIDGEPORT, CONNECTICUT

ASBESTOS REMOVAL COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
CHIMNEY FLUE CEMENT	1	$ 950.00 EACH	$ 950.00
SUBTOTAL			$ 950.00
ASBESTOS REMOVAL CONTINGENCY			$ 190.00
ASBESTOS REMOVAL TOTAL			**$ 1,140.00**

LEAD BASED PAINT COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
LEAD-BASED PAINT CONTINGENCY	1	$ 9,350.00 EACH	$ 9,350.00
SUBTOTAL			$ 9,350.00
LEAD RENOVATION CONTINGENCY			$ 1,870.00
LEAD RENOVATION TOTAL			**$ 11,220.00**
SUBTOTAL			$ 12,360.00
CONSULTING			$ 1,236.00
CONSULTING TOTAL			**$ 13,596.00**

GRAND TOTAL **$ 14,736.00**

APPENDIX 9

EAGLE ENVIRONMENTAL, INC. LICENSES

AND LABORATORY CERTIFICATES

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.
001726
CURRENT THROUGH
04/30/16
VALIDATION NO.
03-794089

SIGNATURE

COMMISSIONER

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 - 149 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. Eident, 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 Date: 1/2/2014 Examination Grade: 88%
Examination Date: 1/2/2014 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

SIGNATURE

COMMISSIONER

Environmental Training and Assessment

Certificate of Completion

Lead Planner-Project Designer — Refresher

Awarded To

Kristen Liljehult
8 South Main Street
Terryville, CT 06786

Has successfully completed, and passed an examination covering the contents of the Eight (8) Hour Refresher Training Course for Lead Planner-Project Designer 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.

Course Date: 1/15/2014 Examination Grade: 91%
Examination Date: 1/15/2014 Certificate Number: LPPDR-00168
Expiration Date: 1/15/2015

Stephen Craig

Stephen J. Craig, Training Manager

Boston Lead Company, LLC
dba
Environmental Training and Assessment
62 Washington Street
Middletown, CT 06426
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 PLANNER/PROJECT DESIGNER

CERTIFICATION NO.
002153
CURRENT THROUGH
12/31/14
VALIDATION NO.
03-715184

KRISTEN P LILJEHULT

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 38th 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 OR 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 4th DAY OF October, 2012

Registration No.

PH-0170

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION