



EAGLE Environmental, Inc.

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

March 2, 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
8 Knorr Street
Norwalk, Connecticut 06512
Application #1217
Eagle Project No. 14-028.12T19**

Dear Mr. Holmes:

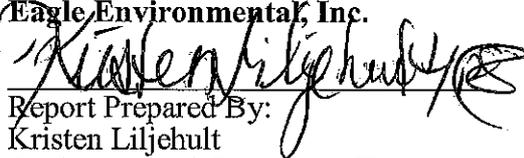
Please find the attached Environmental Assessment Report conducted at 8 Knorr Street located in Norwalk, Connecticut (Site). The environmental assessment was performed in support of the planned renovations/repairs to the Site building under the State of Connecticut Department of Housing Community Development 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).

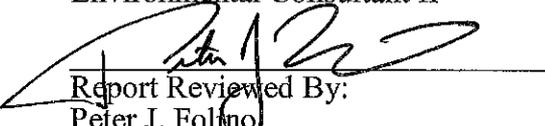
Please do not hesitate to contact Eagle Environmental, Inc. if you have any questions regarding the contents of this report.

Sincerely,

~~Eagle Environmental, Inc.~~


Report Prepared By:

Kristen Liljehult
Environmental Consultant II


Report Reviewed By:

Peter J. Folino
Project Manager

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1. INTRODUCTION

On August 5, 2014, Eagle Environmental, Inc. conducted an environmental assessment of portions of the site building located at 8 Knorr Street in Norwalk, Connecticut. The scope of the environmental assessment included an inspection for asbestos-containing materials, a lead-based paint screen and a visual inspection for microbial contamination.

1.1 Inspection Area Description

The inspection area included those areas of the building that will be impacted by planned renovation work. The areas of inspection are determined by reviewing the planned renovation work provided in CSA's Project Scope dated June 9, 2014. For the purpose of this project the following areas were inspected:

- Throughout interior
- Crawlspace
- 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 Detailed 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 Hannah Hintz; a State of Connecticut licensed Asbestos Inspector (license #000816).

2.2 Lead-based Paint

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

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

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

f. Provide notice of lead-hazard reduction within 15 days of completion of work.

The lead-based paint hazard screen was performed by 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, towed or otherwise applied to an existing surface. These applications are most commonly used in fireproofing, decorative, and acoustical applications. Miscellaneous materials include all ACM not listed in thermal or surfacing, such as linoleum, vinyl asbestos flooring, and ceiling tile.

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

3.1.3 Bulk Sample Analysis

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

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

3.1.3.1 Friable ACM Analysis

Certain samples of friable materials shown to contain less than 10% asbestos are analyzed further by the "Point Count Method". This procedure is recommended by the United States Environmental Protection Agency to confirm friable bulk samples shown to have less than 10% asbestos by PLM to be definitively negative or positive for asbestos. This method is accepted as providing statistically reliable results when analyzing bulk samples with very low asbestos concentrations. Friable materials containing "Trace" or "less than one percent (1%)" asbestos must be analyzed by the PLM Point Count Method. No samples were further analyzed by the PLM Point Count Method for the 8 Knorr Street in Norwalk, 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 8 Knorr Street in Norwalk, 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 hazard 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/cm². 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 ≥ 1.0 mg/cm² 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-eight (28) bulk samples of suspect ACM were collected and analyzed by PLM analysis. The sampled materials were confirmed to be non-ACM.

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

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

4.2 Lead-based Paint

A copy of this lead-hazard screen report must be provided to residence within fifteen (15) days of the evaluation. A total of thirty-four (34) XRF readings were collected during the lead-based paint hazard screen of the building. From the thirty-four (34) readings, five (5) of them were found to contain toxic levels of lead-based paint.

The lead-based paint that was identified at the time of inspection was located in the room between the garage and the dwelling unit (identified as Mudroom 003 on inspection report). As the garage is becoming a detached garage, the lead-based paint identified on the door jamb and door jamb stop will be removed during renovations.

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

The U.S. Department of Labor Occupation Safety and Health Administration (OSHA) regulates lead dust exposure to workers in the construction industry under 29 CFR 1926.62 Lead Exposure in Construction; Interim Final Rule. Currently, OSHA does not define a threshold level of lead in paint that may cause worker exposure. Any detectable level of lead in paint ($>0.0 \text{ mg/cm}^2 \pm 0.3 \text{ mg/cm}^2$ by XRF or $>0.01 \%$ by AAS) requires task specific exposure monitoring. Contractors performing lead disturbing tasks on this project must comply with the OSHA Lead in Construction Standard.

4.2.1 Dust Hazards

A total of ten (10) dust wipes were collected at the time of inspection. No dust-lead hazards were identified at the sampled locations. Eagle Environmental, Inc. recommends that the residents continue to follow their regular cleaning regimen.

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

4.2.2 Soil Hazards

No soil samples were collected at the time of inspection as there were no bare areas of soil identified. The homeowner should maintain the grounds in their current condition.

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 High (48%). 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 water staining in the corner of the living room ceiling. The homeowner advised that the leak was from an A/C window unit in Bedroom 2 (013) that was improperly installed.

There were no other visible signs of water intrusion, water staining or odors throughout the site.

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 KNORR STREET
 NORWALK, CONNECTICUT

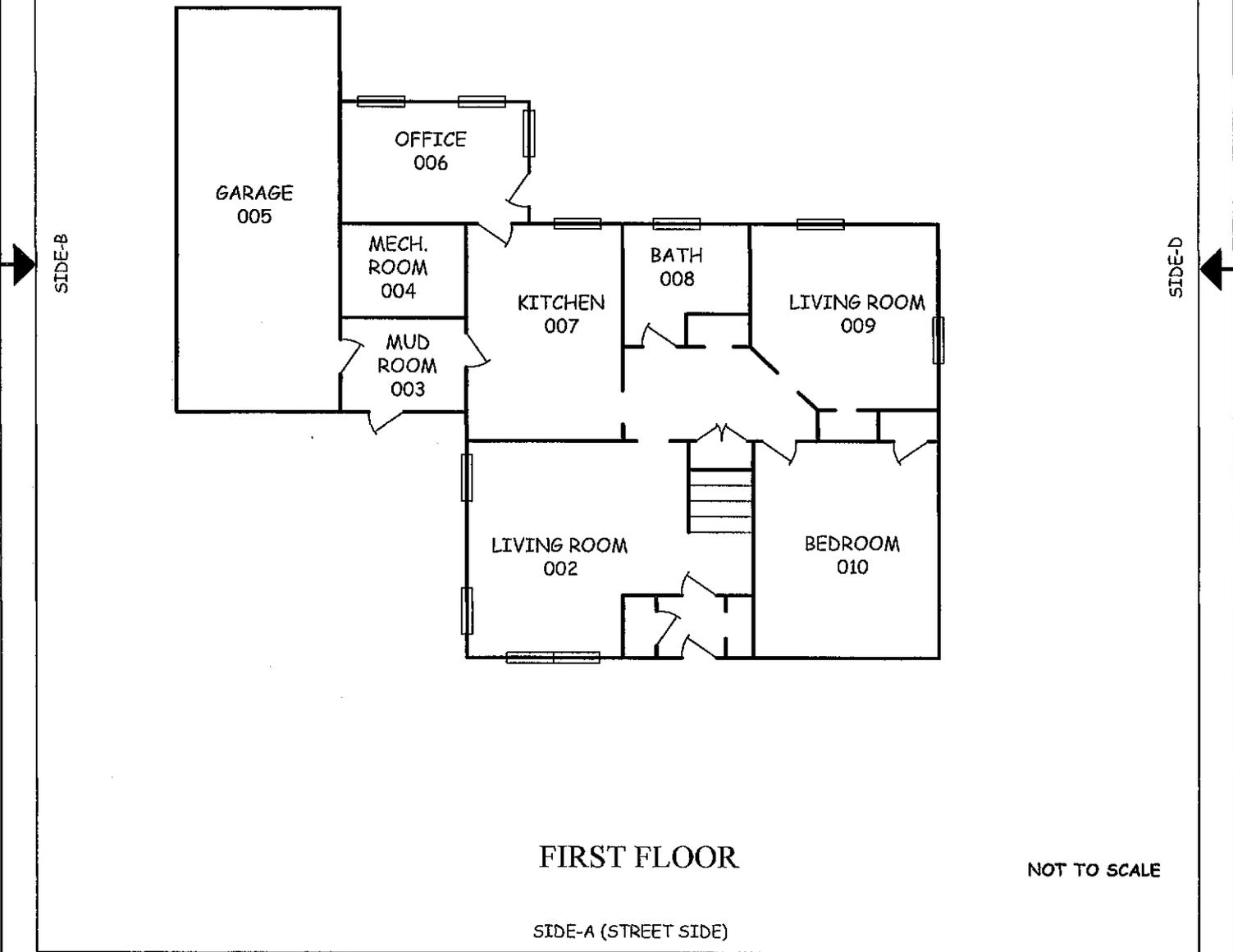
LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	PLM	PLM PC	TEM NOB	ACM	ESTIMATED QUANTITY	F/NF
NO ACM IDENTIFIED IN THIS SCOPE OF WORK									
KEY									
DNA = DID NOT ANALYZE		SF = SQUARE FEET		ANALYTICAL METHODS					
NAD = NO ASBESTOS DETECTED		LF = LINEAR FEET		PLM PC = EPA 600/R-93/116 QUANTITATION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

TABLE II

NON ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE

APPENDIX 1
FLOOR PLANS

SIDE-C



FIRST FLOOR

NOT TO SCALE

SIDE-A (STREET SIDE)



EAGLE
Environmental, Inc.

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

SHEET NO.

FP-1

SHEET 1 OF 2

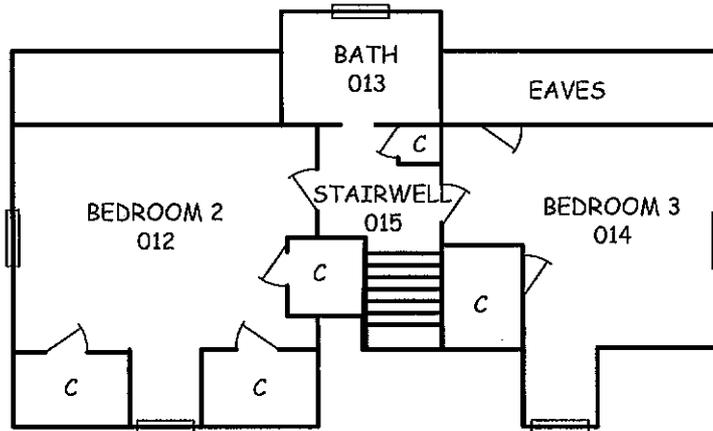
DATE: 03/2/2015
PROJECT NO.: 14-028.12T19
DRAWN BY: VB
REVIEWED BY: AH

ENVIRONMENTAL REVIEW
8 KNORR STREET
NORWALK, CONNECTICUT

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

SHEET NO.

FP-2

SHEET 2 OF 2

DATE: 03/2/2015
PROJECT NO.: 14-028.12T19
DRAWN BY: VB
REVIEWED BY: AH

ENVIRONMENTAL REVIEW
8 KNORR STREET
NORWALK, CONNECTICUT

APPENDIX 2

ASBESTOS BULK SAMPLE LABORATORY REPORTS

031430319



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

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, rsoch@eagleenviro.com
Project Name: CSA Super Storm Sandy **Project #:** 14-028.12T19
Project Location: 8 Knorr St., Norwalk **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 AOC 5.009 (974.02)
- Wastewater, SW 846-7420
- TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption

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

ICP - Inductively Coupled Plasma

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

MATERIALS ANALYSIS

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

MICROBIAL ANALYSIS

Air Samples

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

Water Samples

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

Wipe and Bulk Samples

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

IAQ ANALYSIS

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

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

Client Sample # (S)	8-5-HH-01	8-5-HH-28	TOTAL SAMPLE #	28
Relinquished:	HANNAH HINTZ <i>Hannah Hintz</i>	Date: 8-5-2014	Time: PM	
Received:	NANCY PORTER <i>Nancy Porter</i>	Date: 8-5-2014	Time: PM	
Relinquished:	NANCY PORTER <i>Nancy Porter</i>	Date: 8-5-2014	Time: PM	
Received:	<i>[Signature]</i>	Date: 8/6/14	Time: 10:44 AM	

031430319



www.emsl.com

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

SAMPLE NUMBER	SAMPLE DESCRIPTION	ROOM or LOCATION	VOLUME Air (L)	Area (Inches sq.)
8-5-HH-01	Black vapor barrier paper under hardwood flooring	Crawl spac		NSAD
8-5-HH-02	Black vapor barrier paper under hardwood flooring	Crawl spac		
8-5-HH-03	Bwn vapor barrier paper under new hardwood floor	Crawl spac		
8-5-HH-04	Bwn vapor barrier paper under new hardwood floor	Crawl spac		
8-5-HH-05	Skim coat plaster	Rm 002		
8-5-HH-06	Skim coat plaster	Rm 009		
8-5-HH-07	Skim coat plaster	Rm 015		
8-5-HH-08	Rough coat plaster	Rm 002		
8-5-HH-09	Rough coat plaster	Rm 009		
8-5-HH-10	Rough coat plaster	Rm 015		
8-5-HH-11	Textured ceiling paint	Rm 002		
8-5-HH-12	Textured ceiling paint	Rm 002		
8-5-HH-13	Textured ceiling paint	Rm 002		
8-5-HH-14	Sheetrock at walls	Rm 010		
8-5-HH-15	Sheetrock at walls	Rm 007		
8-5-HH-16	Joint compound at walls	Rm 010		
8-5-HH-17	Joint compound at walls	Rm 007		
8-5-HH-18	Sheetrock/joint compound composite	Rm 010		
8-5-HH-19	Sheetrock/joint compound composite	Rm 007		
8-5-HH-20	Cement board on walls	Rm 004		
8-5-HH-21	Cement board on walls	Rm 004		
8-5-HH-22	Rough coat plaster over sheetrock	Rm 004		
8-5-HH-23	Rough coat plaster over sheetrock	Rm 004		
8-5-HH-24	Rough coat plaster over sheetrock	Rm 003		

**EMSL Analytical, Inc.**

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EMSL Order: 031430319
 CustomerID: EEVM50
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 ProjectID:

Attn: **Brandy LeBlanc**
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8 South Main Street
Suite 3
Terryville, CT 06786

Phone: (860) 589-8257
 Fax: (860) 585-7034
 Received: 08/06/14 10:44 AM
 Analysis Date: 8/7/2014
 Collected: 8/5/2014

Project: 14-028.12T19/ CSA SUPER STORM SANDY/ 8 KNORR ST./ NORWALK, CT

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
8-5-HH-01 031430319-0001	CRAWL SPACE / BLACK VAPOR BARRIER PAPER UNDER - HARDWOOD FLOORING	Black Fibrous Homogeneous	80% 10%	Cellulose Synthetic	10% Non-fibrous (other) None Detected
8-5-HH-02 031430319-0002	CRAWL SPACE / BLACK VAPOR BARRIER PAPER UNDER - HARDWOOD FLOORING	Brown/Black Fibrous Homogeneous	85%	Cellulose	5% Ca Carbonate 10% Non-fibrous (other) None Detected
8-5-HH-03 031430319-0003	CRAWL SPACE / BWN VAPOR BARRIER PAPER UNDER NEW - HARDWOOD FLOOR	Pink Fibrous Homogeneous	100%	Cellulose	0% Non-fibrous (other) None Detected
8-5-HH-04 031430319-0004	CRAWL SPACE / BWN VAPOR BARRIER PAPER UNDER NEW - HARDWOOD FLOOR	Brown Fibrous Homogeneous	98%	Cellulose	2% Non-fibrous (other) None Detected
8-5-HH-05 031430319-0005	RM 002 / SKIM COAT PLASTER	White Non-Fibrous Homogeneous			99% Ca Carbonate 1% Non-fibrous (other) None Detected
8-5-HH-06 031430319-0006	RM 009 / SKIM COAT PLASTER	White Non-Fibrous Homogeneous			100% Ca Carbonate 0% Non-fibrous (other) None Detected

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Initial report from 08/07/2014 02:19:21

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Project: 14-028.12T19/ CSA SUPER STORM SANDY/ 8 KNORR ST./ NORWALK, CT

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
8-5-HH-07 <i>031430319-0007</i>	RM 015 / SKIM COAT PLASTER	White Non-Fibrous Homogeneous		20% Gypsum 62% Ca Carbonate 18% Non-fibrous (other)	None Detected
8-5-HH-08 <i>031430319-0008</i>	RM 002 / ROUGH COAT PLASTER	Tan/Variou Non-Fibrous Homogeneous	10% Cellulose	80% Quartz 10% Ca Carbonate 0% Non-fibrous (other)	None Detected
8-5-HH-09 <i>031430319-0009</i>	RM 009 / ROUGH COAT PLASTER	Tan/Variou Non-Fibrous Homogeneous		70% Quartz 10% Ca Carbonate 20% Non-fibrous (other)	None Detected
8-5-HH-10 <i>031430319-0010</i>	RM 015 / ROUGH COAT PLASTER	Tan Non-Fibrous Heterogeneous		60% Quartz 2% Mica 38% Non-fibrous (other)	None Detected
8-5-HH-11 <i>031430319-0011</i>	RM 002 / TEXTURED CEILING PAINT	White Non-Fibrous Homogeneous		1% Mica 95% Ca Carbonate 4% Non-fibrous (other)	None Detected
8-5-HH-12 <i>031430319-0012</i>	RM 002 / TEXTURED CEILING PAINT	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (other)	None Detected
8-5-HH-13 <i>031430319-0013</i>	RM 002 / TEXTURED CEILING PAINT	White Non-Fibrous Homogeneous		60% Ca Carbonate 40% Non-fibrous (other)	None Detected
8-5-HH-14 <i>031430319-0014</i>	RM 010 / SHEETROCK AT WALLS	White Non-Fibrous Homogeneous		1% Mica 90% Gypsum 9% Non-fibrous (other)	None Detected

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Project: 14-028.12T19/ CSA SUPER STORM SANDY/ 8 KNORR ST./ NORWALK, CT

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
8-5-HH-15 031430319-0015	RM 007 / SHEETROCK AT WALLS	White Non-Fibrous Homogeneous		55% Gypsum 30% Ca Carbonate 15% Non-fibrous (other)	None Detected
8-5-HH-16 031430319-0016	RM 010 / JOINT COMPOUND AT WALLS	White Non-Fibrous Homogeneous	2% Cellulose	<1% Mica 80% Ca Carbonate 18% Non-fibrous (other)	None Detected
8-5-HH-17 031430319-0017	RM 007 / JOINT COMPOUND AT WALLS	White Non-Fibrous Homogeneous		75% Ca Carbonate 25% Non-fibrous (other)	None Detected
8-5-HH-18 031430319-0018	RM 010 / SHEETROCK/JOINT COMPOUND COMPOSITE	White Non-Fibrous Homogeneous		50% Gypsum 40% Ca Carbonate 10% Non-fibrous (other)	None Detected
8-5-HH-19 031430319-0019	RM 007 / SHEETROCK/JOINT COMPOUND COMPOSITE	White Non-Fibrous Heterogeneous		25% Gypsum 55% Ca Carbonate 20% Non-fibrous (other)	None Detected
8-5-HH-20 031430319-0020	RM 004 / CEMENT BOARD ON WALLS	Tan Non-Fibrous Homogeneous		80% Ca Carbonate 20% Non-fibrous (other)	None Detected
8-5-HH-21 031430319-0021	RM 004 / CEMENT BOARD ON WALLS	Tan Non-Fibrous Homogeneous		25% Ca Carbonate 30% Perlite 45% Non-fibrous (other)	None Detected
8-5-HH-22 031430319-0022	RM 004 / ROUGH COAT PLASTER OVER SHEETROCK	Gray/Tan Non-Fibrous Homogeneous		45% Quartz 50% Gypsum 5% Non-fibrous (other)	None Detected

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Project: 14-028.12T19/ CSA SUPER STORM SANDY/ 8 KNORR ST./ NORWALK, CT

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
8-5-HH-23 031430319-0023	RM 004 / ROUGH COAT PLASTER OVER SHEETROCK	Gray/Tan Non-Fibrous Homogeneous		65% Quartz 30% Gypsum 5% Non-fibrous (other)	None Detected
8-5-HH-24 031430319-0024	RM 003 / ROUGH COAT PLASTER OVER SHEETROCK	Tan Non-Fibrous Heterogeneous		65% Quartz 3% Mica 32% Non-fibrous (other)	None Detected
8-5-HH-25 031430319-0025	FAC C /BLACK VAPOR BARRIER PAPER UNDER WOOD SIDING	Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
8-5-HH-26 031430319-0026	FAC D /BLACK VAPOR BARRIER PAPER UNDER WOOD SIDING	Black Fibrous Homogeneous	72% Cellulose	13% Ca Carbonate 15% Non-fibrous (other)	None Detected
8-5-HH-27 031430319-0027	FAC B / WHITE CAULK AT BASEMENT WINDOW	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
8-5-HH-28 031430319-0028	FAC B / WHITE CAULK AT BASEMENT WINDOW	White Non-Fibrous Homogeneous	2% Cellulose	70% Matrix 28% Non-fibrous (other)	None Detected
8-5-HH-29 031430319-0029	RM 004 / GYPSUM BOARD AT WALLS AND CEILING	Gray Non-Fibrous Homogeneous	10% Cellulose	90% Gypsum 0% Non-fibrous (other)	None Detected

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Project: 14-028.12T19/ CSA SUPER STORM SANDY/ 8 KNORR ST./ NORWALK, CT

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
8-5-HH-30 031430319-0030	RM 004 / GYPSUM BOARD AT WALLS AND CEILING	Brown/White Fibrous Homogeneous	8% Cellulose	45% Gypsum 47% Non-fibrous (other)	None Detected

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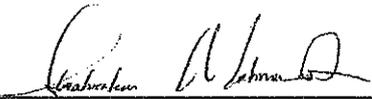
Project: 14-028.12T19/ CSA SUPER STORM SANDY/ 8 KNORR ST./ NORWALK, CT

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:: 8/6/2014 Sample Receipt Time: 10:44 AM
Analysis Completed Date: 8/7/2014 Analysis Completed Time: 1:38 AM

Analyst(s):



Shahrakur Mahmud PLM (13)

Yolanda Chow PLM (17)

Samples reviewed and approved by:



James Hall, Laboratory Manager
or other approved signatory

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APPENDIX 3

INTERIOR AND EXTERIOR VISUAL ASSESSMENT FORMS



EAGLE Environmental, Inc.

INTERIOR VISUAL ASSESSMENT FORM

Address: 8 Knorr Street, Norwalk

Room No: 003 Mud Room

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Floor	A B C D	(1) F P	Ceramic tile	
Wall	(A) (B) (C) (D)	(1) F P	Enclosed w/ vinyl siding	
Ceiling	A B C D	I F (P)	XRF	
Door	store (A) (B) (C) (D)	(1) F P		
Door Casing	(A) (B) (C) (D)	(1) F P	aluminum	
Door Jamb	(A) (B) (C) (D)	(1) F P		
Baseboard	A B C D	I F P		
Window Casing	(A) B C D	(1) F P	aluminum	
Window Stop	A B C D	I F P		
Window Jamb	A B C D	I F P	View	
Window Sash	A B C D	I F P	rep assembly	
Window Well	A B C D	I F P	Window	
Window Sill	A B C D	I F P		
Window Apron	A B C D	I F P		
Closet Door	A B C D	I F P		
Closet Door Casing	A B C D	I F P		
Closet Door Jamb	A B C D	I F P		
Closet Shelf	A B C D	I F P		
Shelf Support	A B C D	I F P		
Radiator	A B C D	I F P		
Crown Molding	A B C D	I F P		
Cabinet	A B C D	I F P		
Cabinet Door	A B C D	I F P		
Cabinet Frame	A B C D	I F P		
Upper trim	A B C D	(1) F P	aluminum	
Other displays	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		



EAGLE Environmental, Inc.

INTERIOR VISUAL ASSESSMENT FORM

Address: 8 Knorr Street, Norwalk

Room No: 005 Garage

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Floor	A B C D	I F P	Concrete unpainted	
Wall	A B C D	I F P	XRF	
Ceiling	A B C D	I F P	unpainted	
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		
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		
Closet Door Casing	A B C D	I F P		
Closet Door Jamb	A B C D	I F P		
Closet Shelf	A B C D	I F P		
Shelf Support	A B C D	I F P		
Radiator	A B C D	I F P		
Crown Molding	A B C D	I F P		
Cabinet	A B C D	I F P	XRF	
Cabinet Door	A B C D	I F P		
Cabinet Frame	A B C D	I F P		
Studs/joists overhead door	A B C D	I F P	unpainted	
	A B C D	I F P	dry!	
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		



EAGLE Environmental, Inc.

INTERIOR VISUAL ASSESSMENT FORM

Address: 8 Knorr Street, Norwalk

Room No: 007 Kitchen

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Floor	A B C D	(1) F P	laminated	
Wall	(A) (B) (C) (D)	(1) F P		
Ceiling	A B C D	(1) F P		
Door	A (B) C D	(1) F P		
Door Casing	A (B) (C) (D)	(1) F P		
Door Jamb	A (B) (C) (D)	(1) F P		
Baseboard	(A) (B) (C) (D)	(1) F P		
Window Casing	A B (C) D	(1) F P		
Window Stop	A B (C) D	(1) F P		
Window Jamb	A B C D	I F P	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	(1) F P		
Window Apron	A B (C) D	(1) F P		
Closet Door	A B C D	I F P		
Closet Door Casing	A B C D	I F P		
Closet Door Jamb	A B C D	I F P		
Closet Shelf	A B C D	I F P		
Shelf Support	A B C D	I F P		
Radiator	A B C D	I F P		
Crown Molding	A B C D	I F P		
Cabinet	(A) B C (D)	(1) F P		
Cabinet Door	(A) B C (D)	(1) F P		
Cabinet Frame	(A) B C (D)	(1) F P		
backsplash	(A) B C (D)	(1) F P	ceramic tile	
	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		



EAGLE Environmental, Inc.

INTERIOR VISUAL ASSESSMENT FORM

Address: 8 Knorr Street, Norwalk

Room No: 015 Stairwell

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Floor	A B C D	① F P	carpet	
Wall	① ② ③ ④	① F P		
Ceiling	A B C D	① F P	fiberboard 1x1 tiles	
Door	A B C D	I F P		
Door Casing	① ② ③ ④	① F P		
Door Jamb	A B C D	I F P		
Baseboard	① ② ③ ④	① 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 ④	① F P		
Closet Door Casing	A B C ④	① F P		
Closet Door Jamb	A B C ④	① F P		
Closet Shelf	A B C ④	① F P		
Shelf Support	A B C ④	① 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	① F P	3 carpet	
risers	A B C D	① F P		
stringer	A B C D	① F P		
handrail	A B C D	① F P	① F P	① F P
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		

APPENDIX 4

XRF LEAD-BASED PAINT INSPECTION REPORTS

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#02753 - 08/05/14 11:34

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

PERFORMED AT: 8 Knorr Street
Norwalk, Connecticut

INSPECTION DATE: 08/05/14

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: _____



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

Date: _____

8/5/14

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

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
025	-	Floor	Ctr		I	Wood	stain	-0.5	QM
021	-	Ceiling	Ctr		P	Dry wall	white	-0.7	QM
020	B	Wall	Ctr		P	Dry wall	white	-0.2	QM
026	B	Baseboard	Ctr		I	Wood	white	-0.1	QM
Interior Room 010 Bed Room 1									
027	-	Floor	Ctr		I	Wood	stain	-0.1	QM
028	C	Baseboard	Ctr		I	Wood	white	-0.2	QM
Calibration Readings									
001								1.0	TC
002								1.0	TC
003								1.0	TC
032								1.0	TC
033								1.0	TC
034								1.0	TC
----- End of Readings -----									

APPENDIX 5

LEAD DUST SAMPLE LABORATORY REPORTS



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

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

Company: Eagle Environmental, Inc.

Street: 8 South Main Street, Suite 3

City/State/Zip: Terryville, CT 06786

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

Project Name: Capital Studio Architects - Environmental Review **Project #:** 14-028.12T19

Project Location: 8 Knorr Street, Norwalk **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 783 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
 Chlps, 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

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:

MATERIALS ANALYSIS

Full Particle Identification
 Optical Particle Identification
 Dust Miles 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:

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)			TOTAL SAMPLE #
8/S KL 01	8/S KL 10		10
Relinquished:	<i>[Signature]</i>	Date: 8/5/14	Time: PM
Received:	<i>[Signature]</i>	Date: 8-5-14	Time: PM
Relinquished:	<i>[Signature]</i>	Date: 8-5-14	Time: PM
Received:	<i>[Signature]</i>	Date: 8/6/14	Time: 10:42AM

**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: 031430325
 CustomerID: EEVM50
 CustomerPO:
 ProjectID:

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

Phone: (860) 589-8257
 Fax: (860) 585-7034
 Received: 08/06/14 10:42 AM
 Collected: 8/5/2014

Project: 14-028.12T19/ CAPITAL STUDIO ARCHITECTS - ENVIRONMENTAL REVIEW/ 8 KNORR STREET, NORWALK, CT

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

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
8/5 KL 01 Site: LIVING ROOM/ FLOOR AT ENTRY	031430325-0001	8/5/2014	8/6/2014	144 in ²	<10 µg/ft ²
8/5 KL 02 Site: LIVING ROOM/ WINDOW SILL	031430325-0002	8/5/2014	8/6/2014	88.5 in ²	17 µg/ft ²
8/5 KL 03 Site: MUD ROOM/ FLOOR AT ENTRY	031430325-0003	8/5/2014	8/6/2014	144 in ²	<10 µg/ft ²
8/5 KL 04 Site: MUD ROOM/ WINDOW SILL	031430325-0004	8/5/2014	8/6/2014	60 in ²	39 µg/ft ²
8/5 KL 05 Site: OFFICE/ FLOOR AT ENTRY	031430325-0005	8/5/2014	8/6/2014	144 in ²	<10 µg/ft ²
8/5 KL 06 Site: OFFICE/ WINDOW WELL	031430325-0006	8/5/2014	8/6/2014	87 in ²	26 µg/ft ²
8/5 KL 07 Site: BED 3/ FLOOR	031430325-0007	8/5/2014	8/6/2014	144 in ²	<10 µg/ft ²
8/5 KL 08 Site: BED 3/ WINDOW WELL	031430325-0008	8/5/2014	8/6/2014	81 in ²	51 µg/ft ²
8/5 KL 09 Site: FIELD BLANK	031430325-0009	8/5/2014	8/6/2014	n/a	<10 µg/wipe
8/5 KL 10 Site: FIELD BLANK	031430325-0010	8/5/2014	8/6/2014	n/a	<10 µg/wipe

M. Apfeldorfer

Miron Apfeldorfer, Laboratory Manager
 or other approved signatory

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

* slight modifications to methods applied Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--ELLAP Accredited #102581, NYS ELAP 11506

Initial report from 08/06/2014 14:42:32

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 MOISTURE READING FORM

Eagle Project No: 14-028.12T19 Date: August 5, 2014 Inspector: K. Liljehu

Facility Address: 8 Knorr St. Norwalk, CT

MOISTURE MODE						
ROOM	COMPONENT	SUBSTRATE	REL. SURFACE MOISTURE	DRY	AT RISK	WET
002	Floor	Wood	11.9%	✓		
	Wall	Plaster	15.6%	✓		
	Baseboard	Wood	9.1%	✓		
004	Floor	Wood	10.5	✓		
	Wall	Plaster	13.1	✓		
	Baseboard	Wood	12.4	✓		
006	Floor	Wood	10.6	✓		
	Wall	Plaster	13.4	✓		
	Baseboard	Wood	10.6	✓		

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

APPENDIX 8

ABATEMENT AND CONSULTING COST ESTIMATE

HAZARDOUS MATERIALS ABATEMENT COST ESTIMATES

APPLICATION NO. 1217

8 KNORR STREET

NORWALK, CONNECTICUT

LEAD BASED PAINT COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
LEAD-BASED PAINT CONTINGENCY	1	\$ 3,500.00 EACH	\$ 3,500.00
SUBTOTAL			\$ 3,500.00
LEAD RENOVATION CONTINGENCY			\$ 700.00
LEAD RENOVATION TOTAL			\$ 4,200.00

HAZARDOUS MATERIALS ABATEMENT SUBTOTAL \$ 4,200.00

HAZARDOUS MATERIALS CONSULTING COST ESTIMATE

CONSULTING COST	QUANTITY	UNIT COST	TOTAL COST
HAZARDOUS MATERIALS CONSULTING CONTIN.	1	\$900.00 EACH	\$ 900.00
SUBTOTAL			\$ 900.00
CONSULTING CONTINGENCY			\$ 90.00
CONSULTING TOTAL			\$ 990.00

GRAND TOTAL \$ 5,190.00

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.
001728
CURRENT THROUGH
04/30/16
VALIDATION NO.
08-794089


SIGNATURE


COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

Hannah Hintz

has successfully completed the
Asbestos Site Inspector Refresher Training
Asbestos Accreditation Under TSCA Title II
40 CFR Part 763

conducted by

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

Gregory J. Morach
Principal Instructor
May 15, 2014
Date of Course
May 15, 2015
Expiration Date

Gregory J. Morach
Regional Manager
SIAR-4897
Certificate Number
May 15, 2014
Examination Date

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A
ASBESTOS CONSULTANT-INSPECTOR

HANNAH E HINTZ

CERTIFICATE NO.
000816

CURRENT THROUGH
06/30/16

VALIDATION NO.
03-912706

[Signature]
SIGNATURE

[Signature]
COMMISSIONER

ENVIRONMENTAL TRAINING AND ASSESSMENT

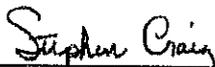
Certificate of Completion Lead Inspector/Risk Assessor — Refresher

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(e)(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 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

IN ACCORDANCE WITH 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. 002208
CURRENT THROUGH 12/31/14
VALIDATION NO. 03-715183

 SIGNATURE

 SIGNATURE

ENVIRONMENTAL TRAINING AND
ASSESSMENT

Certificate of Completion
Lead Planner-Project Designer — Refresher

Awarded To

Kristen Liljihult
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
KRISTEN P LILJEHULT
CERTIFICATION NO.
002153
CURRENT THROUGH
12/31/14
VALIDATION NO.
03-715184
Stephen J. Craig
SIGNATURE
Jessie Sullivan
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 33rd Street IN New York, NY 10018

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

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

ASBESTOS

Examination For:

- Bulk - Identification (PLM, TEM)
- AW - Fiber Counting (PCM, TEM)
- Water - TEM

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

Environmental Health & Housing

Examination For:

- Lead in Paint
- Lead Paint in Soil
- Lead in Dust Wipes

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION