APPENDIX "A"

ENVIRONMENTAL REVIEW REPORT

Community Development Block Grant – Disaster Recovery
Owner Occupied Rehabilitation and Rebuilding Program

Applicant #2161

9 Parker Street, Preston, CT

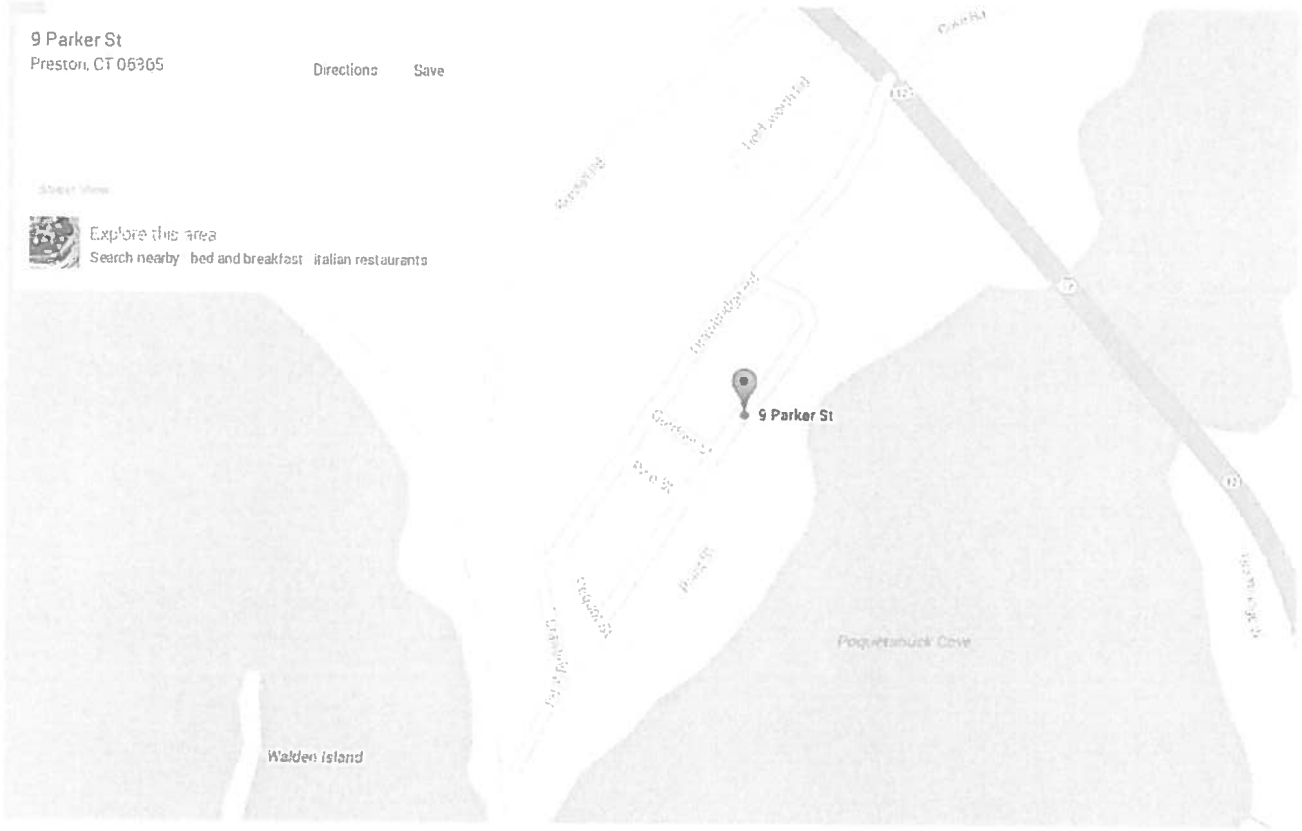
November 18, 2014

Prepared for:

Quisenberry Arcari Architects, LLC
318 Main Street
Farmington, Connecticut

Prepared by:

Stephen Ball
294 White Deer Rocks Road
Woodbury, Connecticut



Map data ©2014 Google 200 ft

Powered by Vision Government Solutions, Inc.

MBLU :	26-1/ PAR1/ 9/ / /
Location:	9 PARKER ST
Owner Name:	PERO ANDREA M & NICHOLAS
Account Number:	00206000

Parcel Value

Item	Appraised Value	Assessed Value
Buildings	83,300	58,300
Xtra Bldg Features	0	0
Outbuildings	300	200
Land	70,800	49,600
Total:	**154,400**	**108,100**

Owner of Record

PERO ANDREA M & NICHOLAS
9 PARKER ST
PRESTON, CT 06365

Ownership History

Owner Name	Book/Page	Sale Date	Sale Price
PERO ANDREA M & NICHOLAS	140/ 996	6/17/2003	142,000
TROMBLY SPENCER J ALISON B	0090/0816	7/11/1989	110,000
FOSTER MILNE BEVERLY	0090/0811	7/11/1989	0
TROMBLY SPENCER J + ALISON B	0074/0460	3/5/1985	14,000

Land Line Valuation

Size	Zone	Neighborhood	Appraised Value	Assessed Value
0.20 AC	R-40	0050	70,800	49,600

Construction Detail

Building # 1

STYLE Ranch	**Grade:** Average	**Stories:** 1 Story
Occupancy 1	**Exterior Wall 1** Wood Shingle	**Roof Structure:** Gable/Hip
Roof Cover Asph/F Gls/Cmp	**Interior Wall 1** Drywall/Sheet	**Interior Flr 1** Carpet
Heat Fuel Oil	**Heat Type:** Hot Water	**AC Type:** None
Total Bedrooms: 01	**Total Bthrms:** 1	**Total Half Baths:** 0
Total Rooms: 5	**Bath Style:** Average	**Kitchen Style:** Average

Building Valuation

Living Area: 904 square feet	**Replacement Cost:** 111,073	**Year Built:** 1956
Depreciation: 25%	**Building Value:** 83,300	

Extra Features

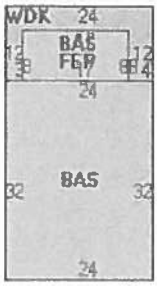
Code	Description	Units	Appraised Value
No Extra Building Features			

Outbuildings

Code	Description	Units	Appraised Value
SHD1	SHED FRAME	80 S.F.	300

Building Sketch

FBM[384]
UBM[384]

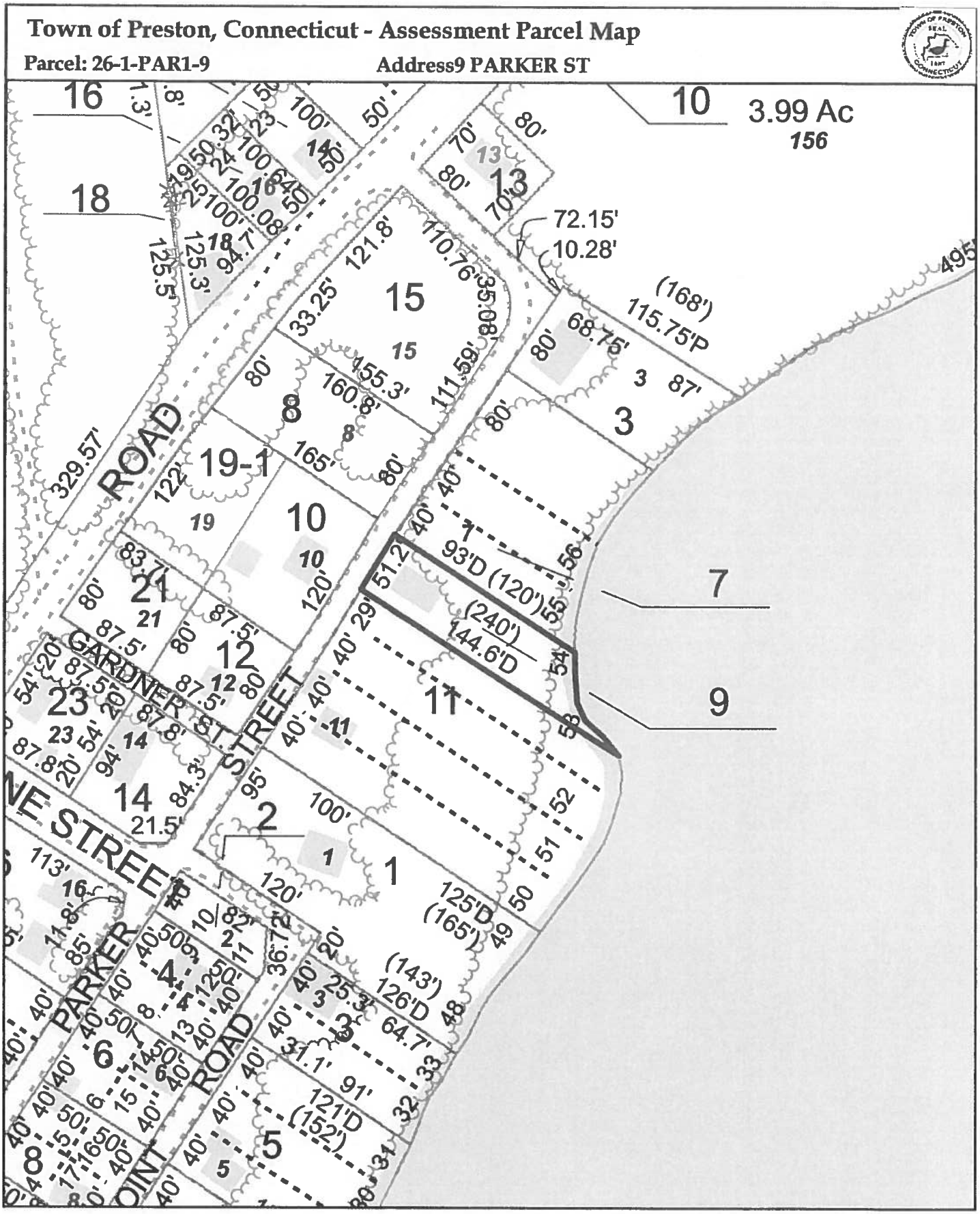


Subarea Summary

Code	Description	Gross Area	Living Area
BAS	First Floor	904	904
FBM	Basement, Finished	384	0
FEP	Porch, Enclosed, Finished	136	0
UBM	Basement, Unfinished	384	0
WDK	Deck, Wood	152	0

Town of Preston, Connecticut - Assessment Parcel Map

Parcel: 26-1-PAR1-9 **Address9 PARKER ST**

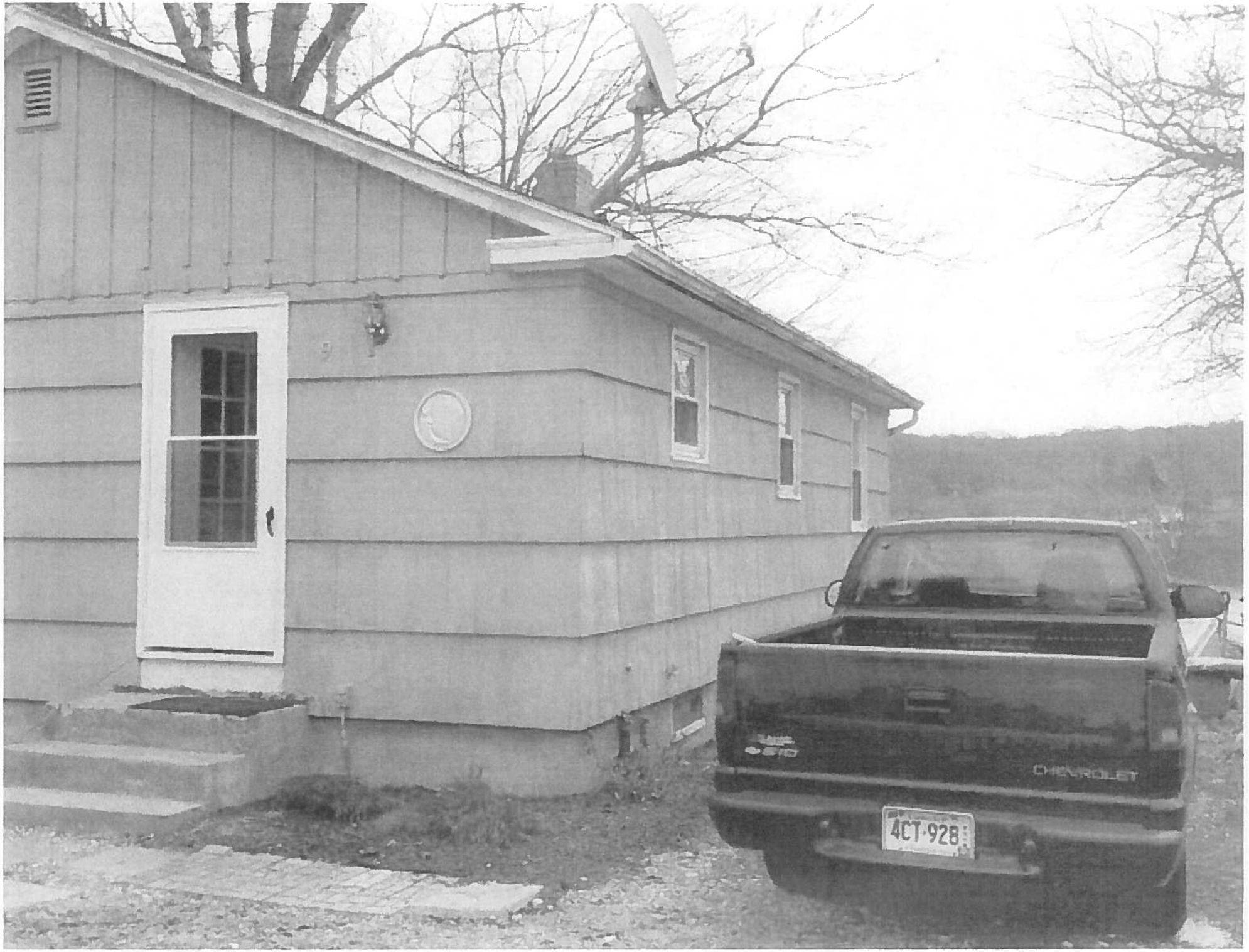


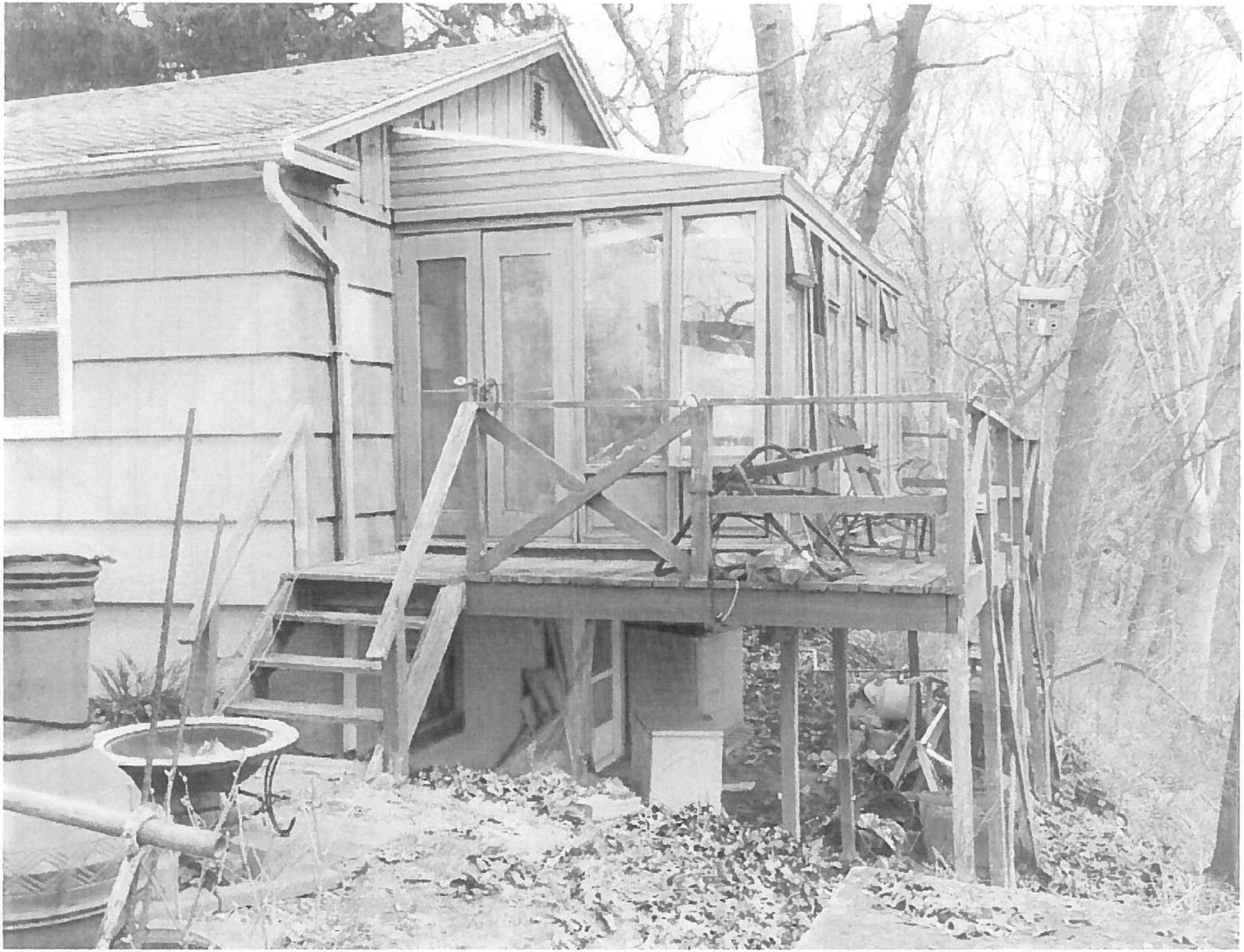
Approximate Scale: 1:1,200

0 20 40 80 120 160 Feet

Map Produced: June 2013

Disclaimer: This map is for informational purposes only. All information is subject to verification by any user. The Town of Preston and its mapping contractors assume no legal responsibility for the information contained herein.


CHEVROLET
4CT 928



9 PARKER ST

Location	9 PARKER ST	**Assessment**	$108,100
Mblu	26-1/ PAR1/ 9/ /	**Appraisal**	$154,400
Acct#	00206000	**PID**	2087
Owner	PERO ANDREA M & NICHOLAS	**Building Count**	1

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2012	$83,600	$70,800	$154,400
Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2012	$58,500	$49,600	$108,100

Owner of Record

Owner	PERO ANDREA M & NICHOLAS	**Sale Price**	$142,000
Co-Owner		**Book & Page**	140/ 996
Address	9 PARKER ST PRESTON, CT 06365	**Sale Date**	06/17/2003

Ownership History

Ownership History			
Owner	**Sale Price**	**Book & Page**	**Sale Date**
TROMBLY SPENCER J ALISON B	$110,000	0090/0816	07/11/1989
FOSTER MILNE BEVERLY	$0	0090/0811	07/11/1989
TROMBLY SPENCER J + ALISON B	$14,000	0074/0460	03/05/1985

Building Information

Building 1 : Section 1

Year Built:	1956
Living Area:	904
Replacement Cost:	$111,073
Building Percent Good:	75
Replacement Cost Less Depreciation:	$83,300

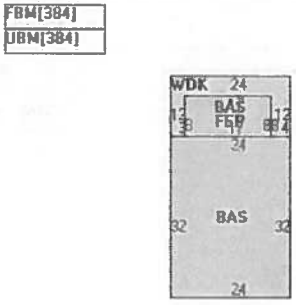
Building Photo

Building Attributes	
Field	**Description**
Style	Ranch
Model	Residential

Grade:	Average
Stories:	1 Story
Occupancy	1
Exterior Wall 1	Wood Shingle
Exterior Wall 2	
Roof Structure:	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Flr 1	Carpet
Interior Flr 2	
Heat Fuel	Oil
Heat Type:	Hot Water
AC Type:	None
Total Bedrooms:	1 Bedroom
Total Bthrms:	1
Total Half Baths:	0
Total Xtra Fixtrs:	
Total Rooms:	5 Rooms
Bath Style:	Average
Kitchen Style:	Average

(http://images.vgsi.com/photos/PrestonCTPhotos//\00\00\15/77.jpg)

Building Layout



Building Sub-Areas			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	904	904
FBM	Basement, Finished	384	0
FEP	Porch, Enclosed, Finished	136	0
UBM	Basement, Unfinished	384	0
WDK	Deck, Wood	152	0
		1960	904

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Use Code	1013
Description	SFR WATER MDL-01
Zone	R-40
Neighborhood	0050

Land Line Valuation

Size (Acres)	0.2
Frontage	0
Depth	0
Assessed Value	$49,600

Alt Land Appr No
Category

Appraised Value $70,800

Outbuildings

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
SHD1	SHED FRAME			80 S.F.	$300	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2011	$103,100	$91,300	$194,400
2006	$71,200	$45,700	$116,900
2001	$59,200	$27,400	$86,600

Assessment			
Valuation Year	Improvements	Land	Total
2011	$72,200	$63,900	$136,100
2006	$49,900	$32,000	$81,900
2001	$41,500	$19,200	$60,700

Department of Economic and Community Development

Connecticut
still revolutionary

2161 JO

May 29, 2014

Hermia M. Delaire
Program Manager
CDBG - Sandy Disaster Recovery Program
Department of Housing
505 Hudson Street
Hartford, CT 06106

Subject: Department of Housing Superstorm Sandy Reviews
9 Parker Street
Preston, CT

Dear Ms. Delaire:

The State Historic Preservation Office has reviewed the information submitted for the above-named pursuant to the provisions of Section 106 of the National Historic Preservation Act of 1966. It is the opinion of this office that the property located at 9 Parker Street is not eligible for listing on the National Register of Historic Places.

Based on the information provided, the proposed rehabilitation of 9 Parker Street will have no effect on the state's cultural resources.

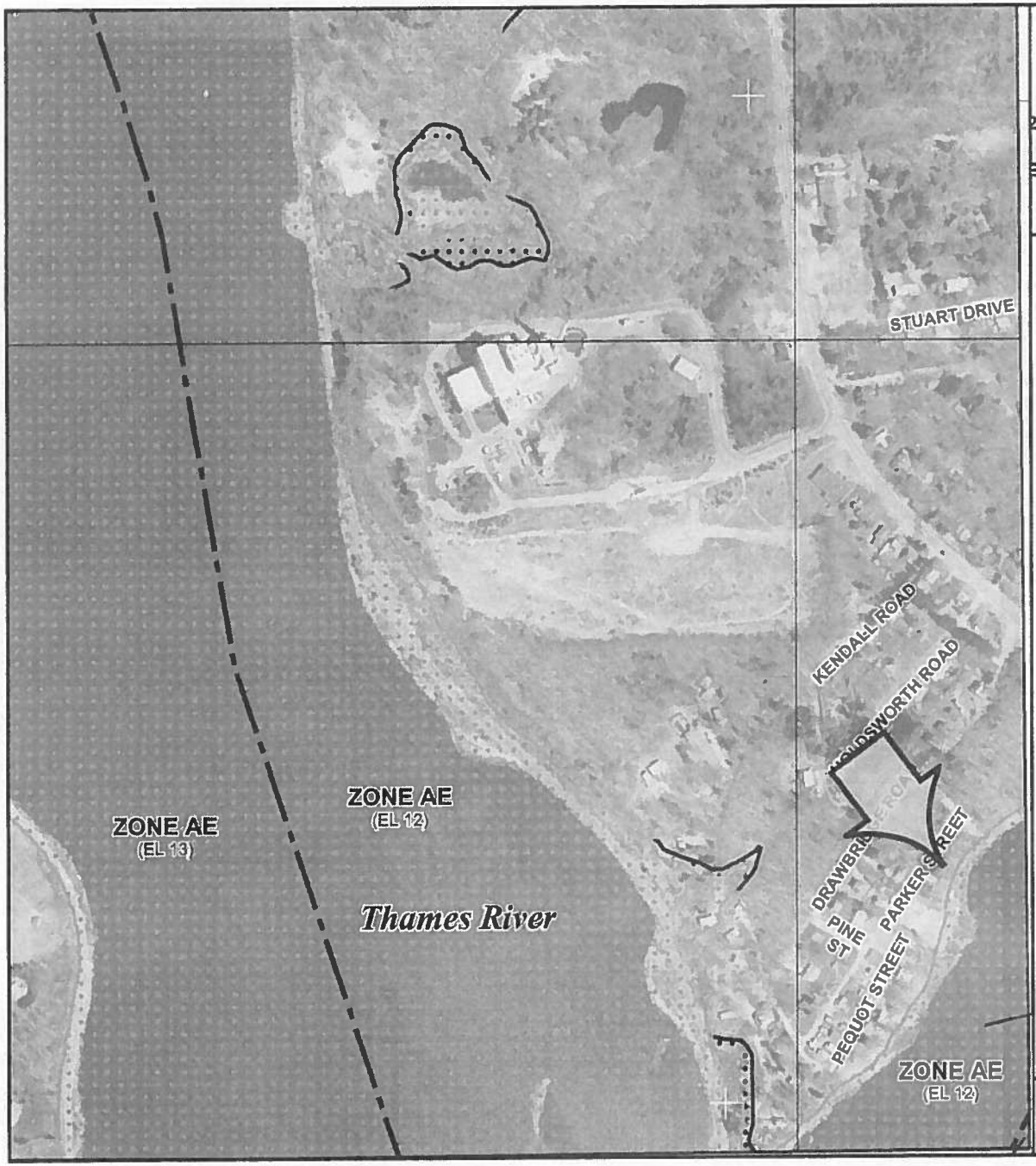
This office appreciates the opportunity to have reviewed and commented upon the project.

For further information please contact Laura L. Mancuso, Environmental Review Coordinator, at (860) 256-2757 or laura.mancuso@ct.gov.

Sincerely,

Mary B. Dunne

Mary Dunne
Deputy State Historic Preservation Officer



MAP SCALE 1" = 500'

250 0 500 1000

FEET

METERS

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0352G

FIRM

FLOOD INSURANCE RATE MAP

NEW LONDON COUNTY, CONNECTICUT

ALL JURISDICTIONS

PANEL 352 OF 554

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
LEDYARD, TOWN OF	090157	0352	G
MONTVILLE, TOWN OF	090099	0352	G
NORWICH, CITY OF	090102	0352	G
PRESTON, TOWN OF	090139	0352	G

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
09011C0352G

EFFECTIVE DATE
JULY 18, 2011

Federal Emergency Management Agency

U.S. Fish and Wildlife Service

National Wetlands Inventory

9 Parker Street
Preston

Nov 4, 2014

Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 3301
PHONE: (603)223-2541 FAX: (603)223-0104
URL: www.fws.gov/newengland

Consultation Tracking Number: 05E1NE00-2015-SLI-0023 October 07, 2014
Project Name: Pero Residence

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project.

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having

similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment

United States Department of Interior
Fish and Wildlife Service

Project name: Pero Residence

Official Species List

Provided by:

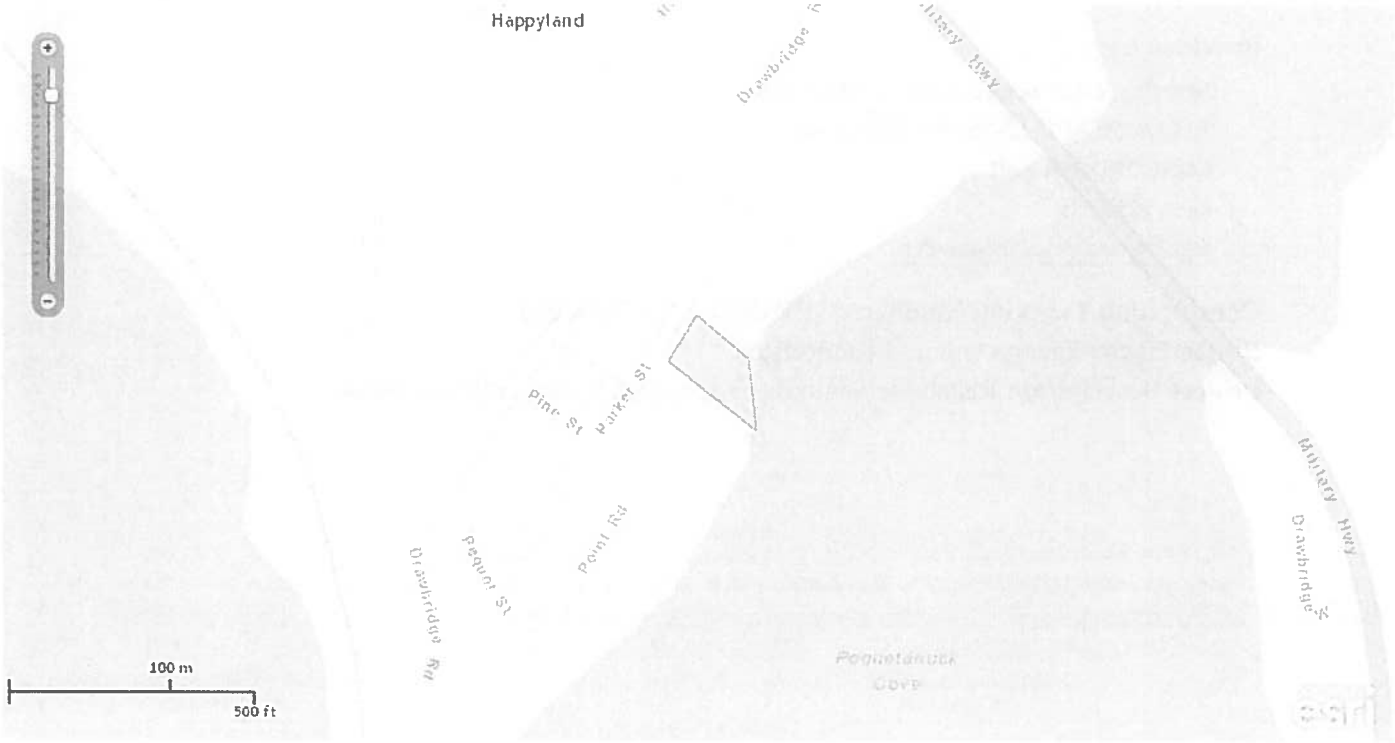
New England Ecological Services Field Office
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 3301
(603) 223-2541
http://www.fws.gov/newengland

Consultation Tracking Number: 05E1NE00-2015-SLI-0023
Project Type: Federal Grant / Loan Related
Project Description: Rehabilitation to damage caused by Super Storm Sandy

United States Department of Interior
Fish and Wildlife Service

Project name: Pero Residence

Project Location Map:



Project Coordinates: MULTIPOLYGON (((-72.0636783 41.4711985, -72.0632931 41.4709582, -72.0632287 41.4705562, -72.0638928 41.4709421, -72.0636783 41.4711985)))

Project Counties: New London, CT

United States Department of Interior
Fish and Wildlife Service

Project name: Pero Residence

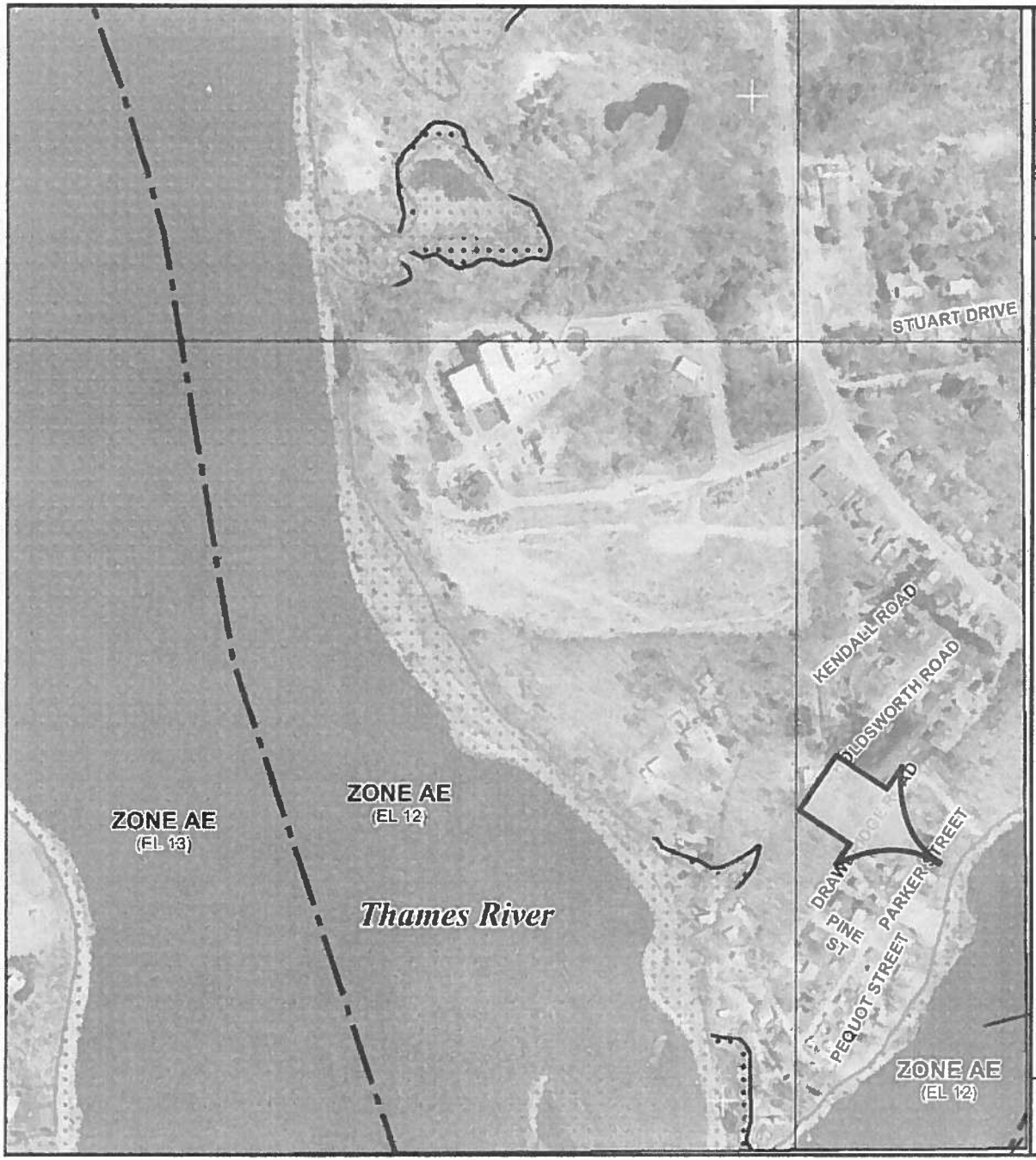
Endangered Species Act Species List

There are a total of 0 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

There are no listed species identified for the vicinity of your project.

Critical habitats that lie within your project area

There are no critical habitats within your project area.



MAP SCALE 1" = 500'

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FLOOD INSURANCE RATE MAP

NEW LONDON COUNTY, CONNECTICUT

ALL JURISDICTIONS

PANEL 352 OF 554

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS

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PRESTON, TOWN OF	090129	0352	G

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MAP NUMBER
09011C0352G

EFFECTIVE DATE
JULY 18, 2011

Federal Emergency Management Agency

Limited Hazardous Materials Building Inspection Report

Storm Sandy Residential Rehabilitation Project
9 Parker Street
Preston, Connecticut

Quisenberry Arcari Architects, LLC

Farmington, Connecticut

July 2014

FUSS & O'NEILL

Fuss & O'Neill EnviroScience, LLC
56 Quarry Road
Trumbull, CT 06611

Project No. 20140277.C2E

FUSS & O'NEILL
EnviroScience, LLC

July 11, 2014

Mr. Thomas Arcari
Principal
Quisenberry Arcari Architects LLC
318 Main Street
Farmington, CT 06032

RE: Limited Hazardous Materials Building Inspection
Storm Sandy Residential Rehabilitation Project
9 Parker Street, Preston, Connecticut
Fuss & O'Neill EnviroScience Project No. 20140277.C2E
Quisenberry Arcari Project No. 1346-23

Dear Mr. Arcari:

Enclosed is the report for the limited hazardous materials building inspection performed at 9 Parker Street in Preston, Connecticut.

The initial inspection was performed on June 5, 2014, by Fuss & O'Neill EnviroScience, LLC state-licensed inspectors and included an asbestos inspection, testing for lead-based paint, airborne radon assessment, mold assessment, and assessments for PCB-containing light ballasts and mercury hazards.

The information summarized in this document is for the abovementioned materials only. It does not include information on other hazardous materials that may exist in the property (such as underground storage tanks, PCB-containing building materials, etc.).

If you have any questions regarding the contents of this report, please do not hesitate to contact us at (203) 374-3748. Thank you for this opportunity to have served your environmental needs.

Sincerely,

Kevin McCarthy
Project Manager

Robert L. May, Jr.
President
NEHA NRPP # 105366 RT

Enclosure

56 Quarry Road
Trumbull, CT
06611
t 203.374.3748
800.286.2469
f .203.374.4391

www.fando.com

Connecticut
Massachusetts
Rhode Island
South Carolina

FUSS & O'NEILL
EnviroScience

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Limited Hazardous Materials Building Inspection Report
Quisenberry Arcari Architects LLC
9 Parker Street, Preston, Connecticut

FUSS & O'NEILL
EnviroScience LLC

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Limited Hazardous Materials Inspection Report
Quisenberry Arcari Architects LLC
9 Parker Street, Preston, Connecticut

Appendices

1 Introduction

On June 5, 2014, Fuss & O'Neill EnviroScience, LLC (EnviroScience) Environmental Technicians, Mr. Robert Hobbins and Mr. Ulkens Auguste, performed a limited hazardous materials building inspection of the residential structure located at 9 Parker Street in Preston, Connecticut (the "Site"). Mr. Hobbins and Mr. Auguste are State of Connecticut-licensed Asbestos Consultants - Inspectors and Certified Lead Paint Inspectors. On June 5, 2014, Mr. Auguste performed a lead paint risk assessment within the residence. Mr. Auguste is a State of Connecticut-Certified Lead Paint Inspector/Risk Assessor. The residential structure was not occupied at the time and date of the inspection. Refer to *Appendix A* for EnviroScience state licenses, certifications, and accreditations.

This inspection was performed in response to the planned renovations to damaged or impacted areas of the building caused by Superstorm Sandy, as identified in the *Draft Residence Rehabilitation Letter* dated April 8, 2014, provided by Quisenberry Arcari Architects. The limited inspection consisted of the following:

- A inspection for asbestos-containing materials (ACM) associated with the scheduled roof, window, door, and exterior siding replacement and the scheduled new oil-fired boiler assembly,
- Testing of painted surfaces for lead-based paint (LBP);
- A lead-based paint risk assessment;
- An evaluation of fluorescent light fixtures for polychlorinated biphenyls (PCB)-containing light ballasts;
- An inventory of light tubes/lamps and devices for mercury;
- Airborne radon gas assessment; and
- A mold assessment.

2 Asbestos Inspection

A Property Owner must ensure that performance of a thorough inspection for ACM, prior to possible disturbance of suspect ACM during renovation or demolition, is conducted. This is a requirement of the Unite States (US) Environmental Protection Agency (EPA) National Emission Standards for Hazardous Air Pollutants (NESHAP) regulation located at Title 40 CFR Part 61, Subpart M.

This includes Friable, Non-Friable Category I, and Non-Friable Category II ACM.

- A Friable Material is defined as material that contains greater than one percent (>1%) asbestos, that when dry **can** be crumbled, pulverized, or reduced to powder by hand pressure.
- A Category I Non-Friable Material refers to material that contains greater than one percent (>1%) asbestos (e.g. packings, gaskets, resilient floor coverings, asphalt roofing products, etc.) that when dry **cannot** be crumbled, pulverized, or reduced to powder by hand pressure.
- A Category II Non-Friable Material refers to any non-friable material (excluding Category I materials) that contains greater than one percent (>1%) asbestos that when dry **cannot** be crumbled, pulverized, or reduced to powder by hand pressure.

During this inspection, suspect ACM were separated into three EPA categories. These categories are: thermal system insulation (TSI), surfacing ACM, and miscellaneous ACM. TSI includes all materials used

to prevent heat loss or gain or water condensation on mechanical systems. Examples of TSI are pipe insulation, boiler insulation, duct insulation, and mudded pipe fitting insulations. Surfacing ACM includes all ACM that is applied by spray, trowel, or otherwise applied to an existing surface. Surfacing ACM is commonly used for fireproofing, decorative, and acoustical applications. Miscellaneous materials include all ACM not listed in thermal or surfacing, such as linoleum, vinyl asbestos flooring, and ceiling tiles.

Samples are recommended to be collected in a manner sufficient to determine asbestos content and include homogenous building materials. The EPA NESHAP regulation does not specifically identify a minimum number of samples to be collected and analyzed, but recommends the use of sampling protocols included in EPA Title 40 CFR Part 763, Sub-Part E - Asbestos Containing Materials in Schools regulation.

2.1 Methodology

Samples of suspect ACM were collected in accordance with EPA recommendations and Asbestos Hazard Emergency Response Act (AHERA) protocols. The protocols included the following:

1. Surfacing Materials (SURF) (e.g., plaster, spray-applied fireproofing, etc.) were collected in a randomly distributed manner representing each homogenous area based on the overall quantity represented by the sampling as follows:
    a. Three samples collected from each homogenous area that is less than or equal to (≤) 1,000 square feet.
    b. Five samples collected from each homogenous area that is greater than (>) 1,000 square feet, but less than or equal to 5,000 square feet.
    c. Seven samples collected from each homogenous area that is greater than (>) 5,000 square feet.

2. Thermal System Insulation (TSI) (e.g., pipe insulation, tank insulation, etc.) was collected in a randomly distributed manner representing each homogenous area. Three bulk samples were collected as representative of each homogeneous material type, and sent to laboratory for asbestos analysis. Also, a minimum of one sample of any patching material (less than 6 linear of square feet) applied to TSI was collected.

3. Miscellaneous Materials (MISC) (e.g., floor tile, gaskets, construction mastics, etc.) had a minimum of two samples collected as representative of each homogenous material type. Sampling was conducted in a manner sufficient to determine asbestos content of the homogenous material as determined by the Asbestos Inspector. If materials identified were of (significant) minimal quantity, only a single sample was collected.

The Asbestos Consultant – Inspector collected samples and prepared proper chain-of-custody forms for transmission of samples to an accredited asbestos analytical laboratory for analysis by Polarized Light Microscopy (PLM). The sampling locations, material type, quantity, sample identification, and asbestos content are identified by bulk sample analysis in Tables 1 and 2 of the "Results" section and Table 3 of the "Discussion" section. Any materials on the site not listed in the following tables should be considered

suspect ACM until sample results indicate otherwise. Refer to *Appendix B* for PLM analytical results for asbestos bulk samples and chain of custody forms.

2.2 Results

Utilizing the EPA protocol and criteria, the following materials were identified as ACM:

Table 1
Asbestos-Containing Materials

Location	Material Type	Asbestos Content	Estimated Quantity	Sample No.
Basement	Interior Furnace Materials	Assumed	N/A	N/A
Main Building Exterior Roof	Vent and Chimney Flashing Materials	6% Chrysotile	10 SF	0605BH23A
Rear Porch Exterior Roof	Flashing Materials (Roof & Siding Junction)	8% Chrysotile	30 SF	0605BH24A

Note: SF = Square Feet

Utilizing the EPA protocol and criteria, the following materials were identified as **non-ACM**:

Table 2
Non-Asbestos-Containing Materials

Location	Material Type	Sample No.
Main Floor & Basement	Textured Ceiling Paint	0605BH01A-G
	Sheetrock & associated Taping Compound	0605BH02A-B, 03A-B, 04
Kitchen	White Sink Undercoating	0605BH05A-B
Rear Porch	Interior Window Glazing Compound	0605BH06A-C
Basement	Chimney Flue Cement	0605BH07A-C
Rear Porch	Red Ceramic/Slate Floor Tile & associated Thinset & Grout	0605BH08A-B, 09A-B, 10A-B
Kitchen	White Ceramic Floor Tile & associated Thinset & Grout	0605BH11A-B, 12A-B, 13A-B
	Paper/Tar under Ceramic Floor Tile	0605BH14A-B
Basement	Concrete Block & Grout	0605BH15A-B, 16A-B
Building Exterior	Concrete Foundation	0605BH17A-B

Location	Material Type	Sample No.
Main Building Exterior Roof	Chimney Brick & Grout	0605BH18A-B, 19A-B
	Top & Bottom Layers of Roofing Shingles	0605BH20A-B, 21A-B
	Roof Base Sheet	0605BH22A-B

2.3 Discussion

The EPA defines any material that contains greater than one percent (>1%) asbestos, utilizing PLM, as an ACM. Materials that are identified as "none detected" are specified as not containing asbestos.

2.4 Conclusions

Interior ACM identified in *Section 2.1 - Table 1* must be removed by a State of Connecticut-licensed Asbestos Abatement Contractor prior to building renovations that will disturb the materials. This is a State of Connecticut Department of Public Health (CTDPH) Standards for Asbestos Abatement requirement.

The non-friable roofing materials identified in *Section 2.1 - Table 1* have been de-regulated by CTDPH. The identified non-friable roofing materials can be removed either by a CTDPH-licensed Asbestos Abatement Contractor or by a professional roofing contractor provided that they adhere to all Occupational Safety and Health Administration (OSHA) training requirements and EPA NESHAP regulations. Asbestos waste must be properly sealed (leak/airtight containers) and disposed in a landfill approved to accept asbestos waste. A licensed Asbestos Abatement Contractor is only required should the ACM be made friable and become a regulated asbestos-containing material (RACM) by work activities. All applicable CTDPH regulations shall apply if the material becomes RACM.

Oil-Fired Furnace Unit: The interior of the single furnace unit located in the basement could not be accessed for visual or physical investigation at the time of this inspection; therefore, the potential interior suspect ACM components of the unit could not be inspected. All suspect materials (fire brick and associated grout, interior packing, gaskets, etc.) discovered on or within the furnace during renovations must be presumed ACM until sample collection and analysis indicate otherwise.

Note that since this asbestos inspection was limited, we recommend conducting a supplemental inspection of hidden and inaccessible areas (behind walls/beneath fixed floors, exterior foundation, etc.) prior to demolition/renovation activities that may disturb these areas. Any suspect material encountered during demolition/renovation activities that is not identified in this report as being non-ACM, should be presumed to be ACM until sample collection and analysis indicate otherwise.

3 Lead-Based Paint Testing

On June 5, 2014, EnviroScience's Environmental Technicians Mr. Hobbins and Mr. Auguste performed comprehensive lead paint testing within the Site structure. The purpose of the testing was for compliance

with EPA's Renovation, Repair, and Painting Rule (RRP) located at Title 40 CFR, Parts 745.80 through 92, and the United States (US) Department of Housing and Urban Development (HUD) Lead-Safe Housing Rule (Title 24 CFR, Part 35, Subparts B-R). On June 5, 2014, Mr. August performed a lead risk assessment for the purpose of HUD Lead-Safe Housing Rule (24 CFR 35, Sub-part B-R) compliance.

3.1 Methodology

A direct reading X-ray fluorescence (XRF) analyzer was used to perform the testing. The testing was conducted in accordance with the protocol outlined in the attached document: "Testing Procedures and Equipment" (*Appendix C*).

For the purpose of this testing, various interior and exterior building components representing the initial painting history of the building, and any building-wide repainting by the owners/managers of these building components were tested. Individual repainting efforts are not discoverable in such a limited testing program. The purpose of this testing was to identify patterns and trends in the painting history of the buildings to determine if representative sample collection and analysis using the EPA Toxicity Characteristic Leaching Procedure (TCLP) is required for the anticipated demolition debris prior to off-site disposal.

The structure is constructed of exterior wood siding with metal/wood window and door systems. The interior walls and ceiling are constructed of sheetrock and plaster with both wood and concrete floors. The building was occupied at the time and date of the testing; no children under the age of six were present within the residence at time and date of the inspection.

3.2 XRF Testing Results

The testing indicated consistent painting trends throughout the building interiors and exteriors. The following painted building components were determined to contain toxic levels of lead (greater than 1.0 milligrams of lead per square centimeter [mg/cm^2] of paint):

Table 3
Lead-Painted Building Components

Building Component	Location	Reading (mg/cm^2)	Defective?
Window Trim	Rear Porch	1.1	**Yes**
Window Sill		3.9	**Yes**
Crown Molding	Storage Room	3.5	No
Door Jamb		2.8	No
Crown Molding	Living Room	1.1	No
Door Jamb		6.6	**Yes**
Window Sash		1.5	No

Building Component	Location	Reading (mg/cm²)	Defective?
B Wall	Corridor	1.6	No
Door Casing		6.7	No
Door Jamb		3.7	No
Door Casing	Bedroom	4.3	**Yes**
Door Jamb	Bedroom	4.3	No
Ceramic Floor Tile	Kitchen	7.3	No
Window Sill	Exterior Side A	3.9	**Yes**
Door Casing	Exterior Side B	5.1	No
Door Jamb		>9.9	No
Window Sill		3.5	No
Window Trim		1.1	No
Door Lintel	Exterior Side C	1.1	No
Window Sill	Exterior Side D	3.7	No
Window Trim		1.5	No

Lead testing field data sheets are provided as *Appendix D* in this report.

3.3 Dust Wipe Samples

Representative lead dust wipe samples were collected inside the Site building to evaluate whether a lead dust hazard existed. The sample numbers, locations, and results are as follows:

Table 4
Lead Dust Wipe Sample Results

Sample No.	Location	Results*
0605UA-03	Rear Porch (Room 1)–Floor	1,200 µg/ft²
0605UA-04	Rear Porch (Room 1)–Window Sill	< 40 µg/ft²
0605UA-05	Bedroom (Room 2)–Floor	710 µg/ft²
0605UA-06	Bedroom (Room 2)–Window Sill (A-Side)	780 µg/ft²
0605UA-07	Living Room (Room 3)–Floor	< 10 µg/ft²
0605UA-08	Living Room (Room 3)–Window Sill (C-Side)	< 40 µg/ft²

Sample No.	Location	Results*
0605UA-09	Kitchen (Room 4)–Floor	< 10 µg/ft²
0605UA-10	Kitchen (Room 4)–Floor *Duplicate sample*	<10 µg/ft²
0605UA-11	Kitchen (Room 4)–Window Sill	<40 µg/ft²
0605UA-12	Field Blank	<10 µg/ft²
0605UA-13	Field Blank	<10 µg/ft²

* µg/ft² = micrograms per square foot

Dust wipe samples were collected from window sill and floor locations as delineated on our chain of custody form. The dust wipe sampling was conducted in accordance with the protocol outlined in the document "Lead Testing Procedures and Equipment" (*Appendix C*). Sample results were compared to Connecticut standards for dust as follows:

- 40 µg/ft² - for floors
- 250 µg/ft² - for window sills

The analytical sample results and their locations are provided as *Appendix E* in this report.

3.4 Soil Samples

A representative composite soil sample was collected from bare soil locations observed along the exterior drip line of the Site building to evaluate whether a lead in soil hazard exists. The analytical result of the composite sample collected on the C-side of the Site building indicates a concentration of 75 milligrams per kilogram (mg/Kg) of lead in soil sample numbers, locations, and results are as follows:

The soil sampling was conducted in accordance with the protocol outlined in the document "Lead Testing Procedures and Equipment" (*Appendix C*).

The analytical sample results and chain of custody form are provided as *Appendix F* in this report.

3.5 Lead in Drinking Water Results

Representative drinking water samples (first draw and two-minute flush) were collected from the kitchen faucet to evaluate whether a lead in drinking water hazard exists at the Site building.

The analytical results of the two water samples indicate concentrations of lead below the EPA reporting limit of 0.005 milligrams per liter (mg/L) for lead in drinking water.

The analytical sample results and chain of custody form are provided as *Appendix G* in this report.

3.6 Conclusions

The following building components were determined to be coated with toxic levels of lead in paint:

- Rear Porch Window Sill and Trim;
- Storage Room Crown Molding and Door Jamb;
- Living Room Crown Molding, Window Sash, and Door Jamb,
- Corridor B Wall, Door Casing, and Door Jamb,
- Bedroom Door Casing and Door Jamb,
- Kitchen Ceramic Floor Tile,
- Exterior Window Sills,
- Exterior Window Trim (B and D-Sides),
- Exterior Door Jamb (B-Side), and
- Exterior Door Lintel (C-Side)

This inspection was performed as a comprehensive inspection of all representative surfaces within the residence that are scheduled to be disturbed and can be utilized to determine applicability requirements for the RRP rule on surfaces tested.

Interior defective LBP identified on the living room door jamb and bedroom door casing must be completely abated of LBP. Exterior defective LBP identified on the exterior window sill on the A side of the residence can be managed with interim controls that consist of scrapping defective LBP and encapsulating the painted surface with a State of Connecticut-approved encapsulant.

The Contractor shall be aware that OSHA has not established a level of lead in a material below which Title 29 CFR, Part 1926.62 ("Lead in Construction") does not apply. Contractors should be aware that the threshold limit of 1.0 mg/cm^2 for purposes of RRP requirements is not recognized by the Occupational Safety and Health Administration (OSHA) and worker exposures are still subject to the Lead in Construction regulation (Title 29 CFR, Part 1926.62). The Contractor shall comply with employee exposure assessment criteria, interim worker protection, and other requirements of the regulation, as necessary, to protect workers and building occupants from potential lead exposure.

Those surfaces which contain lead paint are subject to RRP work practice and training requirements if more than de-minimus amounts are disturbed in renovation or for projects involving window replacement. If a specific component or surface is not identified as having been tested it should be presumed to contain lead paint unless tested.

Dust wipe sample results were above the Connecticut standard for window sill surfaces in the bedroom; a lead dust hazard does exist in the area tested. Window sill surfaces throughout the building must be cleaned to below the Connecticut standard of 250 µg/ft^2. Also, dust wipe sample results were above the Connecticut standard on floor surfaces in the rear porch and bedroom; and a lead dust hazard does exist in the areas tested. Floor surfaces throughout the building must be cleaned to below the Connecticut standard of 40 µg/ft^2.

Exterior soil sample results were below the Connecticut standard for lead in soil of 400 mg/Kg (ppm). A lead in soil hazard does not exist in the areas tested.

Both drinking water sample results indicate total lead in water at concentrations of 0.005 mg/L. A lead in drinking water hazard does not exist in the building tested.
To determine waste management requirements, EnviroScience collected a representative demolition debris sample for TCLP analysis. The analysis was performed at Phoenix Environmental Laboratories, Inc. of Manchester, Connecticut. The analytical result of the TCLP sample indicated a concentration of <0.10 mg/L of lead, which is below the EPA RCRA disposal standard of 5.0 mg/L. Therefore, the demolition waste may be disposed in a general construction and demolition debris landfill. The TCLP analytical sample result is provided as *Appendix H* in this report.

4 Assessment of PCB-Containing Fluorescent Ballasts

Fluorescent light ballasts manufactured prior to 1979 may contain capacitors that contain PCBs. Ballasts installed as late as 1985 may contain PCB capacitors. Fluorescent light ballasts that are not labeled as "No-PCBs" must be assumed to contain PCBs unless proven otherwise by quantitative analytical testing. Capacitors in fluorescent light ballasts labeled as non-PCB-containing may contain diethylhexl phthalate (DEHP). DEHP was the primary substitute to replace PCBs for small capacitors in fluorescent lighting ballasts in use until 1991. DEHP is a toxic substance, a suspected carcinogen and is listed under the EPA Resource Conservation and Recovery Act (RCRA) and the Superfund law as a hazardous waste. Therefore, Superfund liability exists for land filling both PCB and DEHP-containing light ballasts. These listed materials are considered hazardous waste under RCRA, and require special handling and disposal requirements.

On June 5, 2014, EnviroScience representative Mr. Hobbins performed a visual inspection of representative fluorescent light fixtures to identify possible PCB-containing ballasts. The inspection involved visually inspecting labels on representative light ballasts to identify dates of manufacture and labels indicating "No PCB's". Ballasts manufactured after 1991 were not listed as a PCB or DEHP-containing ballast, and not quantified for disposal. Ballasts without a label indicating "No PCB's" are presumed to be PCB waste, and must be segregated for proper removal, packaging, transport and disposal as PCB waste. Ballasts with date labels indicating manufacture prior to 1991 that indicate "No PCB's" are presumed to contain DEHP and must be segregated for proper removal, packaging, transport, and disposal as non-PCB hazardous waste. The disposal requirements are slightly varied, and costs are slightly less for DEHP than for PCB-containing light ballasts.

4.1 Results

Several of the light fixtures that were examined were labeled with neither the manufacturer's information, nor a "No PCB's" label. However during the inspection, some types of light ballasts were labeled with a "No PCB's" label. Therefore there is a mixture of assumed PCB-containing and non-PCB-containing light ballasts within the building areas inspected. .

All of the light ballasts observed in the building were labeled with either the manufacturer's information, or a "No PCBs" label. The light ballasts labeled with the manufacturer's information are assumed to contain PCBs and the light ballasts labeled "No PCBs" are assumed to contain DEHP.

4.2 Conclusions

If the renovation activities will disturb the materials, the ballasts not labeled "No PCBs" should properly recycled as PCB and the remaining ballast labeled "No PCBs" ballasts should be properly recycled as assumed DEHP.

5 Assessment of Mercury-Containing Devices

Fluorescent lamps/tubes are presumed to contain mercury vapor, which is a hazardous substance to both human health and the environment. Thermostatic controls and electrical switch gear may contain a vial or bulb of mercury associated with the control. Mercury-containing equipment is regulated for proper disposal by the EPA RCRA hazardous waste regulations. Mercury lamps according to the EPA are considered a universal waste requiring all fluorescent lamps/tubes to be recycled or disposed as hazardous waste.

On June 5, 2014, EnviroScience's representative Mr. Robert Hobbins performed a visual in-place inventory of mercury amps/tubes, thermostats, and mercury switches.

5.1 Conclusions

No fluorescent light bulbs/tubes, thermostats, switches, or gauges were observed within accessible and visible areas of the Site structure.

6 Mold Visual Assessment

On June 5, 2014, EnviroScience representative Mr. Hobbins performed a visual assessment for the presence of suspect mold and water intrusion.

6.1 Observations

Suspect mold growth was identified on the sheetrock wall located in the basement adjacent to the furnace unit.

7 Airborne Gas Radon Information, Sampling and Procedure

7.1 Radon Facts and Health Effects

Radon is a naturally-occurring radioactive gas produced by the natural breakdown (decay) of uranium, which is naturally-occurring in soil and rock throughout the US. Radon gas travels through soil and enters buildings through cracks and other penetrations in building foundations. Eventually the gas itself decays into radioactive particles (decay products) that can become trapped in the lungs during human respiration.

As these particles in turn decay they release small bursts of radiation, which can damage lung tissue and lead to lung cancer over the course of a person's lifespan.

EPA studies have determined that radon concentrations in outdoor air average approximately 0.4 picoCuries per liter of air (pCi/L). However, radon and its decay products can accumulate to a much higher concentration inside a building. The EPA has adopted a recommended action level of 4.0 pCi/L; equal to or above which the EPA recommends that building owners take action to reduce the level of airborne radon gas within the building.

Radon is a colorless, odorless and tasteless gas, and thus, the only way to know whether or not an elevated level of radon is present in a building is to test the air for radon gas. The lowest living level of a dwelling should be measured, as even adjacent rooms can have significantly different levels of radon.

Again, radon is a known human carcinogen. Prolonged exposure to elevated radon concentrations causes an increased risk of lung cancer. Like other environmental pollutants, there is some uncertainty about the magnitude of radon health risks. However, scientists are more certain about radon risks than risks from most other cancer-causing environmental pollutants as estimates of radon risk are based on studies of cancer in humans (underground miners). Additional studies on more typical, non-occupationally exposed, populations are underway.

EPA estimates that radon may cause about 14,000 lung cancer deaths in the US each year, with a range of 7,000 to 30,000. The US Surgeon General has warned that radon gas is the second-leading cause of lung cancer deaths after smoking, and is the leading cause among non-smokers.

7.2 Airborne Radon Sampling

From June 5, 2014 to June 7, 2014, EnviroScience representatives deployed passive radon detection canisters in limited areas within the Site building. The canisters were retrieved at least 48 hours, but not later than 96 hours later. The canisters were supplied by Radon Testing Corporation of America (RTCA).

It is recommended that such canisters be placed at least 20-inches from the floor and 12-inches away from exterior walls. Also, it is recommended that the canisters not be placed near drafts resulting from Heating, Ventilating and Air Conditioning (HVAC) intakes and returns, doors, and at least 36-inches from windows. Also, canisters should not be exposed to direct sunlight, be covered up, or otherwise disturbed during the testing period. A closed building condition is also utilized for 12-hours prior to testing being conducted.

Sample analysis was performed by RTCA and the results are included in *Appendix I.*

7.3 Airborne Radon Quality Assurance Procedure

EPA strongly recommends that quality assurance measurements are included in radon measurement studies. Quality assurance measurements include side-by-side canisters (duplicates), and unexposed control canisters (blanks).

Duplicates are pairs of canisters deployed in the same location, side-by-side, for the same measurement period. Duplicates are placed in at least ten percent of all sampling locations. These duplicate canisters are stored, deployed, removed, and shipped to the laboratory for analysis in the same manner as the other canisters. If either or both of the analyses in a duplicate pairing is above the EPA recommended action level of 4.0 pCi/L the relative percent difference (RPD) between the two tests must be determined. If the allowable difference is exceeded, the test is determined to be invalid and a new duplicate test must be conducted. If both canister results are below the EPA standard then the RPD is not calculated since, despite any disparity, both results are below the EPA standard.

Blanks are utilized to determine whether the manufacturing, shipping, storage, and processing of the canisters has affected the accuracy of airborne radon gas sampling procedures. Blanks are unopened, unexposed canisters that are deployed with and shipped with the exposed canisters, so the processing laboratory treats them without bias. The number of blanks is at least five percent of the total number of canisters deployed, up to a maximum of 25 canisters.

7.4 Airborne Radon Analytical Results

Four canisters, including one duplicate and one blank, were placed in target locations within the structure during sampling that was performed June 5, 2014 to June 7, 2014. The concentrations of radon in the samples during the assessment ranged from 0.4 pCi/L to 0.6 pCi/L.. The EPA recommended action level for radon is 4.0 pCi/L.

Table 5 lists the locations and analytical results of quality control duplicate tests for June 5, 2014 to June 7, 2014.

Table 5
Duplicate Samples Results: June 5, 2014 – June 7, 2014

Location	Canister Numbers	Radon Concentration (pCi/Liter)			Relative Percent Difference (RPD, %)
		Sample	Sample Duplicate	Sample Average	
Bedroom	2313977 & 2313983	0.6	0.6	0.6	Percent Difference Not Needed (No Concentrations above 4.0 pCi/Liter)

Note Duplicate testing results were satisfactory.

In *Table 6* below, the locations and results of quality control blank tests are listed for June 5, 2014, to June 7, 2014:

Table 6
Blank Samples Results: June 5, 2014 – June 7, 2014

Location	Canister Number	Radon Concentration (pCi/Liter)
Storage	2314005	0.4

Note Blank testing results were satisfactory

In *Table 7* below, the locations, canister numbers, and radon concentrations are listed for the airborne radon assessment conducted on June 5, 2014 to June 7, 2014:

Table 7
Radon Sampling Results – June 5, 2014 – June 7, 2014

Location	Canister Numbers	Radon Concentration (pCi/Liter)
Bedroom	2313977	0.6
Storage	2314016	0.5

7.5 Conclusions

During the course of the initial radon gas measurement assessment, four sampling canisters, including one duplicate and one blank, were placed in targeted locations within the Site building. The analytical results of each of the four samples analyzed indicated radon gas concentrations below the EPA recommended action level of 4.0 pCi/L.

Refer to *Appendix J* for site photographs.

Report prepared by Environmental Technician Robert Hobbins.

Reviewed by:

Kevin McCarthy
Project Manager

Timothy M. Downey
Senior Project Manager

FUSS & O'NEILL
EnviroScience, LLC

Appendix A

Fuss &O'Neill EnviroScience State Licenses, Certifications and Accreditations

0091088 FP **PRSRT T5 0 0564 08040
JOHN R. HOBBINS
C/O FUSS & O'NEILL ENVIROSCIENCE, LLC
146 HARTFORD ROAD
MANCHESTER CT 06040

Dear Licensed/Certified Professional,
Attached you will find your validated license/certification for the coming year. Should you have any questions about your license/certificate renewal, please do not hesitate to write or call:

[redacted] (860) 509-7003
P.O. Box [redacted]
[redacted] http://www.dph.state.ct.us
[redacted], CT 06134-0308

Sincerely,

[redacted]

INSTRUCTIONS:

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3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.
4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

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

JOHN R. HOBBINS

LICENSE NO.
000700
CURRENT THROUGH
01/31/15
VALIDATION NO.
03-708142

SIGNATURE

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JOHN R. HOBBINS
VALIDATION NO. 03-708142
LICENSE NO. 000700
CURRENT THROUGH 01/31/15
PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JOHN R. HOBBINS
VALIDATION NO. 03-708142
LICENSE NO. 000700
CURRENT THROUGH 01/31/15
PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE

Fuss & O'Neill EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040 – (860) 646-2469

This is to certify that

John Robert Hobbins

XXX-XX-6853

has successfully completed the

4 Hr. Asbestos Inspector Refresher

Asbestos Accreditation under TSCA Title II

40 CFR Part 763

John Lowinski, Principal Instructor

[illegible] 4, 2013

Date of Course

[illegible] 4, 2013; B

Examination Date & Grade

Robert L. May, Jr., Training Manager

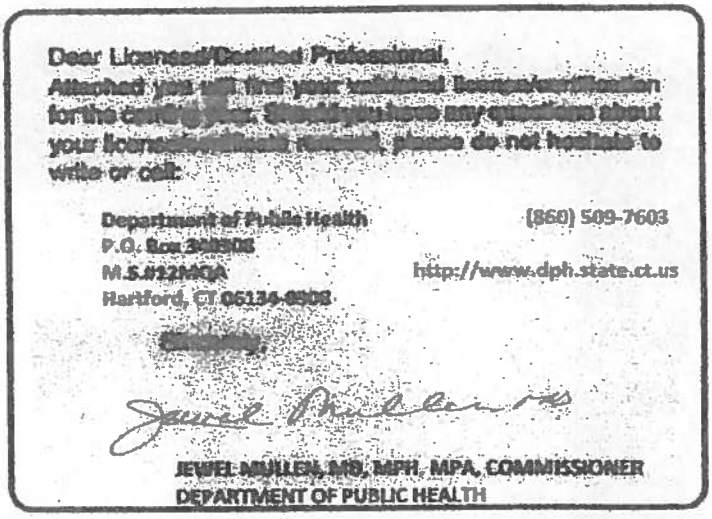
AI-R-09113-6

Certificate Number

September 4, 2014

Expiration Date

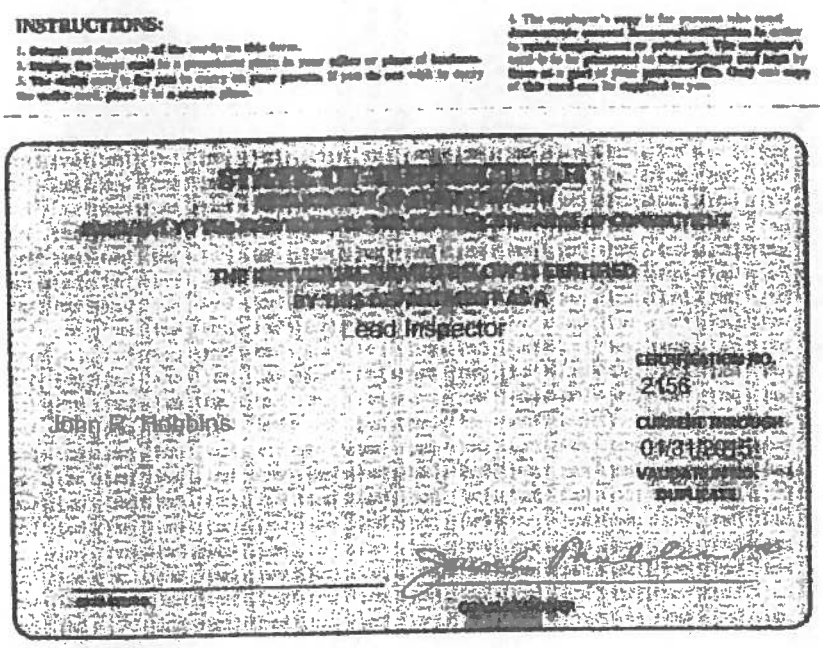
John R. Hobbins
C/O FUSS & O'NEILL ENVIROSCIENCE, LLC
146 HARTFORD ROAD
MANCHESTER, CT 06040


Dear Licensed/Certified Professional,

Department of Public Health
P.O. Box
M.S.#12MQA
Hartford, CT 06134-0308

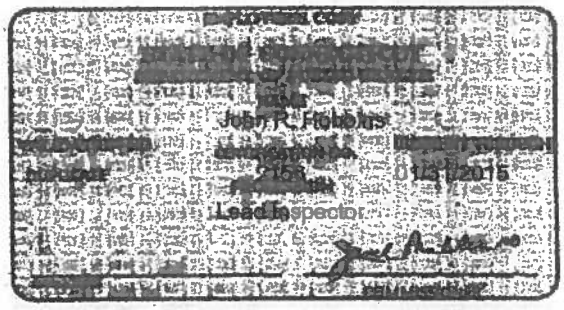
(860) 509-7603
http://www.dph.state.ct.us

JEWEL MULLEN, MD, MPH, MPA, COMMISSIONER
DEPARTMENT OF PUBLIC HEALTH


INSTRUCTIONS:

Lead Inspector

John R. Hobbins


John R. Hobbins

Lead Inspector


John R. Hobbins

Lead Inspector

CERTIFICATE OF ACHIEVEMENT

This certifies that

John Robert Hobbins
97 Montowese Street, Branford, CT 06405
000-00-6853

has successfully completed the

INSPECTOR REFRESHER

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

Neal B. Freuden

Principal Instructor: Neal Freuden

January 30, 2014
Date of Course

January 30, 2014
Exam Date

CTLIR-205
Certificate Number

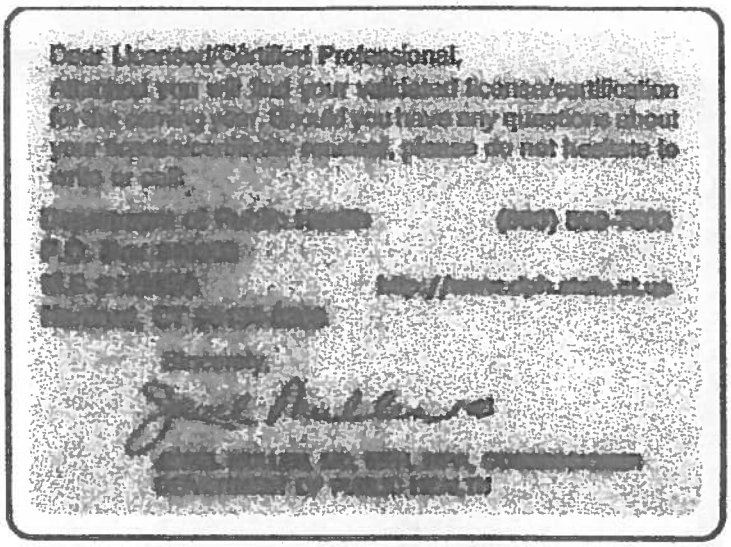
January 30, 2015
Expiration Date

Gregory J. Morsch

Training Manager: Gregory Morsch

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

0001709 FP **PRSRT T7 0 1284 06040
ULKENS AUGUSTE
146 HARTFORD RD
C/O FUSS & O'NEIL ENVIRO SCIENCE
MANCHESTER CT 06040-5902



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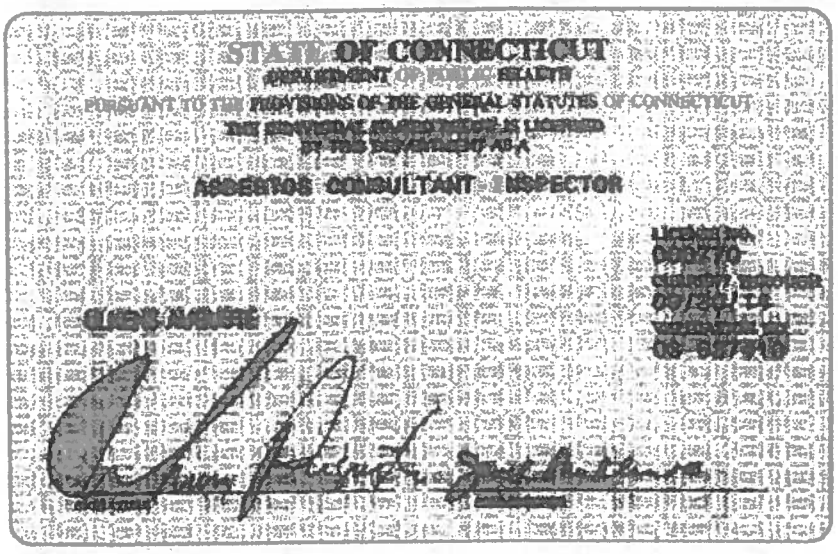
2. Display the large card **in** a prominent place in **your** office or place of business.
3. The **wallet** card is for you to carry on your person. If you do not wish to carry the wallet card, **place** it in a **secure** place.
4. The employer's copy is for **persons** who **must** demonstrate current **licensure/certification** in order to retain employment or **privileges.** The **employer's** card is to be presented to the **employer and** kept by them as a part of your personnel **file.** Only one copy of this card can be supplied to you.



Fuss & O'Neill EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040 – (860) 646-2469

This is to certify that

Ulkens Auguste

xxx-xx-6277

has successfully completed the

4 Hr. Asbestos Inspector Refresher

Asbestos Accreditation under TSCA Title II

40 CFR Part 763

John Rowinski, Principal Instructor

Robert L. May, Jr., Training Manager

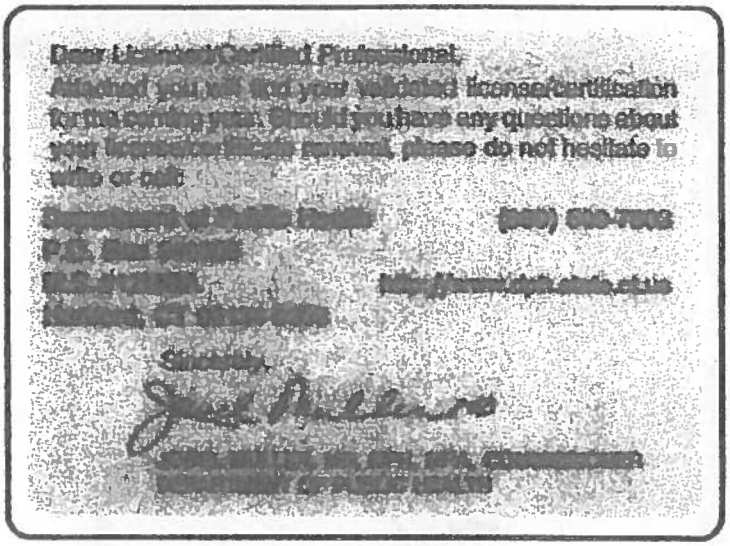
January 6, 2014
Date of Course

AI-R-01/14-4
Certificate Number

January 6, 2014
Examination Date

January 6, 2015
Expiration Date

0001788 FP **PRSRT T7 0 1284 06040
ULKENS AUGUSTE
148 HARTFORD RD
C/O FUSS & O'NEIL ENVIRO SCIENCE
MANCHESTER CT 06040-5992



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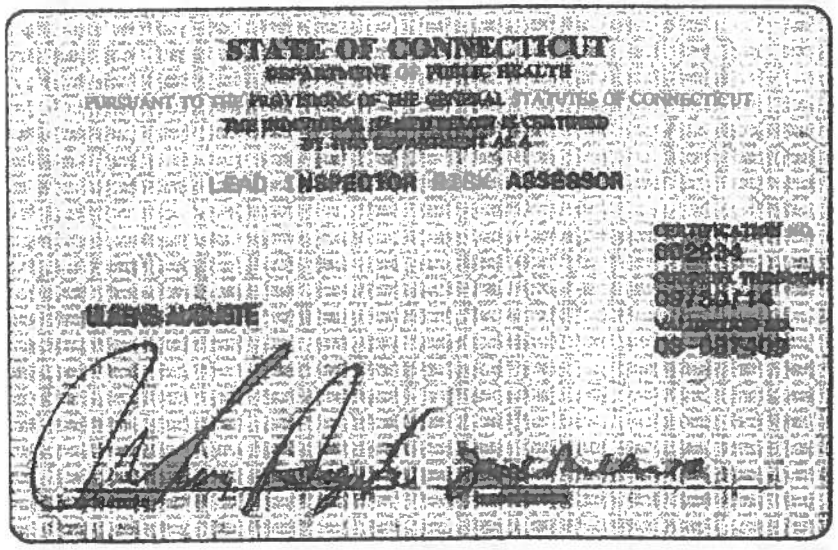

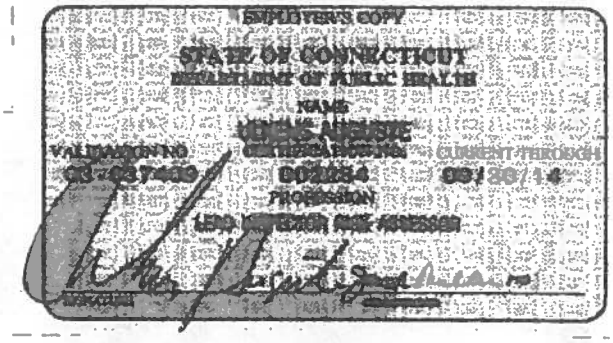

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This is to certify that

Ulkens Auguste

xxx-xx-6277

has successfully completed the

8 Hour Lead Inspector Risk Assessor Refresher Course

(Approved per Sec. 20-477, CT General Statutes)

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

Brian Santos, Principal Instructor

Robert L. May, Jr., Training Manager

February 20 & 25, 2014
Date of Course

LIRA-R-02/14-1
Certificate Number

February 25, 2014
Examination Date

February 25, 2015
Expiration Date

Appendix B

Asbestos Sample Results and Chain of Custody Forms

OrderID: 041416024

FUSS & O'NEILL
EnviroScience, LLC

56 Quarry Road, Trumbull, CT 06611

www.fando.com

Phone 203-374-3748 Fax 203-374-4391

041416024

SAMPLE LOG FOR ASBESTOS BULKS

Sheet 1 of 4

Project Name: Storm Sandy Residential Rehab–9 Parker Street, Preston, CT

Project No. 20140277.C2F

Building: 9 Parker Street

Project Manager: K. McCarthy

Sample ID	Sample Location	Material
0605BH01A	Main Floor	Textured Ceiling Paint
0605BH01B	Main Floor	Textured Ceiling Paint
0605BH01C	Main Floor	Textured Ceiling Paint
0605BH01D	Main Floor	Textured Ceiling Paint
0605BH01E	Basement	Textured Ceiling Paint
0605BH01F	Basement	Textured Ceiling Paint
0605BH01G	Basement	Textured Ceiling Paint
0605BH02A	Main Floor	Sheetrock
0605BH02B	Basement Stairwell	Sheetrock
0605BH03A	Main Floor	Taping Compound
0605BH03B	Basement Stairwell	Taping Compound
0605BH04	Basement Stairwell	Sheetrock & Taping Compound Composite
0605BH05A	Kitchen	White Sink Undercoating
0605BH05B	Kitchen	White Sink Undercoating
0605BH06A	Rear Porch–older exterior window	Interior Window Glazing Compounds

Analysis Method: ☒ PLM ☐ Other

Turnaround Time 24 hour

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____ Please call the EnviroScience Laboratory if analyses will be late at 203-374-3748.

Fax Results to the EnviroScience Laboratory at: 888-838-1160.

Special Instructions: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. No point count.

Samples collected by: B Hall **Date:** 6-5-14 **Time:** _____

Samples [Rec'd][Sent by] [Bit] [ ] **Date:** [6-5] [ ] **Time:** _____

Samples Received by: DNB-FX **Date:** 6-7-14 **Time:** 10A

Shipped To: ☒ EMSL State NJ ☐ Other _____

56

Method of Shipment: ☒ Fed Ex ☐ Other _____

Fx-7959-1511-8479

OrderID: 041416024

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041416024

SAMPLE LOG FOR ASBESTOS BULKS

Sheet 2 of 4

Project Name: Storm Sandy Residential Rehab- 9 Parker Street, Preston, CT

Project No. 20140277.C2E

Building: 9 Parker Street

Project Manager: K. McCarthy

Sample ID	Sample Location	Material
0605BH06B	Rear Porch–older exterior window	Interior Window Glazing Compounds
0605BH06C	Rear Porch–older exterior window	Interior Window Glazing Compounds
0605BH07A	Garage	Chimney Flue Cement
0605BH07B	Garage	Chimney Flue Cement
0605BH07C	Garage	Chimney Flue Cement
0605BH08A	Rear Porch	Slate Floor Tile
0605BH08B	Rear Porch	Slate Floor Tile
0605BH09A	Rear Porch	Slate Floor Tile Thinset
0605BH09B	Rear Porch	Slate Floor Tile Thinset
0605BH10A	Rear Porch	Slate Floor Tile Grout
0605BH10B	Rear Porch	Slate Floor Tile Grout
0605BH11A	Kitchen	Ceramic Floor Tile
0605BH11B	Kitchen	Ceramic Floor Tile
0605BH12A	Kitchen	Ceramic Floor Tile Thinset
0605BH12B	Kitchen	Ceramic Floor Tile Thinset

Analysis Method: ☒ PLM ☐ Other

Turnaround Time 24 hour

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____. Please call the EnviroScience Laboratory if analyses will be late at 203-374-3748.

Fax Results to the EnviroScience Laboratory at: 888-838-1160.

Special Instructions: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. No point count.

Samples collected by: B Hatton **Date:** 6-5-14 **Time:** _____

Samples [Rec'd][Sent by] [Bd] **Date:** [6-5] **Time:** _____

Samples Received by: _____ **Date:** _____ **Time:** _____

Shipped To: ☒ EMSL State NJ ☐ Other _____

Method of Shipment: ☒ Fed Ex ☐ Other _____

OrderID: 041416024

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SAMPLE LOG FOR ASBESTOS BULKS

Sheet 2 of 4

Project Name: Storm Sandy Residential Rehab-9 Parker Street, Preston, CT Project No. 20140277.C21

Building: 9 Parker Street Project Manager: K. McCarthy

Sample ID	Sample Location	Material
0605BH13A	Kitchen	Ceramic Floor Tile Grout
0605BH13B	Kitchen	Ceramic Floor Tile Grout
0605BH14A	Kitchen	Paper/Tar under Ceramic Floor Tile
0605BH14B	Kitchen	Paper/Tar under Ceramic Floor Tile
0605BH15A	Basement	Concrete Block
0605BH15B	Basement	Concrete Block
0605BH16A	Basement	Concrete Block Grout
0605BH16B	Basement	Concrete Block Grout
0605BH17A	Exterior of Building	Concrete Foundation
0605BH17B	Exterior of Building	Concrete Foundation
0605BH18A	Exterior of Building	Chimney Brick
0605BH18B	Exterior of Building	Chimney Brick
0605BH19A	Exterior of Building	Chimney Brick Grout
0605BH19B	Exterior of Building	Chimney Brick Grout
0605BH20A	Exterior Roof	Bottom Layer Roofing Shingles

Analysis Method: ☒ PLM ☐ Other Turnaround Time 24 hour

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____. Please call the EnviroScience Laboratory if analyses will be late at 203-374-3748.

Fax Results to the EnviroScience Laboratory at: 888-838-1160.

Special Instructions: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. No point count.

Samples collected by: B Hoffman **Date:** 6-5-14 **Time:** _____

Samples [Rec'd][Sent by] [BH] [ ] **Date:** [6-5] [ ] **Time:** _____

Samples Received by: _____ **Date:** _____ **Time:** _____

Shipped To: ☒ EMSL State NJ ☐ Other _____

Method of Shipment: ☒ Fed Ex ☐ Other _____

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OrderID: 041416024

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SAMPLE LOG FOR ASBESTOS BULKS

Sheet 4 of 4

Project Name: Storm Sandy Residential Rehab-9 Parker Street, Preston, CT Project No. 20140277.C2E

Building: 9 Parker Street Project Manager: K. McCarthy

Sample ID	Sample Location	Material
0605BH20B	Exterior Roof	Bottom Layer Roofing Shingles
0605BH21A	Exterior Roof	Top Layer Roofing Shingles
0605BH21B	Exterior Roof	Top Layer Roofing Shingles
0605BH22A	Exterior Roof	Base Sheet
0605BH22B	Exterior Roof	Base Sheet
0605BH23A	Exterior Roof	Chimney Flashing
0605BH23B	Exterior Roof	Chimney Flashing
0605BH23C	Exterior Roof	Vent Flashing
0605BH24A	Exterior Rear Porch Roof	Flashing at Siding
0605BH24B	Exterior Rear Porch Roof	Flashing at Siding
0605BH24C	Exterior Rear Porch Roof	Flashing at Siding

Analysis Method: ☒ PLM ☐ Other Turnaround Time 24 hour

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____. Please call the EnviroScience Laboratory if analyses will be late at 203-374-3748.

Fax Results to the EnviroScience Laboratory at: 888-838-1160.

Special Instructions: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. No point count.

Samples collected by: B Holohan **Date:** 6-5-14 **Time:** _____

Samples [Rec'd] [Sent by] [BH] **Date:** [6-5] **Time:** _____

Samples Received by: _____ **Date:** _____ **Time:** _____

Shipped To: ☒ EMSL State NJ ☐ Other _____

Method of Shipment: ☒ Fed Ex ☐ Other _____

J:\P2014\0277\c 2E\lab data\COC BH 20140605.doc

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EMSL Order:	041416024
CustomerID:	ENVI54
CustomerPO:	20140277.C2E
ProjectID:	

Attn: **Kevin McCarthy**
Fuss & O'Neill EnviroScience, LLC
146 Hartford Road
Manchester, CT 06040

Phone:	(860) 646-2469
Fax:	(888) 838-1160
Received:	06/07/14 10:00 AM
Analysis Date:	6/8/2014
Collected:	6/5/2014

Project: **Storm Sandy Residential Rehab- 9 Parker Street, Preston, CT/ 20140277.C2E**

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
0605BH01A *041416024-0001*	Main Floor - Textured Ceiling Paint				**Insufficient Material**
0605BH01B *041416024-0002*	Main Floor - Textured Ceiling Paint	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0605BH01C *041416024-0003*	Main Floor - Textured Ceiling Paint	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0605BH01D *041416024-0004*	Main Floor - Textured Ceiling Paint	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0605BH01E *041416024-0005*	Basement - Textured Ceiling Paint	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0605BH01F *041416024-0006*	Basement - Textured Ceiling Paint	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0605BH01G *041416024-0007*	Basement - Textured Ceiling Paint	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0605BH02A *041416024-0008*	Main Floor - Sheetrock	Brown/White Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (other)	**None Detected**
0605BH02B *041416024-0009*	Basement Stairwell - Sheetrock	Brown/Gray Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	**None Detected**

Analyst(s)
Frank Dicrescenzo (25)
Jamie Marczak (26)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

Initial report from 06/09/2014 06:51:45

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Project: **Storm Sandy Residential Rehab- 9 Parker Street, Preston, CT/ 20140277.C2E**

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
0605BH03A *041416024-0010*	Main Floor - Taping Compound	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
0605BH03B *041416024-0011*	Basement Stairwell - Taping Compound	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
0605BH04 *041416024-0012*	Basement Stairwell - Sheetrock & Taping Compound Composite	Brown/Gray/Tan Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	<1% Chrysotile
0605BH05A *041416024-0013*	Kitchen - White Sink Undercoating	White Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (other)	None Detected
0605BH05B *041416024-0014*	Kitchen - White Sink Undercoating	White Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
0605BH06A *041416024-0015*	Rear Porch- Older Exterior Window - Interior Window Glazing Compounds	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0605BH06B *041416024-0016*	Rear Porch- Older Exterior Window - Interior Window Glazing Compounds	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)
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Collected:	6/5/2014

Project: **Storm Sandy Residential Rehab- 9 Parker Street, Preston, CT/ 20140277.C2E**

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
0605BH06C *041416024-0017*	Rear Porch- Older Exterior Window - Interior Window Glazing Compounds	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0605BH07A *041416024-0018*	Garage - Chimney Flue Cement	Gray/White Non-Fibrous Homogeneous	8% Wollastonite	92% Non-fibrous (other)	None Detected
0605BH07B *041416024-0019*	Garage - Chimney Flue Cement	Gray/White Non-Fibrous Homogeneous	8% Wollastonite	92% Non-fibrous (other)	None Detected
0605BH07C *041416024-0020*	Garage - Chimney Flue Cement	Gray Fibrous Homogeneous	10% Wollastonite	90% Non-fibrous (other)	None Detected
0605BH08A *041416024-0021*	Rear Porch - Slate Floor Tile	Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0605BH08B *041416024-0022*	Rear Porch - Slate Floor Tile	Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0605BH09A *041416024-0023*	Rear Porch - Slate Floor Tile Thinset	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0605BH09B *041416024-0024*	Rear Porch - Slate Floor Tile Thinset	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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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
0605BH10A *041416024-0025*	Rear Porch - Slate Floor Tile Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0605BH10B *041416024-0026*	Rear Porch - Slate Floor Tile Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0605BH11A *041416024-0027*	Kitchen - Ceramic Floor Tile	Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0605BH11B *041416024-0028*	Kitchen - Ceramic Floor Tile	Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0605BH12A *041416024-0029*	Kitchen - Ceramic Floor Tile Thinset	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0605BH12B *041416024-0030*	Kitchen - Ceramic Floor Tile Thinset	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0605BH13A *041416024-0031*	Kitchen - Ceramic Floor Tile Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0605BH13B *041416024-0032*	Kitchen - Ceramic Floor Tile Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Project: **Storm Sandy Residential Rehab- 9 Parker Street, Preston, CT/ 20140277.C2E**

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
0605BH14A *041416024-0033*	Kitchen - Paper/ Tar Under Ceramic Floor Tile	Gray Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
0605BH14B *041416024-0034*	Kitchen - Paper/ Tar Under Ceramic Floor Tile	Black Fibrous Homogeneous	50% Cellulose	50% Non-fibrous (other)	None Detected
0605BH15A *041416024-0035*	Basement - Concrete Block	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0605BH15B *041416024-0036*	Basement - Concrete Block	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0605BH16A *041416024-0037*	Basement - Concrete Block Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0605BH16B *041416024-0038*	Basement - Concrete Block Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0605BH17A *041416024-0039*	Exterior of Building - Concrete Foundation	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0605BH17B *041416024-0040*	Exterior of Building - Concrete Foundation	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Analysis Date:	6/8/2014
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Project: **Storm Sandy Residential Rehab- 9 Parker Street, Preston, CT/ 20140277.C2E**

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
0605BH18A *041416024-0041*	Exterior of Building - Chimney Brick	Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0605BH18B *041416024-0042*	Exterior of Building - Chimney Brick	Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0605BH19A *041416024-0043*	Exterior of Building - Chimney Brick Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0605BH19B *041416024-0044*	Exterior of Building - Chimney Brick Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0605BH20A *041416024-0045*	Exterior Roof - Bottom Layer Roofing Shingles	Gray/Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (other)	**None Detected**
0605BH20B *041416024-0046*	Exterior Roof - Bottom Layer Roofing Shingles	Gray/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	**None Detected**
0605BH21A *041416024-0047*	Exterior Roof - Top Layer Roofing Shingles	Gray/Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (other)	**None Detected**
0605BH21B *041416024-0048*	Exterior Roof - Top Layer Roofing Shingles	White/Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (other)	**None Detected**

Analyst(s)
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or other approved signatory

Initial report from 06/09/2014 06:51:45

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EMSL Order:	041416024
CustomerID:	ENVI54
CustomerPO:	20140277.C2E
ProjectID:	

Attn: **Kevin McCarthy**
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Phone:	(860) 646-2469
Fax:	(888) 838-1160
Received:	06/07/14 10:00 AM
Analysis Date:	6/8/2014
Collected:	6/5/2014

Project: **Storm Sandy Residential Rehab- 9 Parker Street, Preston, CT/ 20140277.C2E**

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
0605BH22A *041416024-0049*	Exterior Roof - Base Sheet	Black Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (other)	None Detected
0605BH22B *041416024-0050*	Exterior Roof - Base Sheet	Black Fibrous Homogeneous	50% Cellulose	50% Non-fibrous (other)	None Detected
0605BH23A *041416024-0051*	Exterior Roof - Chimney Flashing	Black Fibrous Homogeneous		94% Non-fibrous (other)	6% Chrysotile
0605BH23B *041416024-0052*	Exterior Roof - Chimney Flashing				Stop Positive (Not Analyzed)
0605BH23C *041416024-0053*	Exterior Roof - Vent Flashing				Stop Positive (Not Analyzed)
0605BH24A *041416024-0054*	Exterior Rear Porch Roof - Flashing at Siding	Black Non-Fibrous Homogeneous		92% Non-fibrous (other)	8% Chrysotile
0605BH24B *041416024-0055*	Exterior Rear Porch Roof - Flashing at Siding				Stop Positive (Not Analyzed)
0605BH24C *041416024-0056*	Exterior Rear Porch Roof - Flashing at Siding				Stop Positive (Not Analyzed)

Analyst(s)
Frank Dicrescenzo (25)
Jamie Marczak (26)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

Initial report from 06/09/2014 06:51:45

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Appendix C

Lead Paint Testing Procedures and Equipment

Standard Operating Procedures
HUD and State of Connecticut Lead-Based Paint Inspections

Testing Procedures and Equipment

The U. S. Department of Housing and Urban Development (HUD) "Guidelines for the Evaluation and Control of Lead Hazards in Housing, September 1997" were consulted for this lead evaluation. HUD has been the agency at the federal level with responsibility for the establishment of national lead-based paint standards for testing and abatement. The HUD document will be referenced as the Guidelines in this report. The State of Connecticut Department of Public Health's current lead regulations, Lead Poisoning Prevention and Control (19a-111-1 through 19a-111-11) were also consulted.

This lead evaluation was comprehensive. A comprehensive inspection means that representative painted surfaces were systematically evaluated on a room-by-room basis in accordance with the Guidelines and the State of Connecticut regulations.

Lead-based paint surfaces and components were identified by utilizing on-site x-ray fluorescence (XRF) instruments. EnviroScience Consultants, Inc. owns and utilizes Radiation Monitoring Device LPA-1s (RMD instruments) exclusively for lead-based paint testing. Each instrument is operated in accordance with state and federal and manufacturer standards on the use of the instruments. State and federal protocols provide, with the exception of wall surfaces, one reading with the instrument on a representative component in each room, i.e., baseboard, chair rail, etc., as sufficient to establish the lead paint classification of all the representatives of that component type in a room. In the case of walls, because of the large spatial areas involved and the variability in lead content in paint over such large areas, the federal and state governments want a reading on each wall surface in a room. Therefore, representative testing is not permitted for walls.

The federal government has developed Performance Characteristic Sheets (PCS) for the type of instrument cited above. Each instrument must be calibrated in accordance with these PCSs on a 1.0-milligram lead standard. Each of EnviroScience's instruments has one of these standards assigned to it. Some of the standards were purchased directly from the government and the others from the manufacturers of the instruments.

For the RMD in the standard reading mode on metal, a Substrate Equivalent Lead (SEL) concentration has to be determined. To determine the SEL, the paint is removed from the surface of the component to obtain a bare substrate reading. After removing the paint, the surface is wiped with a 5% trisodium phosphate solution (a heavy duty cleaner). All paint residue is collected and properly disposed. Once the paint and surrounding area are cleaned, the XRF is utilized to determine the SEL for each surface. The SEL values are subtracted from the XRF values to determine the Corrected Lead Concentration (CLC). The CLC is the lead content of the paint on the component tested.

The RMD instrument has federal government-determined positive and negative ranges for the definition of lead-based paint. XRF results are classified using either the threshold or the inconclusive range. For the threshold, results are classified as positive if they are greater than or equal to the threshold and negative if they are less than the threshold. There is no inconclusive

classification when using the threshold values associated with an RMD instrument. The ranges for the RMD instrument and their various operating modes are as follows:

Radiation Monitoring Device LPA Analyzer 1

30-Second Standard Mode Reading Description	Substrate	Threshold (mg/cm^2)
Results corrected for substrate bias on metal substrate only.	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	0.9
	Plaster	1.0
	Wood	1.0

Quick Mode Reading Description	Substrate	Threshold (mg/cm^2)	Inconclusive Range (mg/cm^2)
Readings not corrected for substrate bias on any substrate.	Brick	1.0	None
	Concrete	1.0	None
	Drywall	1.0	None
	Metal	1.0	None
	Plaster	1.0	None
	Wood	1.0	None

Prior to the start of any testing, a sketch of the building is drawn, and side designations are given to help identify exactly where readings were taken. Drawings depicting the room-numbering scheme are located on the cover page(s) for the building(s) inspected. Each side of the building was labeled A, B, C, or D. The wall "A" side of the unit is generally the side of primary entrance into a dwelling, and this room is always Room 1. Areas in the units include rooms, hallways, and closets. Areas are numbered in a clockwise fashion as building construction allows. This allows the inspector to indicate which substrate surface was tested. The condition of the surface is described by a check mark in the appropriate column, under the heading "condition of surface" on the testing form.

When more than one surface type was present on a side, the component tested was indicated with a number. If two windows were present on a building side, they were numbered left to right. Closet shelves and shelf supports were numbered top to bottom.

It is understood that the room layouts presented in the report are in conformance with the conditions that exist at the time the testing is performed. EnviroScience avoids labeling a room solely by its current functional use (i.e., living room, bedroom, etc.) since this use can change over time. Similarly, room layouts can change dramatically as dwellings are renovated and additions are built, incorporating existing rooms, or existing interior walls are moved or eliminated altogether.

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Lead Dust Wipe Sampling Protocol

Data Collection

A. A description of the sample location is recorded.

B. Surface type (floor, windowsill, window well) is noted.

C. Surface area measurements are recorded.

Wipe Sampling Method

A. The area to be wiped is identified and measured.

B. A disposable glove is put on and the "ghost wipe" package is opened.

C. Without touching any other surface, the wipe is opened and placed flat down on the surface. Using firm, consistent pressure, a wipe is taken in a single "S" motion.

D. Next the wipe is folded in half with the contaminated side facing inward and another wipe is taken again at 90 degrees to the first "S" wipe. Do not use a scrubbing motion, but be sure to collect all visible dust in the measured area.

E. The wipe is folded again with the contaminated side inward. Without touching any other surface, the wipe is placed into a plastic centrifuge tube. The tube is sealed and labeled. The sample number indicates the date and sampler's identity.

F. The samples are submitted to our laboratory on our standard sample log. Date and time of transfer is recorded to ensure proper chain of custody. The analytical procedure utilized is a modified EPA SW-846-3050. Blanks are submitted in accordance with EnviroScience's QA/QC program.

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Lead In Soil Composite Sampling Protocol

Linear Transect Method:

For use around roadways, buildings, and other structures such as painted fencing, concrete walls, etc. Each side of the building is labeled with a letter. The 'A' side of the building is the street side. The remaining sides are labeled B, C, and D, clockwise around the building. Fencing and concrete walls are similarly labeled if there is a street side. Otherwise, along with roadways, these structures can be labeled using the directional points North, South, East and West.

1. Linear transects are established parallel to the building, wall, fence or roadway at 2 foot intervals.

2. Three (3) to ten (10) distinct locations roughly equidistant from one another along the transect line are selected as sample points. As a general rule, we would like to see five sampling points for each 100 feet of transect line, but sample points should be at least 2 feet apart, so in smaller areas (less than 10 feet), fewer samples may be collected.

3. Samples of the top one-half inch (.5") of soil should be taken using a metal spoon or stainless-steel scoop. Collect soil until a circular hole of approximately 2 inches in diameter (0.5" deep) has been created. Samples from each of the sampling points should be composited into a 24-ounce plastic bag of at least 3-mil in weight. The bags should be either zip-locked or foldable with puncture proof tabs.

4. After each composite sample is collected, the sampling spoon or scoop should be thoroughly cleaned with a disposable wipe to prevent cross contamination of other composite samples to be collected in other areas on the site.

5. The soil samples are dried, weighed out and digested in nitric acid according to EPA Method 3050. Analysis is performed by direct aspiration flame atomic absorption spectrophotometry according to EPA Method 7420. Results are expressed in milligrams per kilogram (mg/kg), or parts-per-million (ppm).

Grid Method:

In other areas, such as play areas and other open spaces, an X shaped axis should be developed with directional reference points of North, South, East and West. At least five, but not more than ten sampling points should be designated along each axis. The sampling points should be equidistant from one another and should be at least one foot distant from each other.

The sampling and compositing procedures outlined in the linear transect method should be followed for each axis.

For all soil sampling, a property sketch should be drawn. It is recommended that you use the space provided on the back of the lead in soil sample log.

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Appendix D

Lead Testing Field Data Sheets

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LEAD INSPECTION COVER SHEET

Inspector's Information

Inspector's Name: Robert Hobbins **License Number:** 2156

XRF Model: LPA – 1B **Serial Number:** 3241

Date of Inspection: June 5, 2014 **Project Number:** 20140277.C2E

Property Information

Building Address: 9 Parker Street
(Street)

Preston (City) CT (State) Age of Property: N/A

Describe Structure:

Sheetrock ceilings and walls with wood /metal window and door systems and wood/concrete floors

Exterior wood siding with concrete foundation

Are there lead hazards present? ☒ Yes ☐ No
Were lead dust wipes taken? ☒ Yes ☐ No
Were soil samples collected? ☒ Yes ☐ No
Were drinking water samples collected? ☒ Yes ☐ No

Single Family Dwelling ☒

Is there an EBL child present?
☐ Yes ☒ No ☐ Unknown

Is there a child under six years of age in the dwelling?
☐ Yes ☒ No ☐ Unknown

Multiple Family Dwelling ☐

Number of units in building: _____
Number of units tested: _____
Is there an EBL child present in the building?
☐ Yes ☐ No ☐ Unknown
If EBL child, which unit(s)? _____
Is there a child under six years of age in the building?
☐ Yes ☐ No ☐ Unknown
If child under six, which unit(s)? _____

XRF Calibration Check

Calibration Paint Film Used: ☐ NIST 1.02 mg/cm² ☒ Manufacturer's Standard 1.0 mg/cm²

Calibration Check Limits Used: ☒ RMD (0.7 to 1.3 mg/cm² inclusive)
☐ Scitec MAP4 (0.6 to 1.2 mg/cm² inclusive)

	Hour	First Reading	Second Reading	Third Reading	Average
First Check	0920	0.9	1.1	1.0	1.0
Second Check	1110	1.0	1.0	1.1	1.03
Third Check	1512	1.0	0.9	1.1	1.0
Fourth Check					

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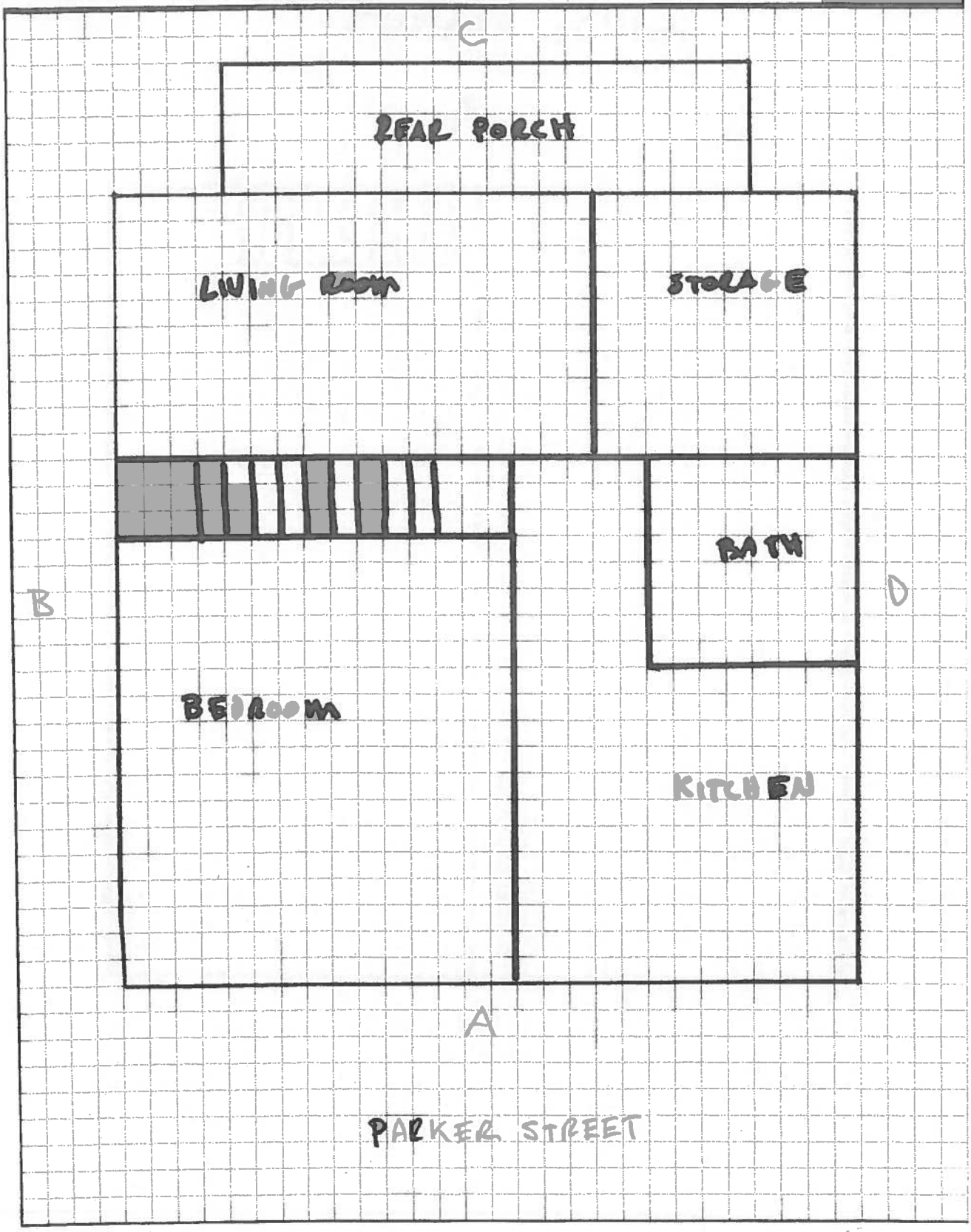
Prepared By	Date	Checked By	Date	Project No

Sheet No of

MAIN FLOOR



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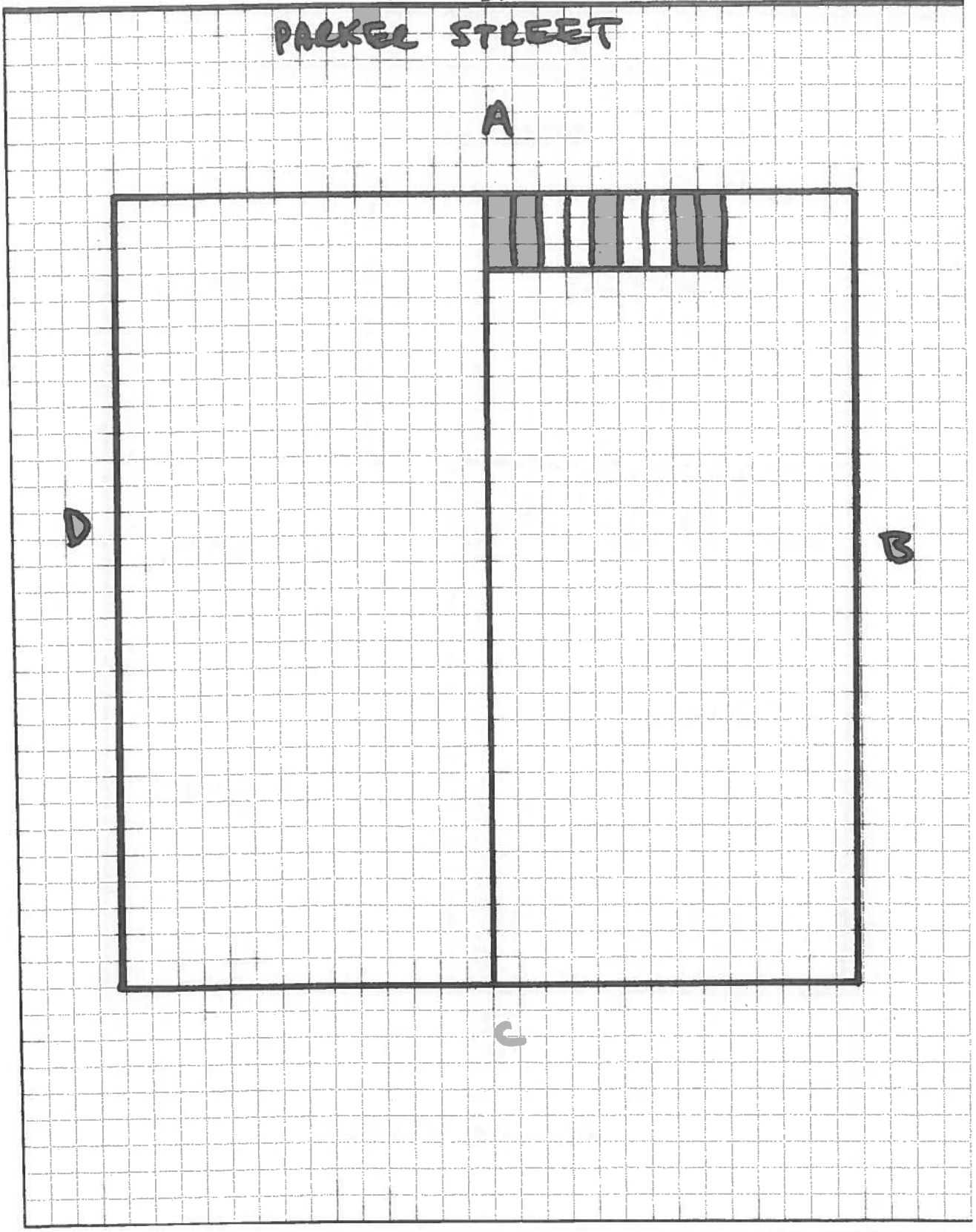
Prepared By	Date	Checked By	Date	Project No

Sheet No
of

BASEMENT

PACKEE STREET



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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 9 Parker Street, Preston, CT **Apt. #:**

Floor: Main **Room:** Porch **Page** 1 **of** 12

Project Name: 9 Parker Street **Project Number:** 20140277.C2E

Project Manager: K. McCarthy **(If Positive - Check All That Apply)** * Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B, N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor	-0.3		Concrete					
	Baseboards								
A	Wall	0.8		W					Yellow
B	Wall	-0.1		W					Brown
C	Wall								
D	Wall	-0.1							
	Chair rail								
	Ceiling	-0.2		W					Beam
	Crown Molding								
	Door	-0.4		✓					
	Casing	-0.0		W					
	Jamb								
	Door								
	Casing								
	Jamb								
	Window Trim	-0.2	✓	W	Yes				
	Sill	3.9	✓	W	Yes				
	Sash	0.4		W					
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Radiator								
	Wall Molding								
A	[redacted]								
B									
C									
D									
	Window Trim								Brown

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 9 Parker Street, Preston, CT Apt. #:

Floor: main Room: Storage Page 2 of 12

Project Name: 9 Parker Street Project Number: 20140277.C2E

Project Manager: K. McCarthy (If Positive - Check All That Apply) * Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B, N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards								
A	Wall	-0.4		SR					
B	Wall	0.1		SR					
C	Wall	-0.3		SR					
D	Wall	-0.2		SR					
	Chair rail								
	Ceiling	0.3		SR					
	Crown Molding	3.5	✓	W	NO				
	Door								
	Casing	-01		W					
	Jamb	2.8	✓	W	NO				
	Door								
	Casing								
	Jamb								
	Window Trim	-0.0		W					
	Sill	-0.4		W					
	Sash NC								
	Well	-0.5		W					
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Radiator	0.2		M					
	Wall Molding								
A	[redacted]								
B									
C									
D									

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 9 Parker Street, Preston, CT Apt. #:

Floor: Main Room: Living Room Page 3 of 12

Project Name: 9 Parker Street Project Number: 20140277.C2E

Project Manager: K. McCarthy **(If Positive - Check All That Apply)** * Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B, N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards	-0.2		W					
A	Wall	-0.3		SR					
B	Wall	-0.1		SR					
C	Wall	-0.0		SR					
D	Wall	-0.4		SR					
	Chair rail								
	Ceiling	-0.1		SR					
	Crown Molding	1.1	✓	W	NO				
	Door	-0.1		W					
	Casing	0.1		W					
	Jamb	0.6	✓	W	YES				
	Door								
	Casing								
	Jamb								
	Window Trim	0.1		W					
	Sill	-0.1		W					
	Sash	0.5	✓	W	NO				
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Radiator	-0.3		M					
	Wall Molding								
A	[redacted]								
B									
C									
D		-0.2		SR					
		-0.2		W					
		-0.1		W					
		-0.1		W					
	closet trim	0.1		W					

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 9 Parker Street, Preston, CT **Apt. #:**

Floor: Main **Room:** Common Area **Page** 4 **of** 12

Project Name: 9 Parker Street **Project Number:** 20140277.C2E

Project Manager: K. McCarthy **(If Positive - Check All That Apply)** * Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B, N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards	16.3		W					
A	Wall								
B	Wall	1.6	✓	SR	NO				
C	Wall	-0.2		SR					
D	Wall	-0.3		SR					
	Chair rail								
	Ceiling	-0.3 -0.2		SR					
	Crown Molding	-0.3		W					
	Door	~~3.4~~		W					Basement
	Casing	6.7	✓	W	NO				
	Jamb	3.7	✓	W	NO				
	Door								
	Casing								
	Jamb								
	Window Trim								
	Sill								
	Sash								
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Radiator								
	Wall Molding								
A	[redacted]								
B									
C									
D									
	Radiator	-0.4		W					

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 9 Parker Street, Preston, CT **Apt. #:**

Floor: Main **Room:** Bath **Page** 5 **of** 12

Project Name: 9 Parker Street **Project Number:** 20140277.C2E

Project Manager: K. McCarthy **(If Positive - Check All That Apply)** * Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B, N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards								
A	Wall	-0.0		Ceram.					
B	Wall	0.2		Ceram.					
C	Wall	0.5		Ceram.					
D	Wall	0.3		Ceram.					
	Chair rail								
	Ceiling	0.1		W					
	Crown Molding	-0.2		W					
	Door								
	Casing	-0.2		W					
	Jamb	3.0	/	W					
	Door								
	Casing								
	Jamb								
	Window Trim	-0.3		W					
	Sill	-0.3		W					
	Sash NC								
	Well	-0.4		W					
	Cabinet Base	-0.0		W					
	Door Exterior								
	Door Interior								
	Walls								
	Shelves	-0.2		W					
	Shelf Supports								
	Radiator	-0.2		M					
	Wall Molding								
A									
B									
C									
D									

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 9 Parker Street, Preston, CT Apt. #:

Floor: main Room: Bedroom Page 6 of 12

Project Name: 9 Parker Street Project Number: 20140277.C2E

Project Manager: K. McCarthy (If Positive - Check All That Apply) * Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B, N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards								
A	Wall	-0.1		SR					
B	Wall	-0.2		SR					
C	Wall	-0.1		SR					
D	Wall	0.0		SR					
	Chair rail								
	Ceiling	-0.1		SR					
	Crown Molding	0.2		W					
	Door	-0.2		W					
	Casing	4.3	✓	W	yes.				
	Jamb	4.3	✓	W	NO				
	Door								closet
	Casing	-0.2		W					
	Jamb								
	Window Trim	-0.2		W					
	Sill	-0.4		W					
	Sash								
	Well	-0.4		V					
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Radiator	-0.3		M					
	Wall Molding								
A	[redacted]								
B									
C									
D									

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 9 Parker Street, Preston, CT **Apt. #:**_____

Floor: Main **Room:** KITCHEN **Page** ____ of ____

Project Name: 9 Parker Street **Project Number:** 20140277.C2E

Project Manager: K. McCarthy **(If Positive - Check All That Apply)** * Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B, N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor	7.3	✓	Cel.	NO				
	Baseboards								
A	Wall	-0.2		SR					
B	Wall	-0.2		SR					
C	Wall	-0.2		W					
D	Wall	-0.2		W					
	Chair rail	-							
	Ceiling	-0.4		W					
	Crown Molding								
	Door	-0.2		M					
	Casing	-0.0		W					
	Jamb	-0.6		W					
	Door								
	Casing								
	Jamb								
	Window Trim	-0.1		W					
	Sill	-0.2		W					
	Sash	-0.1		V					
	Well NC								
	Cabinet Base	-0.3		W					
	Door Exterior	-0.3		W					
	Door Interior	-0.3		W					
	Walls								
	Shelves								
	Shelf Supports								
	Radiator								
	Wall Molding								
A	[redacted]								
B									
C									
D									

Notes: _____

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XRF FIELD DATA SHEET – EXTERIOR OF SIDE A

Address: 9 Parker Street, Preston, CT

Project Name: 9 Parker Street

Project Number: 20140277.C2E

Project Manager: K..McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation								
	Skirt Board								
	Corner Boards								
	Siding	-0.1		W					
	Upper Trim								
	Door								
	Casing	0.4		W					
	Jamb								
	Threshold								
	Kick Board								
	Storm Door	-0.3		M					
	Window Sill	3.9	/	W	Yes				
	Trim	0.8		W					
	Sash								
	Blind Stops								
	Storm Window								
	Basement Sash								
	Frame								
	Bulkhead								
	Downspouts								
	Porch Floor								
	Ceiling Joist								
	Lower Trim								
	Lower Railing								
	Balusters								
	Railing Cap								
	Ceiling								
	Lattice								
	Lattice Frame								
	Support Columns								
	Column Base								
	Brackets								
	Hand Rails								
	Treads								
	Risers								
	Stringers								

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XRF FIELD DATA SHEET – EXTERIOR OF SIDE B

Address: 9 Parker Street, Preston, CT
Page 9 **of** 12
Project Name: 9 Parker Street
Project Number: 20140277.C2E
Project Manager: K. McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation								
	Skirt Board								
	Corner Boards								
	Siding	0.2		W					
	Upper Trim	-0.2		W					
	Door								
	Casing	5.1		W	NO				
	Jamb	29.9	/	W	NO				
	Threshold								
	Kick Board								
	Storm Door	-0.5		M					
	Window Sill	3.0	/	W	NO				
	Trim	1.1	/	W	NO				
	Sash	-0.4		C					
	Blind Stops								
	Storm Window	-0.5		M					
	Basement Sash								
	Frame								
	Bulkhead								
	Downspouts								
	Porch Floor								
	Flooring Joist								
	Lower Trim								
	Lower Railing								
	Balusters								
	Railing Cap								
	Ceiling								
	Lattice								
	Lattice Frame								
	Support Columns								
	Column Base								
	Brackets								
	Hand Rails								
	Treads								
	Risers								
	Stringers								

FUSS & O'NEILL
EnviroScience, LLC

www.fando.com

146 Hartford Road, Manchester, CT 06040

(860) 646-2469 Fax (860) 649-6883

XRF FIELD DATA SHEET – EXTERIOR OF SIDE D

Address: 9 Parker Street, Preston, CT **Page** 11 **of** 12

Project Name: 9 Parker Street **Project Number:** 20140277.C2E

Project Manager: K. McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation								
	Skirt Board								
	Corner Boards								
	Siding	0.2		W					
	Upper Trim	0.0		W					
	Door								
	Casing								
	Jamb								
	Threshold								
	Kick Board								
	Storm Door								
	Window Sill	3.7	/	W	ND				
	Trim	1.5	/	W	ND				
	Sash								
	Blind Stops								
	Storm Window								
	Basement Sash								
	Frame								
	Bulkhead								
	Downspouts								
	Porch Floor								
	Ceiling Joist								
	Lower Trim								
	Lower Railing								
	Balusters								
	Railing Cap								
	Ceiling								
	Lattice								
	Lattice Frame								
	Support Columns								
	Column Base								
	Brackets								
	Hand Rails								
	Treads								
	Risers								
	Stringers								

FUSS & O'NEILL
EnviroScience, LLC

Appendix E

Lead in Dust Sample Results and Chain of Custody Form

OrderID: 201408102

FUSS & O'NEILL
EnviroScience, LLC

www.fando.com

146 Hartford Road, Manchester, CT 06040 (860) 646-2469 Fax (860) 649-6883

SAMPLE LOG FOR LEAD WIPES

Sheet No. 1 of 1

Project Name: Storm Sandy Residential rehab
Building: 9 Rocky St. Preston, CT

Project Number: 20140277.02E
Project Manager: KM

	Sample ID Number	Sample Location/Building	Surface Component	Surface Sq. Ft.	Result (ug/ft)	Lab Number
1.	060514UA-03	Room #1	Floor	144		
2.	-04	↓	W. Sill	36		
3.	-05	Room #2	Floor	144		
4.	-06	↓ A-Window	W. Sill	36		
5.	-07	Room #3	Floor	144		
6.	-08	↓ C-Window	W. Sill	36		
7.	-09	Room #4	Floor	144		
8.	-10	↓ Dup	Floor	144		
9.	-11	↓	W. Sill	36		
10.	-12	Field Blank	—	N/A		
11.	-13	Field Blank	—	N/A		

Analysis Method: EPA-SW-846-3050(MOD.)
Wipe Media ☑ ASTM ☐ Non ASTM

Turnaround Time 24 hrs

Based on the turnaround time indicated above, analyses are due to Fuss & O'Neill EnviroScience on or before this date: 6/9/14
Please call the Fuss & O'Neill EnviroScience laboratory at 860-646-2469 if analyses will be late.

Fax Results To: Fuss & O'Neill EnviroScience Laboratory at 888-838-1160

Special Instructions: _____

Samples Collected By: Ulkens Augusta Date: 6/5/14 Time: 1100 pm
Samples Rec'd/Sent By: _____ Date: 6/6/14 Time: _____
Samples Received By: _____ Date: _____ Time: 957 AM Fax

Shipped To: ☑ EMSL (State) NJ ☐ Other _____

Method of Shipment: ☑ Fed Ex. ☐ UPS Overnight ☐ UPS Ground ☐ Other _____

Q:\EnviroScience\Admin\FORMS\Lead\Lead Wipes_Sample Log rev 0611.doc

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 786-5974
http://www.EMSL.com cinnaminsonlead1ab@emsl.com

EMSL Order:	201408102
CustomerID:	ENVI54
CustomerPO:	20140277.C2E
ProjectID:	

Attn: **Fuss & O'Neill EnviroScience, LLC**
146 Hartford Road
Manchester, CT 06040

Phone:	(860) 646-2469
Fax:	(888) 838-1160
Received:	06/06/14 9:57 AM
Collected:	6/5/2014

Project: **20140277.C2E / Storm Sandy Residental Rehab / 9 Parker Street Preston,CT**

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Area Sampled*	*Lead Concentration*
060514UA-03	*0001*	6/5/2014	6/6/2014	144 in²	1200 µg/ft²
Site: Room #1 Floor					
060514UA-04	*0002*	6/5/2014	6/6/2014	36 in²	<40 µg/ft²
Site: Room #1 W.Sill					
060514UA-05	*0003*	6/5/2014	6/6/2014	144 in²	710 µg/ft²
Site: Room #2 Floor					
060514UA-06	*0004*	6/5/2014	6/6/2014	36 in²	780 µg/ft²
Site: Room #2 A-Window W.Sill					
060514UA-07	*0005*	6/5/2014	6/6/2014	144 in²	<10 µg/ft²
Site: Room #3 Floor					
060514UA-08	*0006*	6/5/2014	6/6/2014	36 in²	<40 µg/ft²
Site: Room #3 C-Window W.Sill					
060514UA-09	*0007*	6/5/2014	6/6/2014	144 in²	<10 µg/ft²
Site: Room #4 Floor					
060514UA-10	*0008*	6/5/2014	6/6/2014	144 in²	<10 µg/ft²
Site: Room #4 Dup Floor					
060514UA-11	*0009*	6/5/2014	6/6/2014	36 in²	<40 µg/ft²
Site: Room #4 W.Sill					
060514UA-12	*0010*	6/5/2014	6/6/2014	n/a	<10 µg/wipe
Site: Field Blank					
060514UA-13	*0011*	6/5/2014	6/6/2014	n/a	<10 µg/wipe
Site: Field Blank					

Julie Smith - Laboratory Director
NJ-NELAP Accredited:03036
or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results 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. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 06/06/2014 17:44:53

FUSS & O'NEILL
EnviroScience, Inc.

Appendix F

Lead in Soil Results and Chain of Custody Form

OrderID: 201408098

FUSS & O'NEILL
EnviroScience, LLC
146 Hartford Road, Manchester, CT 06040
www.fando.com
(860) 646-2469 Fax (860) 649-6883

201408098

SAMPLE LOG FOR LEAD SOIL

Sheet No. 1 of 1

Project Name: Storm Sandy Residential Rehab
Building: 9 Rivers St. Pos[illegible] CT
Project Number: 20140277.C25
Project Manager: KM

Sample ID Number	Sample Location/Building	Soil Condition	Result (%)	Lab Number
060514UA-14	C-Side	Bare		

Analysis Method: EPA-SW-846-3050-7420

Turnaround Time 24hrs

__________ Date: __________ Time: __________
__________ Date: __________ Time: __________

Based on the turnaround time indicated above, analyses are due to Fuss & O'Neill EnviroScience on or before this date: 6/9/14.
Please call the Fuss & O'Neill EnviroScience laboratory at 860-646-2469 if analyses will be late.

Fax Results To: Fuss & O'Neill EnviroScience Laboratory at 888-838-1160

Special Instructions: __________

Samples Collected By: Ulkens Augustin Date: 6/5/14 Time: 1108
Samples Rec'd/Sent By: [illegible] Date: ______ Time: ______
Samples Received By: [illegible] Date: 6/6/14 Time: 9:57 4 [illegible]

Shipped To: ☑ EMSL (State) NJ ☐ Other ______

Method of Shipment: ☑ Fed Ex. ☐ UPS Overnight ☐ UPS Ground ☐ Other ______

(SEE REVERSE FOR DIAGRAM)

Q:\EnviroScience\Admin\FORMS\Lead\Lead Soil_Sample Log rev 0611.doc

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 786-5974
http://www.EMSL.com cinnaminsonleadlab@emsl.com

EMSL Order:	201408098
CustomerID:	ENVI54
CustomerPO:	20140277.C2E
ProjectID:	

Attn: **Fuss & O'Neill EnviroScience, LLC**
146 Hartford Road
Manchester, CT 06040

Phone:	(860) 646-2469
Fax:	(888) 838-1160
Received:	06/06/14 9:57 AM
Collected:	6/5/2014

Project: **20140277.C2E / Storm Sandy Residential Rehab / 9 Parker Street Preston,CT**

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Lead Concentration*
060514UA-14	*0001*	6/5/2014	6/6/2014	75 mg/Kg
	Site: C-Side			
	Desc: Bare			

Julie Smith - Laboratory Director
NJ-NELAP Accredited:03036
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. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 06/07/2014 13:40:00

FUSS & O'NEILL
EnviroScience inc

Appendix G

Lead in Drinking Water Results and Chain of Custody Form

CHAIN OF CUSTODY RECORD

Lab Tracking #: 0614100

Requested Analyses

Client: Fuss & O'Neill EnviroScience, LLC 9 Parker St. Boston, CT

Project/PO #: 20140277.C2E

Sampler(s): Allen Augusta (signature)

(print)

Quote ID:

Lab Use	Field ID (please print)	Date	Time	# of Bottles	RSR Criteria	Lead in Water	Notes
7761	0605 NIIA-01	6/05/14	1040	1	DW	X	First draw – Kitchen Sink
62	↓ -02	↓	1042	1	↓	X	Flush – Kitchen Sink

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Date / Time	Received By Laboratory: (Signature)	Date / Time
R. Bob Hoffman	6-5-14 1230			McMahon	6/5/14 12:40
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Date / Time		
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Date / Time		

Turn Around Time

- 24 HR* ☐
- 3 Day* ☑
- 5 Day ☐
- 48 HR* ☐
- 4 Day* ☐
- 10 Day ☐

*Turnaround times less than "5 Days" may be subject to priority fee charges.

CTL will not be held liable for incorrectly filled out Chain of Custody Record. Samples held for 45 days from receipt.

Connecticut Testing Laboratories, Inc.
165 Gracey Ave. / Meriden, CT 06451
Tel. (203)-634-3731 / Fax (203) 630-1336

Date Samples Received: 06/05/14

Client Name : **Fuss & O'Neill EnviroScience**	CTL Lab No. : 0614100
Report Date : 06/10/14	PO/ Job No. : 20140277.C2E

RESULTS OF ANALYSIS

EPA Method 200.9

Matrix Type :	**W**	**W**
CTL Sample No.:	**7761**	**7762**
Field ID :	**1st Draw**	**Flush**
	Kitchen Sink	**Kitchen Sink**
	060514UA-01	**060514UA-02**

Parameters	RL				Date Analyzed
Total Lead-mg/L	0.005	ND	ND		06/06-06/09/14

RL= Reporting Limit ND= Not Detected

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

FUSS & O'NEILL
Future Science, Inc.

Appendix H

TCLP Sample Results and Chain of Custody Form

PHOENIX

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

Analysis Report

June 16, 2014

FOR: Attn: Kevin McCarthy
Fuss & O'Neill EnviroScience, LLC
145 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	JB	06/06/14	9:00
Location Code:	F&OENVIR	Received by:	LK	06/10/14	15:35
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	20140277.C2E				

Laboratory Data

SDG ID: GBG54893
Phoenix ID: BG54893

Project ID: STORM SANDY 9 PARKER ST
Client ID: 20140606JB-01

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
TCLP Lead	< 0.10	0.10	mg/L	06/11/14	EK	SW6010
TCLP Metals Digestion	Completed			06/11/14	I/I	SW3005
TCLP Extraction for Metals	Completed			06/10/14	I	EPA 1311

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

Comments:

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

Phyllis Shiller, Laboratory Director
June 16, 2014
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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

QA/QC Report

June 16, 2014

QA/QC Data

SDG I.D.: GBG54893

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 276663, QC Sample No: BG55080 (BG54893)												
ICP Metals - TCLP Extraction												
Lead	BRL	0.096	0.099	3.10	99.4	99.3	0.1	98.6	98.7	0.1	75 - 125	20

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

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

Phyllis Shiller, Laboratory Director
June 16, 2014

Monday, June 16, 2014

Sample Criteria Exceedences Report

GBG54893 - FOENVIR

Criteria: None

State: CT

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

*** No Data to Display ***

Reasonable Confidence Protocol
Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** Fuss & O'Neill EnviroScience, LLC

Project Location: STORM SANDY 9 PARKER ST **Project Number:**

Laboratory Sample ID(s): BG54893

Sampling Date(s): 6/6/2014

RCP Methods Used:

☑ 1311/1312	☑ 6010	☐ 7000	☐ 7196	☐ 7470/7471	☐ 8081	☐ EPH	☐ TO15
☐ 8082	☐ 8151	☐ 8260	☐ 8270	☐ ETPH	☐ 9010/9012	☐ VPH	

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1a.	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☑ Yes ☐ No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	☑ Yes ☐ No ☐ NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	☐ Yes ☑ No
5b.	Were these reporting limits met?	☐ Yes ☐ No ☑ NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No ☐ NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☐ Yes ☑ No ☐ NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Date: Monday, June 16, 2014

Authorized Signature: Kathleen Cressia

Printed Name: Kathleen Cressia

Position: QA/QC Officer

Nov 2007

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH NY # 11301

RCP Certification Report

June 16, 2014

SDG I.D.: GBG54893

The client requested a shorter list of elements than the 6010 RCP list.

ICP Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Arcos 06/11/14-1 (BG54893)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 6/11/2014

QC (Batch Specific)

---------- Sample No: BG55080, QA/QC Batch: 276663 ----------

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Temperature Narration

The samples were received at 6C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

☐ 146 Hartford Road, Manchester, CT 06040
☒ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

6 of 11

CHAIN-OF-CUSTODY RECORD 30890

☐ 24-Hour* ☐ 72-Hour* ☐ Other ____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Storm Sandy-9 Parker Street	Preston, CT	20140277.C2E	Phoenix

REPORT TO: Kevin McCarthy / Karren Redfield
INVOICE TO: Sarah Owens
P.O. No.: 20140277.C2E
Sampler's Signature: [signature] Date: 6-10-14

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other PL lk

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	TCLP Lead	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water	Glass Soil Container (4) oz	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is	Plastic - As is, ☐ 250 ml	Plastic - H_2SO_4, ☐ 250 ml	Plastic - HNO_3, ☐ 250 ml	Plastic - NaOH, 250 ml	☐ Filtered ☐ 0.45µ ☐ 10µ	Comments
1	✓	✓			20140606JB -01	X	6-6-14	900	✓							1						54893

Transfer Number	Relinquished By	Accepted By	Date	Time
1	JP/km	F+O Fedex	6-10-14	1730
2	F+O Fedex	[signature]	6/10/14	12:10
3	[signature]	[signature]	6/11/14	15:35
4				

Charge Exceptions: ☐ CT Tax Exempt ☐ QA/QC ☐ Other _____
____ Duplicates ____ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☐ RCP Deliverables ☐ MCP CAM Cert.
Additional Comments:

FUSS & O'NEILL
EnvironScience, PC

Appendix I

Airborne Radon Gas Assessment Results and Chain of Custody Form

PC1406090022

RTCA RADON TESTING CORPORATION OF AMERICA

Site Radon Inspection Report

Date : 06/09/2014

Ms. Karron Redfield
Fuss & O'Neill Enviroscience, LLC
146 Hartford Road
Manchester, CT 06040-

Client: Bob Hobbins
Test Location: 9 Parker Street
Preston, CT 06365-

Individual Canister Results

Canister ID# :	2313977	Test Start :	06/05/2014 @ 09:05
Canister Type :	Charcoal Canister 3 inch	Test Stop :	06/07/2014 @ 09:35
Location :	Other-Bedroom	Received:	06/09/2014 @ 09:40
Radon Level :	0.6 pCi/L	Analyzed:	06/10/2014 @ 13:11

Error for Measurement is: ± 0.3 pCi/L

Canister ID# :	2313983	Test Start :	06/05/2014 @ 09:05
Canister Type :	Charcoal Canister 3 inch	Test Stop :	06/07/2014 @ 09:35
Location :	Other-Bedroom D	Received:	06/09/2014 @ 09:40
Radon Level :	0.6 pCi/L	Analyzed:	06/10/2014 @ 13:11

Error for Measurement is: ± 0.4 pCi/L

Canister ID# :	2314005	Test Start :	06/05/2014 @ 09:05
Canister Type :	Charcoal Canister 3 inch	Test Stop :	06/07/2014 @ 09:35
Location :	Other-storage B	Received:	06/09/2014 @ 09:40
Radon Level :	0.4 pCi/L	Analyzed:	06/10/2014 @ 13:11

Radon concentration is estimated due to missing start and stop time.

Error for Measurement is: ± 0.3 pCi/L

Canister ID# :	2314016	Test Start :	06/05/2014 @ 09:07
Canister Type :	Charcoal Canister 3 inch	Test Stop :	06/07/2014 @ 09:36
Location :	Other-storage	Received:	06/09/2014 @ 09:40
Radon Level :	0.5 pCi/L	Analyzed:	06/10/2014 @ 13:11

Error for Measurement is: ± 0.3 pCi/L

NRSB

Andreas C. George
Radon Measurement Specialist
NJ MES 11089

Dante Galan
Laboratory Director

NRSB ARL0001
NYS ELAP ID: 10806
PADEP ID: 0346
NJDEP ID: NY933
NJ MEB 90036
FL DOH RB1809

(914)345-3380
FAX (914)345-8546

2 Hayes Street, Elmsford, NY 10523
www.rtca.com

RTCA RADON TESTING CORPORATION OF AMERICA

PC1406090022

Site Radon Inspection Report

Date : 06/09/2014

Ms. Karron Redfield
Fuss & O'Neill Enviroscience, LLC
146 Hartford Road
Manchester, CT 06040-

Client: Bob Hobbins
Test Location: 9 Parker Street
Preston, CT 06365-
Individual Canister Results

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

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

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

For New York clients: If the radon level of one or more testing devices is equal to or exceeds 20 pCi/L please contact the New York State Department of Health, Bureau of Environmental Radiation Protection, for technical advice and assistance at 518-402-7556 or toll free1-800-458-1158.

PLEDGE OF ASSURED QUALITY

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

NRSB

Andreas C. George
Radon Measurement Specialist
NJ MES 11089

Dante Galan
Laboratory Director

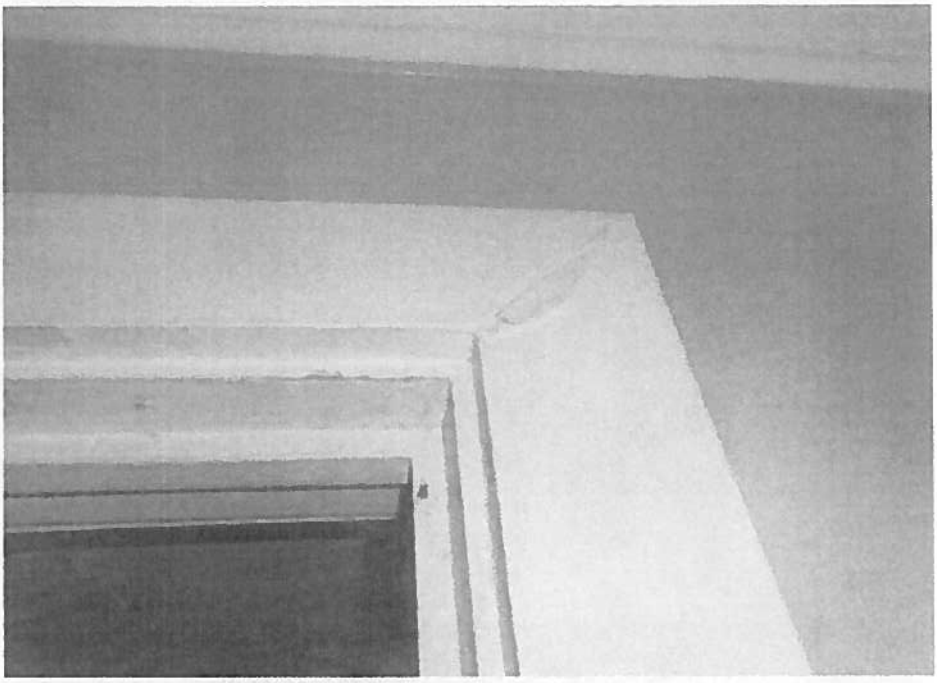
NRSB ARL0001
NYS ELAP ID: 10808
PADEP ID: 0346
NJDEP ID: NY933
NJ MEB 90036
FL DOH RB1609

(914)345-3380
FAX (914)345-8546

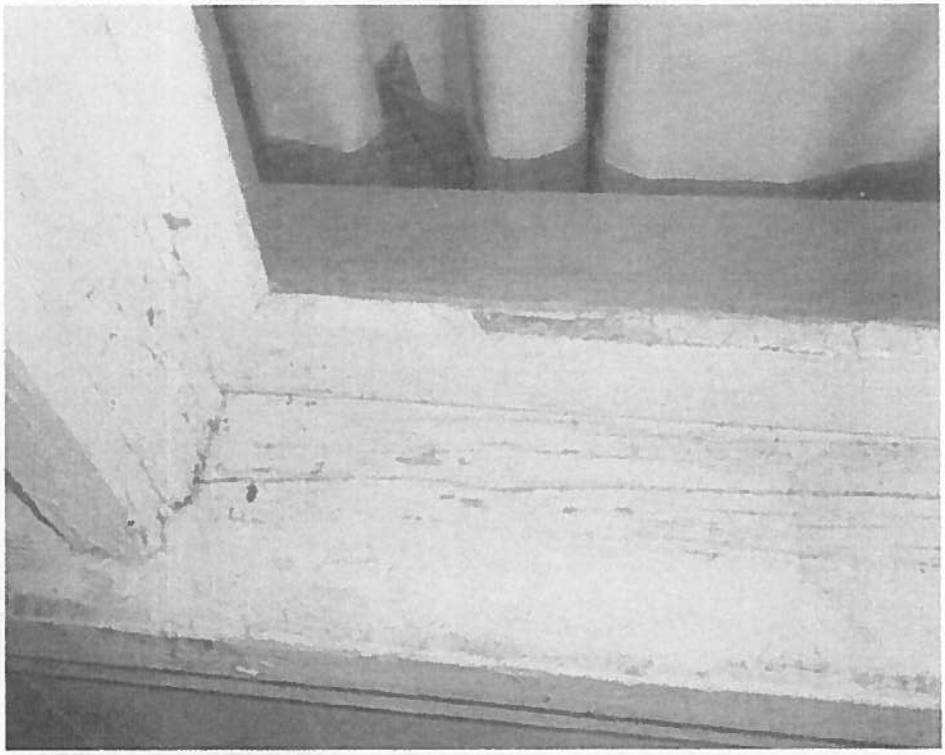
2 Hayes Street, Elmsford, NY 10523
www.rtca.com

Appendix J

Site Photographs

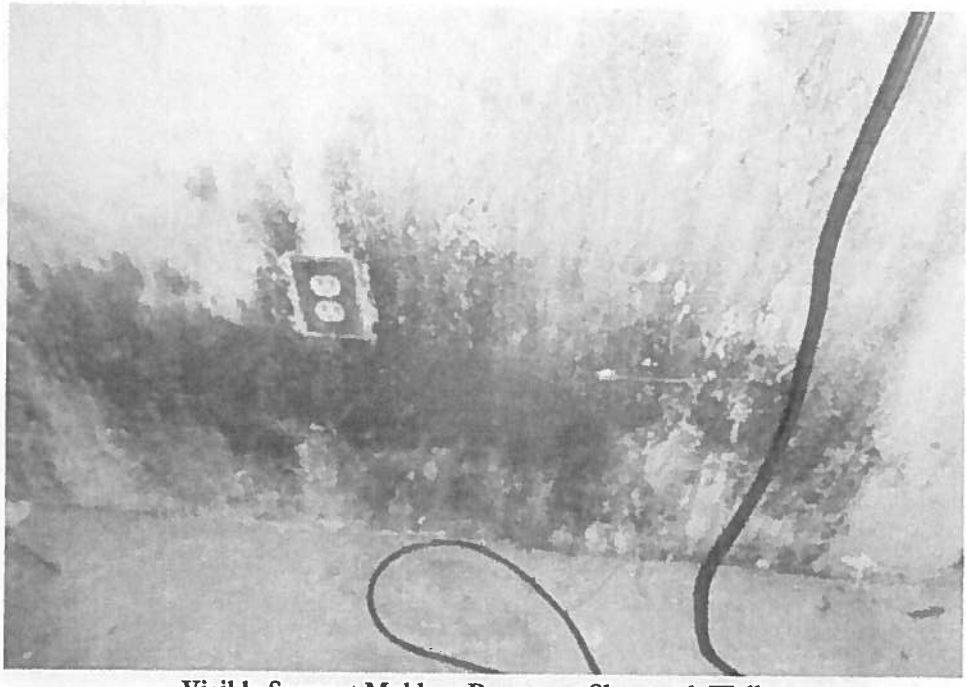


Defective Lead-Based Paint on Door Casing

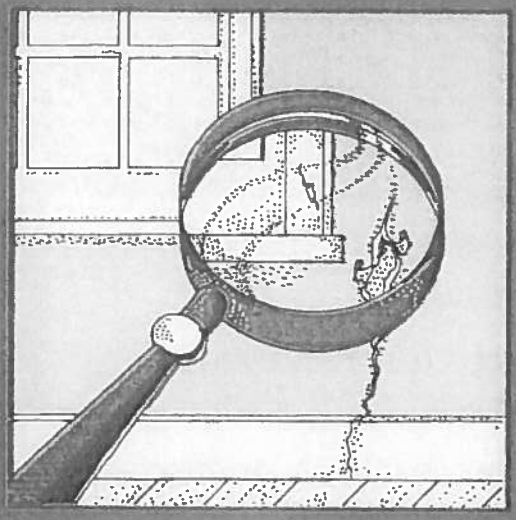


Defective Lead-Based Paint on Window Sill

Inaccessible Furnace: Interior Materials Presumed to be ACM



Visible Suspect Mold on Basement Sheetrock Wall



Protect Your Family From Lead In Your Home

United States Environmental Protection Agency

United States Consumer Product Safety Commission

United States Department of Housing and Urban Development

Simple Steps To Protect Your Family From Lead Hazards

If you think your home has high levels of lead:

- Get your young children tested for lead, even if they seem healthy.
- Wash children's hands, bottles, pacifiers, and toys often.
- Make sure children eat healthy, low-fat foods.
- Get your home checked for lead hazards.
- Regularly clean floors, window sills, and other surfaces.
- Wipe soil off shoes before entering house.
- Talk to your landlord about fixing surfaces with peeling or chipping paint.
- Take precautions to avoid exposure to lead dust when remodeling or renovating (call 1-800-424-LEAD for guidelines).
- Don't use a belt-sander, propane torch, high temperature heat gun, scraper, or sandpaper on painted surfaces that may contain lead.
- Don't try to remove lead-based paint yourself.

Recycled/Recyclable
Printed with vegetable oil based inks on recycled paper (minimum 50% postconsumer) process chlorine free.

Are You Planning To Buy, Rent, or Renovate a Home Built Before 1978?

Many houses and apartments built before 1978 have paint that contains high levels of lead (called lead-based paint). Lead from paint, chips, and dust can pose serious health hazards if not taken care of properly.

OWNERS, BUYERS, and RENTERS are encouraged to check for lead (see page 6) before renting, buying or renovating pre-1978 housing.

Federal law requires that individuals receive certain information before renting, buying, or renovating pre-1978 housing:

LANDLORDS have to disclose known information on lead-based paint and lead-based paint hazards before leases take effect. Leases must include a disclosure about lead-based paint.

SELLERS have to disclose known information on lead-based paint and lead-based paint hazards before selling a house. Sales contracts must include a disclosure about lead-based paint. Buyers have up to 10 days to check for lead.

RENOVATORS disturbing more than 2 square feet of painted surfaces have to give you this pamphlet before starting work.

IMPORTANT!

Lead From Paint, Dust, and Soil Can Be Dangerous If Not Managed Properly

FACT: Lead exposure can harm young children and babies even before they are born.

FACT: Even children who seem healthy can have high levels of lead in their bodies.

FACT: People can get lead in their bodies by breathing or swallowing lead dust, or by eating soil or paint chips containing lead.

FACT: People have many options for reducing lead hazards. In most cases, lead-based paint that is in good condition is not a hazard.

FACT: Removing lead-based paint improperly can increase the danger to your family.

If you think your home might have lead hazards, read this pamphlet to learn some simple steps to protect your family.

Lead Gets in the Body in Many Ways

Childhood lead poisoning remains a major environmental health problem in the U.S.

Even children who appear healthy can have dangerous levels of lead in their bodies.

People can get lead in their body if they:

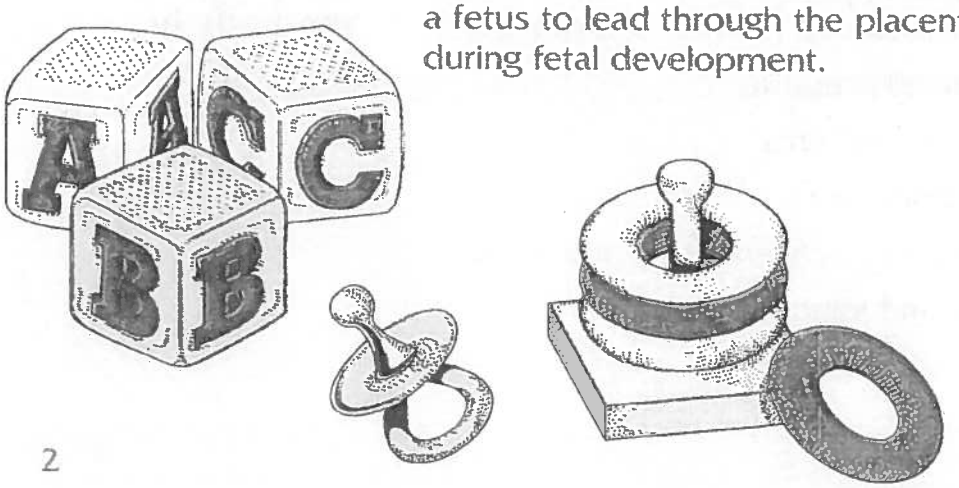
- Breathe in lead dust (especially during renovations that disturb painted surfaces).
- Put their hands or other objects covered with lead dust in their mouths.
- Eat paint chips or soil that contains lead.

Lead is even more dangerous to children under the age of 6:

- At this age children's brains and nervous systems are more sensitive to the damaging effects of lead.
- Children's growing bodies absorb more lead.
- Babies and young children often put their hands and other objects in their mouths. These objects can have lead dust on them.

Lead is also dangerous to women of childbearing age:

- Women with a high lead level in their system prior to pregnancy would expose a fetus to lead through the placenta during fetal development.



Lead's Effects

It is important to know that even exposure to low levels of lead can severely harm children.

In children, lead can cause:

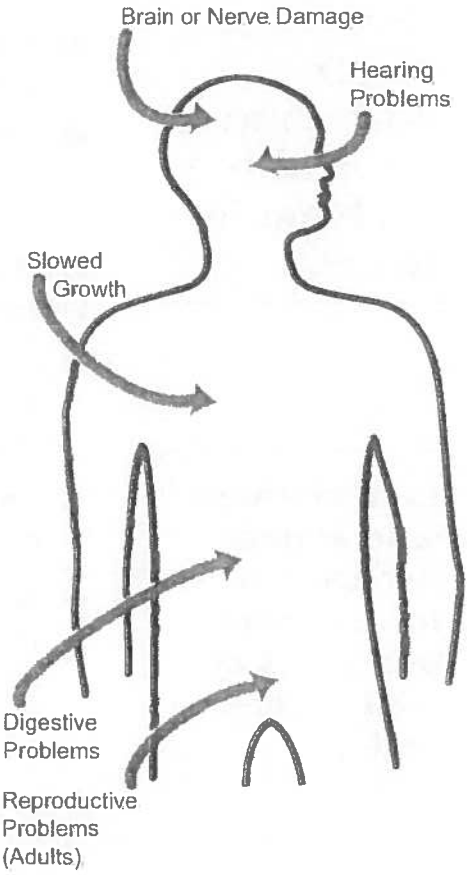
- Nervous system and kidney damage.
- Learning disabilities, attention deficit disorder, and decreased intelligence.
- Speech, language, and behavior problems.
- Poor muscle coordination.
- Decreased muscle and bone growth.
- Hearing damage.

While low-lead exposure is most common, exposure to high levels of lead can have devastating effects on children, including seizures, unconsciousness, and, in some cases, death.

Although children are especially susceptible to lead exposure, lead can be dangerous for adults too.

In adults, lead can cause:

- Increased chance of illness during pregnancy.
- Harm to a fetus, including brain damage or death.
- Fertility problems (in men and women).
- High blood pressure.
- Digestive problems.
- Nerve disorders.
- Memory and concentration problems.
- Muscle and joint pain.



Lead affects the body in many ways.

Where Lead-Based Paint Is Found

In general, the older your home, the more likely it has lead-based paint.

Many homes built before 1978 have lead-based paint. The federal government banned lead-based paint from housing in 1978. Some states stopped its use even earlier. Lead can be found:

- In homes in the city, country, or suburbs.
- In apartments, single-family homes, and both private and public housing.
- Inside and outside of the house.
- In soil around a home. (Soil can pick up lead from exterior paint or other sources such as past use of leaded gas in cars.)

Checking Your Family for Lead

Get your children and home tested if you think your home has high levels of lead.

To reduce your child's exposure to lead, get your child checked, have your home tested (especially if your home has paint in poor condition and was built before 1978), and fix any hazards you may have. Children's blood lead levels tend to increase rapidly from 6 to 12 months of age, and tend to peak at 18 to 24 months of age.

Consult your doctor for advice on testing your children. A simple blood test can detect high levels of lead. Blood tests are usually recommended for:

- Children at ages 1 and 2.
- Children or other family members who have been exposed to high levels of lead.
- Children who should be tested under your state or local health screening plan.

Your doctor can explain what the test results mean and if more testing will be needed.

Identifying Lead Hazards

Lead-based paint is usually not a hazard if it is in good condition, and it is not on an impact or friction surface, like a window. It is defined by the federal government as paint with lead levels greater than or equal to 1.0 milligram per square centimeter, or more than 0.5% by weight.

Lead from paint chips, which you can see, and lead dust, which you can't always see, can both be serious hazards.

Deteriorating lead-based paint (peeling, chipping, chalking, cracking or damaged) is a hazard and needs immediate attention. It may also be a hazard when found on surfaces that children can chew or that get a lot of wear-and-tear, such as:

- Windows and window sills.
- Doors and door frames.
- Stairs, railings, banisters, and porches.

Lead dust can form when lead-based paint is scraped, sanded, or heated. Dust also forms when painted surfaces bump or rub together. Lead chips and dust can get on surfaces and objects that people touch. Settled lead dust can re-enter the air when people vacuum, sweep, or walk through it. The following two federal standards have been set for lead hazards in dust:

- 40 micrograms per square foot ($\mu g/ft^2$) and higher for floors, including carpeted floors.
- 250 $\mu g/ft^2$ and higher for interior window sills.

Lead in soil can be a hazard when children play in bare soil or when people bring soil into the house on their shoes. The following two federal standards have been set for lead hazards in residential soil:

- 400 parts per million (ppm) and higher in play areas of bare soil.
- 1,200 ppm (average) and higher in bare soil in the remainder of the yard.

The only way to find out if paint, dust and soil lead hazards exist is to test for them. The next page describes the most common methods used.

Checking Your Home for Lead

Just knowing that a home has lead-based paint may not tell you if there is a hazard.

You can get your home tested for lead in several different ways:

- A paint **inspection** tells you whether your home has lead-based paint and where it is located. It won't tell you whether or not your home currently has lead hazards.
- A **risk assessment** tells you if your home currently has any lead hazards from lead in paint, dust, or soil. It also tells you what actions to take to address any hazards.
- A combination risk assessment and inspection tells you if your home has any lead hazards and if your home has any lead-based paint, and where the lead-based paint is located.

Hire a trained and certified testing professional who will use a range of reliable methods when testing your home.

- Visual inspection of paint condition and location.
- A portable x-ray fluorescence (XRF) machine.
- Lab tests of paint, dust, and soil samples.

There are state and federal programs in place to ensure that testing is done safely, reliably, and effectively. Contact your state or local agency (see bottom of page 11) for more information, or call **1-800-424-LEAD (5323)** for a list of contacts in your area.

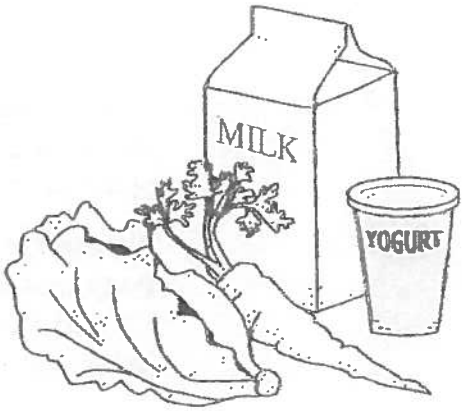
Home test kits for lead are available, but may not always be accurate. Consumers should not rely on these kits before doing renovations or to assure safety.

What You Can Do Now To Protect Your Family

If you suspect that your house has lead hazards, you can take some immediate steps to reduce your family's risk:

- **If you rent, notify your landlord of peeling or chipping paint.**
- **Clean up paint chips immediately.**
- **Clean floors, window frames, window sills, and other surfaces weekly.** Use a mop or sponge with warm water and a general all-purpose cleaner or a cleaner made specifically for lead. REMEMBER: NEVER MIX AMMONIA AND BLEACH PRODUCTS TOGETHER SINCE THEY CAN FORM A DANGEROUS GAS.

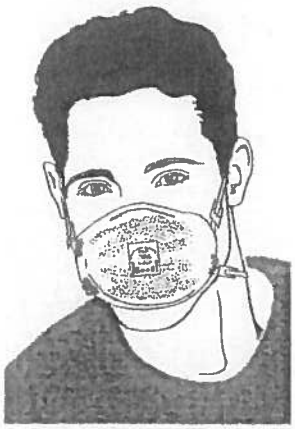
- **Thoroughly rinse sponges and mop heads after cleaning dirty or dusty areas.**
- **Wash children's hands often, especially before they eat and before nap time and bed time.**
- **Keep play areas clean.** Wash bottles, pacifiers, toys, and stuffed animals regularly.
- **Keep children from chewing window sills or other painted surfaces.**
- **Clean or remove shoes before entering your home to avoid tracking in lead from soil.**



- **Make sure children eat nutritious, low-fat meals high in iron and calcium,** such as spinach and dairy products. Children with good diets absorb less lead.

Removing lead improperly can increase the hazard to your family by spreading even more lead dust around the house.

Always use a professional who is trained to remove lead hazards safely.



In addition to day-to-day cleaning and good nutrition:

- You can **temporarily** reduce lead hazards by taking actions such as repairing damaged painted surfaces and planting grass to cover soil with high lead levels. These actions (called "interim controls") are not permanent solutions and will need ongoing attention.
- To **permanently** remove lead hazards, you should hire a certified lead "abatement" contractor. Abatement (or permanent hazard elimination) methods include removing, sealing, or enclosing lead-based paint with special materials. Just painting over the hazard with regular paint is not permanent removal.

Always hire a person with special training for correcting lead problems—someone who knows how to do this work safely and has the proper equipment to clean up thoroughly. Certified contractors will employ qualified workers and follow strict safety rules as set by their state or by the federal government.

Once the work is completed, dust cleanup activities must be repeated until testing indicates that lead dust levels are below the following:

- 40 micrograms per square foot ($\mu g/ft^2$) for floors, including carpeted floors;
- 250 $\mu g/ft^2$ for interior windows sills; and
- 400 $\mu g/ft^2$ for window troughs.

Call your state or local agency (see bottom of page 11) for help in locating certified professionals in your area and to see if financial assistance is available.

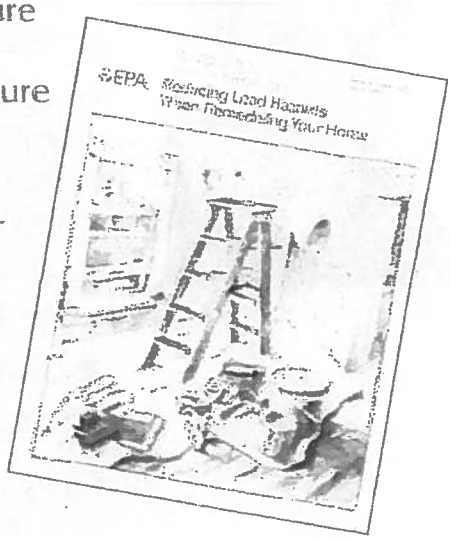
Remodeling or Renovating a Home With Lead-Based Paint

Take precautions before your contractor or you begin remodeling or renovating anything that disturbs painted surfaces (such as scraping off paint or tearing out walls):

- **Have the area tested for lead-based paint.**
- **Do not use a belt-sander, propane torch, high temperature heat gun, dry scraper, or dry sandpaper** to remove lead-based paint. These actions create large amounts of lead dust and fumes. Lead dust can remain in your home long after the work is done.
- **Temporarily move your family** (especially children and pregnant women) out of the apartment or house until the work is done and the area is properly cleaned. If you can't move your family, at least completely seal off the work area.
- **Follow other safety measures to reduce lead hazards.** You can find out about other safety measures by calling 1-800-424-LEAD. Ask for the brochure "Reducing Lead Hazards When Remodeling Your Home." This brochure explains what to do before, during, and after renovations.

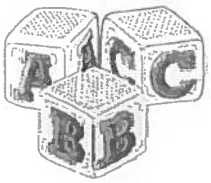
If not conducted properly, certain types of renovations can release lead from paint and dust into the air.

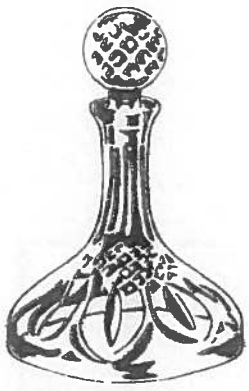
If you have already completed renovations or remodeling that could have released lead-based paint or dust, get your young children tested and follow the steps outlined on page 7 of this brochure.



Other Sources of Lead

While paint, dust, and soil are the most common sources of lead, other lead sources also exist.





- **Drinking water.** Your home might have plumbing with lead or lead solder. Call your local health department or water supplier to find out about testing your water. You cannot see, smell, or taste lead, and boiling your water will not get rid of lead. If you think your plumbing might have lead in it:
  - Use only cold water for drinking and cooking.
  - Run water for 15 to 30 seconds before drinking it, especially if you have not used your water for a few hours.
- **The job.** If you work with lead, you could bring it home on your hands or clothes. Shower and change clothes before coming home. Launder your work clothes separately from the rest of your family's clothes.
- Old painted **toys** and **furniture.**
- Food and liquids stored in **lead crystal** or **lead-glazed pottery or porcelain.**
- **Lead smelters** or other industries that release lead into the air.
- **Hobbies** that use lead, such as making pottery or stained glass, or refinishing furniture.
- **Folk remedies** that contain lead, such as "greta" and "azarcon" used to treat an upset stomach.

For More Information

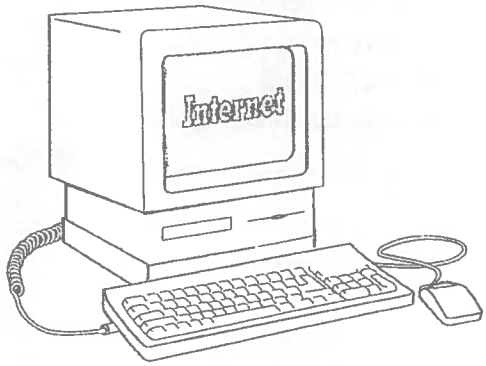
The National Lead Information Center

Call **1-800-424-LEAD (424-5323)** to learn how to protect children from lead poisoning and for other information on lead hazards. To access lead information via the web, visit **www.epa.gov/lead** and **www.hud.gov/offices/lead/.**

EPA's Safe Drinking Water Hotline

Call **1-800-426-4791** for information about lead in drinking water.

Consumer Product Safety Commission (CPSC) Hotline



To request information on lead in consumer products, or to report an unsafe consumer product or a product-related injury call **1-800-638-2772**, or visit CPSC's Web site at: **www.cpsc.gov.**

Health and Environmental Agencies

Some cities, states, and tribes have their own rules for lead-based paint activities. Check with your local agency to see which laws apply to you. Most agencies can also provide information on finding a lead abatement firm in your area, and on possible sources of financial aid for reducing lead hazards. Receive up-to-date address and phone information for your local contacts on the Internet at **www.epa.gov/lead** or contact the National Lead Information Center at **1-800-424-LEAD.**

For the hearing impaired, call the Federal Information Relay Service at **1-800-877-8339** to access any of the phone numbers in this brochure.

EPA Regional Offices

Your Regional EPA Office can provide further information regarding regulations and lead protection programs.

EPA Regional Offices

Region 1 (Connecticut, Massachusetts, Maine, New Hampshire, Rhode Island, Vermont)

Regional Lead Contact
U.S. EPA Region 1
Suite 1100 (CPT)
One Congress Street
Boston, MA 02114-2023
1 (888) 372-7341

Region 2 (New Jersey, New York, Puerto Rico, Virgin Islands)

Regional Lead Contact
U.S. EPA Region 2
2890 Woodbridge Avenue
Building 209, Mail Stop 225
Edison, NJ 08837-3679
(732) 321-6671

Region 3 (Delaware; Maryland, Pennsylvania, Virginia, Washington DC, West Virginia)

Regional Lead Contact
U.S. EPA Region 3 (3WC33)
1650 Arch Street
Philadelphia, PA 19103
(215) 814-5000

Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee)

Regional Lead Contact
U.S. EPA Region 4
61 Forsyth Street, SW
Atlanta, GA 30303
(404) 562-8998

Region 5 (Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin)

Regional Lead Contact
U.S. EPA Region 5 (DT-8J)
77 West Jackson Boulevard
Chicago, IL 60604-3666
(312) 886-6003

Region 6 (Arkansas, Louisiana, New Mexico, Oklahoma, Texas)

Regional Lead Contact
U.S. EPA Region 6
1445 Ross Avenue, 12th Floor
Dallas, TX 75202-2733
(214) 665-7577

Region 7 (Iowa, Kansas, Missouri, Nebraska)

Regional Lead Contact
U.S. EPA Region 7
(ARTD-RALI)
901 N. 5th Street
Kansas City, KS 66101
(913) 551-7020

Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming)

Regional Lead Contact
U.S. EPA Region 8
999 18th Street, Suite 500
Denver, CO 80202-2466
(303) 312-6021

Region 9 (Arizona, California, Hawaii, Nevada)

Regional Lead Contact
U.S. Region 9
75 Hawthorne Street
San Francisco, CA 94105
(415) 947-4164

Region 10 (Alaska, Idaho, Oregon, Washington)

Regional Lead Contact
U.S. EPA Region 10
Toxics Section WCM-128
1200 Sixth Avenue
Seattle, WA 98101-1128
(206) 553-1985

CPSC Regional Offices

Your Regional CPSC Office can provide further information regarding regulations and consumer product safety.

Eastern Regional Center
Consumer Product Safety Commission
201 Varick Street, Room 903
New York, NY 10014
(212) 620-4120

Western Regional Center
Consumer Product Safety Commission
1301 Clay Street, Suite 610-N
Oakland, CA 94612
(510) 637-4050

Central Regional Center
Consumer Product Safety Commission
230 South Dearborn Street, Room 2944
Chicago, IL 60604
(312) 353-8260

HUD Lead Office

Please contact HUD's Office of Healthy Homes and Lead Hazard Control for information on lead regulations, outreach efforts, and lead hazard control and research grant programs.

U.S. Department of Housing and Urban Development
Office of Healthy Homes and Lead Hazard Control
451 Seventh Street, SW, P-3206
Washington, DC 20410
(202) 755-1785

U.S. EPA Washington DC 20460
U.S. CPSC Washington DC 20207
U.S. HUD Washington DC 20410

EPA747-K-99-001
June 2003

Disclosure of Information on Lead-Based Paint and/or Lead-Based Paint Hazards

Lead Warning Statement

Housing built before 1978 may contain lead-based paint. Lead from paint, paint chips, and dust can pose health hazards if not managed properly. Lead exposure is especially harmful to young children and pregnant women. Before renting pre-1978 housing, lessors must disclose the presence of known lead-based paint and/or lead-based paint hazards in the dwelling. Lessees must also receive a federally approved pamphlet on lead poisoning prevention.

Lessor's Disclosure

(a) Presence of lead-based paint and/or lead-based paint hazards (check (i) or (ii) below):

(i) _____ Known lead-based paint and/or lead-based paint hazards are present in the housing (explain).

_____

_____

(ii) _____ Lessor has no knowledge of lead-based paint and/or lead-based paint hazards in the housing.

(b) Records and reports available to the lessor (check (i) or (ii) below):

(i) _____ Lessor has provided the lessee with all available records and reports pertaining to lead-based paint and/or lead-based paint hazards in the housing (list documents below).

_____

_____

(ii) _____ Lessor has no reports or records pertaining to lead-based paint and/or lead-based paint hazards in the housing.

Lessee's Acknowledgment (initial)

(c) _____ Lessee has received copies of all information listed above.

(d) _____ Lessee has received the pamphlet *Protect Your Family from Lead in Your Home.*

Agent's Acknowledgment (initial)

(e) _____ Agent has informed the lessor of the lessor's obligations under 42 U.S.C. 4852d and is aware of his/her responsibility to ensure compliance.

Certification of Accuracy

The following parties have reviewed the information above and certify, to the best of their knowledge, that the information they have provided is true and accurate.

Lessor	Date	Lessor	Date
Lessee	Date	Lessee	Date
Agent	Date	Agent	Date

PIETRAS ENVIRONMENTAL GROUP, LLC

WETLAND DELINEATION REPORT

Date: October 31, 2014 PEG Job #: 2014-115

Prepared for: Harry E. Cole & Son
876 South Main Street
Plantsville, CT 06479

Project Location: 9 Parker Street, Preston, Fairfield, CT

Inspection Date: October 15, 2014

Field Conditions: weather: mostly sunny, 60's soil moisture: moist

Regulated Wetlands and/or Watercourses Identified on the Property: YES

Federal Wetlands: **YES** Federal Wetland Classification: **E2EM5/1P**
Inland Wetlands: **no** Watercourses: **no** river: brook: lake: pond:
Tidal Wetlands: **YES** intermittent watercourse:
Wetland boundary flag #'s: **1 thru 5**

Regulated Wetlands and/or Watercourses Present within 250 feet of the property: YES

A tidal marsh is located on the property and the marsh extends off-site to the north, east and south.

Notes from Site Inspection:

Thomas W. Pietras, Professional Wetland and Soil Scientist, conducted a site inspection to the subject property on October 15, 2014. The property has been developed with a house, dirt/grass driveway and small lawn. The subject parcel is bordered by houses to the northeast and southwest that also front on Parker Street. The house at Parker Street is situated in the front portion of the lot and lies on gently sloping terrain near elevation 56 feet. The land to the rear of the house is extremely steep. The base of the slope at the eastern edge of the property is near elevation 4 feet. Poquetanuck Cove is present a short distance from the eastern property line. Poquetanck Cove, an inlet of the Thames River located between Norwich and New London, contains brackish waters. Tidal marsh wetlands are present along the western side of Poquetanuck Cove and extend into a portion of the subject property. The dominant plant growing in the marsh is giant reed grass (Phagmites australis). Saltwater cordgrass (Spartina alterniflora) grows off-site to the east within that portion of the marsh subject to daily inundation from Poquetanuck Cove. The marsh qualifies as Tidal Wetlands. Limits of the Tidal Wetlands on the subject property were delineated with pink and blue, survey tapes (numbered 1 thru 5).

The U.S. Fish and Wildlife Service National Wetlands Inventory (NWI) Map identifies wetlands and deepwater habitats based on the classification system established by Cowardin et al., 1979. The NWI map identifies map unit E2EM5/1P at the eastern edge of the subject property. E2EM1/5Pd translates as Estuarine, Intertidal, Emergent, Persistent/Phragmites, Irregularly Flooded.

Thomas W. Pietras
Professional Wetland and Soil Scientist

15 Briarwood Lane
Wallingford, CT 06492
203-314-6636

EMAIL Tom@pietrasenvironmentalgroup.com
WEB SITE pietrasenvironmentalgroup.com

U.S. Fish and Wildlife Service

National Wetlands Inventory

9 Parker Street,
Preston, CT

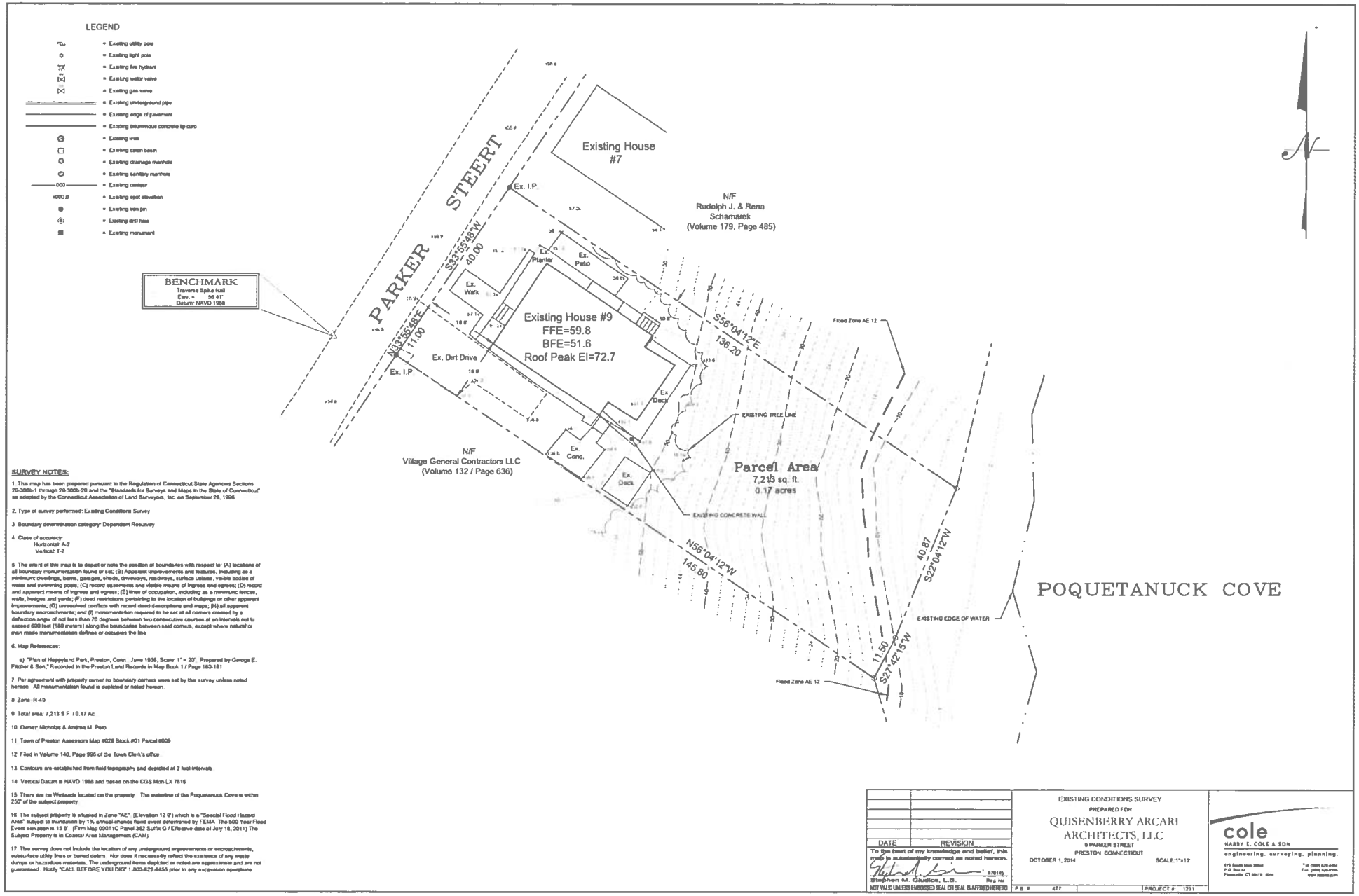
Nov 5, 2014

Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:



SURVEY NOTES:

1. This map has been prepared pursuant to the Regulation of Connecticut State Agencies Sections 20-300b-1 through 20-300b-20 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996

2. Type of survey performed: Existing Conditions Survey

3. Boundary determination category: Dependent Resurvey

4. Class of accuracy:
   Horizontal: A-2
   Vertical: T-2

5. The intent of this map is to depict or note the position of boundaries with respect to: (A) locations of all boundary monumentation found or set; (B) Apparent improvements and features, including as a minimum: dwellings, barns, garages, sheds, driveways, roadways, surface utilities, visible bodies of water and swimming pools; (C) record easements and visible means of ingress and egress; (D) record and apparent means of ingress and egress; (E) lines of occupation, including as a minimum: fences, walls, hedges and yards; (F) deed restrictions pertaining to the location of buildings or other apparent improvements; (G) unresolved conflicts with record deed descriptions and maps; (H) all apparent boundary encroachments; and (I) monumentation required to be set at all corners created by a deflection angle of not less than 70 degrees between two consecutive courses at an intervals not to exceed 600 feet (180 meters) along the boundaries between said corners, except where natural or man-made monumentation defines or occupies the line

6. Map References:

   a) "Plan of Happyland Park, Preston, Conn. June 1938, Scale: 1" = 20' Prepared by George E. Pitcher & Son," Recorded in the Preston Land Records in Map Book 1 / Page 163-181

7. Per agreement with property owner no boundary corners were set by this survey unless noted hereon. All monumentation found is depicted or noted hereon.

8. Zone: R-40

9. Total area: 7,213 S.F. / 0.17 Ac

10. Owner: Nicholas & Andrea M. Peto

11. Town of Preston Assessors Map #026 Block #01 Parcel #009

12. Filed in Volume 140, Page 996 of the Town Clerk's office

13. Contours are established from field topography and depicted at 2 foot intervals

14. Vertical Datum is NAVD 1988 and based on the CGS Mon LX 7816

15. There are no Wetlands located on the property. The waterline of the Poquetanuck Cove is within 250' of the subject property

16. The subject property is situated in Zone "AE" (Elevation 12.0') which is a "Special Flood Hazard Area" subject to inundation by 1% annual-chance flood event determined by FEMA. The 500 Year Flood Event elevation is 15.9'. (Firm Map 09011C Panel 352 Suffix G / Effective date of July 18, 2011) The Subject Property is in Coastal Area Management (CAM).

17. This survey does not include the location of any underground improvements or encroachments, subsurface utility lines or buried debris. Nor does it necessarily reflect the existence of any waste dumps or hazardous materials. The underground items depicted or noted are approximate and are not guaranteed. Notify "CALL BEFORE YOU DIG" 1-800-922-4455 prior to any excavation operations

DATE	REVISION

To the best of my knowledge and belief, this map is substantially correct as noted hereon.

Stephen M. Gaudios, L.S. #7814
Reg. No.

NOT VALID UNLESS EMBOSSED SEAL OR SEAL IS AFFIXED HEREIO

EXISTING CONDITIONS SURVEY
PREPARED FOR
QUISENBERRY ARCARI ARCHITECTS, LLC
9 PARKER STREET
PRESTON, CONNECTICUT
OCTOBER 1, 2014
SCALE: 1"=10'

F.B. # 477
PROJECT # 1231

cole
HARRY E. COLE & SON
engineering, surveying, planning.