

ENVIRONMENTAL REVIEW REPORT

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

Applicant # 2279

**43 Pine Ridge Road
Fairfield, Connecticut**

October 31, 2014

Prepared for:

**Quisenberry Arcari Architects, LLC
318 Main Street
Farmington, Connecticut**

Prepared by:

**Stephen Ball
294 White Deer Rocks Road
Woodbury, Connecticut**

**STATUTORY CHECKLIST [§58.35(a) activities]
for Categorical Exclusions and Environmental Assessments**

Note: Review of the items on this checklist is required for both Categorical Exclusions under Sec. 58.35(a) and projects requiring an Environmental Assessment under Sec. 58.36. If no compliance with any of the items is required, a Categorical Exclusion [58.35(a)] may become "exempt" under the provisions of Sec. 58.34 (a) (12). In such cases attach the completed Statutory Checklist to a written determination of the exemption. Projects requiring an Environmental Assessment under Sec. 58.36 cannot be determined to be exempt even if no compliance with Statutory Checklist items is found. Three items listed at Sec. 58.6 are applicable to all projects, including those determined to be exempt.

**Project Name and Identification/Location: Medor Residence / #2279
43 Pine Ridge Road Fairfield, Connecticut**

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
Document Laws and authorities listed at 24 CFR Sec. 58.5							
1. Historic Properties [58.5(a)] [Section 106 of NHPA]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Consulted with State Historic Preservation Office (SHPO); Building built in 1959. SHPO determined that no historic properties will be affected. See attached SHPO letter dated 9/30/14.
2. Floodplain Management [58.5(b)] [EO 11988] [24 CFR 55]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Located in Flood Zone X based on FEMA – Map Number 09001C0428F Revised June 18, 2010. See attached FIRMLET.
3. Wetland Protection [58.5 (b)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Anticipated impacts on wetlands minimal due to majority of activities limited to pre-storm building footprint. Consulted City of Fairfield Inland Wetlands. No mapped wetlands. See attached National Wetlands Mapper.
4. Coastal Zone Management [58.5(c)] [CGS 22a-100(b)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Site is not located within the CAMA as mapped by DEEP See e-mail from Jeff Jahnke from QA who spoke with Ed Wendt in the Fairfield Zoning Office.
5. Water Quality – Aquifers [58.5(d)] [40 CFR 149] Clean Water Act 1977 Safe Drinking Water Act 1974	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Water Quality – N/A Project does not involving on-site water and sewer facilities nor is it in a sole source aquifer zone.
6. Endangered Species [58.5(e)] [16 U.S.C. 1531 et seq.] [CGS 26-310]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NOT LOCATED AT WATERFRONT PROPERTIES WITH SANDY BEACHES - consult with Department of Interior Fish and Wildlife Database – See attached Department of Interior Fish and Wildlife report dated August 25, 2014.
7. Wild and Scenic Rivers [58.5 (f)] [16 U.S.C. 1271 et seq.]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Eightmile River is only designated wild & scenic river within program area running through Lyme, Salem and East Haddam, CT (rivers.gov; November 2012)
8. Air Quality [58.5(g)] [42 U.S.C. 7401 et seq.]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Clean Air Act, State Implementation Plan, HUD & EPA Regulations; in general, residential rehabilitation exempted w/no quantifiable increase in air pollution.

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
9. Farmland Protection [58.5(h)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Agricultural land use conversion not anticipated. Adverse effects to agricultural resources are not anticipated; clearly defined urban areas. Location not considered protected farmland
Manmade Hazards: 10 A. Thermal Explosive [58.5(i)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A for projects that do not add density
10 B. Noise [58.5(i)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not applicable to project – restoration of structure substantially as it existed prior to Super Storm Sandy.
10 C. Airport Clear Zones [58.5 (i)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not applicable - Two (2) FAA designated Commercial Service airports in program area: Tweed New Haven Regional and Groton-New London. This property is not located in an Airport Clear Zone.
10 D. Toxic Sites [58.5 (i)(2)(i)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The site has no known toxic history based on the attached Toxix Site Certification. The site: 1) is not listed on EPA Superfund National Priorities or CERCLA list. 2) is not located within 3,000ft of a toxic or solid waste landfill. 3) is not known to have an underground storage tank (which is not an underground storage fuel tank). 4) Is not known or suspected to be contaminated by radioactive chemicals or radioactive materials.
11. Environmental Justice [58.5(j)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Executive Order 12898 Program activities do not anticipate high & adverse human health and environmental effects on minority or low-income populations;
Document Laws and authorities listed at Sec. 58.6 and other potential environmental concerns							
12 A. Flood Insurance [58.6(a) & (b)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not located in 100 year Flood Plain – Map Number 09001C0428F Revised June 18, 2010. See attached FIRMLET Flood insurance not required.
12 B. Coastal Barriers [58.6(c)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Property is not located in a Coastal Barrier Resource Zone. See attach map.
12 C. Airport Clear Zone Notification [58.6(d)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not applicable - Two (2) FAA designated Commercial Service airports in program area: Tweed New Haven Regional and Groton-New London. This property is not located in an Airport Clear Zone.

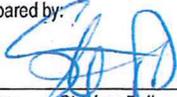
Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
13. A. Solid Waste Disposal [42 U.S.C. 93251 et seq.] and [42 U.S.C. 6901-6987 eq seq.]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Resource Conservation and Recovery Act and Solid Waste Disposal Act; Residential Exemption
13 B. Fish and Wildlife [U.S.C. 661-666c]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fish and Wildlife Coordination Act: Program activities will not result in impounding, diverting, deepening, channelizing or modification of any stream or body of water; not a water control project.
13 C. Lead-Based Paint [24 CFR Part 35] and [40 CFR 745.80 Subpart E]	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lead paint found - See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill EnviroScience LLC dated September 2014. Give homeowner Notice about Lead. Compliance will include removal of lead-based paint hazards, notifications and clearance examinations.
13 D. Asbestos	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Asbestos found – See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill EnviroScience LLC dated September 2014. Rehabilitation will include measures to minimize risk of exposure and, when necessary, abatement of any hazardous material.
13 E. Radon [50.3 (i) 1]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Radon concentration less than 4 picocuries per liter of air. See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill EnviroScience LLC dated September 2014. No action required.
13 F. Mold	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No Mold Found - See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill EnviroScience LLC dated September 2014. No action required.
Other: State or Local 14 A. Flood Management Certification [CGS 25-68]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Project not in Flood Plain. Flood Management Certification not required.
14 B. Structures, Dredging & Fill Act [CGS 22a-359 through 22a-363f]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not applicable - this project is not waterward of the Coastal Jurisdiction Line.
14 C. Tidal Wetlands Act [CGS 22a-28 through 22a-35]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not located in Tidle wetlands per Fairfield Conservation Department. See e-mail from Jeff Jahnke from QA who spoke with Ed Jones in the Fairfield Inland Wetlands office.
14 D. Local inland wetlands/watercourses [CGS 22a-42]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not located in wetlands - see attached map entitled Town of Fairfield Wetland soils and setbacks dated September 2, 2008.
14 E. Various Municipal Zoning Approvals	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Approvals may be required by Planning/Zoning Commission or ZBA if any work is outside original building footprint.

DETERMINATION:

This project converts to Exempt, per §58.349a)(12), because it does not require any mitigation for compliance with any listed statutes or authorities, nor requires any formal permit or license. Funds may be drawn down for this (now) EXEMPT project; OR

- This project cannot convert to Exempt because one or more statutes/authorities requires consultation or litigation. Complete consultation/mitigation requirements, publish NOI/RROF and obtain Authority to Use Grant Funds (HUD 7015.16) per 58.70 and 58.71 before drawing down funds; OR
- The unusual circumstances of this project may result in a significant environmental impact. This project requires preparation of an Environmental Assessment (EA). Prepare the EA according to 24 CFR Part 58 Subpart E.

Prepared by:


Name: Stephen Ball

10/24/14
Date

Responsible Entity or designee Signature:


Hermia Delaire, CDBG-DR Program Manager

10/29/14
Date

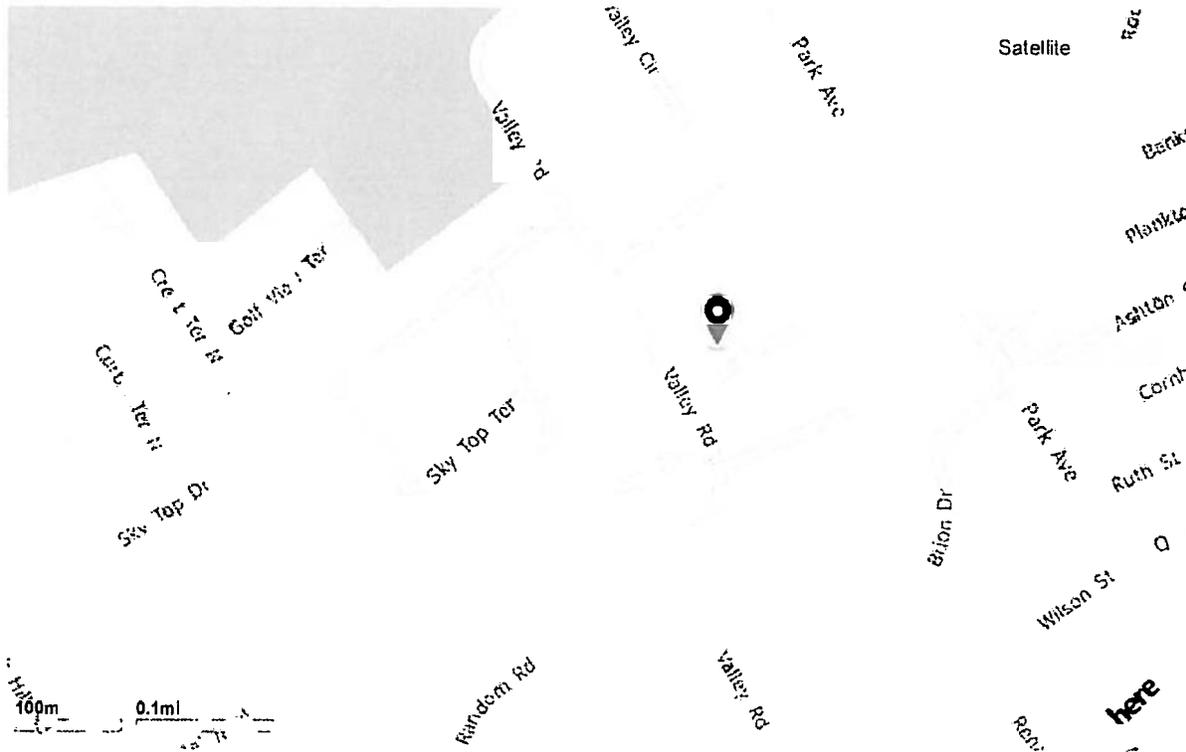
Print

Fairfield CT Real Estate richardshelman.com See Fairfield CT Real Estate. New Real Estate MLS, Maps, & Photos Ad

YAHOO!
MAPS

43 Pine Ridge Rd, Fairfield, CT 06825-1238

Enter notes here



When using any driving directions or map, it is a good idea to double check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning

h to ocumentation



318 Main Street
Farmington, CT 06032
860 677.4594
860 677.8534 Fax

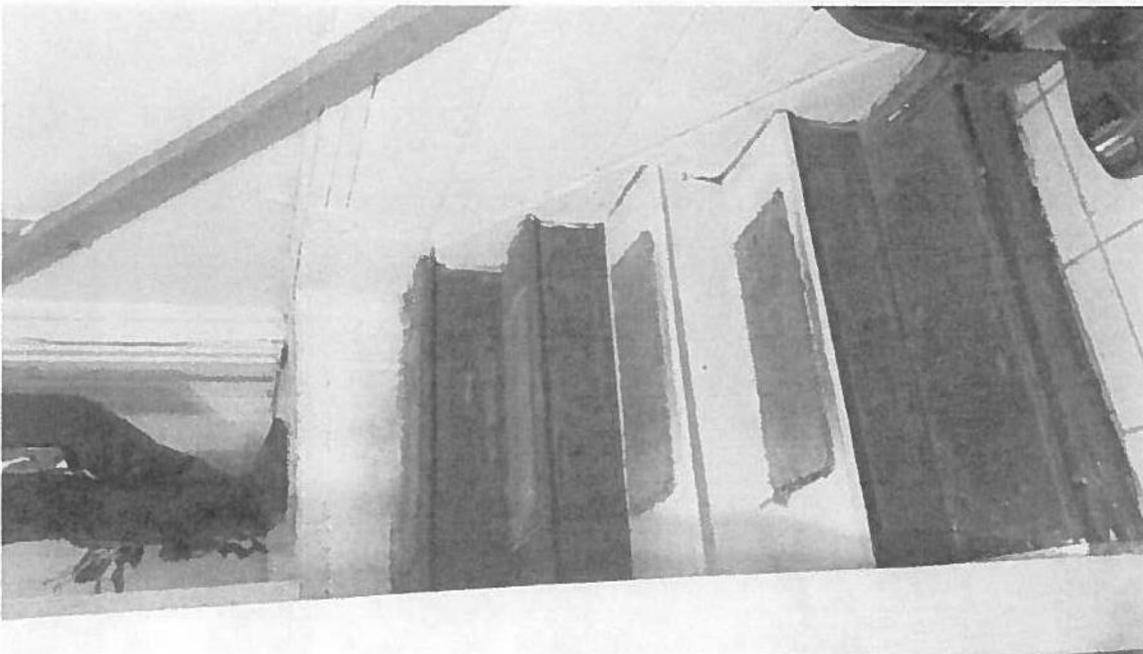
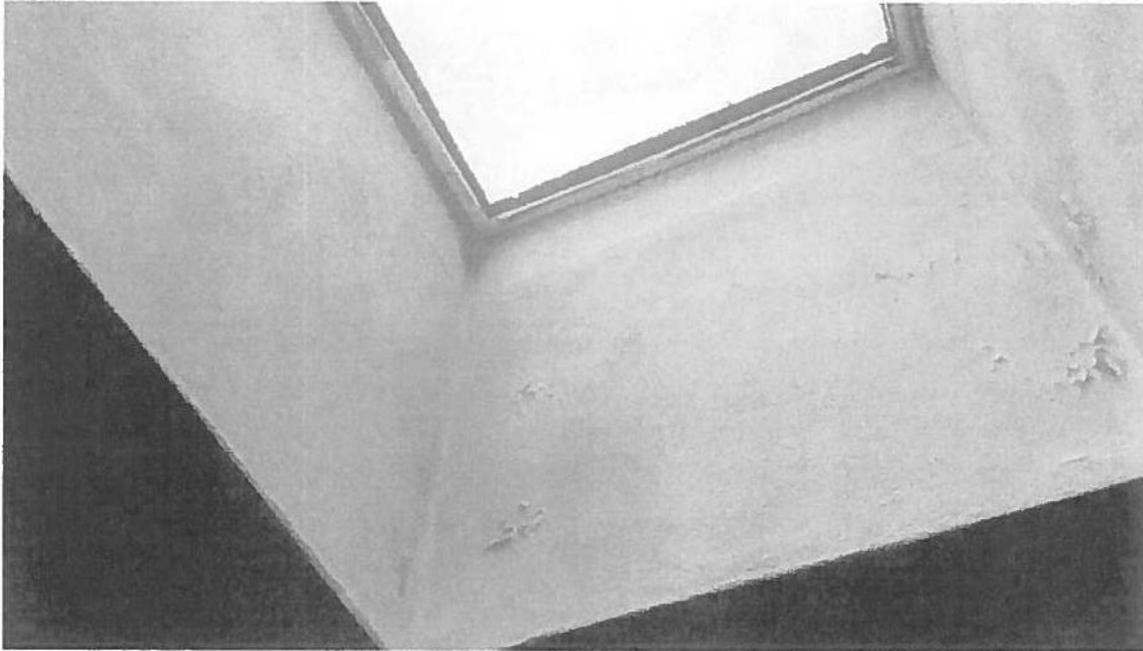


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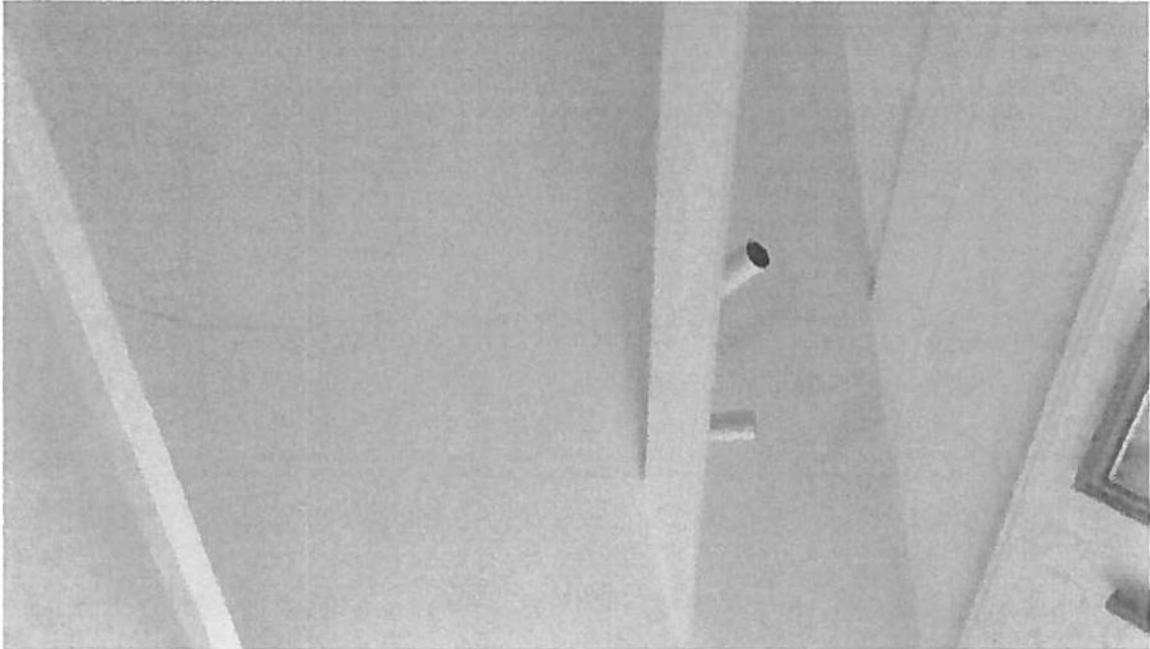
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Farmington, CT 06032
860 677.4594
860 677.8534 Fax

43 PI E RIDGE ROAD

Location 43 PINE RIDGE ROAD

Assessment \$328,580

Mblu 9/ 4/ //

Appraisal \$469,400

Acct# 04470

PID 310

Owner MEDOR JUDITH

Building Count 1

Current Value

Appraisal	
Valuation Year	Total
2013	\$469,400
Assessment	
Valuation Year	Total
2013	\$328,580

Owner of Record

Owner MEDOR JUDITH

Sale Price \$0

Co-Owner

Book & Page 4561/ 296

Address 43 PINE RIDGE ROAD
FAIRFIELD, CT 06825-1238

Sale Date 12/23/2010

Ownership History

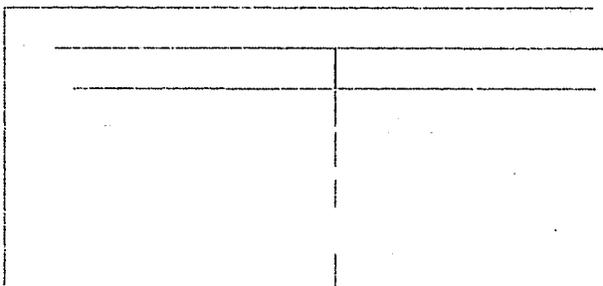
Ownership History			
Owner	Sale Price	Book & Page	Sale Date
MEDOR ROBERT &	\$645,000	3861/ 180	11/15/2006
HOZA GEORGE A & LINDA R (SV)	\$320,000	2184/ 10	12/04/2000
GENTILE EDWARD	\$0	1334/ 138	12/15/1993
PARISI LINDA GAIL	\$0	1265/ 228	06/23/1993

Building Information

Building 1 : Section 1

Year Built: 1959

Building Photo

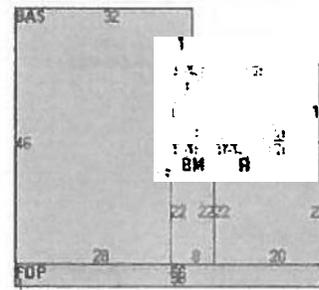


Roof Structure:	Gable/Hip
Roof Cover	Asphalt
Interior Wall 1	Plastered
Interior Wall 2	Drywall
Interior Flr 1	Hardwood
Interior Flr 2	Carpet
Heat Fuel	Oil
Heat Type:	Hot Water
AC Type:	Central
Total Bedrooms:	4 Bedrooms
Total Bthrms:	3
Total Half Baths:	0
Total Xtra Fixtrs:	



(<http://images.vgsi.com/photos/FairfieldCTPhotos/\02\01\31\59.jpg>)

Building Layout



Extra Features

Extra Features			
Code	Description	Size	Bldg #
FPL1	FIREPLACE	1 UNITS	
WHLS	WHIRLPOOL SPA	1 UNITS	

Land

Land Use

Use Code 1010
Description Single Fam MDL-01
Zone R2
Alt Land Appr No

Land Line Valuation

Size (Acres) 0.36
Depth 0

Category

Outbuildings

Outbuildings				Legend
Code	Description	Sub Code	Sub Description	Size
SPL3	IGPOOL VINYL			756 S.F.

Valuation History

Appraisal	
Valuation Year	Total
2012	\$469,400
2011	\$469,400
2010	\$469,400

Assessment	
Valuation Year	Total
2012	\$328,580
2011	\$328,580
2010	\$328,580

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Department of Economic and
Community Development

Co *in* *ct*
still revolutionary

MG
678
2279

September 30, 2014



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

Subject: 43 Pine Ridge Road
Fairfield, CT

Dear Ms. Delaire:

The State Historic Preservation Office has reviewed the information submitted for the above-named property pursuant to the provisions of Section 106 of the National Historic Preservation Act of 1966.

It is our opinion that the property located at 43 Pine Ridge Road does not appear to be eligible for listing on the National Register of Historic Places. Based on the information provided to this office, no historic pr p.

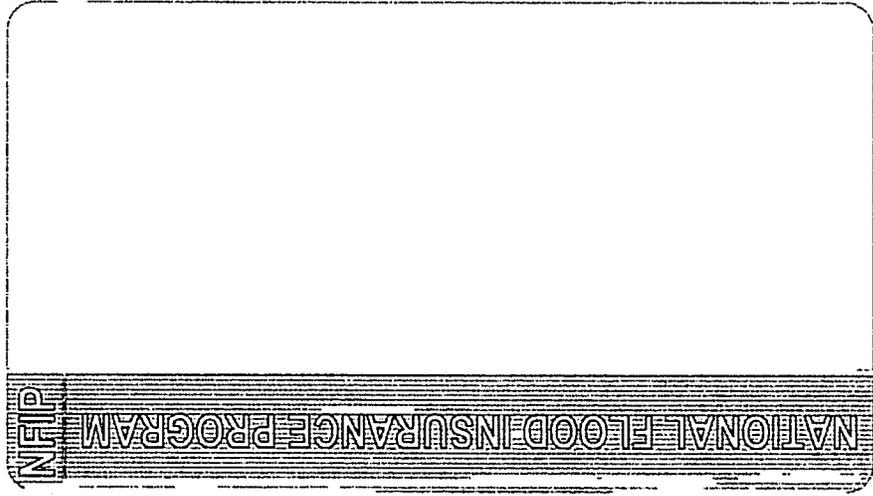
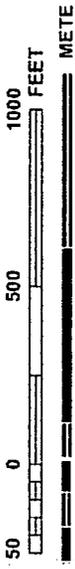
The State Historic Preservation Office apprecia
comment upon this project. These comments ar
Connecticut Environmental Policy Act and Sec
Preservation Act. For further information
Environmental Reviewer, at (860) 256-2759 or to

review and
ce with the
al Historic
d Levine,

Deputy State Historic Preservation Officer



MAP SCALE 1" = 500'



This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps, check the FEMA Flood Map Store at www.msc.fema.gov



LIMIT OF
TAILED STUDY

ROAD DISCHARGE
IN CULVERT

ROAD

SKY TOP DRIVE
TERRACE

VALLEY ROAD

PINE RIDGE ROAD

OAK BLUFF ROAD

LUMANOR DRIVE

SKY TOP TERRACE

ZONE AE

VALLEY LANE

WOODBINE LANE

GEDARWOOD LANE

CHATHAM ROAD

RANDOM ROAD

HARWICH ROAD

ONE X

Dam

STA ROAD

103

104

BROOK

MERRITT STREET

RENA PLACE

BRON DRIV

DRIVEWAY

ZONE X

Culvert

111

112

113

115

117

118

120

121

122

126

132

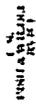
Culvert

TRIBUTARY TO
HORSE TAVERN
BROOK

ZONE X

CITY OF BRIDGEPORT
TOWN OF FAIRFIELD

PLACE



U.S. Fish and Wildlife Service

In n r

43 Pineridge Road
Fairfield

Sep 30, 2014

Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Rivanna
- 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:

COASTAL BOUNDARY FAIRFIELD, CONNECTICUT

LEGEND

Coastal Boundary

EXPLANATION

The coastal boundary map shows the extent of both the coastal boundary as defined by Connecticut General Statutes and the coastal boundary as defined by the National Coastal Assessment Act. The coastal boundary as defined by the National Coastal Assessment Act is shown in a dashed line. The coastal boundary as defined by Connecticut General Statutes is shown in a solid line. The coastal boundary as defined by the National Coastal Assessment Act is shown in a dashed line. The coastal boundary as defined by Connecticut General Statutes is shown in a solid line.

Any irregularly shaped embayments within the coastal boundary by a municipal agency (i.e., town or village) shall be included in the coastal boundary. The coastal boundary shall be subject to change in the future as a result of changes in the coastal boundary as defined by Connecticut General Statutes or the National Coastal Assessment Act.

DATA SOURCES

COASTAL BOUNDARY DATA: The coastal boundary map was derived from 1974 aerial photography. The coastal boundary as defined by Connecticut General Statutes is shown in a solid line. The coastal boundary as defined by the National Coastal Assessment Act is shown in a dashed line. The coastal boundary as defined by Connecticut General Statutes is shown in a solid line. The coastal boundary as defined by the National Coastal Assessment Act is shown in a dashed line.

MAP SCALE



CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION
1980

Map prepared by DEP
March 1981



COASTAL AREA FAIRFIELD, CONNECTICUT

LEGEND

Coastal Area

EXPLANATION

The Coastal Area includes the land and waters within the coastal zone of the State of Connecticut, as defined by the Coastal Zone Management Act of 1972 (Public Law 92-583). The Coastal Area is defined as the land and waters within the coastal zone of the State of Connecticut, as defined by the Coastal Zone Management Act of 1972 (Public Law 92-583). The Coastal Area is defined as the land and waters within the coastal zone of the State of Connecticut, as defined by the Coastal Zone Management Act of 1972 (Public Law 92-583).

DATA SOURCES

COASTAL AREA DATA - The data for this map were obtained from the Connecticut Department of Environmental Protection, Office of Coastal Management, and the Connecticut Department of Transportation, Office of Planning and Development. The data were obtained from the Connecticut Department of Environmental Protection, Office of Coastal Management, and the Connecticut Department of Transportation, Office of Planning and Development.



MAP SCALE



Prepared by the
Connecticut Department of
Environmental Protection
Fairfield, Connecticut



U n i t e d S t a t e s D e p a r t m e n t o f t h e I n t e r i o r



NE
Office
00

PI 0104

URL: www.fws.gov/newengland

Consultation Tracking Number: 05E1NE00-2014-SLI-0535

August 25, 2014

Project Name: Medor 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: Medor Residence

● **Special 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: 05E1NE00-2014-SLI-0535

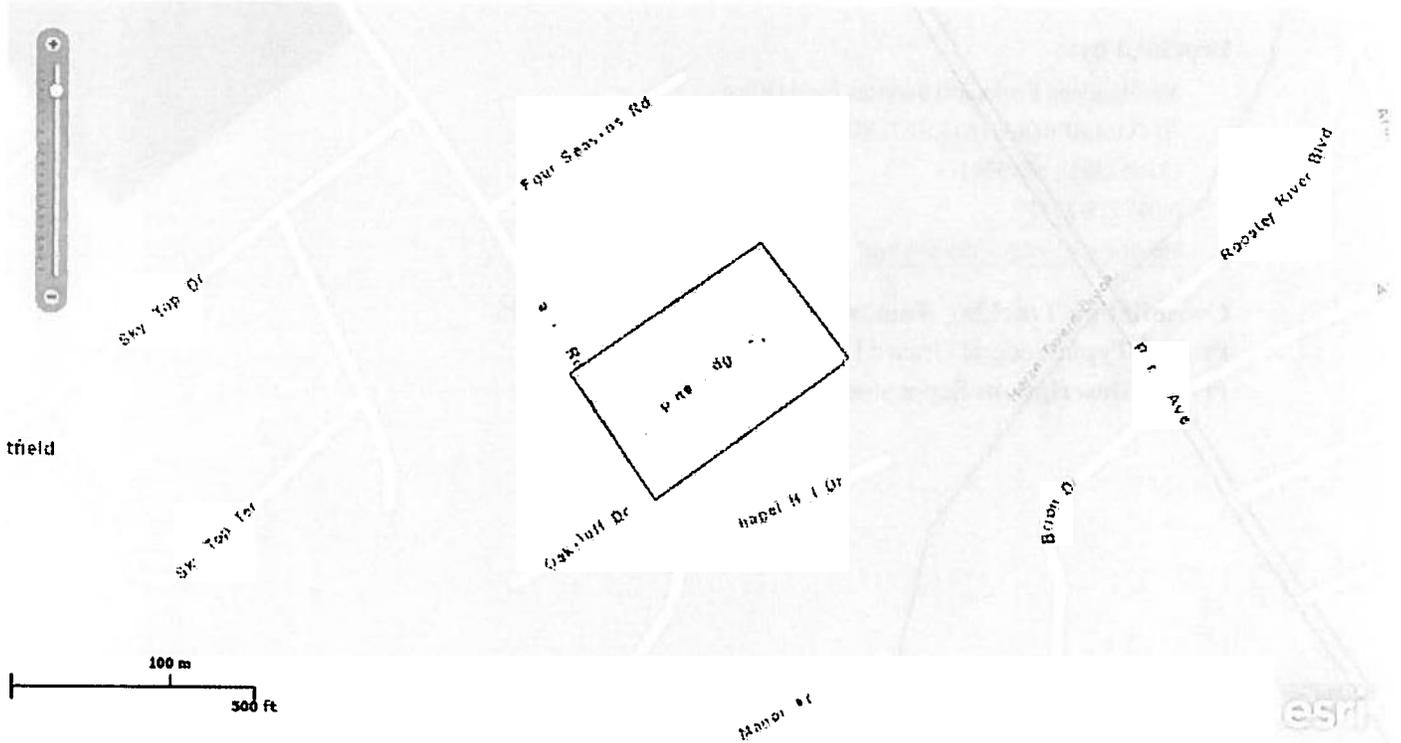
Project Type: Federal Grant / Loan Related

Project Description: Super storm Sandy renovations

United States Department of Interior
Fish and Wildlife Service

Project name: Medor Residence

Project Location Map:



Project Coordinates: MULTIPOLYGON (((-73.230244 41.2079246, -73.2295788 41.2072789, -73.2310379 41.2064717, -73.2316816 41.2071821, -73.230244 41.2079246)))

Project Counties: Fairfield, CT



United States Department of Interior
Fish and Wildlife Service

Project name: Medor 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.



United States Department of Interior
Fish and Wildlife Service

Project name: Medor Residence

Critical habitats that lie within your project area

There are no critical habitats within your project area.



MAP SCALE 1" = 500'



FIR
FLOOD INSURANCE RATE MAP
FAIRFIELD COUNTY, CONNECTICUT
 (ALL JURISDICTIONS)

PANEL 428 OF 626
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

COMMUNITY
 BRIDGEPORT CITY OF
 FAIRFIELD TOWNSHIP

FIRM NUMBER
 42023
 02023

PANEL SURVEY
 02023
 02023

Map Number
 09001C04281

Effective Date
 JUNE 18, 2011

Department of Emergency Management Agency

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.

DEPARTMENT OF EMERGENCY MANAGEMENT AGENCY

This is an official copy of a portion of the above referenced flood map. It was extracted using F-4117 On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information, about National Flood Insurance Program flood maps, check the FEMA Flood Map Store at www.fema.gov

JOHN H. HAFEE COASTA BARRIER RESOURCES SYSTEM CONNECTICUT

CT-14P CT-12 CT-13
 CT-15P CT-10 CT-09 E05
 CT-1 05P CT-08 E04 E03B
 CT-7 CT-05 CT-06
 E0 E03 CT 2PCT 1E01
 CT-03 E02 CT-02 E01A
 CT-04 CT-00

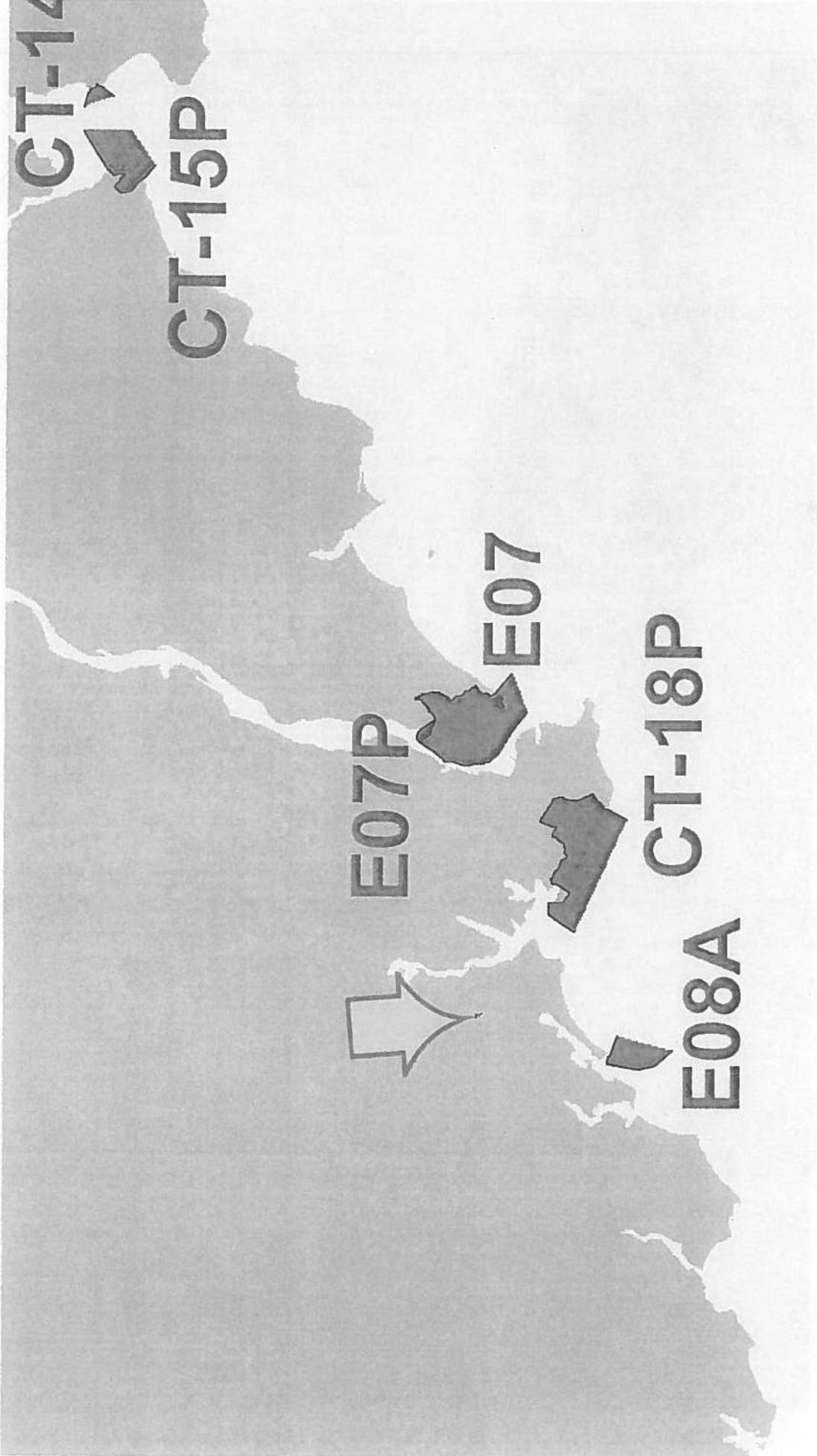
LONG ISLAND
SOUND

E07
E07
E08A CT-18P

E09P
E09
E09P

Number of CBRs Units:	32
Number of System Units:	25
Number of Otherwise Protected Areas:	7
Total Acres:	9,245
Upland Acres:	1,130
Associated Aquatic Habitat Acres:	8,115
Shoreline Miles:	22

Boundaries of the John H. Hafee Coastal Barrier Resources System (CBRS) shown on this map were transferred from the official CBRs maps for this area and are depicted on this map (in red) for informational purposes only. The official CBRs maps are enacted by Congress via the Coastal Barrier Resources Act, as amended, and are maintained by the U.S. Fish and Wildlife Service. The official CBRs maps are available for download at http://www.fws.gov/habitatconservation/coastal_barrier.html



CT-12

CT-15P

E07

E07P

CT-18P

E08A

Limite • Hazardous Materials Buildi •
Inspection Report
Storm Sandy Residential Rehabilitation Project
43 Pine Ridge Road
Fairfield, Connecticut

Quiseberry • c r i r c i t e c t s, LLC
Farmington, Connecticut

September 2014



FUSS & O'NEILL

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

Project No. 20140277.C9E



FUSS & O'NEILL
EnviroScience, LLC

September 9, 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
43 Pine Ridge Road, Fairfield, Connecticut**
Fuss & O'Neill EnviroScience Project No. 20140277.C9E
Quisenberry Arcari Project No. 1346-39

Dear Mr. Arcari:

Enclosed is the report for the limited hazardous materials building inspection performed 43 Pine Ridge Road in Fairfield, Connecticut.

The initial inspection was performed on August 26, 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.

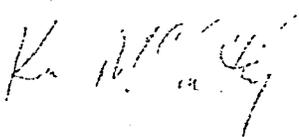
The information summarized in this document is for the abovementioned materials only. It does not include information on other hazardous materials that may exist in the property (such as underground storage tanks, PCB-containing building materials, etc.).

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.

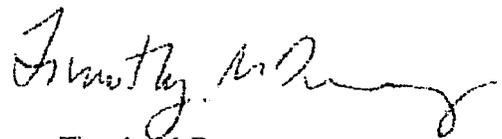
56 Quarry Road
Trumbull, CT
06611
t 203.374.3748
800.286.2469
f .203.374.4391

www.fando.com

Connecticut
Massachusetts
Rhode Island
South Carolina


Project Manager

Enclosure



Timothy M. Downey
Senior Project Manager

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Limited Hazardous Materials Building Inspection Report Quisenberry Arcari Architects LLC 43 Pine Ridge Road, Fairfield, Connecticut

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Quisenberry Arcari Architects LLC
43 Pine Ridge Road, Fairfield, Connecticut

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APPENDIX B	ASBESTOS SAMPLE RESULTS AND CHAIN OF CUSTODY FORMS
APPENDIX C	LEAD PAINT TESTING PROCEDURES AND EQUIPMENT
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APPENDIX E	LEAD IN DUST SAMPLE RESULTS AND CHAIN OF CUSTODY FORM
APPENDIX F	LEAD IN SOIL SAMPLE RESULTS AND CHAIN OF CUSTODY FORM
APPENDIX G	LEAD IN DRINKING WATER SAMPLE RESULTS AND CHAIN OF CUSTODY FORM
APPENDIX H	AIRBORNE RADON GAS ASSESSMENT RESULTS AND CHAIN OF CUSTODY FORM
APPENDIX I	SITE PHOTOGRAPHS

1 Introduction

On August 26, 2014, Fuss & O'Neill EnviroScience, LLC (EnviroScience) Environmental Technicians, Mr. Robert Hobbins and Mr. Thomas Cruess, performed a limited hazardous materials building inspection of the residential structure located at 43 Pine Ridge Road in Fairfield, Connecticut (the "Site"). Mr. Hobbins and Mr. Cruess are State of Connecticut-licensed Asbestos Consultants - Inspectors and Certified Lead Paint Inspectors. On August 26, 2014, Mr. Cruess performed a lead paint risk assessment within the residence. Mr. Cruess is a State of Connecticut-Certified Lead Paint Inspector/Risk Assessor. The residential structure was 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 May 22, 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, air conditioning system, and rear deck replacement, limited interior finish replacements, repairs to basement laundry area and structural repairs to the rear entrance; 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.

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 United 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, Subpart 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 (\leq) 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 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.
Flat Roof System	Flashing/Tar associated with Skylight	5% Chrysotile	10 SF	0826BH17A
	Roof Caulking Compounds	Assumed	20 LF	0826BH15A C <i>Material unable to be analyzed</i>
Pitched Roof System	Flashing/Tar associated with Vent Pipe	8% Chrysotile	5 SF	0826BH21B

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.
Attic	Gray Backing and associated Glue on Fiberglass Duct Insulation	0826BH01A-B, 02A-B
Throughout Interior	Sheetrock and Taping/Joint Compound ¹	0826BH03A-B, 04A-B, 05
Basement Laundry Room	Ceramic Floor Tile, Grout and Thinset	0826BH06A-B, 07A-B, 08A-B
Basement	Concrete Floor	0826BH09A-B
Exterior of Building	Concrete Foundation	0826BH10A-B
Exterior Patio	Concrete Steps and Patio Floor	0826BH11A-B, 12A-B
Exterior Flat Roof System (Rear Den Area)	Top and Bottom Layers of Roofing	0826BH13A-C, 14A-C

Location	Material Type	Sample No.
Exterior Flat Roof System (Rear Den Area)	Silver Paint	0826BH16A-C
Exterior Pitched Roof System (Main Building)	Top/Bottom Layers of Roof Shingles and Base Sheet	0826BII17A-C, 19A-C, 20A-C
Exterior Pitched Roof System (Main Building)	Perimeter, Chimney, and Power Line Pole Flashing/Tar	0826BH21A, 21C, 21D
Exterior Pitched Roof System (Main Building)	Chimney Caulking Compounds	0826BH22A-B
Exterior Pitched Roof System (Main Building)	Chimney Brick and Grout	0826BH23A-B, 24A-B

Note: 1. See *Section 2.2 Discussion* for Point Count Analysis

2.3 Discussion

The EPA defines any material that contains greater than one percent (>1%) asbestos, utilizing PLM, as being an ACM. Materials that are identified as "none detected" are specified as not containing asbestos. At EnviroScience, materials that are identified as containing less than four percent (< 4%) asbestos are analyzed further utilizing the EPA "point-counting" technique to verify asbestos content. This policy is supported by EPA requirements for "point-counting" confirmation of low level PLM results. The following samples were analyzed by point-counting based on initial PLM results of < 4% asbestos.

Table 3
Analysis Results using Point-Counting Technique

Sample No.	Location	Material	Asbestos Content	Verified ACM?
0826BH	Throughout Interior	Taping/Joint Compound	0.25%–0.75% Chrysotile	No

2. Conclusions

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.

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.

3.1 Lead-Based Paint Testing

On August 26, 2014, the project's Environmental Technicians Mr. Hobbins and Mr. Cruess performed lead-based paint testing within the Site structure. The purpose of the testing was for compliance with the Lead-based Paint Prohibition, Repair, and Painting Rule (RRP) located at Title 40 CFR, Parts 743-749, Federal Register, Vol. 39, Issue 107, October 15, 2004, United States (US) Department of Housing and Urban Development (HUD) 24 CFR, Part 35, Subparts B-R). On August 26, 2014, Mr. August performed lead-based paint testing for the purpose of HUD Lead-Safe Housing Rule (24 CFR, Part 35, Subparts 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 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/cm²] of paint):

Table 4
Lead-Painted Building Components

Building Component	Location	Reading (mg/cm ²)	Defective?
Metal Radiator (Non-Coated)	Bedrooms, Bathrooms, Living Room, & Main Level	1.0-1.6	No

Building Component	Location	Reading (mg/cm ²)	Defective?
	Den/Dining Room		
Metal Radiator (Painted)	Lower Level Den	2.5	Yes
Metal Air Vent	Upper Level Corridor	1.1	No
Metal Door Casing	Garage	1.0	No
Metal Vertical Column	Garage	1.0	No
Metal Baluster	Front Entrance Exterior Stairwell	1.1	Yes
Window Sill and Trim	Exterior of Side A (Living Room)	1.1–1.5	No
Basement Window Frame	Exterior of Side A	1.1	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 5
Lead Dust Wipe Sample Results

Sample No.	Location	Results*
0826TC-01	Bedroom 2 – Window Sill	<40 µg/ft ²
0826TC-02	Bedroom 2 – Floor	< 10 µg/ft ²
0826TC-03	Main Level Den/Dining Room) – Window Sill	<40 µg/ft ²
0826TC-03-D	Main Level Den/Dining Room) – Window Sill <i>Duplicate Sample</i>	<40 µg/ft ²
0826TC-04	Main Level Den/Dining Room – Floor	< 10 µg/ft ²
0826TC-04-D	Main Level Den/Dining Room – Floor <i>Duplicate Sample</i>	< 10 µg/ft ²
0826TC-05	Lower Level Den – Window Sill	110 µg/ft ²
0826TC-06	Lower Level Den – Floor	< 10 µg/ft ²
0826TC-07	Main Level Living Room – Window Sill	< 40 µg/ft ²
0826TC-08	Main Level Living Room – Floor	<10 µg/ft ²
0826TC-09	Field Blank	<10 µg/ft ²

Sample No.	Location	Results*
0826TC-10	Field Blank	<10 µg/ft ²

* 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 State of 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 location 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 A-side of the Site building indicates a concentration of 120 milligrams per kilogram (mg/Kg) of lead in soil.

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:

- Bedrooms, Bathrooms, Living Room, Main Level Den/Dining Room: Metal Radiators (Non-Coated),
- Lower Level Den: Metal Radiator (Painted),

- Upper Level Corridor: Metal Air Vent,
- Garage: Metal Door Casing and Vertical Column,
- Exterior Metal Baluster (A-Side),
- Exterior Window Sill and Trim (Side A), and
- Exterior Basement Window Frame (A-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 lower level den radiator must be completely abated of LBP. Toxic levels of lead were identified within the matrix of the non-coated radiators, which are not included in proposed demolition during renovation activities. Because the metal radiators are not considered a painted surface, a lead hazard does not exist.

Exterior defective LBP identified on the exterior stairwell balusters on the A side of the residence can be managed with interim controls that consist of scraping 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/cm² 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 below the CTDPH standard on floors and window sill surfaces; a lead dust hazard does not exist in the areas tested.

The exterior soil sample result was below the State of Connecticut standard for lead in soil of 400 mg/Kg (ppm). A lead in soil hazard does not exist in the area 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.

Inventory of PCB-Containing Fluorescent Light Fixtures

Executive Summary

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 diethylhexyl 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 August 26, 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.

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 these materials, the ballasts not labeled "No PCBs" should properly be 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 August 26, 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 Visual Assessment

On August 26, 2014, EnviroScience representative Mr. Hobbins performed a visual assessment for the presence of suspect mold and water intrusion.

6.1 Observations

No suspected mold growth or evidence of water intrusion was identified on any building materials within the structure at the time of the inspection.

Radon Inform

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 August 26, 2014 to August 28, 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 H*.

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.

ib rne Radon Analytical Results

Four canisters, including one duplicate and one blank, were placed in target locations within the structure during sampling that was performed August 26, 2014 to August 28, 2014. The concentrations of radon in the samples during the assessment ranged from 0.1 pCi/L to 1.0 pCi/L. The EPA recommended action level for radon is 4.0 pCi/L.

Table 6 lists the locations and analytical results of quality control duplicate tests for August 26, 2014 to August 28, 2014.

Table 6
Duplicate Samples Results: August 26, 2014 – August 28, 2014

Location	Canister Numbers	Radon Concentration (pCi/Liter)			Relative Percent Difference (RPD, %)
		Sample	Sample Duplicate	Sample Average	
Living Room–Mantle	2343256 & 2343351	0.9	1.0	0.95	Percent Difference Not Needed (No Concentrations above 4.0 pCi/Liter)

Note Duplicate testing results were satisfactory.

In *Table 7* below, the locations and results of quality control blank tests are listed August 26, 2014 to August 28, 2014.

Table 7
Blank Samples Results: August 26, 2014 – August 28, 2014

Location	Canister Number	Radon Concentration (pCi/Liter)
Den/Dining Room	2343323	0.1

Note Blank testing results were satisfactory

In *Table 8* below, the locations, canister numbers, and radon concentrations are listed for the airborne radon assessment conducted on August 26, 2014 to August 28, 2014.

Table 8
Radon Sampling Results – August 26, 2014 – August 28, 2014

Location	Canister Numbers	Radon Concentration (pCi/Liter)
Living Room–Mantle	2343256	0.9
Den/Dining Room	2343287	0.8

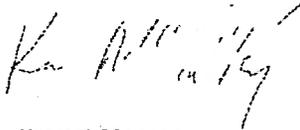
7.5 Conclusions

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.

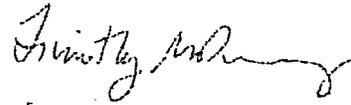
Refer to *Appendix I* for site photographs.

Report prepared by Environmental Technician Robert Hobbins.

Reviewed by:



Project Manager



Senior Project Manager

p e n d i

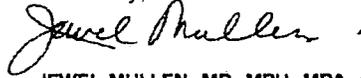
Fuss & O'Neill EnviroScience State Licenses, Certifications and
Accreditations

0001088 FP **PRSRT T5 0 0564 06040
JOHN R. HOBBS
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:

Department of Public Health (860) 509-7603
P.O. Box 340308
M.S.#12MQA <http://www.dph.state.ct.us>
Hartford, CT 06134-0308

Sincerely,



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

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A
ASBESTOS CONSULTANT - INSPECTOR

JOHN R. HOBBS

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


COMMISSIONER

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

JOHN R. HOBBS
LICENSE NO.

03-708142 000700 01/31/15

ASBESTOS CONSULTANT-INSPECTOR

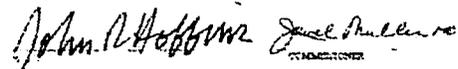


STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

JOHN R. HOBBS
LICENSE NO.

03-708142 000700 01/31/15

ASBESTOS CONSULTANT-INSPECTOR



Environmental

146 I 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 Rowinski, Principal Instructor

Robert L. May, Jr., Training Manager

September 3, 2014
Date of Course

AI-R-09/14-6
Certificate Number

September 3, 2014
Examination Date

September 3, 2015
Expiration Date

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

Dear Licensed/Certified Professional,
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P.O. Box 340308
M.S.#12MQA <http://www.dph.state.ct.us>
Hartford, CT 06134-0308

Sincerely,

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

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STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A
L-ad Inspector

John R. Hobbins

CERTIFICATION NO.
2156

CURRENT THROUGH
01/31/2015

VALIDATION NO.
DUPLICATE

COMMISSIONER

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

John R. Hobbins

VALIDATION NO. 2156 01/31/2015

DUPLICATE

Lead Inspector

COMMISSIONER

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

John R. Hobbins

VALIDATION NO. 2156 01/31/2015

DUPLICATE

Lead Inspector

COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

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

has successfully completed the

1 SP CTOR REFRESER

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

Principal Instructor: Neal Freeman

January 30, 2014
Date of Course

January 30, 2014
Exam Date

CTLR-205
Certificate Number

January 30, 2015
Expiration Date

Gregory Morsch
Training Manager: Gregory Morsch

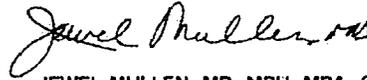
Training received complies with the requirements of the
Connecticut Department of Public Health pursuant to Section
477 of the Connecticut General Statutes.

0001572 FP **FRSRT TO 0 1564 06040
 JAMES B BLUM
 FUSS & O'NEILL ENVIROSCIENCE LLC
 148 HARTFORD RD
 MANCHESTER CT 06040-5992

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:

Department of Public Health (860) 509-7603
 P.O. Box 340308
 M.S.#12MQA <http://www.dph.state.ct.us>
 Hartford, CT 06134-0308

Sincerely,



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

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STATE OF CONNECTICUT
 DEPARTMENT OF PUBLIC HEALTH
 REGULATORY ENFORCEMENT DIVISION
 THE INDIVIDUAL NAMED BELOW IS LICENSED
 BY THIS DEPARTMENT AS A
 ASBESTOS CONSULTANT - INSPECTOR

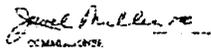
JAMES B BLUM

LICENSE NO.
 000841
 CURRENT THROUGH
 11/30/14
 VALIDATION NO.
 03-681437



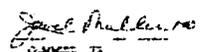
COMMISSIONER

STATE OF CONNECTICUT
 DEPARTMENT OF PUBLIC HEALTH
 NAME
 JAMES B BLUM
 LICENSE NO.
 000841
 03-681437 11/30/14
 LICENSE
 ASBESTOS CONSULTANT-INSPECTOR



COMMISSIONER

STATE OF CONNECTICUT
 DEPARTMENT OF PUBLIC HEALTH
 NAME
 JAMES B BLUM
 LICENSE NO.
 000841
 03-681437 11/30/14
 LICENSE
 ASBESTOS CONSULTANT-INSPECTOR



COMMISSIONER



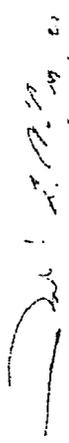
146 Hartford Road, Manchester, CT 06040 – (860) 646-2469

This is to certify that

James Blum
XXX-XX-1625

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

September 3, 2014
Date of Course

AI-R-09/14-2
Certificate Number

September 3, 2014
Examination Date

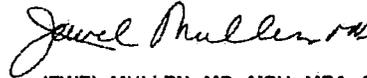
September 3, 2015
Expiration Date

0001574 FP **PRSRT TO 0 1564 06040
 JAMES B BLUM
 FUSS & O'NEILL ENVIROSCIENCE LLC
 146 HARTFORD RD
 MANCHESTER CT 06040-5992

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:

Department of Public Health (860) 509-7603
 P.O. Box 340308
 M.S.#12MQA http://www.dph.state.ct.us
 Hartford, CT 06134-0308

Sincerely,



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

INSTRUCTIONS:

1. This document is a certificate of certification for the individual named below. It is not a license or permit. It is a document that certifies that the individual named below is qualified to perform the duties of the position named below. It is not a guarantee of performance. It is a document that certifies that the individual named below is qualified to perform the duties of the position named below. It is not a guarantee of performance. It is a document that certifies that the individual named below is qualified to perform the duties of the position named below. It is not a guarantee of performance.

STATE OF CONNECTICUT
 DEPARTMENT OF PUBLIC HEALTH
 CERTIFICATION

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
 BY THIS DEPARTMENT AS A

LEAD INSPECTOR

JAMES B BLUM

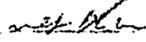
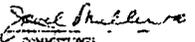
CERTIFICATION NO.
 002207
 CURRENT THROUGH
 11/30/14
 VALIDATION NO.
 03-681439



COMMISSIONER

STATE OF CONNECTICUT
 DEPARTMENT OF PUBLIC HEALTH

JAMES B BLUM
 CERTIFICATION NO. 002207
 03-681439 11/30/14
 LEAD INSPECTOR

COMMISSIONER

STATE OF CONNECTICUT
 DEPARTMENT OF PUBLIC HEALTH

JAMES B BLUM
 CERTIFICATION NO. 002207
 03-681439 11/30/14
 LEAD INSPECTOR




COMMISSIONER

L

146 Ha.....oad, Manchester, CT 06040 – (860) 646-2469

This is to certify that

James Lum
XXX-XX-1625

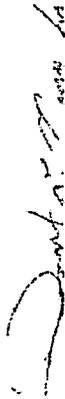
has successfully completed the
8 Hour Lead Inspector Risk Assessor Refresher Course
(Approved per Sec. 20-477, CT General Statutes)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (C.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

February 20 & 25, 2014
Date of Course

February 25, 2014
Examination Date



Robert L. May, Jr., Training Manager

LIRA-R-02/14-3
Certificate Number

February 25, 2015
Expiration Date

0001557 FP **PRSR TO G 1564 06040
THOMAS M. CRUESS
146 HARTFORD RD
MANCHESTER CT 06040-5992

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P.O. Box 340308
M.S.#12MQA <http://www.dph.state.ct.us>
Hartford, CT 06134-0308

Sincerely,



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

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2. The license is non-transferable.
3. The license is not valid if the license holder has been convicted of a crime involving moral turpitude.
4. The license holder must maintain the minimum continuing education requirements for the license.

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2. The license is non-transferable.
3. The license is not valid if the license holder has been convicted of a crime involving moral turpitude.
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STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

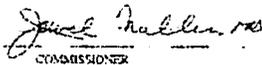
PERSON INFORMATION

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BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT-INSPECTOR

THOMAS M. CRUESS

LICENSE NO.
000210
CURRENT THROUGH
11/30/14
VALIDATION NO.
03-681422

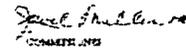

COMMISSIONER

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

THOMAS M. CRUESS
LICENSE NO.

03-681422 000210 11/30/14

ASBESTOS CONSULTANT-INSPECTOR

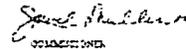

COMMISSIONER

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

THOMAS M. CRUESS
LICENSE NO.

03-681422 000210 11/30/14

ASBESTOS CONSULTANT-INSPECTOR


COMMISSIONER

F **E** **C**

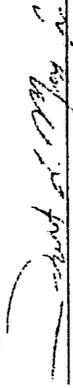
146 E. Ford Road, Manchester, CT 06040 – (860) 646-2469

This is to certify that

Thomas ruess
XXX-XX-8566

has successfully completed the
4 Hr. Asbestos Inspector Refresher
Asbestos Accreditation under TSCA Title II
40 CFR Part 763


John Robert, Principal Instructor


Robert L. May, Jr., Training Manager

September 3, 2014
Date of Course

AI-R-09/14-5
Certificate Number

September 3, 2014
Examination Date

September 3, 2015
Expiration Date



THOMAS M CRUOSS
 146 HARTFORD RD
 MANCHESTER CT 06040-5992



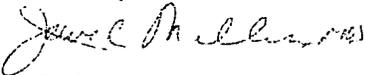
Dear THOMAS M CRUOSS,

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Department of Public Health
 P.O. Box 340308
 M.S.#12MQA
 Hartford, CT 06134-0308

(860) 509-7603
 oplc.dph@ct.gov
 www.ct.gov/dph/license

Sincerely,



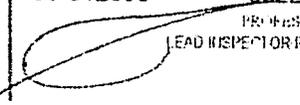
JEWEL MULLEN MD, MPH, MPA, COMMISSIONER
 DEPARTMENT OF PUBLIC HEALTH

STATE OF CONNECTICUT
 DEPARTMENT OF PUBLIC HEALTH

NAME
 THOMAS M CRUOSS

VALIDATION NO. 03-912330 CERTIFICATE NO. 002257 CURRENT THROUGH 11/30/14

PROFESSION
 LEAD INSPECTOR RISK ASSESSOR

SIGNATURE  COMMISSIONER

STATE OF CONNECTICUT
 DEPARTMENT OF PUBLIC HEALTH

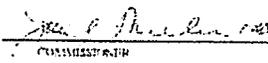
UNDER THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
 BY THIS DEPARTMENT AS A
 LEAD INSPECTOR RISK ASSESSOR

THOMAS M CRUOSS



SIGNATURE



COMMISSIONER

CERTIFICATE NO.
 002257

CURRENT THROUGH
 11/30/14

VALIDATION NO.
 03-912330

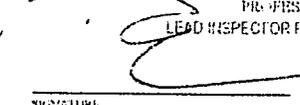
Faint, illegible text, likely bleed-through from the reverse side of the page.

STATE OF CONNECTICUT
 DEPARTMENT OF PUBLIC HEALTH

NAME
 THOMAS M CRUOSS

VALIDATION NO. 03-912330 CERTIFICATE NO. 002257 CURRENT THROUGH 11/30/14

PROFESSION
 LEAD INSPECTOR RISK ASSESSOR

SIGNATURE  COMMISSIONER

1461 Manchester, CT 06040 – (860) 646-2469

This is to certify that

Tom ruess
XXX-XX-8566

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 Santox, Principal Instructor

February 20 & 25, 2014
Date of Course

February 25, 2014
Examination Date

Robert L. May, Jr., Training Manager

LIRA-R-02/14-5
Certificate Number

February 25, 2015
Expiration Date

Appendix B

Asbestos Sample Results and Chain of Custody Forms

EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order ID: 041425174
 Customer ID: ENVI54
 Customer PO: 20140277C9E
 Project ID:

Attn: Kevin McCarthy Phone: (860) 646-2469
 Fuss & O'Neill EnviroScience, LLC Fax: (888) 838-1160
 146 Hartford Road Collected: 8/26/2014
 Manchester, CT 06040 Received: 8/29/2014
 Analyzed: 8/30/2014

Proj: 20140277.C9E / Storm Sandy Residential Rehab 43 Pine Ridge Rd., Fairfield CT

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 0826BH01A **Lab Sample ID:** 041425174-0001
Sample Description: Attic/grey blacking on fiberglass duct insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/29/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0826BH01B **Lab Sample ID:** 041425174-0002
Sample Description: Attic/grey blacking on fiberglass duct insulation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0826BH02A **Lab Sample ID:** 041425174-0003
Sample Description: Attic/yellow glue on grey backing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/29/2014	Yellow	5%	95%	None Detected	

Client Sample ID: 0826BH02B **Lab Sample ID:** 041425174-0004
Sample Description: Attic/yellow glue on grey backing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Yellow	0%	100%	None Detected	

Client Sample ID: 0826BH03A **Lab Sample ID:** 041425174-0005
Sample Description: Living room/sheetrock

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/29/2014	Gray/White	10%	90%	None Detected	

Client Sample ID: 0826BH03B **Lab Sample ID:** 041425174-0006
Sample Description: Main level-Den/Dining room/sheetrock

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Gray/White	10%	90%	None Detected	

Client Sample ID: 0826BH04A **Lab Sample ID:** 041425174-0007
Sample Description: Main level-Den/Dining room/joint compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
400 PLM PLM Ct	8/30/2014	Tan/White	0%	99.75%	0.25% Chrysotile	



1077
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WWW.EMSL.COM / WWW.EMSL.COM

EMSL Order ID:	041425174
Customer ID:	ENVI54
Customer PO:	20140277C9E
Project ID:	

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 0826BH04B **Lab Sample ID:** 041425174-0008
Sample Description: Main level-Den/Dining room/joint compound

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
400 PLM Pt Ct	8/30/2014	Tan/White	0%	99.25%	0.75% Chrysotile	

Client Sample ID: 0826BH05 **Lab Sample ID:** 041425174-0009
Sample Description: Main level-Den/Dining room/sheetrock & joint/taping compound composite

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
400 PLM Pt Ct	8/30/2014	Tan/White	10%	89.25%	0.75% Chrysotile	

Client Sample ID: 0826BH06A **Lab Sample ID:** 041425174-0010
Sample Description: Basement-laundry room/white ceramic floor tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/29/2014	Brown/White	0%	100%	None Detected	

Client Sample ID: 0826BH06B **Lab Sample ID:** 041425174-0011
Sample Description: Basement-laundry room/white ceramic floor tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Brown/White	0%	100%	None Detected	

Client Sample ID: 0826BH07A **Lab Sample ID:** 041425174-0012
Sample Description: Basement-laundry room/ceramic floor tile thinset

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/29/2014	White	2%	98%	None Detected	

Client Sample ID: 0826BH07B **Lab Sample ID:** 041425174-0013
Sample Description: Basement-laundry room/ceramic floor tile thinset

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	White	0%	100%	None Detected	

Client Sample ID: 0826BH08A **Lab Sample ID:** 041425174-0014
Sample Description: Basement-laundry room/ceramic floor tile grout

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/29/2014	Tan	0%	100%	None Detected	

Client Sample ID: 0826BH08B **Lab Sample ID:** 041425174-0015
Sample Description: Basement-laundry room/ceramic floor tile grout

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Tan	0%	100%	None Detected	

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EMSL Order ID: 041425174
 Customer ID: ENVI54
 Customer PO: 20140277C9E
 Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 0826BH09A **Lab Sample ID:** 041425174-0016
Sample Description: Basement/concrete floor

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/29/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0826BH09B **Lab Sample ID:** 041425174-0017
Sample Description: Basement/concrete floor

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0826BH10A **Lab Sample ID:** 041425174-0018
Sample Description: Exterior of building/concrete foundation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/29/2014	Gray/White	0%	100%	None Detected	

Client Sample ID: 0826BH10B **Lab Sample ID:** 041425174-0019
Sample Description: Exterior of building/concrete foundation

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Gray/White	0%	100%	None Detected	

Client Sample ID: 0826BH11A **Lab Sample ID:** 041425174-0020
Sample Description: Exterior patio/concrete steps

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/29/2014	Brown/Gray	0%	100%	None Detected	Inseparable paint / coating layer included in analysis

Client Sample ID: 0826BH11B **Lab Sample ID:** 041425174-0021
Sample Description: Exterior patio/concrete steps

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Brown/Gray	0%	100%	None Detected	

Client Sample ID: 0826BH12A **Lab Sample ID:** 041425174-0022
Sample Description: Exterior patio/concrete patio floor

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/29/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0826BH12B **Lab Sample ID:** 041425174-0023
Sample Description: Exterior patio/concrete patio floor

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Gray	0%	100%	None Detected	

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EMSL Order ID:	041425174
Customer ID:	ENVI54
Customer PO:	20140277C9E
Project ID:	

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 0826BH13A **Lab Sample ID:** 041425174-0024
Sample Description: Exterior of flat roof/top layering roofing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Black	0%	100%	None Detected	

Client Sample ID: 0826BH13B **Lab Sample ID:** 041425174-0025
Sample Description: Exterior of flat roof/top layering roofing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Black	0%	100%	None Detected	

Client Sample ID: 0826BH13C **Lab Sample ID:** 041425174-0026
Sample Description: Exterior of flat roof/top layering roofing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Black	0%	100%	None Detected	

Client Sample ID: 0826BH14A **Lab Sample ID:** 041425174-0027
Sample Description: Exterior of flat roof/bottom layer roofing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Black	10%	90%	None Detected	

Client Sample ID: 0826BH14B **Lab Sample ID:** 041425174-0028
Sample Description: Exterior of flat roof/bottom layer roofing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Black	10%	90%	None Detected	

Client Sample ID: 0826BH14C **Lab Sample ID:** 041425174-0029
Sample Description: Exterior of flat roof/bottom layer roofing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Black	10%	90%	None Detected	

Client Sample ID: 0826BH15A **Lab Sample ID:** 041425174-0030
Sample Description: Exterior of flat roof/exterior roof caulking compounds

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014				Insufficient Material	

Client Sample ID: 0826BH15B **Lab Sample ID:** 041425174-0031
Sample Description: Exterior of flat roof/exterior roof caulking compounds

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014				Insufficient Material	

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EMSL Order ID: 041425174
 Customer ID: ENVI54
 Customer PO: 20140277C9E
 Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 0826BH15C **Lab Sample ID:** 041425174-0032
Sample Description: Exterior of flat roof/exterior roof caulking compounds

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014				Insufficient Material	

Client Sample ID: 0826BH16A **Lab Sample ID:** 041425174-0033
Sample Description: Exterior of flat roof/exterior silver paint

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Silver	0%	100%	None Detected	

Client Sample ID: 0826BH18B **Lab Sample ID:** 041425174-0034
Sample Description: Exterior of flat roof/exterior silver paint

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Silver	0%	100%	None Detected	

Client Sample ID: 0826BH18C **Lab Sample ID:** 041425174-0035
Sample Description: Exterior of flat roof/exterior silver paint

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Silver	0%	100%	None Detected	

Client Sample ID: 0826BH17A **Lab Sample ID:** 041425174-0036
Sample Description: Exterior of flat roof/skylight flashing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Black	0%	95%	5% Chrysotile	

Client Sample ID: 0826BH17B **Lab Sample ID:** 041425174-0037
Sample Description: Exterior of flat roof/skylight flashing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014				Stop Positive (Not Analyzed)	

Client Sample ID: 0826BH17C **Lab Sample ID:** 041425174-0038
Sample Description: Exterior of flat roof/skylight flashing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014				Stop Positive (Not Analyzed)	

Client Sample ID: 0826BH18A **Lab Sample ID:** 041425174-0039
Sample Description: Exterior pitch roof/bottom layer shingle

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Various/Black	10%	90%	None Detected	

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Customer ID:	ENVI54
Customer PO:	20140277C9E
Project ID:	

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 0826BH18B **Lab Sample ID:** 041425174-0040
Sample Description: Exterior pitch roof/bottom layer shingle

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Various/Black	10%	90%	None Detected	

Client Sample ID: 0826BH18C **Lab Sample ID:** 041425174-0041
Sample Description: Exterior pitch roof/bottom layer shingle

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Various/Black	10%	90%	None Detected	

Client Sample ID: 0826BH19A **Lab Sample ID:** 041425174-0042
Sample Description: Exterior pitch roof/top layer shingle

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Black	10%	90%	None Detected	

Client Sample ID: 0826BH19B **Lab Sample ID:** 041425174-0043
Sample Description: Exterior pitch roof/top layer shingle

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Black	10%	90%	None Detected	

Client Sample ID: 0826BH19C **Lab Sample ID:** 041425174-0044
Sample Description: Exterior pitch roof/top layer shingle

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Black	10%	90%	None Detected	

Client Sample ID: 0826BH20A **Lab Sample ID:** 041425174-0045
Sample Description: Exterior pitch roof/base sheet

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Black	60%	40%	None Detected	

Client Sample ID: 0826BH20B **Lab Sample ID:** 041425174-0046
Sample Description: Exterior pitch roof/base sheet

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Black	60%	40%	None Detected	

Client Sample ID: 0826BH20C **Lab Sample ID:** 041425174-0047
Sample Description: Exterior pitch roof/base sheet

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Black	60%	40%	None Detected	



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naminson, NJ 08077
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Project ID:	

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 0826BH21A **Lab Sample ID:** 041425174-0048
Sample Description: Exterior pitch roof/perimeter flashing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Black	0%	100%	None Detected	

Client Sample ID: 0826BH21B **Lab Sample ID:** 041425174-0049
Sample Description: Exterior pitch roof/pipe vent flashing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Black	0%	92%	8% Chrysotile	

Client Sample ID: 0826BH21C **Lab Sample ID:** 041425174-0050
Sample Description: Exterior pitch roof/power line pole flashing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Black	0%	100%	None Detected	

Client Sample ID: 0826BH21D **Lab Sample ID:** 041425174-0051
Sample Description: Exterior pitch roof/chimney flashing

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Black	0%	100%	None Detected	

Client Sample ID: 0826BH22A **Lab Sample ID:** 041425174-0052
Sample Description: Exterior pitch roof/chimney caulking compounds

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Gray/White	0%	100%	None Detected	

Client Sample ID: 0826BH22B **Lab Sample ID:** 041425174-0053
Sample Description: Exterior pitch roof/chimney caulking compounds

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	White	0%	100%	None Detected	

Client Sample ID: 0826BH23A **Lab Sample ID:** 041425174-0054
Sample Description: Exterior pitch roof/chimney brick

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Red/Black	0%	100%	None Detected	

Client Sample ID: 0826BH23B **Lab Sample ID:** 041425174-0055
Sample Description: Exterior pitch roof/chimney brick

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Red/Black	0%	100%	None Detected	



EMSL
 Environmental Monitoring Systems Laboratory, Inc.
 1000 Route 100
 Manamoking, NJ 08077
 Tel: 75 / (856) 786-5974
<http://www.EMSL.com> / cinnaslab@EMSL.com

EMSL Order ID:	041425174
Customer ID:	ENVI54
Customer PO:	20140277C9E
Project ID:	

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 0826BH24A **Lab Sample ID:** 041425174-0056
Sample Description: Exterior pitch roof/chimney brick grout

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0828BH24B **Lab Sample ID:** 041425174-0057
Sample Description: Exterior pitch roof/chimney brick grout

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	8/30/2014	Gray	0%	100%	None Detected	

Analyst(s):

Felix Anusiem PLM (1)
 Jamie Marczak PLM (24)
 400 PLM Pt Ct (1)
 Michael Garrity PLM (24)
 400 PLM Pt Ct (2)

Reviewed and approved by:

Stephen Siegel, CIH, Laboratory Manager
 or Other Approved Signatory

EMSL maintains liability limited to cost in full, without written approval by EMS Government. EMSL bears no responsibility for the accuracy of results when requested detecting asbestos in floor coverings and

Samples analyzed by EMSL Analytical,
 10872, NJ DEP 03036

(Initial report from: 08/30/2014 13:27:56)

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Special Instructions: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. EPA 400 Point Count all samples of content <4% positive stop on all point counts.

Samples collected by: B. Hoffman Date: 8-26-14 Time: _____

Samples [Rec'd][Sent by] [BL] Date: [8-28] Time: _____

Samples Received by: JC. Fry Date: 8/29/14 Time: 9:48

Shipped To: EMSL State NJ Other _____

Method of Shipment: FedEx Other _____

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SAMPLE LOG FOR DECTOS BULKS

Sheet 2 of 4

Project Name: _____ Project No. 20140277.C9E
Project Manager: K. McCarthy

Sample ID	Location	Material	Result (%)
0826BH09B	g	Concrete Floor	
0826BH10B	g	Concrete Foundation	
		Concrete Steps	
		Concrete Steps	
		Concrete Patio Floor	
		Concrete Patio Floor	
0826BH3A	f	op Layer Roofing	
	f	op Layer Roofing	
0826BH13C	f	Top Layer Roofing	
0826BH14A	f	Bottom Layer Roofing	
0826BH14B	f	Bottom Layer Roofing	
0826BH14C	f	ottom Layer Roofing	
0826BH15A	f	terior Roof Caulking Compounds	

4
 11/11/14
 9
 11:00
 AM
 SECTION

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 (860) 646-2469.

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. EPA 400 Point Count all samples of content <4% positive stop on all point counts

Samples collected by: B. Hoffman Date: 8-26-14 Time: _____

Samples [Rec'd][Sent by] [BH] Date: [8-26] Time: _____

Samples Received by: _____ Date: _____ Time: _____

Shipped To: EMSL State NJ Other _____

Method of Shipment: FedEx Other _____

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SAMPLE LOG FOR BESTOS BULKS

Sheet 3 of 4

Project Name: _____ Project No. 20140277.C9E
 Building: _____ Project Manager: K. McCarthy

Sample ID	Material	Result (%)
0826BH15B	Exterior Roof Caulking Compound	
0826BH15C	Exterior Flat Roof Exterior Roof Caulking Compound	
0826BH16A	Exterior Silver Paint	
0826BH16B	Exterior Silver Paint	
0826BH16C	Exterior Silver Paint	
0826BH17A	Exterior Flat Roof Skylight Flashing	
0826BH17B	Exterior Flat Roof Skylight Flashing	
0826BH17C	Exterior Flat Roof Skylight Flashing	
0826BH18A	Exterior Pitch Roof Bottom Layer Shingle	
	Exterior Pitch Roof Top Layer Shingle	
	Exterior Pitch Roof	
0826BH20A	Exterior Pitch Roof	

Special Instructions: Stop analysis unless indicated. EPA 400 Point sample in each homogeneous set of samples unless otherwise noted. Do not layer samples
intent <4% positive stop on all point counts.

Samples collected by: B. L... Date: 8-26-14 Time: _____

Samples [Rec'd][Sent by] [BH] Date: 8-28 Time: _____

Samples Received by: _____ Date: _____ Time: _____

Shipped To: EMSL State NJ Other _____

Method of Shipment: FedEx Other _____

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SAMPLE LOG FOR ASBESTOS BULK

Sheet 4 of 4

Project Name: Storm Sandy Residential Rehab-43 Pine Ridge Rd, Fairfield, CT Project No. 20140277.C9E

Building: 43 Pine Ridge Rd Project Manager: K. McCarthy

Sample ID	Sample Location	Material	Result (%)
0826BH20B	Exterior Pitch Roof	Base Sheet	
0826BH20C	Exterior Pitch Roof	Base Sheet	
0826BH21A	Exterior Pitch Roof	Perimeter Flashing	
0826BH21B	Exterior Pitch Roof	Pipe Vent Flashing	
0826BH21C	Exterior Pitch Roof	Power Line Pole Flashing	
0826BH21D	Exterior Pitch Roof	Chimney Flashing	
0826BH22A	Exterior Pitch Roof	Chimney Caulking Compounds	
0826BH22B	Exterior Pitch Roof	Chimney Caulking Compounds	
0826BH23A	Exterior Pitch Roof	Chimney Brick	
0826BH23B	Exterior Pitch Roof	Chimney Brick	
0826BH24A	Exterior Pitch Roof	Chimney Brick Grout	
0826BH24B	Exterior Pitch Roof	Chimney Brick Grout	

14 AUG 29 AM 11:00
 CINCINNATI, OH

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 (860) 646 2469.

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. EPA 400 Point Count all samples of content <4% positive stop on all point counts.

Samples collected by: B. Hoff Date: 8-26-14 Time:

Samples [Rec'd]/[Sent by] BH [] Date: 8-29 [] Time:

Samples Received by: Date: Time:

Shipped To: EMSL State NJ Other

Method of Shipment: FedEx Other

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Appendix C

Leak Detection 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.



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.

Fuss and O'Neill EnviroScience, LLC 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.

pendix D

Lead Testing Field Data Sheets

LEAD INSPECTION COVER SHEET

Inspector's Information

Inspector's Name: Robert Hobbins License Number: 2156
 XRF Model: LPA - 1A Serial Number: 1377
 Date of Inspection: August 26, 2014 Project Number: 20140277.C9E

Property Information

Building Address: 43 Pine Ridge Road
 (Street)
Fairfield CT Age of Property: N/A
 (City) (State)

Describe Structure:

Interior sheetrock ceilings/walls with wood and concrete floors. Wood and metal door/window systems. Exterior wood siding

- 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

Multiple 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

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	1120	1.1	0.9	1.0	1.0
Second Check	1300	1.1	1.0	1.1	1.06
Third Check	1330	0.9	0.9	1.1	0.96
Fourth Check					



FUSS & O'NEILL

Prepared By

Date

Checked By

Date

Project No

UPPER LEVEL

Sheet No
of

PINE RIDGE ROAD

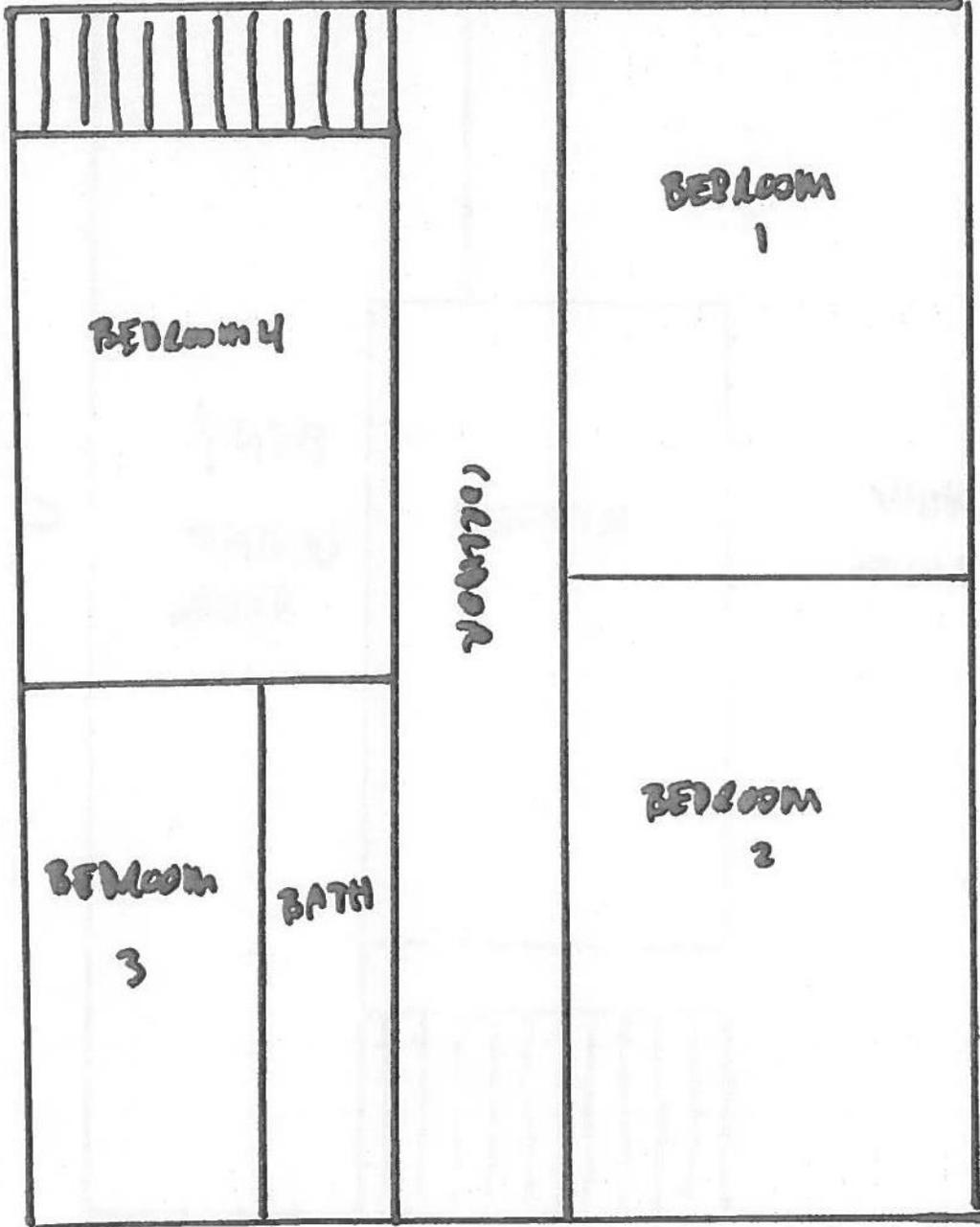
A

B

CORNER

C

D





FUSS & O'NEILL

Prepared By

Date

Checked By

Date

Project No

MAIN LEVEL

Sheet No
of

PINE RIDGE RD

A

LIVING ROOM

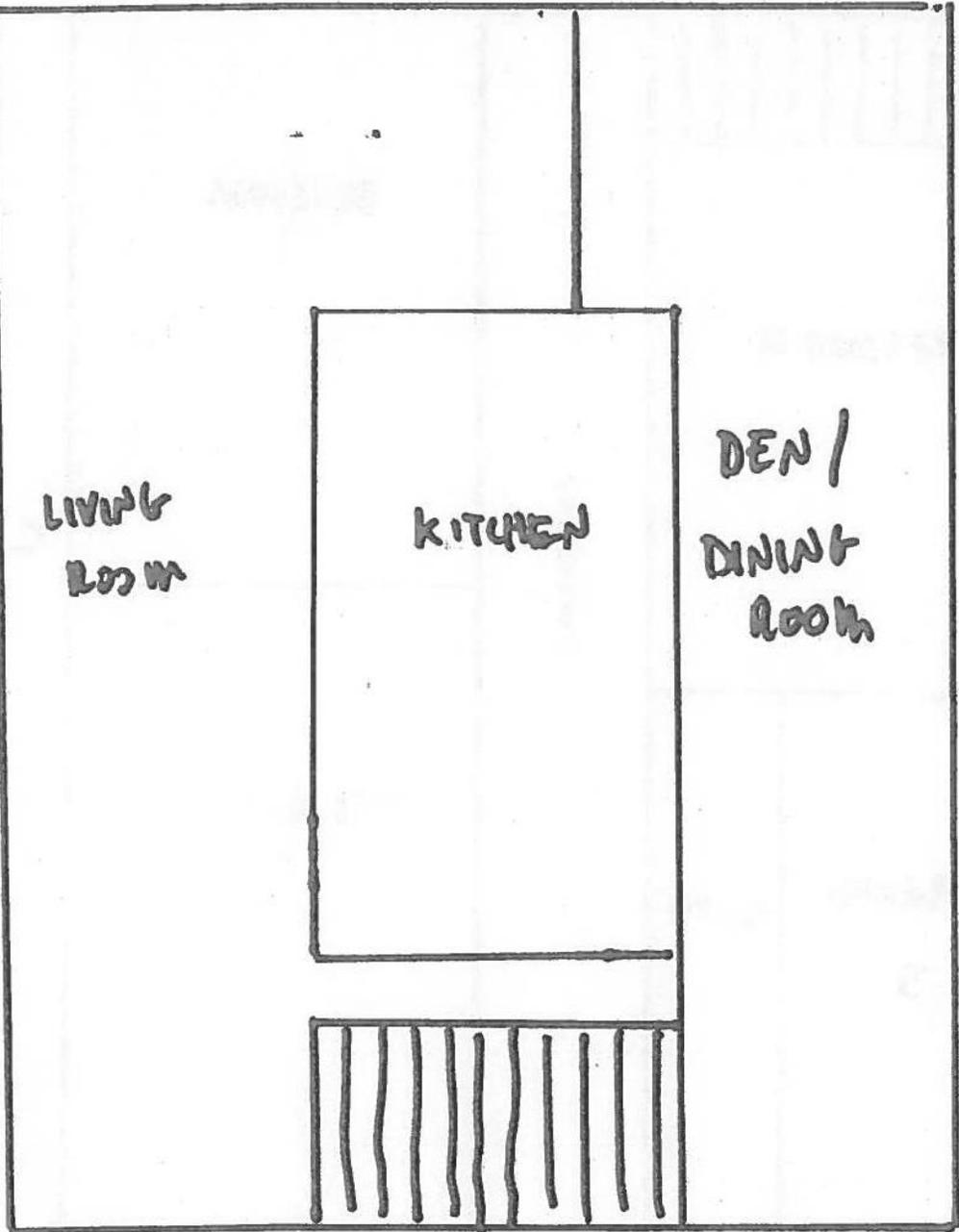
B

KITCHEN

DEN /
DINING ROOM

C

D





FUSS & O'NEILL

Prepared By

Date

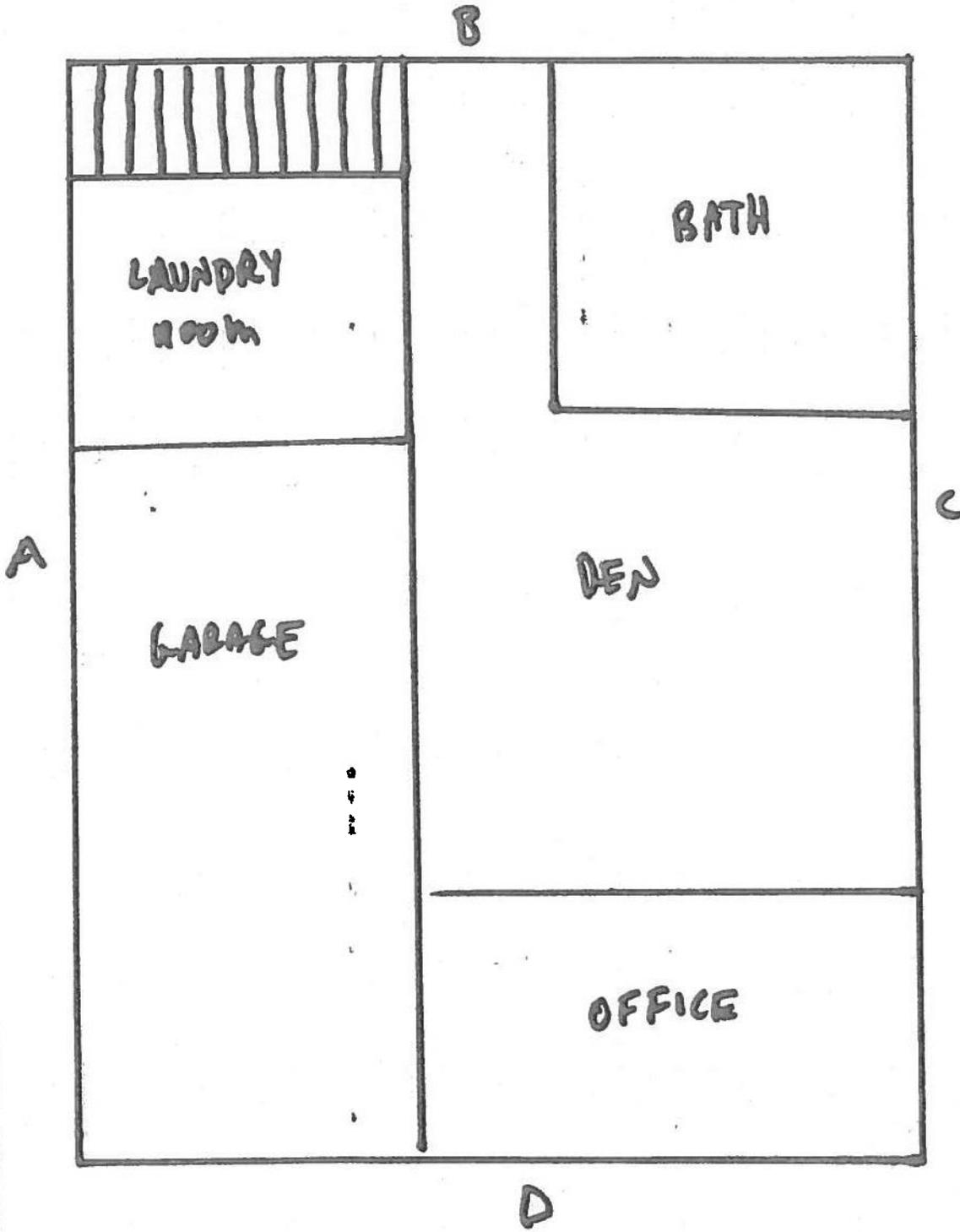
Checked By

Date

Project No

Sheet No
of

PINE RIDGE RD



XRF FIELD DATA SHEET - INTERIOR ROOM

Address: 43 Pine Ridge Rd, Fairfield, CT Apt. #: _____
 Floor: 2nd Room: Bedroom 2 Page _____ of _____
 Project Name: 43 Pine Ridge Rd Project Number: 20140277.C9E
 Project Manager: K. McCarthy (If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Impact
	Floor					
	Baseboards	-0.0				
A	Wall	- .1				- R
B	Wall					0.
	Wall	- .1				
D	Wall	- .2				0
	Chair rail					0.2
	Ceiling	-0.0				C
	Crown Molding	-0.0				Flow 0. x.
	Door	-0.				
	Casing					Window i -0. W
	Jamb					Trim . U
	Door					! -0.
	Casing					
	Jamb					
	Window Trim					
	Sill	-0.0				Rad - 0
	Sash			W		
	Well					
	Cabinet Base					
	Door Exterior					
	Door Interior					
	Walls					
	Shelves					
	Shelf Supports					
	Closet Shelf					
	Shelf Supports					
	Radiator	1.0				
	Wall Molding					
	Trim	0.2				
	Wall	0.2		SE		
		-0.0				

* 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
 Notes: _____

FUSS & O'NEILL
EnviroScience, LLC

www.fando.com

146 Hartford Road, Manchester, CT 06040

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



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EnviroScience, LLC

www.fando.com

146 Hartford Road, Manchester, CT 06040

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

XRF FIELD DATA SHEET – INTERIOR ROOM

FUSS & O'NEILL

The image shows a large, empty rectangular frame with tick marks on the left and right sides, intended for a drawing or data plot. The frame is defined by a thin black line. The left side has approximately 15 tick marks, and the right side has approximately 15 tick marks. The interior of the frame is completely blank.



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XRF FIELD DATA SHEET - INTERIOR ROOM

42 Hillside Rd, Fairfield, CT

Ant. #:

The form consists of a large rectangular area enclosed by a thin black border. On the left side of the border, there are several tick marks and a small 'S' at the top. On the right side, there are many small tick marks. The interior of the rectangle is mostly blank, with some faint, illegible markings scattered throughout, possibly representing a drawing or data points that are too light to read.

XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 43 Pine Ridge Rd, Fairfield, CT Apt. #: _____
 Floor: Lower Room: — bath Page _____ of _____
 Project Name: 43 Pine Ridge Rd Project Number: 20140277.C9E
 Project Manager: K. McCarthy (If Positive - Check All That Apply)

	Surface	XRF Readings	POS	Comments
	Floor	0.3		
	Baseboards	0.3	W	
A	Wall		SL	
	Wall	~0.		
	Wall	0.		
	Chair rail			
	Casing		W	
	Jamb			
	Window Trim			
	Door Interior			
	Walls			
	Shelves			
	Shelf Supports			
	Closet Shelf			
	Shelf Supports			
	Radiator			
	Wall Molding			

* 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
 Notes: _____

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

XRF FIELD DATA SHEET - EXTERIOR OF SIDE A

Address: 43 Pine Ridge Rd, Fairfield, CT Page of

Project Name: 43 Pine Ridge Rd Project Number: 20140277.C9E

Project Manager: K. McCarthy

f Positive - Check All That A I

	XRF Readings	POS	Substrate	Defective	Chewable	Impact	Comments
Foundation							
Skirt Board	0.						1 s
Corner Boards							
Upper Trim	0.1		W				
	0.						0. -0 W
Threshold							
Storm Door							
Window Sill							front view - 1 mm F
Trim				no			
Sash							
Storm Window							
Frame							T 2v. mm 2
Porch Floor							
Lower Trim							
Lower Railing							
Railing Cap							
Ceiling							
Lattice							
Lattice Frame							
Column Base							
Brackets							
Hand Rails							
Treads							
Risers							
Stringers							



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

XRF FIELD DATA SHEET - EXTERIOR OF SIDE C

Address: 43 Pine Ridge Rd, Fairfield, CT Page _____ of _____

Project Name: 43 Pine Ridge Rd Project Number: 20140277.C9E

Project Manager: K. McCarthy

f Positive - Check All That A 1

	XRF Readings	Defective	Impact	Comments
Foundation	0.0		Shu	-6.2
Skirt Board				
Corner Boards				
Siding				r - 0.1 e
Upper Trim	0-			
Door		W		
Threshold	0.			
Kick Board				
Storm Door				
Window Sill			run	
Sash	0.2	W		
Blind Stops				
Storm Window				
Frame				
Downspouts		m		
Lower Trim				
Lower Railing				
Balusters				
Railing Cap				
Ceiling				
Lattice Frame				
Support Columns				
Column Base				
Brackets				
Hand Rails				
Treads				
Risers				
Stringers				



FUSS & O'NEILL

Appendix E

Lead in Dust Sample Results and Chain of Custody Form



E SL 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: 201412413
 CustomerID: ENV154
 CustomerPO: 20140277.C9E
 ProjectID:

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

Phone: (860) 646-2469
 Fax: (888) 838-1160
 Received: 08/27/14 11:13 AM
 Collected: 8/26/2014

Project: 20140277.C9E / Storm Sandy Residential Rehab/ 43 Pine Ridge Rd., Fairfield, CT

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

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
0826TC-01 Site: Bedroom 2- Window Sill	201412413-0001	8/26/2014	8/28/2014	36 in ²	<40 µg/ft ²
0826TC-02 Site: Bedroom 2- Floor	201412413-0002	8/26/2014	8/28/2014	144 in ²	<10 µg/ft ²
0826TC-03 Site: Main Level Den/Dining- Window Sill	201412413-0003	8/26/2014	8/28/2014	36 in ²	<40 µg/ft ²
0826TC-03-D Site: Main Level Den/Dining-Duplicate Sample-Win.Sill	201412413-0004	8/26/2014	8/28/2014	36 in ²	<40 µg/ft ²
0826TC-04 Site: Main Level Den/Dining- Floor	201412413-0005	8/26/2014	8/28/2014	144 in ²	<10 µg/ft ²
0826TC-04-D Site: Main Level Den/Dining-Duplicate Sample-Floor	201412413-0006	8/26/2014	8/28/2014	144 in ²	<10 µg/ft ²
0826TC-05 Site: Lower Level Den- Window Sill	201412413-0007	8/26/2014	8/28/2014	36 in ²	110 µg/ft ²
0826TC-06 Site: Lower Level Den- Floor	201412413-0008	8/26/2014	8/28/2014	144 in ²	<10 µg/ft ²
0826TC-07 Site: Main Level Living Room- Window Sill	201412413-0009	8/26/2014	8/28/2014	36 in ²	<40 µg/ft ²
0826TC-08 Site: Main Level Living Room- Floor	201412413-0010	8/26/2014	8/28/2014	144 in ²	<10 µg/ft ²
0826TC-09 Site: Blank	201412413-0011	8/26/2014	8/28/2014	n/a	<10 µg/wipe
0826TC-10 Site: Blank	201412413-0012	8/26/2014	8/28/2014	n/a	<10 µg/wipe

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 µg/wipe. µg/wipe = µg/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 100184, A2LA 2845.01

Initial report from 08/29/2014 11:01:54



201412413 www.fando.com

46 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: 43 Pine Ridge Road, Fairfield, CT

Project Number: 20140277.C9E
 Project Manager: K. McCarthy

Sample ID Number	Sample Location/Building	Result µ /ft
	Bedroom 2	
TC-02	Bedroom 2	
	Main Level Den/Dining	
26TC-03-D	Main Level Den/Dining <i>Duplicate sample</i>	
6TC-04	Floor	
6TC-04-D	Main Level Den/Dining <i>Duplicate sample</i>	C
		7
26TC-06	Lower Level Den	✓
26TC-07		
26TC-08		
26TC-09		
	N/A	12

Analysis Method: EPA-SW-846-3050(MOD.) Turnaround Time 48 hour
 Media ASTM Non ASTM

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

For Results To: Fuss & O'Neill EnviroScience Laboratory at 413-647-0018

Special Instructions: _____

Samples Collected By: T. Cruess TC Date: _____ Time: _____
 Samples Rec'd/Sent By: _____ Date: _____ Time: _____
 Samples Received By: [Signature] Date: 8/29 Time: 1:28pm FVSL

Shipped To: Overnight Other _____
 Method of Shipment: Overnight UPS Ground Other _____

Appendix F

Lead in Soil Results and Chain of Custody Form

E SL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 788-5974
<http://www.EMSL.com> cinnaminsonleadlab@emsl.com

EMSL Order: 201412416
CustomerID: ENV154
CustomerPO: 20140277.C9E
ProjectID:

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

Phone: (860) 646-2469
Fax: (888) 838-1160
Received: 08/27/14 11:13 AM
Collected: 8/26/2014

Project: 20140277.C9E / Storm Sandy Residential Rehab/ 45 Pine Ridge Rd. Fairfield, CT

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

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
08026TC-01	201412416-0001	8/26/2014	8/28/2014	120 mg/Kg
Site: Exterior of Side A				



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 08/29/2014 11:10:24

ppend'x G

Lead in Drinking Water Results and Chain of Custody Form

Date Samples Received: 08/27/14

Client Name : Fuss & O'Neill EnviroScience	CTL Lab No. : 0814423
Report Date : 08/29/14	PO/ Job No. : 20140277.C9E

RESULTS OF ANALYSIS

EPA Method 200.9

Matrix Type :	W	W
CTL Sample No.:	12899	12900
Field ID :	1 st Draw	Flush
	20140826TC-01	20140826TC-02

Parameters	RL			Date Analyzed
Total Lead-mg/L	0.005	ND	ND	08/29/14

RL= Reporting Limit ND= Not Detected

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

Appendix H

Airborne Radon Gas Assessment Results and Chain of Custody Form

Site Radon Inspection Report

Date : 08/29/2014

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

Client: Unknown- 20140277.C9E
Test Location: 43 Pine Ridge Road
Fairfield, CT 06824-
Individual Canister Results

Canister ID# : 2343256
Canister Type : Charcoal Canister 3 inch
Location : Liv Rm - Man
Radon Level : 0.9 pCi/L
Error for Measurement is: \pm 0.2 pCi/L

Test Start : 08/26/2014 @ 09:01
Test Stop : 08/28/2014 @ 09:21
Received: 08/29/2014 @ 13:45
Analyzed: 08/29/2014 @ 15:44

Canister ID# : 2343287
Canister Type : Charcoal Canister 3 inch
Location : Den Din Rm
Radon Level : 0.8 pCi/L
Error for Measurement is: \pm 0.2 pCi/L

Test Start : 08/26/2014 @ 09:03
Test Stop : 08/28/2014 @ 09:23
Received: 08/29/2014 @ 13:45
Analyzed: 08/29/2014 @ 15:44

Canister ID# : 2343323
Canister Type : Charcoal Canister 3 inch
Location : Den Din Rm-B
Radon Level : 0.1 pCi/L
Error for Measurement is: \pm 7.8 pCi/L

Test Start : 08/26/2014 @ 09:03
Test Stop : 08/28/2014 @ 09:23
Received: 08/29/2014 @ 13:45
Analyzed: 08/29/2014 @ 15:44

Canister ID# : 2343351
Canister Type : Charcoal Canister 3 inch
Location : Liv Rm- Man D
Radon Level : 1.0 pCi/L
Error for Measurement is: \pm 0.2 pCi/L

Test Start : 08/26/2014 @ 09:01
Test Stop : 08/28/2014 @ 09:21
Received: 08/29/2014 @ 13:45
Analyzed: 08/29/2014 @ 15:44



Andreas C. George

Andreas C. George
Radon Measurement Specialist
NJ MES 11089

Dante Galan

Dante Galan
Laboratory Director

NRSB ARL0001
NYS ELAP ID: 10806
PADEP ID: 0346
NJDEP ID: NY933
NJ MEB 90036
FL DOH RB1609

Site Radon Inspection Report

Date : 08/29/2014

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

Client: Unknown- 20140277.C9E
Test Location: 43 Pine Ridge Road

Fairfield, CT 06824-

Individual Canister Results

The results indicate that at least one testing device registered at or above the United States Environmental Protection Agency (EPA) action level of 4.0 picoCuries per liter of air (pCi/L). The EPA recommends mitigation if the average of two short-term tests taken in the lowest level of the building suitable for occupancy show radon levels that are equal to or greater than 4.0 pCi/L.

For information on how to reduce radon levels in your home, please review the EPA booklet: Consumer's Guide to Radon Reduction (www.epa.gov/radon/pdfs/consguid.pdf) and 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 free 1-800-458-1158.

PLEDGE OF ASSURED QUALITY

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



Andreas C. George

Andreas C. George
Radon Measurement Specialist
NJ MES 11089

Dante Galan

Dante Galan
Laboratory Director

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

FUSS & O'N ILL
EnviroScience, LLC

Radon Testing Summary Sheet

Contact/Phone #: Bob Hobbins/203-374-3748 x3526

Placed by: B. Hobbins

Project #: 201402 7. CGE

Retrieved by: J. Blum

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Appendix I

Site hs



Defective Lead-Based Paint on Lower Level Den Radiator



Defective Lead-Based Paint on Lower Level Den Radiator

THE LEAD-SAFE CERTIFIED GUIDE TO RENOVATE RIGHT

WARNIN
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OR EATING

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1-800-433-3333
www.lead-safe.org



Important lead hazard information for families, child care providers and schools.



LEAD-SAFE CERTIFIED

'S

Federal law requires contractors that disturb painted surfaces in homes, child care facilities and schools, built before 1978 to be certified and follow specific work practices to prevent lead contamination. Always ask to see your contractor's certification.

Federal law requires that individuals receive certain information before renovating more than six square feet of painted surfaces in a room for interior projects or more than twenty square feet of painted surfaces for exterior projects or window replacement or demolition in housing, child care facilities and schools built before 1978.

- Homeowners and tenants: renovators must give you this pamphlet before starting work.
- Child care facilities, including preschools and kindergarten classrooms, and the families of children under six years of age that attend those facilities: renovators must provide a copy of this pamphlet to child care facilities and general renovation information to families whose children attend those facilities.

WHO SHOULD READ THIS PAMPHLET.

This pamphlet is for you if you:

- Reside in a home built before 1978.
- Own or operate a child care facility, including preschools and kindergarten classrooms, built before 1978, or
- Have a child under six years of age who attends a child care facility built before 1978.

You will learn:

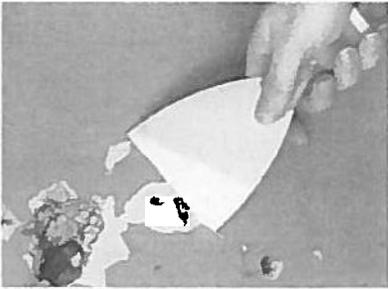
- Basic facts about lead and your health.
- How to choose a contractor, if you are a property owner.
- What tenants, and parents/guardians of a child in a child care facility or school should consider.
- How to prepare for the renovation or repair job.
- What to look for during the job and after the job is done.
- Where to get more information about lead.

This pamphlet is not for:

- Abatement projects. Abatement is a set of activities aimed specifically at eliminating lead or lead hazards. EPA has regulations for certification and training of abatement professionals. If your goal is to eliminate lead or lead hazards, contact the National Lead Information Center at 1-800-424-LEAD (5323) for more information.
- "Do-it-yourself" projects. If you plan to do renovation work yourself, this document is a good start, but you will need more information to complete the work safely. Call the National Lead Information Center at 1-800-424-LEAD (5323) and ask for more information on how to work safely in a home with lead-based paint.
- Contractor education. Contractors who want information about working safely with lead should contact the National Lead Information Center at 1-800-424-LEAD (5323) for information about courses and resources on lead-safe work practices.



RENOVATING, REPAIRING, OR PAINTING?



- Is your home, your building, or the child care facility or school your children attend being renovated, repaired, or painted?
- Was your home, your building, or the child care facility or school where your children under six years of age attend built before 1978?

If the answer to these questions is YES, there are a few important things you need to know about lead-based paint.

This pamphlet provides basic facts about lead and information about lead safety when work is being done in your home, your building or the child care facility or school your children attend.

The Facts About Lead

- Lead can affect children's brains and developing nervous systems, causing reduced IQ, learning disabilities, and behavioral problems. Lead is also harmful to adults.
- Lead in dust is the most common way people are exposed to lead. People can also get lead in their bodies from lead in soil or paint chips. Lead dust is often invisible.
- Lead-based paint was used in more than 38 million homes until it was banned for residential use in 1978.
- Projects that disturb painted surfaces can create dust and endanger you and your family. Don't let this happen to you. Follow the practices described in this pamphlet to protect you and your family.

LEAD AND YOUR HEALTH

Lead is especially dangerous to children under six years of age.

Lead can affect children's brains and developing nervous systems, causing:

- Reduced IQ and learning disabilities.
- Behavior problems.

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

Lead is also harmful to adults. In adults, low levels of lead can pose many dangers, including:

- High blood pressure and hypertension.
- Pregnant women exposed to lead can transfer lead to their fetuses. Lead gets into the body when it is swallowed or inhaled.
- People, especially children, can swallow lead dust as they eat, play, and do other normal hand-to-mouth activities.
- People may also breathe in lead dust or fumes if they disturb lead-based paint. People who sand, scrape, burn, brush or blast or otherwise disturb lead-based paint risk unsafe exposure to lead.

What should I do if I am concerned about my family's exposure to lead?

- Call your local health department for advice on reducing and eliminating exposures to lead inside and outside your home, child care facility or school.
- Always use lead-safe work practices when renovation or repair will disturb painted surfaces.
- A blood test is the only way to find out if you or a family member already has lead poisoning. Call your doctor or local health department to arrange for a blood test.

For more information about the health effects of exposure to lead, visit the EPA lead website at www.epa.gov/lead/pubs/leadinfo.htm or call 1-800-424-LEAD (5323).

There are other things you can do to protect your family every day.

- Regularly clean floors, window sills, and other surfaces.
- Wash children's hands, bottles, pacifiers, and toys often.
- Make sure children eat a healthy, nutritious diet consistent with the USDA's dietary guidelines, that helps protect children from the effects of lead.
- Wipe off shoes before entering house.

WHERE DOES THE LEAD COME FROM?

Dust is the main problem.

The most common way to get lead in the body is from dust. Lead dust comes from deteriorating lead-based paint and lead-contaminated soil that gets tracked into your home. This dust may accumulate to unsafe levels. Then, normal hand-to-mouth activities, like playing and eating (especially in young children), move that dust from surfaces like floors and window sills into the body.

Home renovation creates dust.

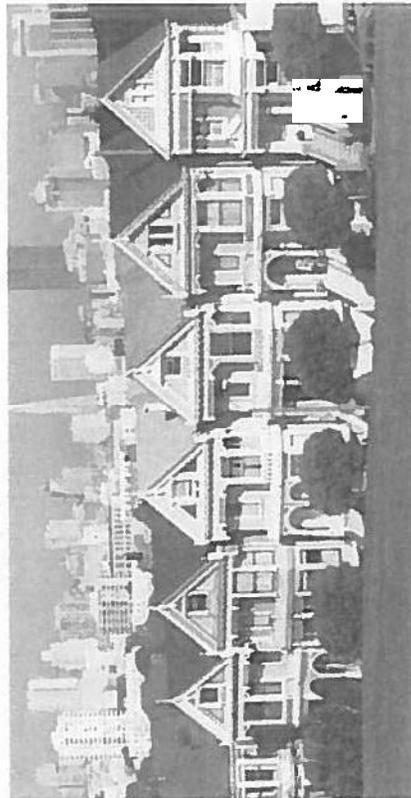
Common renovation activities like sanding, cutting, and demolition can create hazardous lead dust and chips.

Proper work practices protect you from the dust.

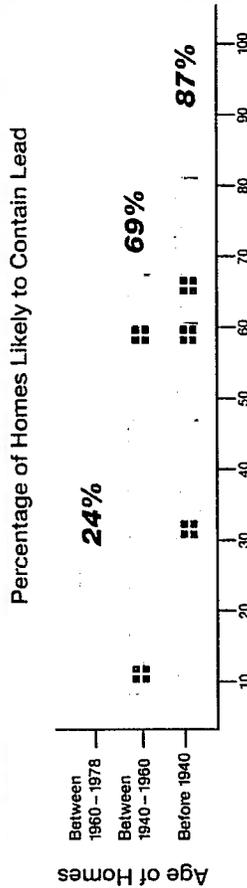
The key to protecting yourself and your family during a renovation, repair or painting job is to use lead-safe work practices such as containing dust inside the work area, using dust-minimizing work methods, and conducting a careful cleanup, as described in this pamphlet.

Other sources of lead.

Remember, lead can also come from outside soil, your water, or household items (such as lead-glazed pottery and lead crystal). Contact the National Lead Information Center at 1-800-424-LEAD (5323) for more information on these sources.



CHECKING YOUR HOME FOR LEAD-BASED PAINT



Older homes, child care facilities, and schools are more likely to contain lead-based paint.

Homes may be single-family homes or apartments. They may be private, government-assisted, or public housing. Schools are preschools and kindergarten classrooms. They may be urban, suburban, or rural.

You have the following options:

You may decide to assume your home, child care facility, or school contains lead. Especially in older homes and buildings, you may simply want to assume lead-based paint is present and follow the lead-safe work practices described in this brochure during the renovation, repair, or painting job.

You can hire a certified professional to check for lead-based paint.

These professionals are certified risk assessors or inspectors, and can determine if your home has lead or lead hazards.

- A certified inspector or risk assessor can conduct an inspection telling you whether your home, or a portion of your home, has lead-based paint and where it is located. This will tell you the areas in your home where lead-safe work practices are needed.
- A certified risk assessor can conduct a risk assessment telling you if your home currently has any lead hazards from lead in paint, dust, or soil. The risk assessor can also tell you what actions to take to address any hazards.
- For help finding a certified risk assessor or inspector, call the National Lead Information Center at 1-800-424-LEAD (5323).

You may also have a certified renovator test the surfaces or components being disturbed for lead using a lead test kit. Test kits must be EPA-recognized and are available at hardware stores. They include detailed instructions for their use.

FOR PROPERTY OWNERS

You have the ultimate responsibility for the safety of your family, tenants, or children in your care.

This means properly preparing for the renovation and keeping persons out of the work area (see p. 8). It also means ensuring the contractor uses lead-safe work practices.

Federal law requires that contractors performing renovation, repair and painting projects that disturb painted surfaces in homes, child care facilities, and schools built before 1978 be certified and follow specific work practices to prevent lead contamination.

Make sure your contractor is certified, and can explain clearly the details of the job and how the contractor will minimize lead hazards during the work.

- You can verify that a contractor is certified by checking EPA's website at epa.gov/getleadsafe or by calling the National Lead Information Center at 1-800-424-LEAD (5323). You can also ask to see a copy of the contractor's firm certification.

- Ask if the contractor is trained to perform lead-safe work practices and to see a copy of their training certificate.

- Ask them what lead-safe methods they will use to set up and perform the job in your home, child care facility or school.

- Ask for references from at least three recent jobs involving homes built before 1978, and speak to each personally.

Always make sure the contract is clear about how the work will be set up, performed, and cleaned.

- Share the results of any previous lead tests with the contractor.

- You should specify in the contract that they follow the work practices described on pages 9 and 10 of this brochure.

- The contract should specify which parts of your home are part of the work area and specify which lead-safe work practices will be used in those areas. Remember, your contractor should confine dust and debris to the work area and should minimize spreading that dust to other areas of the home.

- The contract should also specify that the contractor will clean the work area, verify that it was cleaned adequately, and re-clean it if necessary.

If you think a worker is not doing what he is supposed to do or is doing something that is unsafe, you should:

- Direct the contractor to comply with regulatory and contract requirements.

- Call your local health or building department, or

- Call EPA's hotline 1-800-424-LEAD (5323).

if your property receives housing assistance from HUD (or a state or local agency that uses HUD funds), you must follow the requirements of HUD's Lead-Safe Housing Rule and the ones described in this pamphlet.

FOR TENANTS AND FAMILIES OF CHILDREN UNDER SIX YEARS OF AGE IN CHILD CARE FACILITIES AND SCHOOLS

You play an important role ensuring the ultimate safety of your family.

This means properly preparing for the renovation and staying out of the work area (see p. 8).

Federal law requires that contractors performing renovation, repair and painting projects that disturb painted surfaces in homes built before 1978 and in child care facilities and schools built before 1978, that a child under six years of age visits regularly, to be certified and follow specific work practices to prevent lead contamination.

The law requires anyone hired to renovate, repair, or do painting preparation work on a property built before 1978 to follow the steps described on pages 9 and 10 unless the area where the work will be done contains no lead-based paint.

If you think a worker is not doing what he is supposed to do or is doing something that is unsafe, you should:

- Contact your landlord.

- Call your local health or building department, or

- Call EPA's hotline 1-800-424-LEAD (5323).

If you are concerned about lead hazards left behind after the job is over, you can check the work yourself (see page 10).



PREPARING FOR A RENOVATION

The work areas should not be accessible to occupants while the work occurs.

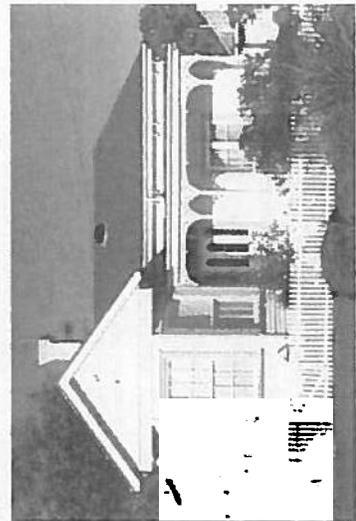
The rooms or areas where work is being done may need to be blocked off or sealed with plastic sheeting to contain any dust that is generated. Therefore, the contained area may not be available to you until the work in that room or area is complete, cleaned thoroughly, and the containment has been removed. Because you may not have access to some areas during the renovation, you should plan accordingly.

You may need:

- Alternative bedroom, bathroom, and kitchen arrangements if work is occurring in those areas of your home.
- A safe place for pets because they too can be poisoned by lead and can track lead dust into other areas of the home.
- A separate pathway for the contractor from the work area to the outside in order to bring materials in and out of the home. Ideally, it should not be through the same entrance that your family uses.
- A place to store your furniture. All furniture and belongings may have to be moved from the work area while the work is being done. Items that can't be moved, such as cabinets, should be wrapped in plastic.
- To turn off forced-air heating and air conditioning systems while the work is being done. This prevents dust from spreading through vents from the work area to the rest of your home. Consider how this may affect your living arrangements.

You may even want to move out of your home temporarily while all or part of the work is being done.

Child care facilities and schools may want to consider alternative accommodations for children and access to necessary facilities.



DURING THE WORK

Federal law requires contractors that are hired to perform renovation, repair and painting projects in homes, child care facilities, and schools built before 1978 that disturb painted surfaces to be certified and follow specific work practices to prevent lead contamination.

The work practices the contractor must follow include these three simple procedures, described below:

1. **Contain the work area.** The area must be contained so that dust and debris do not escape from that area. Warning signs must be put up and plastic or other impermeable material and tape must be used as appropriate to:

- Cover the floors and any furniture that cannot be moved.
 - Seal off doors and heating and cooling system vents.
- These will help prevent dust or debris from getting outside the work area.

2. **Avoid renovation methods that generate large amounts of lead-contaminated dust.** Some methods generate so much lead-contaminated dust that their use is prohibited. They are:

- Open flame burning or torching.
- Sanding, grinding, planing, needle gunning, or blasting with power tools and equipment not equipped with a shroud and HEPA vacuum attachment.
- Using a heat gun at temperatures greater than 1100°F.

There is no way to eliminate dust, but some renovation methods make less dust than others. Contractors may choose to use various methods to minimize dust generation, including using water to mist areas before sanding or scraping; scoring paint before separating components; and prying and pulling apart components instead of breaking them.

3. **Clean up thoroughly.** The work area should be cleaned up daily to keep it as clean as possible. When all the work is done, the area must be cleaned up using special cleaning methods before taking down any plastic that isolates the work area from the rest of the home. The special cleaning methods should include:

- Using a HEPA vacuum to clean up dust and debris on all surfaces, followed by
- Wet wiping and wet mopping with plenty of rinse water.

When the final cleaning is done, look around. There should be no dust, paint chips, or debris in the work area. If you see any dust, paint chips, or debris, the area must be re-cleaned.

FOR PROPERTY OWNERS: AFTER THE WORK IS DONE

When all the work is finished, you will want to know if your home, child care facility, or school has been cleaned up properly. Here are some ways to check.

Ask about your contractor's final cleanup check. Remember, lead dust is often invisible to the naked eye. It may still be present even if you cannot see it. The contractor must use disposable cleaning cloths to wipe the floor of the work area and compare them to a cleaning verification card to determine if the work area was adequately cleaned.

To order a cleaning verification card and detailed instructions visit the EPA lead website at www.epa.gov/lead or contact the National Lead Information Center at 1-800-424-LEAD (5323) or visit their website at www.epa.gov/lead/nlic.htm.

You also may choose to have a lead-dust test. Lead-dust tests are wipe samples sent to a laboratory for analysis.

- You should specify in your contract that a lead-dust test will be done. In this case, make it clear who will do the testing.
- Testing should be done by a lead professional.

If you choose to do the testing, some EPA-recognized lead laboratories will send you a kit that allows you to collect samples and send them back to the lab for analysis.

Contact the National Lead Information Center at 1-800-424-LEAD (5323) for lists of qualified professionals and EPA-recognized lead labs.

If your home, child care facility, or school fails the dust test, the area should be re-cleaned and tested again.

Where the project is done by contract, it is a good idea to specify in the contract that the contractor is responsible for re-cleaning if the home, child care facility, or school fails the test.



FOR ADDITIONAL INFORMATION

You may need additional information on how to protect yourself and your children while a job is going on in your home, your building, or child care facility.

The National Lead Information Center at 1-800-424-LEAD (5323) or www.epa.gov/lead/nlic.htm can tell you how to contact your state, local, and/or tribal programs or get general information about lead poisoning prevention.

- State and tribal lead poisoning prevention or environmental protection programs can provide information about lead regulations and potential sources of financial aid for reducing lead hazards. If your state or local government has requirements more stringent than those described in this pamphlet, you must follow those requirements.
- Local building code officials can tell you the regulations that apply to the renovation work that you are planning.

- State, county, and local health departments can provide information about local programs, including assistance for lead-poisoned children and advice on ways to get your home checked for lead.

The National Lead Information Center can also provide a variety of resource materials, including the following guides to lead-safe work practices. Many of these materials are also available at www.epa.gov/lead/pubs/brochure.htm.

- Steps to Lead Safe Renovation, Repair and Painting.
- Protect Your Family from Lead in Your Home
- Lead in Your Home: A Parent's Reference Guide



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 CONTACTS

EPA Regional Offices

EPA addresses residential lead hazards through several different regulations. EPA requires training and certification for conducting abatement and renovations, education about hazards associated with renovations, disclosure about known lead paint and lead hazards in housing, and sets lead-paint hazard standards. Your Regional EPA Office can provide further information regarding lead safety and lead protection programs at epa.gov/lead.

Region 1 (Connecticut, Massachusetts, Maine, New Hampshire, Rhode Island, Vermont) Regional Lead Contact U.S. EPA Region 1 Suite 1100 One Congress Street Boston, MA 02114-2023 (888) 372-7341	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 30303-8960 (404) 562-9900	Region 7 (Iowa, Kansas, Missouri, Nebraska) Regional Lead Contact U.S. EPA Region 7 901 N. 5th Street Kansas City, KS 66101 (913) 551-7003
Region 2 (New Jersey, New York, Puerto Rico, Virgin Islands) Regional Lead Contact U.S. EPA Region 2 2890 Woodbridge Avenue Building 205, Mail Stop 225 Edison, NJ 08837-3679 (732) 321-6671	Region 5 (Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin) Regional Lead Contact U.S. EPA Region 5 77 West Jackson Boulevard Chicago, IL 60604-3507 (312) 886-6003	Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming) Regional Lead Contact U.S. EPA Region 8 1595 Wynkoop Street Denver, CO 80202 (303) 312-6312
Region 3 (Delaware, Maryland, Pennsylvania, Virginia, Washington, DC, West Virginia) Regional Lead Contact U.S. EPA Region 3 1650 Arch Street Philadelphia, PA 19103-2029 (215) 814-5000	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) 665-6444	Region 9 (Arizona, California, Hawaii, Nevada) Regional Lead Contact U.S. Region 9 75 Hawthorne Street San Francisco, CA 94105 (415) 947-8021
		Region 10 (Alaska, Idaho, Oregon, Washington) Regional Lead Contact U.S. EPA Region 10 1200 Sixth Avenue Seattle, WA 98101-1128 (206) 553-1200

OTHER FEDERAL AGENCIES

CPSC

The Consumer Product Safety Commission (CPSC) protects the public from the unreasonable risk of injury or death from 15,000 types of consumer products under the agency's jurisdiction. CPSC warns the public and private sectors to reduce exposure to lead and increase consumer awareness. Contact CPSC for further information regarding regulations and consumer product safety.

CPSC
4330 East West Highway
Bethesda, MD 20814
Hotline 1-(800) 638-2772
www.cpsc.gov

CDC Childhood Lead Poisoning Prevention Branch

The Centers for Disease Control and Prevention (CDC) assists state and local childhood lead poisoning prevention programs to provide a scientific basis for policy decisions, and to ensure that health issues are addressed in decisions about housing and the environment. Contact CDC Childhood Lead Poisoning Prevention Program for additional materials and links on the topic of lead.

CDC Childhood Lead Poisoning Prevention Branch
4770 Buford Highway, MS F 40
Atlanta, GA 30341
(770) 488-3300
www.cdc.gov/nceh/lead

HUD Office of Healthy Homes and Lead Hazard Control

The Department of Housing and Urban Development (HUD) provides funds to state and local governments to develop cost-effective ways to reduce lead-based paint hazards in America's privately-owned low-income housing. In addition, the office enforces the rule on disclosure of known lead paint and lead hazards in housing, and HUD's lead safety regulations in HUD-assisted housing, provides public outreach and technical assistance, and conducts technical studies to help protect children and their families from health and safety hazards in the home. Contact the HUD Office of Healthy Homes and Lead Hazard Control for information on lead regulations, outreach efforts, and lead hazard control research and outreach grant programs.

U.S. Department of Housing and Urban Development
Office of Healthy Homes and Lead Hazard Control
451 Seventh Street, SW, Room 8236
Washington, DC 20410-3000
HUD's Lead Regulations Hotline
(202) 402-7698
www.hud.gov/offices/lead/

SAMPLE PRE-RENOVATION FORM

This sample form may be used by renovation firms to document compliance with the Federal pre-renovation education and renovation, repair, and painting regulations.

Occupant Confirmation

Pamphlet Receipt

- I have received a copy of the lead hazard information pamphlet informing me of the potential risk of the lead hazard exposure from renovation activity to be performed in my dwelling unit. I received this pamphlet before the work began.

Printed Name of Owner-occupant

Signature of Owner-occupant

Signature Date

Renovator's Self Certification Option (for tenant-occupied dwellings only)

Instructions to Renovator: If the lead hazard information pamphlet was delivered but a tenant signature was not obtainable, you may check the appropriate box below.

- Declined** – I certify that I have made a good faith effort to deliver the lead hazard information pamphlet to the rental dwelling unit listed below at the date and time indicated and that the occupant declined to sign the confirmation of receipt. I further certify that I have left a copy of the pamphlet at the unit with the occupant.
- Unavailable for signature** – I certify that I have made a good faith effort to deliver the lead hazard information pamphlet to the rental dwelling unit listed below and that the occupant was unavailable to sign the confirmation of receipt. I further certify that I have left a copy of the pamphlet at the unit by sliding it under the door or by (fill in how pamphlet was left).

Printed Name of Person Certifying Delivery

Attempted Delivery Date

Signature of Person Certifying Lead Pamphlet Delivery

Unit Address

Note Regarding Mailing Option — As an alternative to delivery in person, you may mail the lead hazard information pamphlet to the owner and/or tenant. Pamphlet must be mailed at least seven days before renovation. Mailing must be documented by a certificate of mailing from the post office.

**Town of Fairfield
Wetland soils and setbacks
September 2, 2008**

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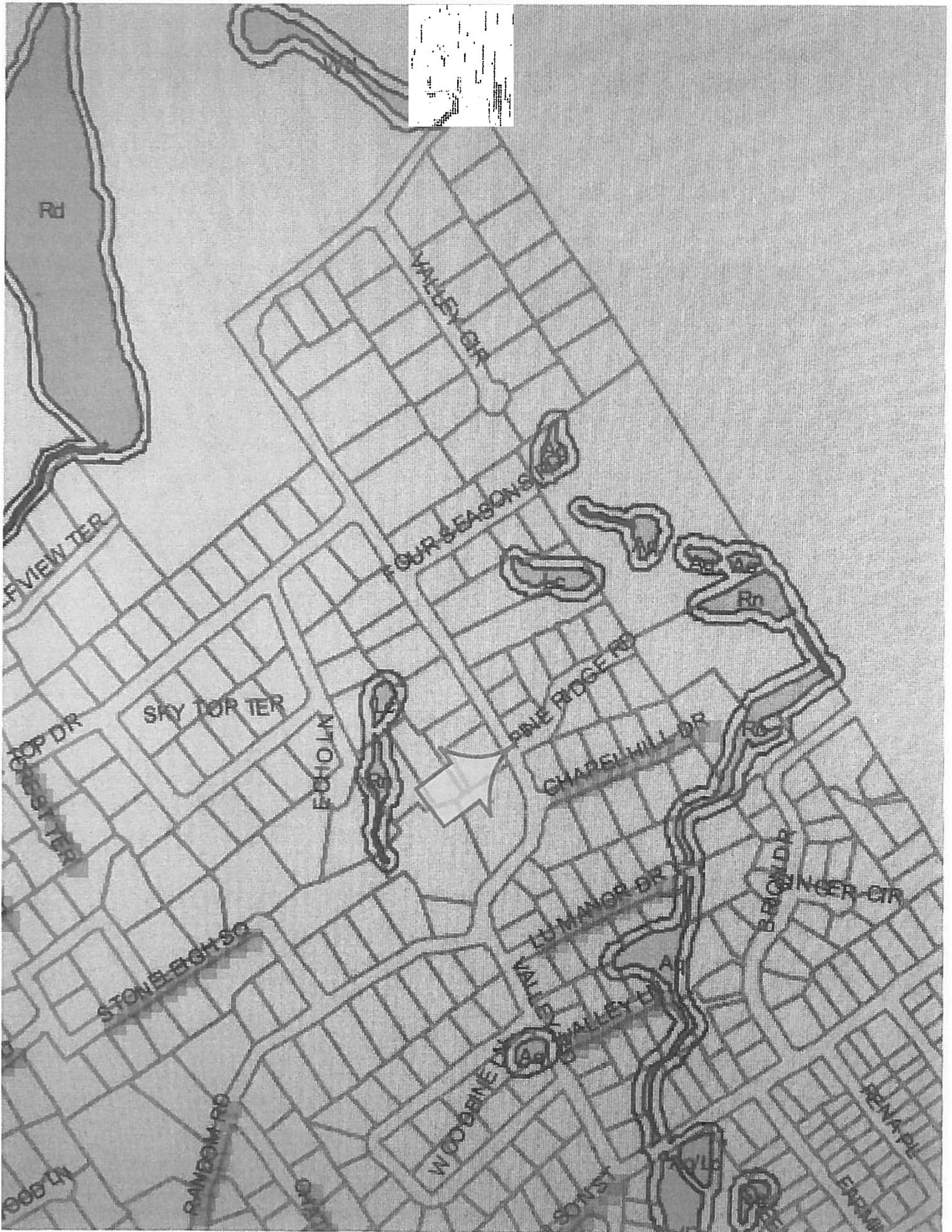


Wetland Soils

Watersheds

- Aspetuck River
- Browns Brook
- Cricker Brook
- Grasmere
- Horse Tavern
- Londons Brook
- Mill River
- Pine Creek
- Rooster River
- Sasco Brook
- Sasco Brook Trib

Watershed	Set Back in Feet
Sasco Tributary	95
Sasco Brook	95
Roster River	90
Pine Creek	50
Mill River	144
Londons Brook	30
Horse Tavern	34
Grasmere	79
Cricker Brook	103
Browns Brook	83
Aspetuck River	106



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