APPENDIX "A"

ENVIRONMENTAL REVIEW REPORT

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

Applicant # 2025

14 Cooper Avenue
Milford, 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

14 COOPER AVE

Location	14 COOPER AVE	**Assessment**	$187,030
Mblu	22/ 459/ 7/ /	**Appraisal**	$267,190
Acct#	004919	**PID**	4308
Owner	MARTINEZ ELENA	**Building Count**	1

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2013	$173,590	$93,600	$267,190
Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2013	$121,510	$65,520	$187,030

Owner of Record

Owner	MARTINEZ ELENA	**Sale Price**	$170,000
Co-Owner		**Book & Page**	03311/0595
Address	14 COOPER AVE MILFORD, CT 06460	**Sale Date**	07/30/2009

Ownership History

Ownership History			
Owner	**Sale Price**	**Book & Page**	**Sale Date**
DANIELS JANET ANNE EST		03272/0706	12/19/2008
DANIELS JANET	$0	00789/0128	09/09/1974

Building Information

Building 1 : Section 1

Year Built:	1915
Living Area:	936
Replacement Cost:	$209,150
Building Percent Good:	83
Replacement Cost Less Depreciation:	$173,590

Building Photo

Building Attributes	
Field	**Description**
Style	Ranch
Model	Residential
Grade:	Average +10

Stories:	1 Story
Occupancy	1
Exterior Wall 1	Clapboard
Exterior Wall 2	
Roof Structure:	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall/Sheet
Interior Wall 2	Wall Brd/Wood
Interior Flr 1	Carpet
Interior Flr 2	
Heat Fuel	Gas
Heat Type:	Hot Water
AC Type:	Central
Total Bedrooms:	3 Bedrooms
Total Bthrms:	1
Total Half Baths:	0
Total Xtra Fixtrs:	
Total Rooms:	5 Rooms
Bath Style:	Average
Kitchen Style:	Updated
Bath Desc.	1-Full

(http://images.vgsi.com/photos/MilfordCTPhotos//\00\02\68/33.jpg)

Building Layout

Building Sub-Areas			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	936	936
FEP	Porch, Enclosed, Finished	692	0
FSP	Porch, Screen, Finished	468	0
PTO	Patio	368	0
SFB	Base, SL/RR-Finished	360	0
UCP	Carport, Unfinished	432	0
WDK	Deck, Wood	128	0
		3384	936

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Use Code 1010

Land Line Valuation

Size (Acres) 0.16

Description	SINGLE FAM MDL-01	**Frontage**	60
Zone	R5	**Depth**	112
Neighborhood	E	**Assessed Value**	$65,520
Alt Land Appr	No	**Appraised Value**	$93,600
Category			

Outbuildings

Outbuildings	Legend
No Data for Outbuildings	

Valuation History

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2013	$173,590	$93,600	$267,190
2012	$173,590	$124,800	$298,390
2011	$173,590	$124,800	$298,390

Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2013	$121,510	$65,520	$187,030
2012	$121,510	$87,360	$208,870
2011	$121,510	$87,360	$208,870

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Print

Find Milford CT Homes www.RealtyQuest.com RealtyQuest: The Easy Way To Find MLS Home Listings in Milford CT Ad

YAHOO! MAPS

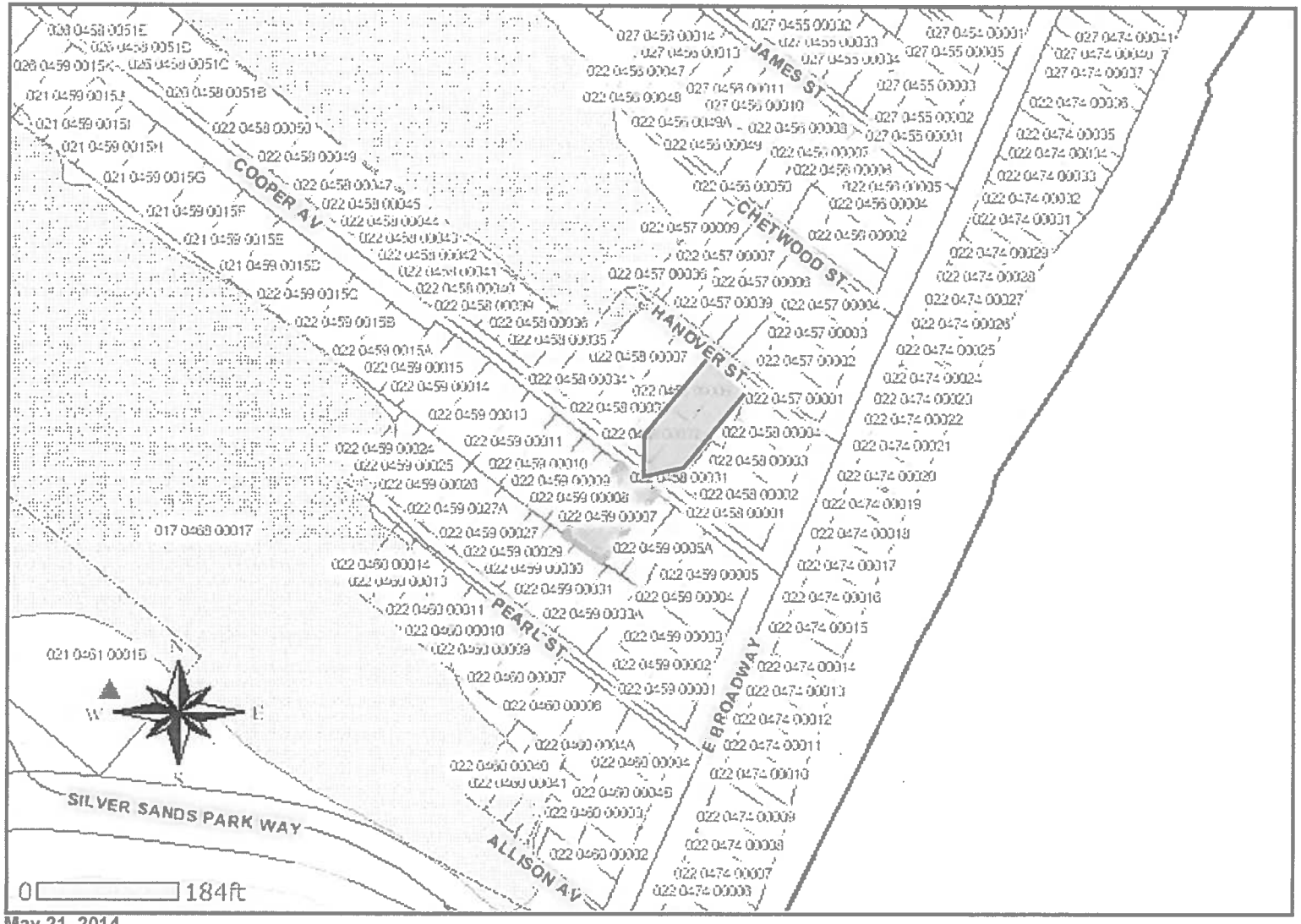
14 Cooper Ave, Milford, CT 06460-6208

Enter notes here

255

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

14 Cooper Ave

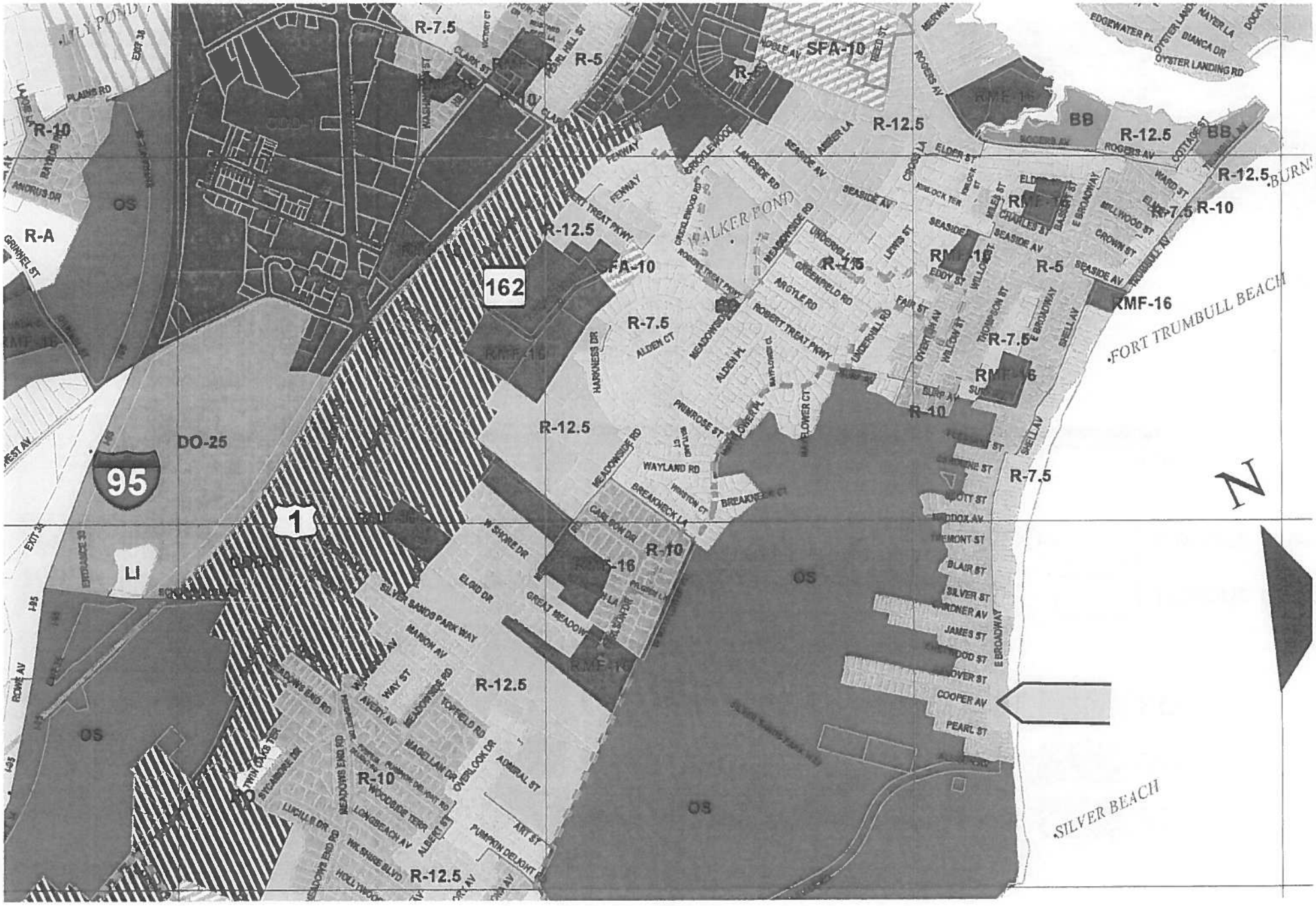


Legend

- Municipal Facili
- Streets
- Wetlands
- Tax Parcels
- Town Boundary

May 21, 2014

Disclaimer: This map was produced from the City of Milford Geographic Information System. The map was compiled using the most current GIS data available. It is deemed accurate, but is not guaranteed. The City expressly disclaims any liability that may result from the use of this map. This map is not a survey and is subject to any changes an actual land survey discloses.


R-7.5
R-5
SFA-10
R-12.5
BB
R-10
R-A
OS
162
95
1
DO-25
LI
R-15
RMF-16
R-7.5
R-10
WALKER POND
FORT TRUMBULL BEACH
SILVER BEACH
N
SEASIDE AV
ROBERT TREAT PKWY
WAYLAND RD
BREAKNECK LA
W SHORE DR
SILVER SANDS PARK WAY
ELGID DR
GREAT MEADOW
MARION AV
MEADOWSIDE RD
TOPFIELD RD
MAGELLAN DR
OVERLOOK DR
ADMIRAL ST
PUMPKIN DELIGHT
LONGBEACH AV
ALBERT ST
WILSHIRE BLVD
E BROADWAY
COOPER AV
PEARL ST
JAMES ST
SILVER ST
BLAIR ST
FREMONT ST
ROGERS AV
OYSTER LANDING RD
EDGEWATER PL
BIANCA DR
NAYER LA
COTTAGE ST
WARD ST
MILLWOOD ST
CROWN ST
SHELL AV
THOMPSON ST
WILLOW ST
OYSTER LA
FAIR ST
EDDY ST
ELDER ST
CHARLES ST
MILES ST
LEWIS ST
UNDERHILL RD
GREENFIELD RD
ARGYLE RD
PRIMROSE ST
ALDEN CT
ALDEN PL
HAWKINS DR
FENWAY
LAKESIDE RD
CROCKLEWOOD RD
NOBLE AV
ANDRUS DR
PLAINS RD
GRUNNEL ST
ROWE AV
TWIN OAKS TER
SYCAMORE DR
LUCILLE DR
HOLLYWOOD TER
WOODSIDE TERR
AVERY AV
WAY ST
ART ST

Legend

	R-A		R-5		BD		CDD-4		RO		BB
	R-30		OSAHD-MF		MCDD		CDD-5		OD		WDD
	R-18		PRD		CBDD		ICD		OS		BD-1
	R-12.5		SFA-10		CDD-1		SCD		LI		
	R-10		RMF-9		CDD-2		DO-10		ID		Historic Distri
	R-7.5		RMF-16		CDD-3		DO-25		HDD		Coastal Area

2,000 1,000 0 2,000 4,000 6,000 8,000 Feet

1 inch = 1,000 feet

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This map is not a survey and is subject to any changes an actual land survey discloses.

Date: 11/26/2013

Path: \\Mgis\gis\Projects\Zoning Map\Zoning_2013.mxd

J9	FOWLER TER	H10	JENNIFER LA	B8, C8	MEADOWSIDE RD	D6, E6, E7	PEARSON AV	I10, J10	SCHOONER LA	E8	TYLER RD	H2
I10, I11	FOXWOOD CL (PRIVATE)	F12	JEPSON DR	E8, E9	MEETINGHOUSE LA	I11	PECK LA	G13	SCOTT ST	F7	UNDERHILL RD	E7
H10	FOXWOOD LA (PRIVATE)	F12	JEROME LA	H10	MELBA ST	H8, I8, I9	PECK ST	D8	SE PARK RD (PRIVATE)	G11	UNDINE ST	B6
E7, E8	FRANCIS ST	D2	JOANNE DR	D4	MERCURY DR	I12	PEDLAR'S LA (PRIVATE)	E12	SE PARK RD	G11	UNION ST	E8
F7, F8	FRANKLIN RD	I12	JOHN ST	D4, D5	MERLIN CIR	H9, I9	PELHAM ST	I8	SEA FLOWER RD	D4	USHER ST	J12
B6	FREEDOM RD	B8	JONES CT	D5	MERRITT AV	C4, D4, D5	PENN CMN (PRIVATE)	J12	SEABREEZE AV	I11, J10, J11	UTICA ST	B5,
F7	FREEMONT AV	I11	JOY RD	D4, D5, E4, E5	MERWIN AV	I13, J10, J11, J12, J13	PEPE'S FARM RD	H10, H11, H12	SEAHAWK CT (PRIVATE)	J11		
E11	FRENCH DR	I10	JOYCE CT	C9	MERWIN PL	E8, F8	PEQUOT ST	B4, B5	SEASIDE AV	E7, E8, F7	VALERY CT	D10,
H8	FRESH MEADOW LA	C10, C11, D11	JUDITH DR	E10, E11	MIDWAY AV	D5	PHELAN PARK DR	D5	SEASIDE CT	E8	VALLEY VIEW RD	B6
D10, D11	FULTON ST	B5, C5	JUDSON PL	C5	MIDWOOD RD	G8, H8	PICKETT ST	C4, C5	SEAVIEW AV	D2, D3	VERMONT AV	I13,
I11	FURNITURE ROW	G10	JULIA CT	E12	MILES ST	F7, F8	PIER CT	J12	SECOND AV EXT	D3	VERNAL PASS	H11,
E8			JUNIOR ST	D7	MILESFIELD AV	H8	PILGRIM LA	E6	SECOND AV	D3	VERNON CT	E10
E8, E9	GARDEN ST	D4	JUNIPER DR (PRIVATE)	B10, B9	MILFORD CHA	C8, C9	PINE CREST CT	C8, C9	SECOND PARK ST	G11	VIBURNUM LA (PRIVATE)	A9
B12	GARDNER AV	F6			MILFORD CIR (PRIVATE)	F11, G11	PINE KNOB TER	B11, B12	SEEMAN'S LA	D7, E7	VICTORY CREE	D9

U.S. DEPARTMENT OF HOMELAND SECURITY
Federal Emergency Management Agency
National Flood Insurance Program

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expires March 31, 2012

Important: Read the instructions on pages 1-9.

SECTION A - PROPERTY INFORMATION

For Insurance Company Use:
Policy Number
Company NAIC Number

A1. Building Owner's Name

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 14 COOPER AVENUE

City MILFORD State CT ZIP Code 06460

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL

A5. Latitude/Longitude: Lat. _____ Long. _____ Horizontal Datum: ☐ NAD 1927 ☐ NAD 1983

A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A7. Building Diagram Number 6

A8. For a building with a crawlspace or enclosure(s):
a) Square footage of crawlspace or enclosure(s) 313 sq ft
b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 3
c) Total net area of flood openings in A8.b 600 sq in
d) Engineered flood openings? ☒ Yes ☐ No

A9. For a building with an attached garage:
a) Square footage of attached garage _____ sq ft
b) No. of permanent flood openings in the attached garage within 1.0 foot above adjacent grade _____
c) Total net area of flood openings in A9.b _____ sq in
d) Engineered flood openings? ☐ Yes ☐ No

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number	B2. County Name	B3. State
MILFORD 090082	NEW HAVEN	CT.

B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	B7. FIRM Panel Effective/Revised Date	B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use base flood depth)
090082	0005F	9/7/99	9/7/99	AE	10

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.
☐ FIS Profile ☒ FIRM Community Determined ☐ Other (Describe) _____

B11. Indicate elevation datum used for BFE in Item B9: ☐ NGVD 1929 ☐ NAVD 1988 ☐ Other (Describe) _____

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☒ No
Designation Date _____ ☐ CBRS ☐ OPA

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☒ Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. Use the same datum as the BFE.
Benchmark Utilized CITY Vertical Datum NGVD 1929
Conversion/Comments _____

Check the measurement used.

a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	5.2	☒ feet	☐ meters (Puerto Rico only)
b) Top of the next higher floor	14.4	☒ feet	☐ meters (Puerto Rico only)
c) Bottom of the lowest horizontal structural member (V Zones only)	—	☐ feet	☐ meters (Puerto Rico only)
d) Attached garage (top of slab)	—	☐ feet	☐ meters (Puerto Rico only)
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	10.2	☒ feet	☐ meters (Puerto Rico only)
f) Lowest adjacent (finished) grade next to building (LAG)	5.1	☒ feet	☐ meters (Puerto Rico only)
g) Highest adjacent (finished) grade next to building (HAG)	5.6	☒ feet	☐ meters (Puerto Rico only)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	5.0	☒ feet	☐ meters (Puerto Rico only)

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. *I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.*

☐ Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a licensed land surveyor? ☐ Yes ☐ No

Certifier's Name DERRICK R. SCHULL License Number PELS #15566
Title PRESIDENT Company Name SCHULL ASSOCIATES INC.
Address 367 HIGHLAND ST. City WEST HAVEN State CT. ZIP Code 06516
Signature [signature] Date 8/21/10 Telephone 203-932-8233

PLACE SEAL HERE

IMPORTANT: In these spaces, copy the corresponding information from Section A. | For Insurance Company Use:

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No: 14 COOPER AVENUE | Policy Number:

City: MILFORD | State: CT | ZIP Code: 06460 | Company NAIC Number:

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments: ELECTRIC PANEL BOX ELEVATION 10.2
FURNACE " 11.0

Signature: [signature] Date: 8/21/10 ☐ Check here if attachments

SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____.____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.
b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____.____ ☐ feet ☐ meters ☐ above or ☐ below the LAG.

E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8-9 of instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____.____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E3. Attached garage (top of slab) is _____.____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E4. Top of platform of machinery and/or equipment servicing the building is _____.____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? ☐ Yes ☐ No ☐ Unknown. The local official must certify this information in Section G.

SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. *The statements in Sections A, B, and E are correct to the best of my knowledge.*

Property Owner's or Owner's Authorized Representative's Name

Address | City | State | ZIP Code

Signature | Date | Telephone

Comments

☐ Check here if attachments

SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8 and G9.

G1. ☐ The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)

G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.

G3. ☐ The following information (Items G4-G9) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy Issued

G7. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building _____.____ ☐ feet ☐ meters (PR) Datum_____

G9. BFE or (in Zone AO) depth of flooding at the building site _____.____ ☐ feet ☐ meters (PR) Datum_____

G10. Community's design flood elevation _____.____ ☐ feet ☐ meters (PR) Datum_____

Local Official's Name | Title

Community Name | Telephone

Signature | Date

Comments

☐ Check here if attachments

CERTIFICATE OF USE AND OCCUPANCY
BUILDING DEPARTMENT
CITY OF MILFORD, CONNECTICUT

Dated November 23, 2010 SAPF

This certifies that the building or structure located

at 14 Cooper Ave. Permit # 47111

substantially conforms to the provisions of the Basic Building Code and is approved for use as

Use group single family dwelling; accessory

Fire grading R302

Maximum live load on all floors R301

Special Conditions CSBC 2005

elevate house (1st fl) from 7.4 to 15.4; new foundation and piers; 8 x 38 x 26.5 x 18' enclosed porch with 2 sets of stairs

Building of Use groups (A, B, C, D and E) shall be posted on all floors by the owner in a readily visible place stating: The Use group, the Fire grading, the Live load and the Occupancy load.

Use groups F and H shall be Posted designating the maximum occupancy load.

Certificate issued to Brian Brescia and Elena Martinez
Owner of Building

14 Cooper Ave., Milford, CT 06460
Address of Owner

Approved Thomas P. Lauri Jr. CBO/BCA
Building Official

This certificate valid only when signed by the Building Official

MAP SCALE 1" = 500'

250 0 500 1000 FEET

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0529J

FIRM

FLOOD INSURANCE RATE MAP

NEW HAVEN COUNTY, CONNECTICUT

(ALL JURISDICTIONS)

PANEL 529 OF 635

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
MILFORD, CITY OF	090082	0529	J

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

MAP NUMBER
09009C0529J

MAP REVISED
JULY 8, 2013

Federal Emergency Management Agency

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

2025SM

Department of Economic and Community Development

Connecticut
still revolutionary

RECEIVED
APR 21 2014
DEPT. OF HOUSING

April 10, 2014

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

Subject: Department of Housing Superstorm Sandy Reviews
14 Cooper Avenue
Milford, CT

Dear Ms. Delaire:

The State Historic Preservation Office has reviewed the information submitted for the above-named pursuant to the provisions of Section 106 of the National Historic Preservation Act of 1966. The property located at 14 Cooper Avenue in Milford is located within a potential National Register of Historic District; however, this property is not eligible for listing on the National Register of Historic Places and therefore would be a non-contributing resource.

Based on the information provided, the proposed rehabilitation of 14 Cooper Avenue will have no adverse effect on the state's cultural resources.

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

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

Sincerely,

Daniel T. Forrest
Deputy State Historic Preservation Officer

U.S. Fish and Wildlife Service

National Wetlands Inventory

14 Cooper Ave.
Milford

Sep 30, 2014

Wetlands

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

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

User Remarks:

United States Department of the Interior

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

Consultation Tracking Number: 05E1NE00-2015-SLI-0028 October 08, 2014
Project Name: Martinez 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: Martinez Residence

Official Species List

Provided by:

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

Consultation Tracking Number: 05E1NE00-2015-SLI-0028
Project Type: Federal Grant / Loan Related
Project Description: Repairs from Super Storm Sandy

United States Department of Interior
Fish and Wildlife Service

Project name: Martinez Residence

Project Location Map:

Project Coordinates: MULTIPOLYGON (((-73.0650363 41.2021567, -73.0648621 41.2020578, -73.0651143 41.2018136, -73.0653102 41.2019165, -73.0650363 41.2021567)))

Project Counties: New Haven, CT

United States Department of Interior
Fish and Wildlife Service

Project name: Martinez Residence

Endangered Species Act Species List

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

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

Critical habitats that lie within your project area

There are no critical habitats within your project area.

MAP SCALE 1" = 500'

250 0 500 1000 FEET

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0529J

FIRM

FLOOD INSURANCE RATE MAP

NEW HAVEN COUNTY, CONNECTICUT

(ALL JURISDICTIONS)

PANEL 529 OF 635

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
MILFORD, CITY OF	090082	0529	J

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

MAP NUMBER
09009C0529J

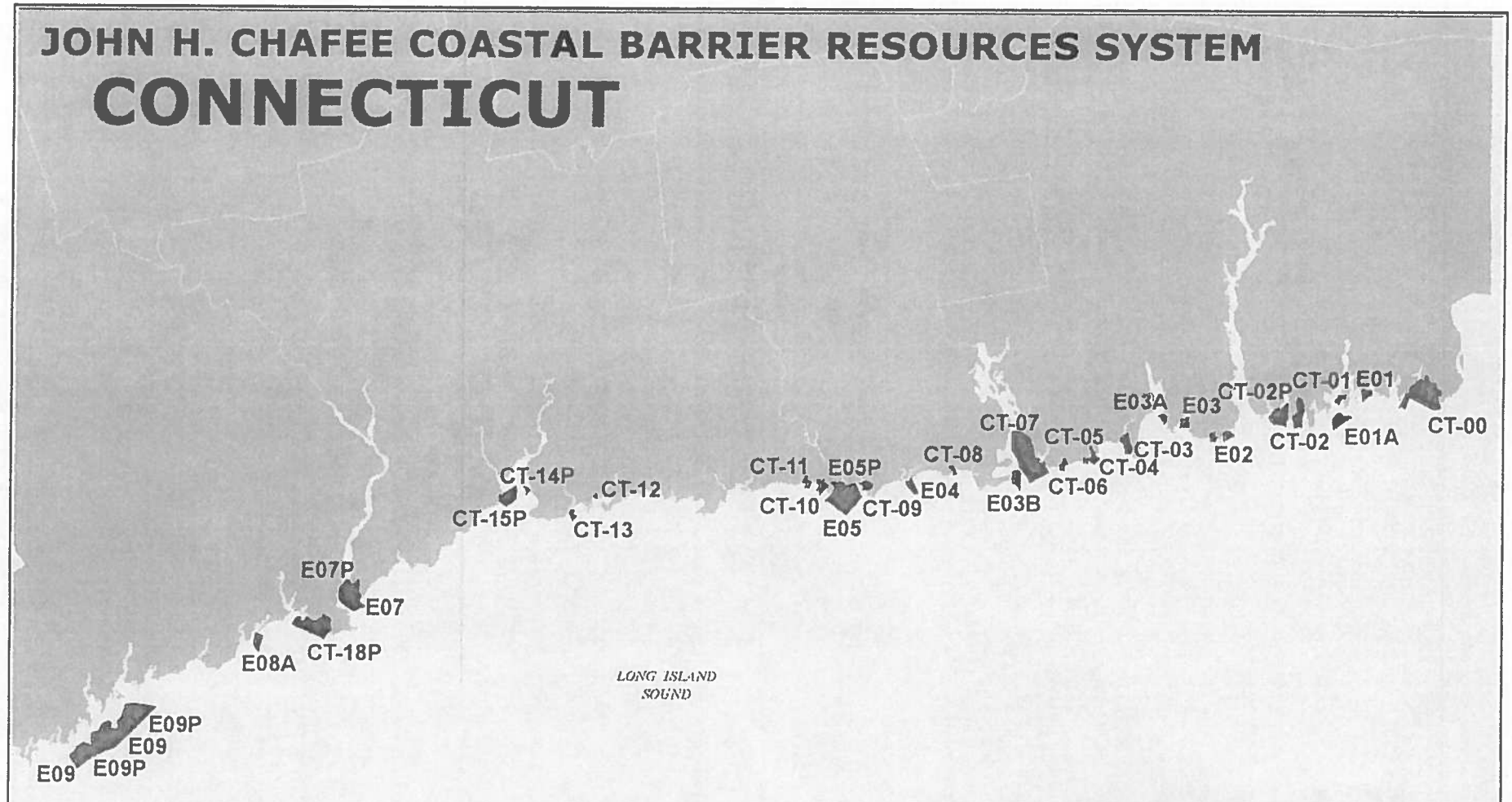
MAP REVISED
JULY 8, 2013

Federal Emergency Management Agency

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

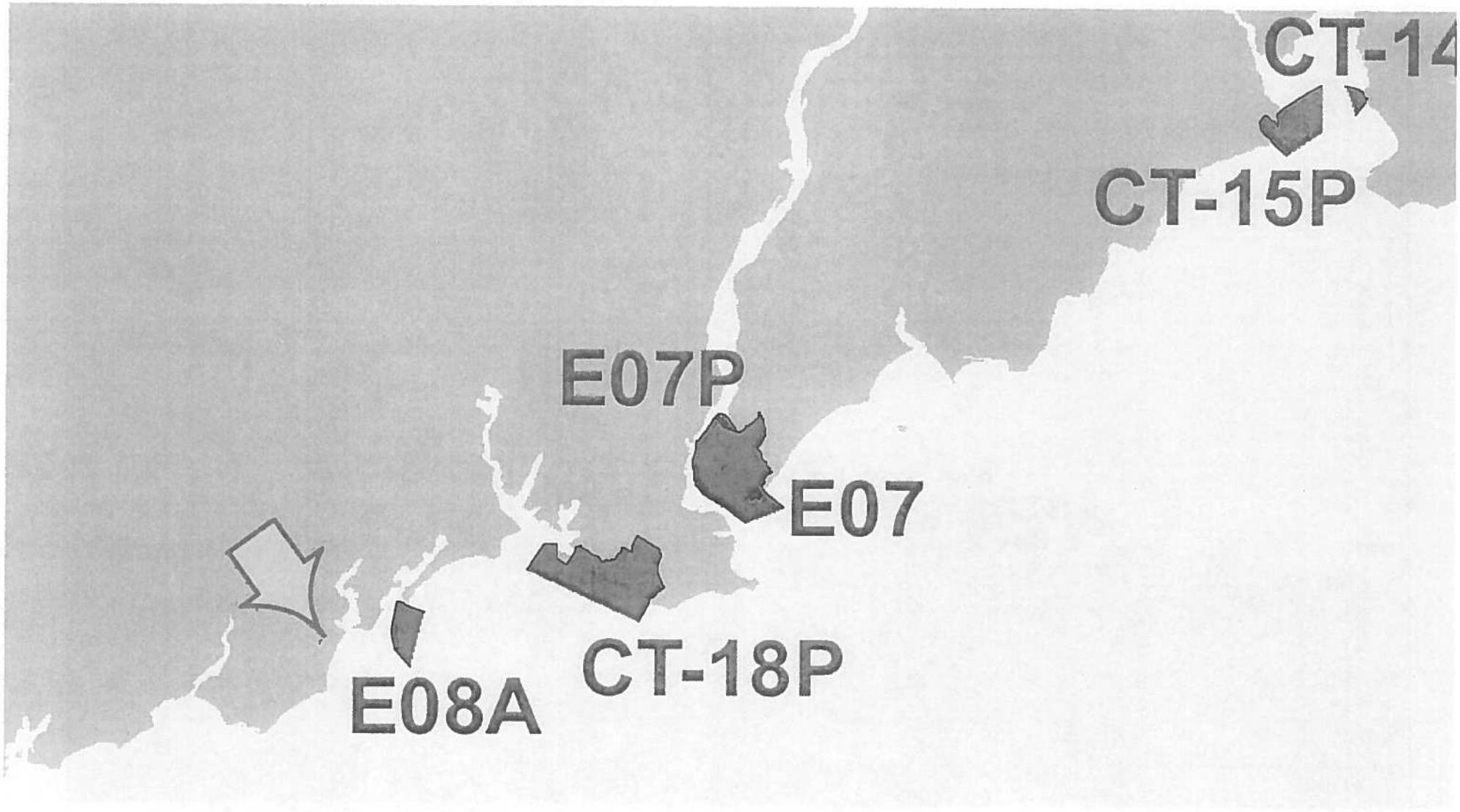
JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

CONNECTICUT



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. Chafee 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-14
CT-15P
E07P
E07
CT-18P
E08A

Limited Hazardous Materials Building Inspection Report

Storm Sandy Residential Rehabilitation Project
14 Cooper Avenue
Milford, Connecticut

Quisenberry Arcari Architects, LLC

Farmington, Connecticut

April 2014
Revised May 2014

FUSS & O'NEILL

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

Project No. 20140277.A5E

FUSS & O'NEILL
EnviroScience, LLC

April 28, 2014
Revised May 29, 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
14 Cooper Avenue, Milford, Connecticut
Fuss & O'Neill EnviroScience Project No. 20140277.A5E
Quisenberry Arcari Architects LLC Project No.1346-11

Dear Mr. Arcari:

Enclosed is the report for the limited hazardous materials building inspection performed at 14 Cooper Street in Milford, Connecticut.

The initial inspection was performed on April 2, 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 above-mentioned materials only. It does not include information on other hazardous materials that may exist in the property (such as underground storage tanks, PCB-containing building materials, etc.).

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

Sincerely,

Kevin McCarthy
Project Manager

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

Enclosure

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

www.fando.com

Connecticut
Massachusetts
Rhode Island
South Carolina

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FUSS & O'NEILL
EnviroScience, LLC

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Quisenberry Arcari Architects LLC
14 Cooper Avenue, Milford, Connecticut

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FUSS & O'NEILL
EnviroScience, LLC

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Limited Hazardous Materials Building Inspection Report
Quisenberry Arcari Architects LLC
14 Cooper Avenue, Milford, Connecticut

Appendices

APPENDIX A	FUSS & O'NEILL ENVIROSCIENCE STATE LICENSES, CERTIFICATIONS, AND ACCREDITATIONS
APPENDIX B	ASBESTOS SAMPLE RESULTS AND CHAIN OF CUSTODY FORMS
APPENDIX C	LEAD PAINT TESTING PROCEDURES AND EQUIPMENT
APPENDIX D	LEAD TESTING FIELD DATA SHEETS
APPENDIX E	AIRBORNE RADON GAS ASSESSMENT RESULTS AND CHAIN OF CUSTODY FORMS

1 Introduction

On April 2, 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 14 Copper Avenue in Milford, Connecticut (the "Site"). Mr. Hobbins and Mr. Cruess are State of Connecticut-licensed Asbestos Consultants - Inspectors and Certified Lead Paint Inspectors. The residential structure was occupied at the time and date of the inspection. Refer to *Appendix A* EnviroScience inspector's state license, 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 *Residence Rehabilitation Letter* dated March 6, 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 replacement; drywall repair and repaint, flooring repair, and structural upgrades,
- A Testing of painted surfaces for lead,
- An evaluation of fluorescent light fixtures for polychlorinated biphenyls (PCB)-containing ballasts,
- An inventory of light tubes/lamps and devices for mercury,
- Airborne radon gas assessment, and
- A mold assessment.

2 Asbestos Inspection

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

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

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

During this inspection, suspect ACM were separated into three EPA categories. These categories are: thermal system insulation (TSI), surfacing ACM, and miscellaneous ACM. TSI includes all materials used to prevent heat loss or gain or water condensation on mechanical systems. Examples of TSI are pipe insulation, boiler insulation, duct insulation, and mudded pipe fitting insulations. Surfacing ACM includes all ACM that is sprayed, troweled, or otherwise applied to an existing surface. Surfacing ACM is

commonly used for fireproofing, decorative, and acoustical applications. Miscellaneous materials include all ACM not listed in thermal or surfacing, such as linoleum, vinyl asbestos flooring, and ceiling tiles.

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

2.1 Methodology

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

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

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

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

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

2.2 Results

Utilizing the EPA protocol and criteria, the following materials were determined to be ACM:

Table 1
Asbestos-Containing Materials

Location	Material Type	Asbestos Content	Quantity	Sample No.
Exterior Roof at Chimney	Chimney Flashing	Assumed *Material assumed due to inaccessibility*	20 SF	N/A

Utilizing the EPA protocol and criteria, the following materials were determined to be **non-ACM**:

Table 2
Non-Asbestos Containing Materials

Location	Material Type	Sample No.
Living Room	Sheetrock & Taping/Joint Compound	0402BH01A-B, 02A-B, 03
	Black Paper/Vapor Barrier under Hardwood Flooring	0402BH04A-C
Unfinished Storage Area	Black Paper on Fiberglass Batting Insulation	0402BH05A-B
Building Exterior	Concrete on Support Column	0402BH06A-B
	Concrete Foundation	0402BH07A-B
Exterior Roof	Roof Shingle	0402BH08A-C
	Roof Base Sheet/Tar	0402BH09A-C

2.3 Discussion

Sample analytical results are reported in percentages of asbestos and non-asbestos components. The EPA defines any material that contains more than one percent (1%) asbestos, utilizing PLM, as being an ACM. Materials that are identified as "none detected" are specified as not containing asbestos. It is usually recommended that materials identified as containing less than one percent (<1%) friable asbestos be analyzed further using the EPA point count method.

2.4 Conclusions

The non-friable roofing materials identified in *Section 2.1 - Table 1* have been de-regulated by the Connecticut Department of Public Health (CTDPH). The assumed ACM non-friable roofing material may be removed by either a CTDPH-licensed Asbestos Abatement Contractor, or by a roofing contractor

provided they adhere to all Occupational Safety and Health Administration (OSHA) training requirements and EPA NESHAP regulatory requirements. All 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 ACM (RACM) by work activities. If the roofing material becomes RACM, then all applicable CTDPH regulations shall apply.

Note that materials containing trace amounts of asbestos (< 1%) asbestos are not regulated by the abovementioned regulations and standards with the exception of OSHA regulations with regard to worker exposure to asbestos. If disturbed, materials noted as containing < 1% asbestos will be subject to OSHA requirements to determine appropriate worker exposure and training requirements.

Roof Flashing – The roof flashing was not inspected at the time of the inspection and is assumed to be ACM.

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. Any suspect ACM encountered during renovation activities that is not identified in this report as being non-ACM, should be assumed to be ACM unless sample collection and analysis indicate otherwise.

3 Lead-Based Paint Testing

EnviroScience conducted comprehensive testing for surfaces coated with LBP within the Site structure. On April 2, 2014, EnviroScience's Environmental Technicians Mr. Hobbins and Mr. Cruess conducted the testing. The purpose of the testing was for compliance with EPA's Renovation, Repair, and Painting Rule (RRP) (Title 40 CFR, Parts 745.80 through 92), and the US Department of Housing and Urban Development (HUD) Lead-Safe Housing Rule (Title 24 CFR, Part 35, Subparts B-R).

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 in order to determine if the EPA Toxicity Characteristic Leaching Procedure (TCLP) analysis is required for demolition debris prior to off-site disposal.

The structure was constructed with a wood exterior with metal, wood, vinyl window and door systems. The interior is composed of sheetrock with hardwood 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 patterns and trends throughout the building interior and exterior. No painted building components were identified as containing toxic levels of lead (greater than 1.0 milligrams of lead per square centimeter of paint [mg/cm^2]).

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

3.3 Conclusions

Due to the absence of lead paint, a representative waste stream sample was not collected for TCLP analysis. No lead hazards were identified at the Site structure, and therefore, a lead risk assessment was not performed at the Site.

Note 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. The Contractor shall comply with exposure assessment criteria, interim worker protection, and other requirements of the regulation as necessary to protect workers and building occupants.

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.

4 Assessment of PCB-Containing Fluorescent Ballasts

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

4.1 Methodology

On April 2, 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 "No PCB's" label 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 PCB-containing light ballasts.

4.2 Results

Several of the light fixtures that were examined were labeled neither with the manufacturer's information, nor with 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 Site building were labeled either with the manufacturer's information, or with 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.

4.3 Conclusion

If the renovation activities will disturb the materials, the ballasts not labeled "No PCBs" should be properly recycled as PCBs. The remaining ballasts that are labeled "No PCBs" should be properly recycled as assumed DEHP-containing waste.

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. According to the EPA, mercury lamps are considered a universal waste requiring all fluorescent lamps/tubes to be recycled or disposed as hazardous waste.

5.1 Methodology

On April 2, 2014, EnviroScience's representative Mr. Hobbins performed a visual in-place inventory of mercury lamps/tubes, thermostats, and mercury switches.

5.2 Results

Two thermostats and approximately 20 light tubes/bulbs were observed during the visual inspection.

5.3 Conclusions

The mercury-containing thermostats and light tubes/bulbs should be properly disposed as mercury-containing wastes prior to disturbance. The light tubes/bulbs may be recycled/reclaimed as universal waste. The mercury-containing thermostats must be disposed as RCRA hazardous waste.

6 Mold Visual Assessment

On April 2, 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 was observed on any visible and accessible building materials within the residence at the time and date of the inspection.

7 Airborne Radon Information, Sampling and Procedure

7.1 Radon Facts and Health Effects

Radon is a naturally-occurring radioactive gas produced by the natural breakdown (decay) of uranium which is naturally occurring in soil and rock throughout the US. Radon gas travels through soil and enters buildings through cracks and other penetrations in building foundations. Eventually the gas itself decays into radioactive particles (decay products) that can become trapped in the lungs during human respiration. As these particles in turn decay they release small bursts of radiation which can damage lung tissue and lead to lung cancer over the course of a person's lifespan.

EPA studies have determined that radon gas 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 with 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 gas 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 gas 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 Methodology

From April 2, 2014 to April 4, 2014, EnviroScience's Mr. Hobbins and Mr. Cruess deployed passive radon detection canisters in limited areas within the Site structure. 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; analytical results are included in *Appendix F*.

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 standard 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 run. If both canister results are below the EPA standard then the RPD is not calculated since, despite any disparity, both results are below the EPA standard.

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

7.4 Airborne Radon Analytical Results

Three canisters, including one duplicates and one blank, were placed in target locations within the Site structure during sampling that was performed between April 2, 2014, and April 4, 2014. The radon gas concentrations in the samples collected during the assessment ranged from 0.1 pCi/L to 0.8 pCi/L. The EPA recommended action level for indoor radon gas is 4.0 pCi/L.

In *Table 3*, below, the locations and results of quality control duplicate tests are listed for the sampling conducted from April 2, 2014 to April 4, 2014.

Table 3
Duplicate Samples Results – April 2, 2014 – April 4,2014

Location	Canister Numbers	Radon Concentration (pCi/Liter)			Relative Percent Difference (RPD, %)
		Sample	Sample Duplicate	Sample Average	
Living Room	2299356 & 2299349	0.6	0.8	0.7	Percent Difference Not Needed (No Concentrations Above 4.0 pCi/Liter)

Note Duplicate testing results were satisfactory.

In *Table 4*, below, the locations and results of quality control blank tests are listed for sampling conducted from April 2, 2014 to April 4, 2014.

Table 4
Blank Samples Results – April 2, 2014 – April 4,2014

Location	Canister Numbers	Radon Concentration (pCi/Liter)
Living Room	2299435	0.1

Note Blank testing results were satisfactory

In *Table 5*, below, the locations, canister numbers, and radon concentrations are listed for the airborne radon assessment conducted from April 2, 2014 to April 4, 2014.

Table 5
Radon Sampling Results – April 2, 2014 – April 4, 2014

Location	Canister Numbers	Radon Concentration (pCi/Liter)
Living Room	2299356	0.6

7.5 Conclusions

During the course of the initial radon gas assessment, four sampling canisters, including one duplicate and one blank, were placed in targeted locations within Site structure. Of the four samples analyzed, each of the analytical results of the samples were below the EPA recommended action level of 4.0 pCi/L. No further action regarding radon gas is required.

Report prepared by Environmental Technician Robert Hobbins.

Reviewed by:

Kevin McCarthy
Project Manager

Timothy M. Downey
Senior Project Manager

FUSS & O'NEILL
EnviroScience.llc

Appendix A

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

0001557 FP **PRSRT T0 0 1664 06040
THOMAS M. CRUESS
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

NSTRUCTIONS:

. Detach and sign each of the cards on this form.
. Display the large card in a prominent place in your office or place of business.
. The wallet card is for you to carry on your person. If you do not wish to carry he wallet card, place it in a secure place.

4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT - INSPECTOR

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

THOMAS M. CRUESS

SIGNATURE COMMISSIONER

EMPLOYER'S COPY
STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
NAME
THOMAS M. CRUESS

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

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE COMMISSIONER

WALLET CARD
STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
NAME
THOMAS M. CRUESS

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

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE COMMISSIONER

Fuss & O'Neill EnviroScience, LLC

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

This is to certify that

Thomas Cruess

xxx-xx-8566

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 4, 2013

Date of Course

AI-R-09/13-5

Certificate Number

September 4, 2013; A

Examination Date & Grade

September 4, 2014

Expiration Date

0001569 FP **PRSRT TO 0 1564 06040
THOMAS M CRUESS
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. Detach and sign each of the cards on this form.
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.
4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A

LEAD INSPECTOR

CERTIFICATION NO.
002208
CURRENT THROUGH
11/30/14
VALIDATION NO.
03-681434

THOMAS M CRUESS

SIGNATURE COMMISSIONER

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
NAME
THOMAS M CRUESS

VALIDATION NO	CERTIFICATION NO.	CURRENT THROUGH
03-681434	002208	11/30/14

PROFESSION
LEAD INSPECTOR

SIGNATURE COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
NAME
THOMAS M CRUESS

VALIDATION NO.	CERTIFICATION NO.	CURRENT THROUGH
03-681434	002208	11/30/14

PROFESSION
LEAD INSPECTOR

SIGNATURE COMMISSIONER

Fuss & O'Neill EnviroScience, LLC

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

This is to certify that

Tom Cruess

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 Santos, Principal Instructor

Robert L. May, Jr., Training Manager

February 20 & 25, 2014

Date of Course

LIRA-R-02/14-5

Certificate Number

February 25, 2014

Examination Date

February 25, 2015

Expiration Date

0001088 FP **PRSRT T5 0 0564 06040
JOHN R. HOBBINS
C/O FUSS & O'NEILL ENVIROSCIENCE, LLC
146 HARTFORD ROAD
MANCHESTER CT 06040

Dear Licensed/Certified Professional,

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

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

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT-INSPECTOR

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

JOHN R. HOBBINS

SIGNATURE COMMISSIONER

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JOHN R. HOBBINS

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

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JOHN R. HOBBINS

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

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE COMMISSIONER

Fuss & O'Neill EnviroScience, LLC

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

This is to certify that

John Robert Hobbins

XXX-XX-6853

has successfully completed the

4 Hr. Asbestos Inspector Refresher

Asbestos Accreditation under TSCA Title II

40 CFR Part 763

John Rowinski, Principal Instructor

Robert L. May, Jr., Training Manager

September 4, 2013

Date of Course

AI-R-09/13-6

Certificate Number

September 4, 2013; B-

Examination Date & Grade

September 4, 2014

Expiration Date

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

Dear Licensed/Certified Professional,
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
P.O. Box 340308
M.S.#12MQA
Hartford, CT 06134-0308

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

Sincerely,

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

INSTRUCTIONS:

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STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A
Lead Inspector

John R. Hobbins

CERTIFICATION NO.
2156
CURRENT THROUGH
01/31/2015
VALIDATION NO.
DUPLICATE

SIGNATURE
COMMISSIONER

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
John R. Hobbins

VALIDATION NO.
DUPLICATE

CERTIFICATION NO.
2156

CURRENT THROUGH
01/31/2015

PROFESSION
Lead Inspector

SIGNATURE
COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
John R. Hobbins

VALIDATION NO.
DUPLICATE

CERTIFICATION NO.
2156

CURRENT THROUGH
01/31/2015

PROFESSION
Lead Inspector

SIGNATURE
COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

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

has successfully completed the

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

Neal B. Freuden
Principal Instructor: Neal Freuden

Gregory J. Morsch
Training Manager: Gregory Morsch

January 30, 2014	January 30, 2014
Date of Course	*Exam Date*
CTLIR-205	January 30, 2015
Certificate Number	*Expiration Date*

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

FUSS & O'NEILL
EnviroScience, Inc

Appendix B

Asbestos Sample Results and Chain of Custody Forms

FUSS & O'NEILL
EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040

www.fando.com

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

04140890

SAMPLE LOG FOR ASBESTOS BULKS

Sheet 1 of 2

Project Name: QA Residential Rehab–14 Cooper Avenue, Milford Project No. 20140277.A5E

Building: 14 Cooper Avenue Project Manager: K. McCarthy

Sample ID	Sample Location	Material	Result (%)
0402BH01A	Living Room	Sheetrock	ND
0402BH01B	Living Room	Sheetrock	
0402BH02A	Living Room	Taping/Joint Compound	
0402BH02B	Living Room	Taping/Joint Compound	
0402BH03	Living Room	Sheetrock & Taping/Joint Compound Composite	
0402BH04A	Living Room	Black Paper/Vapor Barrier under Wood Flooring	
0402BH04B	Living Room	Black Paper/Vapor Barrier under Wood Flooring	
0402BH05A	Unfinished Storage Area	Black Paper Backing on Fiberglass Batt Insulation	
0402BH05B	Unfinished Storage Area	Black Paper Backing on Fiberglass Batt Insulation	
0402BH06A	Exterior of Building	Concrete Support Column	
0402BH06B	Exterior of Building	Concrete Support Column	
0402BH07A	Exterior of Building	Concrete Foundation	
0402BH07B	Exterior of Building	Concrete Foundation	
0402BH08A	Exterior Roof	Asphalt Roof Shingle	
0402BH08B	Exterior Roof	Asphalt Roof Shingle	

2014 APR -7 A 9:56
EMSL CHARLESTON, N.J.

Analysis Method: ☒ PLM ☐ Other Turnaround Time 24 hr

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.

19 ok

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. [illegible] **Date:** 4-2-14 **Time:** _____

Samples [Rec'd][Sent by] [BH] [ ] **Date:** [4-4-14] [ ] **Time:** _____

Samples Received by: VC FY **Date:** 4-7-14 **Time:** 9:00

Shipped To: ☒ EMSL State NJ ☐ Other _____

Method of Shipment: ☒ Fed Ex ☐ Other _____

F:\P2014\0277\A5E\lab data\COC_BH_2014-0404.doc

FUSS & O'NEILL
EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040

www.fando.com

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

QX1408980

SAMPLE LOG FOR ASBESTOS BULKS

Project Name: QA Residential Rehab–14 Cooper Avenue, Milford Project No. 20140277.A5E

Building: 14 Cooper Avenue Project Manager: K. McCarthy

Sample ID	Sample Location	Material	Result (%)
0402BH08C	Exterior Roof	Asphalt Roof Shingle	ND
0402BH09A	Exterior Roof	Roof Base Sheet/Tar	
0402BH09B	Exterior Roof	Roof Base Sheet/Tar	
0402BH09C	Exterior Roof	Roof Base Sheet/Tar	

Analysis Method: ☒ PLM ☐ Other Turnaround Time _____ hr

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:** 4-2-14 **Time:** _____

Samples [Rec'd][Sent by] [BH] [ ] **Date:** [4-4-14] [ ] **Time:** _____

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

Shipped To: ☒ EMSL State NJ ☐ Other _____

Method of Shipment: ☒ Fed Ex ☐ Other _____

2014 APR 4 PM 5:56
CINNAMINSON, N.J.

E:\P2014\0277\A5E\lab data\COC_BH_2014-0404.doc

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:	041408980
CustomerID:	ENVI54
CustomerPO:	
ProjectID:	

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

Phone:	(860) 646-2469
Fax:	(888) 838-1160
Received:	04/07/14 9:00 AM
Analysis Date:	4/7/2014
Collected:	4/2/2014

Project: **20140277.A5E QA Residential Rehab-14 Cooper Avenue, Milford**

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

			Non-Asbestos				Asbestos
Sample	Description	Appearance	%	Fibrous	%	Non-Fibrous	% Type
0402BH01A *041408980-0001*	Living room - sheetrock	Gray Fibrous Homogeneous	10%	Cellulose	90%	Non-fibrous (other)	**None Detected**
0402BH01B *041408980-0002*	Living room - sheetrock	White Fibrous Homogeneous	10%	Cellulose	90%	Non-fibrous (other)	**None Detected**
0402BH02A *041408980-0003*	Living room - taping/joint compound	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
0402BH02B *041408980-0004*	Living room - taping/joint compound	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
0402BH03-Drywall *041408980-0005*	Living room - sheetrock & taping/joint compound composite	Gray Fibrous Homogeneous	5% 2%	Cellulose Glass	93%	Non-fibrous (other)	**None Detected**
0402BH03-Joint Compound *041408980-0005A*	Living room - sheetrock & taping/joint compound composite	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
0402BH04A *041408980-0006*	Living room - black paper/vapor barrier under wood flooring	Black Fibrous Homogeneous	60%	Cellulose	40%	Non-fibrous (other)	**None Detected**

Analyst(s)
Andrew Castellano (10)
Amy Johnson (10)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from 04/07/2014 15:08:28

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:	041408980
CustomerID:	ENVI54
CustomerPO:	
ProjectID:	

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

Phone:	(860) 646-2469
Fax:	(888) 838-1160
Received:	04/07/14 9:00 AM
Analysis Date:	4/7/2014
Collected:	4/2/2014

Project: **20140277.A5E QA Residential Rehab-14 Cooper Avenue, Milford**

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

			Non-Asbestos				Asbestos
Sample	Description	Appearance	%	Fibrous	%	Non-Fibrous	% Type
0402BH04B *041408980-0007*	Living room - black paper/vapor barrier under wood flooring	Black Fibrous Homogeneous	60%	Cellulose	40%	Non-fibrous (other)	**None Detected**
0402BH05A *041408980-0008*	Unfinished storage area - blak paper backing on fiberglass batt insulation	Brown/Black Fibrous Homogeneous	75%	Cellulose	25%	Non-fibrous (other)	**None Detected**
0402BH05B *041408980-0009*	Unfinished storage area - blak paper backing on fiberglass batt insulation	Brown/Black Fibrous Homogeneous	65% 15%	Cellulose Glass	20%	Non-fibrous (other)	**None Detected**
0402BH06A *041408980-0010*	Exterior building - concrete support column	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
0402BH06B *041408980-0011*	Exterior building - concrete support column	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
0402BH07A *041408980-0012*	Exterior building - concrete foundation	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
0402BH07B *041408980-0013*	Exterior building - concrete foundation	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**

Analyst(s)
Andrew Castellano (10)
Amy Johnson (10)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from 04/07/2014 15:08:28

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

EMSL Order:	041408980
CustomerID:	ENVI54
CustomerPO:	
ProjectID:	

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

Phone:	(860) 646-2469
Fax:	(888) 838-1160
Received:	04/07/14 9:00 AM
Analysis Date:	4/7/2014
Collected:	4/2/2014

Project: 20140277.A5E QA Residential Rehab-14 Cooper Avenue, Milford

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

			Non-Asbestos			Asbestos
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
0402BH08A 041408980-0014	Exterior roof - asphalt roof shingle	Brown/Gray/Black Fibrous Homogeneous	5% 15%	Cellulose Glass	80% Non-fibrous (other)	None Detected
0402BH08B 041408980-0015	Exterior roof - asphalt roof shingle	Brown/Black Fibrous Homogeneous	5% 15%	Cellulose Glass	80% Non-fibrous (other)	None Detected
0402BH08C 041408980-0016	Exterior roof - asphalt roof shingle	Brown/Black Fibrous Homogeneous	20%	Cellulose	80% Non-fibrous (other)	None Detected
0402BH09A 041408980-0017	Exterior roof - roof base sheet/tar	Black Non-Fibrous Homogeneous	15%	Cellulose	85% Non-fibrous (other)	None Detected
0402BH09B 041408980-0018	Exterior roof - roof base sheet/tar	Black Non-Fibrous Homogeneous	15%	Cellulose	85% Non-fibrous (other)	None Detected
0402BH09C 041408980-0019	Exterior roof - roof base sheet/tar	Black Fibrous Homogeneous	30%	Cellulose	70% Non-fibrous (other)	None Detected

Analyst(s)
Andrew Castellano (10)
Amy Johnson (10)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from 04/07/2014 15:08:28

THIS IS THE LAST PAGE OF THE REPORT.

FUSS & O'NEILL
EnviroScience, LLC

Appendix C

Lead Paint Testing Procedures and Equipment

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

Testing Procedures and Equipment

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

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

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

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

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

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

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

Radiation Monitoring Device LPA Analyzer 1

30-Second Standard Mode Reading Description	Substrate	Threshold (mg/cm²)
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/cm²)	Inconclusive Range (mg/cm²)
Readings not corrected for substrate bias on any substrate.	Brick	1.0	None
	Concrete	1.0	None
	Drywall	1.0	None
	Metal	1.0	None
	Plaster	1.0	None
	Wood	1.0	None

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

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

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

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Appendix D

Lead Testing Field Data Sheets

FUSS & O'NEILL
EnviroScience, LLC

www.fando.com

146 Hartford Road, Manchester, CT 06040

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

LEAD INSPECTION COVER SHEET

Inspector's Information

Inspector's Name: Robert Hobbins
License Number: 2156
XRF Model: LPA – 1B
Serial Number: 1377
Date of Inspection: March 31, 2014
Project Number: 20140277.A5E

Property Information

Building Address: 14 Cooper Avenue
(Street)

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

Describe Structure:

Sheetrock ceilings and walls with wood /metal window and door systems and concrete and wood floors
Exterior wood siding, wood porch components, wood trim, concrete foundation and support columns

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

Single Family Dwelling ☒

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

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

Multiple Family Dwelling ☐

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

XRF Calibration Check

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

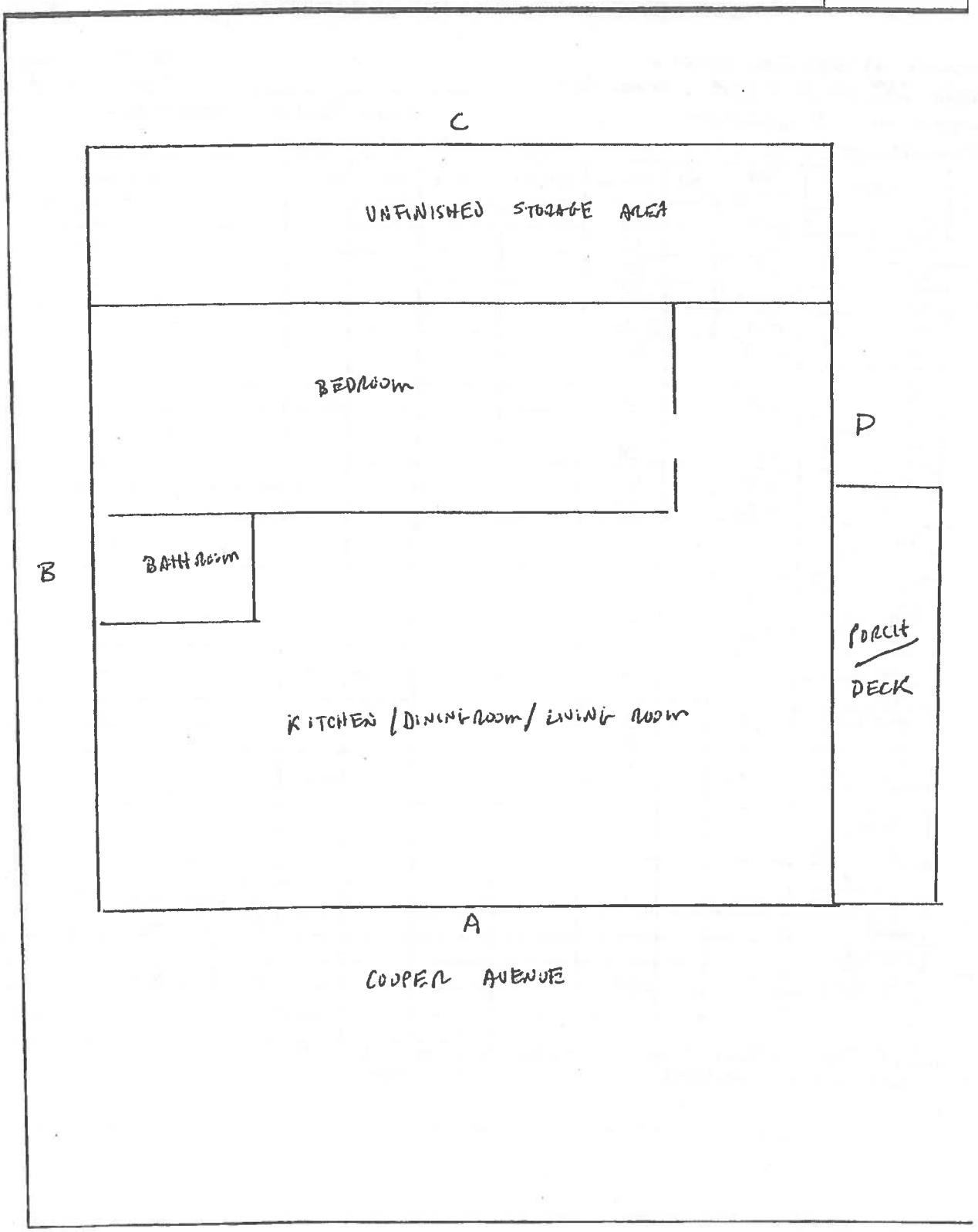
Calibration Check Limits Used: ☒ RMD (0.7 to 1.3 mg/cm² inclusive)
☐ Scitec MAP4 (0.6 to 1.2 mg/cm² inclusive)

	Hour	First Reading	Second Reading	Third Reading	Average
First Check	0830	1.3	1.2	1.2	1.23
Second Check	1130	1.1	1.0	1.0	1.03
Third Check	1300	1.0	1.0	1.2	1.06
Fourth Check					

FUSS & O'NEILL

Prepared By	Date	Checked By	Date	Project No

Sheet No
of



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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 14 Cooper Street, Milford, CT **Apt. #:**

Floor: 2nd - no main level **Room:** LVR **Page** 1 **of** 7

Project Name: 14 Cooper Street **Project Number:** 20140277.A5E

Project Manager: (If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor	0.0		W					
	Baseboards	0.1		W					
A	Wall	0.2		SR					
B	Wall	0.1		SR					
C	Wall	-0.0		SR					
D	Wall	0.0		SR					
	Chair rail								
	Ceiling	0.0		SR					
	Crown Molding								
	Door	0.1		M					
	Casing	0.0		W					
	Jamb	0.2		W					
	Door								
	Casing								
	Jamb								
	Window Trim	0.1		W					
	Sill	0.0		W					
	Sash								
	Well								
	Cabinet Base	-0.1		W					
	Door Exterior	-0.0		W					
	Door Interior	0.0		W					
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf	0.1		W					Closet
	Shelf Supports	-0.1		W					A wall -0.0 SR
	Radiator								B -0.1
	Wall Molding								C 0.1
	Wall Trim	0.1		W					D 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:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 14 Cooper Street, Milford, CT **Apt. #:**

Floor: 2nd - **Room:** Bath **Page** 2 **of** 7

Project Name: 14 Cooper Street **Project Number:** 20140277.A5E

Project Manager: (If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor	-0.0		Ceramic					
	Baseboards	0.0		W					
A	Wall	-0.0		SR					
B	Wall	0.2		SR					
C	Wall	0.1		SR					
D	Wall	-0.0		SR					
	Chair rail								
	Ceiling	-0.1		SR					
	Crown Molding								
	Door	0.0		W					
	Casing	-0.0		W					
	Jamb	0.1		W					
	Door								
	Casing								
	Jamb								
	Window Trim	0.0		W					
	Sill	0.1		W					
	Sash								
	Well								
	Cabinet Base								
	Door Exterior								
	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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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 14 Cooper Street, Milford, CT **Apt. #:**

Floor: 2nd **Room:** Bedroom **Page** 3 **of** 7

Project Name: 14 Cooper Street **Project Number:** 20140277.A5E

Project Manager: (If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards	-0.0		W					
A	Wall	0.0		SR					
B	Wall	0.1		SR					
C	Wall	0.1		SR					
D	Wall	-0.1		SR					
	Chair rail								
	Ceiling	-0.0		SR					
	Crown Molding								
	Door	0.0		W					
	Casing	-0.0		W					
	Jamb	-0.1		W					
	Door								
	Casing								
	Jamb								
	Window Trim	0.0		W					
	Sill	-0.0		W					
	Sash								
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf	0.0		W					closet
	Shelf Supports	-0.1		W					A wall 0.1 SR
	Radiator								B 0.0
	Wall Molding								C 0.2
									D -0.1

* 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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XRF FIELD DATA SHEET – EXTERIOR OF SIDE A

Address: 14 Cooper Ave **Page** 4 **of** 7

Project Name: **Project Number:**

Project Manager:

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	~~Foundation~~ Carpet								
	~~Skirt Board~~ Ceiling	-0.1		W					
	~~Corner Boards~~								
	Siding	0.0		W					
	Upper Trim								
	Door	0.8		M					
	Casing	0.1		W					
	Jamb	0.0		W					
	Threshold								
	Kick Board								
	Storm Door								
	Window Sill								
	Trim								
	Sash								
	Blind Stops								
	Storm Window								
	Basement Sash								
	Frame								
	Bulkhead								
	Downspouts								
	Porch Floor								
	Ceiling Joist								
	Lower Trim								
	Lower Railing								
	Balusters								
	Railing Cap								
	Ceiling								
	Lattice								
	Lattice Frame								
	Support Columns								
	Column Base								
	Brackets								
	Hand Rails								
	Treads								
	Risers								
	Stringers								

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XRF FIELD DATA SHEET – EXTERIOR OF SIDE B

Address: 14 Cooper Ave, Milford
Page 5 of 7
Project Name:
Project Number:
Project Manager:

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation								
	Skirt Board								
	Corner Boards								
	Siding	0.1		W					
	~~Upper~~ Trim	0.2		W					
	Door								
	Casing								
	Jamb								
	Threshold								
	Kick Board								
	~~Storm~~ Door SW/4	0.0		W					
	~~Window Sill~~ TB/1	0.1		W					
	Trim								
	Sash								
	Blind Stops								
	Storm Window								
	Basement Sash								
	Frame								
	Bulkhead								
	Downspouts								
	Porch Floor								
	Ceiling Joist								
	Lower Trim								
	Lower Railing								
	Balusters								
	Railing Cap								
	Ceiling								
	Lattice								
	Lattice Frame								
	Support Columns								
	Column Base								
	Brackets								
	Hand Rails								
	Treads								
	Risers								
	Stringers								
	Screen Porch	0.0		W					

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XRF FIELD DATA SHEET – EXTERIOR OF SIDE C

Address: 14 Cooper Ave, Milford **Page** 6 **of** 7

Project Name: **Project Number:**

Project Manager:

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation								
	Skirt Board	0.1		W					
	Corner Boards								
	Siding Blue	0.1		W					
	~~Upper Trim~~ Yellow	0.0		W					
	Door	0.1		W					
	Casing	0.0		W					
	Jamb								
	Threshold								
	Kick Board								
	Storm Door								
	Window Sill	0.0		W					
	Trim	0.1		W					
	Sash								
	Blind Stops								
	Storm Window								
	Basement Sash								
	Frame								
	Bulkhead								
	Downspouts								
	Porch Floor								
	Ceiling Joist								
	Lower Trim								
	Lower Railing								
	Balusters								
	Railing Cap								
	Ceiling								
	Lattice								
	Lattice Frame								
	Support Columns								
	Column Base								
	Brackets								
	Hand Rails								
	Treads								
	Risers								
	Stringers								

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XRF FIELD DATA SHEET – EXTERIOR OF SIDE D

Address: 14 Cooper Avenue, Milford, CT **Page** 4 **of** 7

Project Name: _____ **Project Number:** _____

Project Manager: _____

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation								
	Skirt Board								
	~~[illegible]~~ Soffit	-0.0		W					
	Siding	-0.1		W					
	Upper Trim	-0.0		W					
	Door								
	Casing								
	Jamb								
	Threshold								
	Kick Board								
	Storm Door								
	Window Sill								
	Trim	0.0		W					
	Sash								
	Blind Stops								
	Storm Window								
	Basement Sash								
	Frame								
	Bulkhead								
	Downspouts								
	Porch Floor	0.0		W					
	Ceiling Joist	-0.1		W					
	Lower Trim	-0.0		W					
	Lower Railing	-0.0		W					
	Balusters	-0.1		W					
	Railing Cap								
	Ceiling								
	Lattice								
	Lattice Frame								
	Support Columns	-0.1		W					
	Column Base								
	Brackets								
	Hand Rails								
	Treads								
	Risers								
	Stringers								

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Appendix E

Airborne Radon Gas Assessment Results and Chain of Custody Forms

PC1404070249

RTCA RADON TESTING CORPORATION OF AMERICA

Site Radon Inspection Report

Date : 4/8/2014

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

Client: Project # 20140277.A5E
Test Location 14 Cooper Avenue
Milford, CT 06460-

Individual Canister Results

Canister ID# : 2299349
Canister Type : Charcoal Canister 3 inch
Location : Living room - D
Radon Level : **0.8 pCi/L**
Error for Measurement is: ± 0.4 pCi/L

Test Start : 04/02/2014 @ 10:00
Test Stop : 04/04/2014 @ 11:53
Received: 04/07/2014 @ 13:13
Analyzed: 04/08/2014 @ 14:36

Canister ID# : 2299356
Canister Type : Charcoal Canister 3 inch
Location : Living room
Radon Level : **0.6 pCi/L**
Error for Measurement is: ± 0.4 pCi/L

Test Start : 04/02/2014 @ 10:00
Test Stop : 04/04/2014 @ 11:53
Received: 04/07/2014 @ 13:13
Analyzed: 04/08/2014 @ 14:36

Canister ID# : 2299435
Canister Type : Charcoal Canister 3 inch
Location : Living room - B
Radon Level : **0.1 pCi/L**
Error for Measurement is: ± 0.4 pCi/L

Test Start : 04/02/2014 @ 10:00
Test Stop : 04/04/2014 @ 11:53
Received: 04/07/2014 @ 13:13
Analyzed: 04/08/2014 @ 14:36

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

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

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

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

National Radon Safety Board NRSB Certified Radon Professionals

Andreas C. George
Radon Measurement Specialist
NJ MES 11089

Dante Galan
Laboratory Director

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

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

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

RTCA RADON TESTING CORPORATION OF AMERICA

PC1404070249

Site Radon Inspection Report

Date : 4/8/2014

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.

National Radon Safety Board NRSB Certified Radon Professionals

Andreas C. George
Radon Measurement Specialist
NJ MES 11089

Dante Galan
Laboratory Director

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

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

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

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EnviroScience, LLC

4/7/14
ENV111

DE
E

Radon Testing Summary Sheet

Project: 14 Cooper Avenue
Project #: 20140277.A5E
Building: 14 Cooper Avenue
Address: 14 Cooper Avenue
Milford, CT 06460

Placed by: F. Hobbins
Retrieved by: Tom Cross
Start Date: 4-2-14
Stop Date: 4-4-14
Weather at Placement: cloudy ~40°

Contact/Phone #: Kevin McCarthy/203-374-3748 x3533 **email results to kmccarthy@fando.com** ✓

Instructions: Tear off center bar coded label from canister and affix to sheet in spaces provided. Please make sure top bar coded label is left on detector. Identify test location for each detector [illegible] for that detector (room #, loc[illegible]). Use additional sheets as [illegible] mark clearly if any detector i[illegible] [illegible]ieval.

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2299356
REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS
2299356
Client
RADON TESTING CORP. OF AMERICA

Start Time: 10:00
Stop Time: 1153
Identifier:
Living Rm

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2299349
REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS
2299349
Client
RADON TESTING CORP. OF AMERICA

Start Time: 10:30
Stop Time: 1153
Identifier:
Living Rm - D

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2299435
REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS
2299435
Client
RADON TESTING CORP. OF AMERICA

Start Time:
Stop Time:
Identifier:
Living Rm - B

Start Time:
Stop Time:
Identifier:

Start Time:
Stop Time:
Identifier:

Start Time:
Stop Time:
Identifier:

Start Time:
Stop Time:
Identifier:

Start Time:
Stop Time:
Identifier:

Start Time:
Stop Time:
Identifier:

Start Time:
Stop Time:
Identifier:

56 Quarry Road, Trumbull, CT 06611
t (203) 374-3748
f (203) 374-4391
www.FandO.com

AUTION CAUTION CAUTION CAUTION CAUTION CA CA

EPA

1-800-424-LEAD (5323)
www.epa.gov/getleadsafe

EPA-740-K-10-001
April 2010

THE LEAD-SAFE CERTIFIED GUIDE TO RENOVATE RIGHT

WARNIN
LEAD WORK AF
POISON
NO SMOKING
OR EATING

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

EPA

LEAD-SAFE EPA CERTIFIED FIRM

IT'S THE LAW!

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.

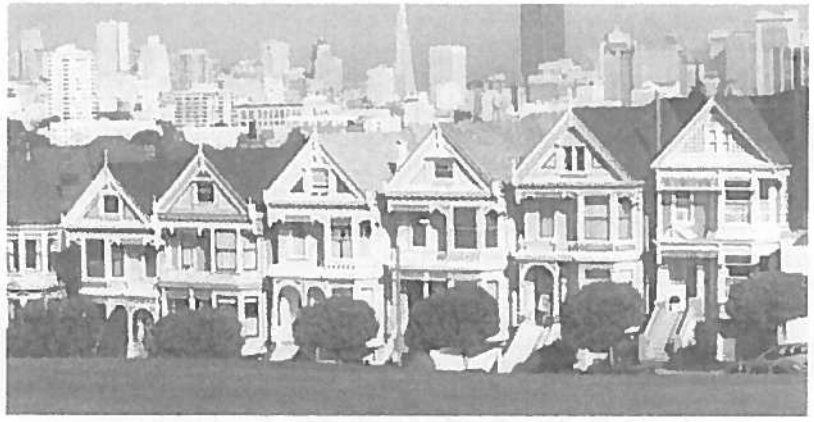
Common renovation activities like sanding, cutting, and demolition can create hazardous lead dust and chips.

Proper work practices protect you from the dust.

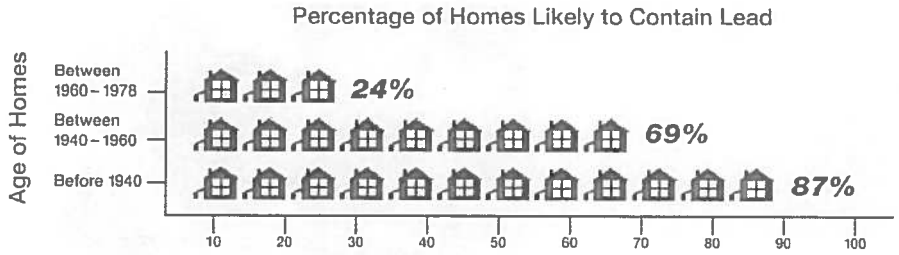
The key to protecting yourself and your family during a renovation, repair or painting job is to use lead-safe work practices such as containing dust inside the work area, using dust-minimizing work methods, and conducting a careful cleanup, as described in this pamphlet.

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 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 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 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 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 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 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 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 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.

City of Milford, Connecticut

- Founded 1639 -

Inland Wetlands Office
inlandwetland@ci.milford.ct.us

70 West River Street
Milford, CT 06460-3317
Tel 203-783-3256
FAX 203-783-3303

June 9, 2014

Mr. Stephen Ball
294 White Deer Rocks Road
Woodbury, Connecticut 06798

Re: Inland Wetland Environmental Review Request for CDBG-DR funding

Dear Mr. Ball:

The Milford Inland Wetlands and Watercourses Agency has received your request to review the following properties for permitting requirements:

10 Cool Ridge Rd - raise house to proper flood elevation
12 Cooper Ave - raise house to proper flood elevation
14 Cooper Ave - raise house to proper flood elevation
870 East Broadway / 2 Scott Street - raise house to proper flood elevation
13 James St - raise house to proper flood elevation
104 Melba St - raise house to proper flood elevation
70 Shell Ave - raise house to proper flood elevation

A review of the sites and the MIWA maps reveals no work is proposed within 100' of an inland wetland. With proper construction practices and sedimentation and erosion controls this proposed work does not appear to have the potential to adversely impact wetlands or watercourses. Therefore, under section 2 of the MIWA Regulations a permit is not required from the MIWA at this time.

This letter applies only to the specific plans noted above. **Any** revision of these plans will require further review by this Agency. No fill material may be placed in a wetland area without additional permits. Should you have any questions concerning this matter, please contact the Inland Wetlands Agency Office at 203-783-3256.

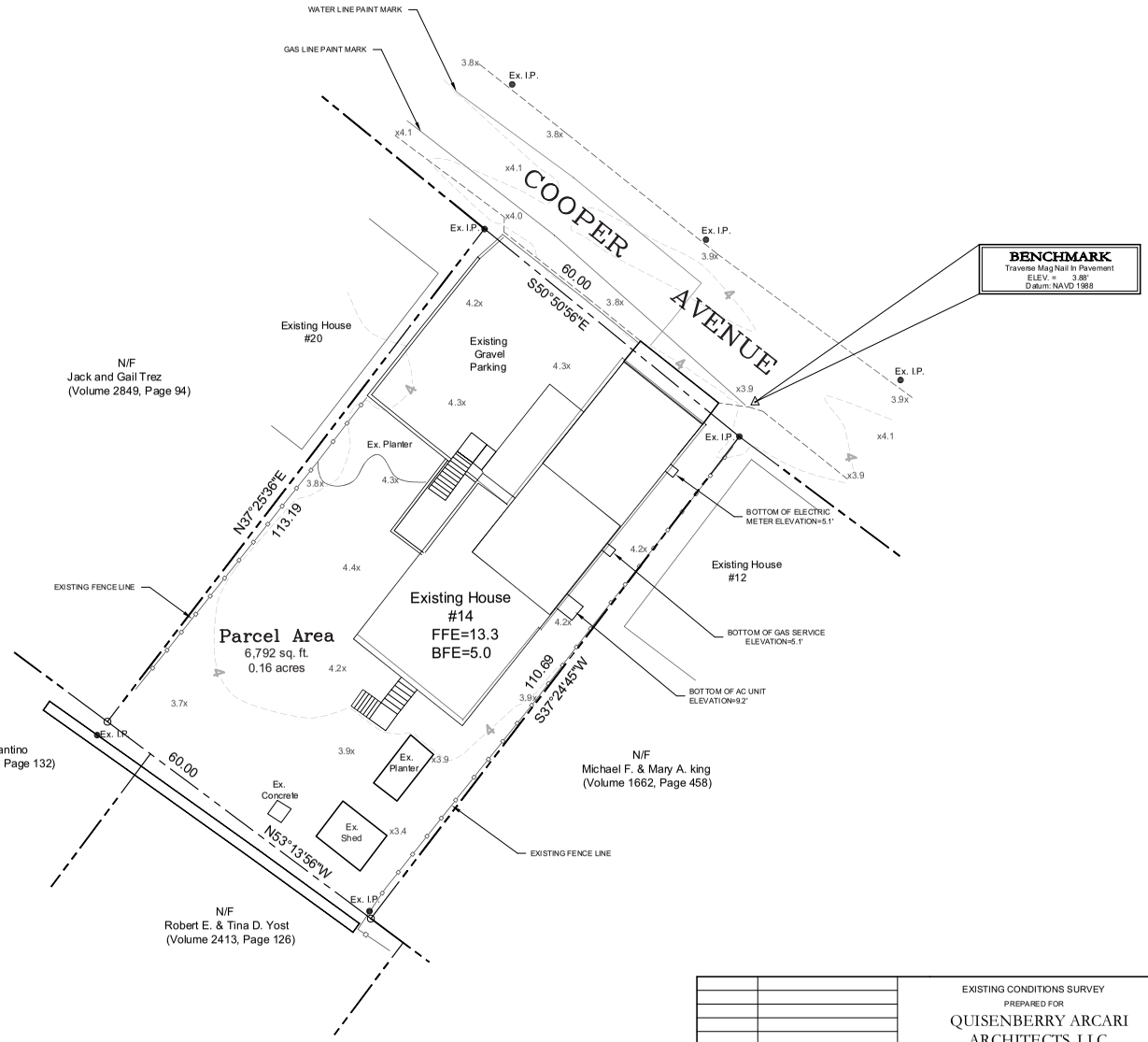
Sincerely,

MaryRose Palumbo
Inland Wetlands Compliance Officer

cc: DPLU
Engineering
Planning & Zoning

LEGEND

- = Existing utility pole
- = Existing light pole
- = Existing fire hydrant
- = Existing water valve
- = Existing gas valve
- = Existing underground pipe
- = Existing edge of pavement
- = Existing bituminous concrete lip curb
- = Existing well
- = Existing catch basin
- = Existing drainage manhole
- = Existing sanitary manhole
- 000 = Existing contour
- x000.0 = Existing spot elevation
- = Existing iron pin
- = Existing drill hole
- = Existing monument



SURVEY NOTES:

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

2. Type of survey performed: Existing Conditions Survey

3. Boundary determination category: Dependent Resurvey

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

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

6. Map References:

   a) "Silver Sands, The Property of Theodore Curtis and John W. Thompson, Milford,Conn., Dated December, 1913, Made by Peter & Goodell, Surveyors;" and on File as Map C-122 in the Milford Towns Clerk's Office.

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

8. Zone: R5

9. Total area: 6,792 S.F. / 0.16 Ac.

10. Owner: Elena Martinez

11. Town of Milford Assessors Map #022 Block #0459 Parcel #000007

12. Filed in Volume 3311, Page 595 of the Town Clerk's office.

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

14. Vertical Datum is NAVD 1988 and based on the CGS Mon LX7616.

15. There are no Wetlands located on the property. There are Tidal Marsh Wetlands Approximately 230 feet to the South and 260 feet to the North of the property.

16. The subject property is situated in Zone "AE", (Elevation 11.0') which is a "Special Flood Hazard Area" subject to inundation by 1% annual-chance flood event determined by FEMA. The 500 Year Flood Event elevation is 13.75'. (Firm Map 09009C Panel 534 Suffix J/ Effective date of July 8, 2013) The Subject Property is in Coastal Area Management (CAM).

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

DATE	REVISION

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

#70145

Stephen M. Gludice, L.S. Reg. No.

NOT VALID UNLESS EMBOSSED SEAL OR SEAL IS AFFIXED HERETO

EXISTING CONDITIONS SURVEY

PREPARED FOR

QUISENBERRY ARCARI ARCHITECTS, LLC

14 COOPER STREET

MILFORD, CONNECTICUT

OCTOBER 1,, 2014

SCALE: 1"=10'

F.B. #: 477

PROJECT #: 1216

cole
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