

**ENVIRONMENTAL REVIEW REPORT**

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

**Applicant # 2110**

**79 Cooper Avenue  
Milford, Connecticut**

**August 04, 2014**

**Prepared for:**

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

**Prepared by:**

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



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

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

**Project Name and Identification No. #2120 – Mark Elias – 79 Cooper Avenue, Milford, CT**

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
<b>Document Laws and authorities listed at 24 CFR Sec. 58.5</b>							
1. Historic Properties [58.5(a)] [Section 106 of NHPA]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Consulted with State Historic Preservation Office (SHPO) See attached No Effect Letter dated June 23, 2014.
2. Floodplain Management [58.5(b)] [Ex Or 11988] [24 CFR 55]	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flood Insurance Map Community Panel # 09009C0529J 7/8/2013. See Attached FIRMLET. Located in Zone AE.
3. Wetland Protection [58.5 (b)]	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Review required. Consulted Maryrose Polumbo from City of Milford Inland Wetlands. See attached National Wetlands Inventory map.
4. Coastal Zone Management [58.5(c)]	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Project is within Coastal Zone Boundry. Copy of map enclosed. Review required. Application attached.
5. Water Quality – Aquifers [58.5(d)] [40 CFR 149]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Water Quality – N/A Project does not involving on-site water and sewer facilities nor is it located in a sole source aquifer zone.
6. Endangered Species [58.5(e)] [16 U.S.C. 1531 et seq.]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NOT LOCATED AT WATERFRONT PROPERTIES WITH SANDY BEACHES – Consult with Department of Interior Fish and Wildlife Database – See attached Department of Interior Fish and Wildlife report. Dated June 9, 2014.
7. Wild and Scenic Rivers [58.5 (f)] [16 U.S.C. 1271 et seq.]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Eightmile River is only designated wild & scenic river within program area running through Lyme, Salem and East Haddam, CT (rivers.gov; November 2012) This project is not proximal to any listed Wild and Scenic Rivers.
8. Air Quality [58.5(g)] [42 U.S.C. 7401 et seq.]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Clean Air Act, State Implementation Plan, HUD & EPA Regulations; in general, residential rehabilitation exempted w/no quanifiable increase in air pollution. Project is soley residential rehabilitation with no quanifiable increase air pollution.

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
9. Farmland Protection [58.5(h)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Agricultural land use conversion not anticipated. Adverse effects to agricultural resources are not anticipated; clearly defined urban areas. Location not considered protected farmland.
Manmade Hazards 10 A. Thermal Explosive [58.5(i)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A for projects that do not add density.
10 B. Noise [58.5(i)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not applicable to project – restoration of structure substantially as it existed prior to Super Storm Sandy.
10 C. Airport Clear Zones [58.5 (i)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not applicable – Two (2) FAA designated Commercial Service airports in program area: Tweed New Haven Regional and Groton – New London. This property is not located in an Airport Clear Zone.
10 D. Toxic Sites [58.5 (i)(2)(i)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The site has no know toxic history based on the attached Site Certification. The site: 1) is not listed on EPA Superfund National Priorities or CERCLA list. 2) is not located within 3,000 ft of a toxic or solid waste landfill. 3) Is not known or suspected to be contaminated by radioactive chemicals or radioactive materials.
11. Environmental Justice [58.5(j)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Executive Order 12898 Program activities do not anticipate high & adverse human health and environmental effects on minority or low-income populations.
<b>Document Laws and authorities listed at Sec. 58.6 and other potential environmental concerns</b>							
12 A. Flood Insurance [58.6(a) & (b)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flood Insurance Map Community Panel #09009C0529J 7/8/2013 See attached FIRMLET Located in AE zone. Flood insurance is required.
12 B. Coastal Barriers [58.6(c)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Property is not in a Coastal Barrier Zone. See attached map.
12 C. Airport Clear Zone Notification [58.6(d)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not applicable – Two (2) FAA designated Commercial Service airports in program area: Tweed New Haven Regional and Groton-New London. The project does not involve the purchase or sale of an existing property in an airport clear zone.
13 A. Solid Waste Disposal [42 U.S.C. S3251 et seq.] and [42 U.S.C. 6901-6987 eq seq.]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Resource Conservation and Recovery Act and Solid Waste Disposal Act; - Residential rehabilitation activities are not expected to affect the capacities of solid waste disposal services.

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
13 B. Fish and Wildlife [U.S.C. 661-666c]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fish and Wildlife Coordination Act: Program activities will not result in impounding, diverting, deepening, channelizing or modification of any stream or body of water; not a water control project.
13 C. Lead-Based Paint [24 CFR Part 35] and [40 CFR 745.80 Subpart E]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lead paint not found – See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill Enviroscience LLC dated May 2014.
13 D. Asbestos	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Asbestos found – See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill Enviroscience LLC dated May 2014 and follow recommendations listed in report. Compliance will include measures to minimize risk of exposure and when necessary abate any hazardous materials.
13 E. Radon [50.3 (i) 1]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Radon concentration less than 4 picocuries per liter of air and are below regulatory levels. See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill Enviroscience LLC dated May 2014
13 F. Mold	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No Mold Found - See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill Enviroscience LLC dated May 2014.
Other: State or Local 14 A. Flood Management Certification [CGS 25-68]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The property is located in Flood Zone. All work to comply with Flood Management Certificate and the General Permit required by the DEEP. See property location noted on the FEMA FIRMette Panel 09009C0529J, map revised July 8, 2013. (Attached) – See attached Appendix B.
14 B. Structures, Dredging & Fill Act [CGS 22a-359 to 22a-363f]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not applicable – this project is not waterward of the Coastal Jurisdiction Line.
14 C. Tidal Wetlands Act [CGS 22a-28 to 22a-35]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not located in Title wetlands per Milford Planning and Zoning.
14 D. Local inland wetlands/watercourses [CGS 22a-42]	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Review required. Consulted Maryrose Pumbo from City of Milford Inland Wetlands. See attached letter dated June 9, 2014.
14 E. Various municipal zoning approvals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Only Local Building Permits required.

**DETERMINATION:**

- This project converts to Exempt, per §58.349a)(12), because it does not require any mitigation for compliance with any listed statutes or authorities, nor requires any formal permit or license. Funds may be drawn down for this (now) EXEMPT project; **OR**
- This project cannot convert to Exempt because one or more statutes/authorities requires consultation or litigation. Complete consultation/mitigation requirements, publish NOI/RROF and obtain Authority to Use Grant Funds (HUD 7015.16) per §58.70 and 58.71 before drawing down funds; **OR**
- The unusual circumstances of this project may result in a significant environmental impact. This project requires preparation of an Environmental Assessment (EA). Prepare the EA according to 24 CFR Part 58 Subpart E.

Prepared by:



Stephen Ball

7/31/14

Date

Responsible Entity or designee Signature:

Hermia Delaire, CDBG-DR Program Manager

Date

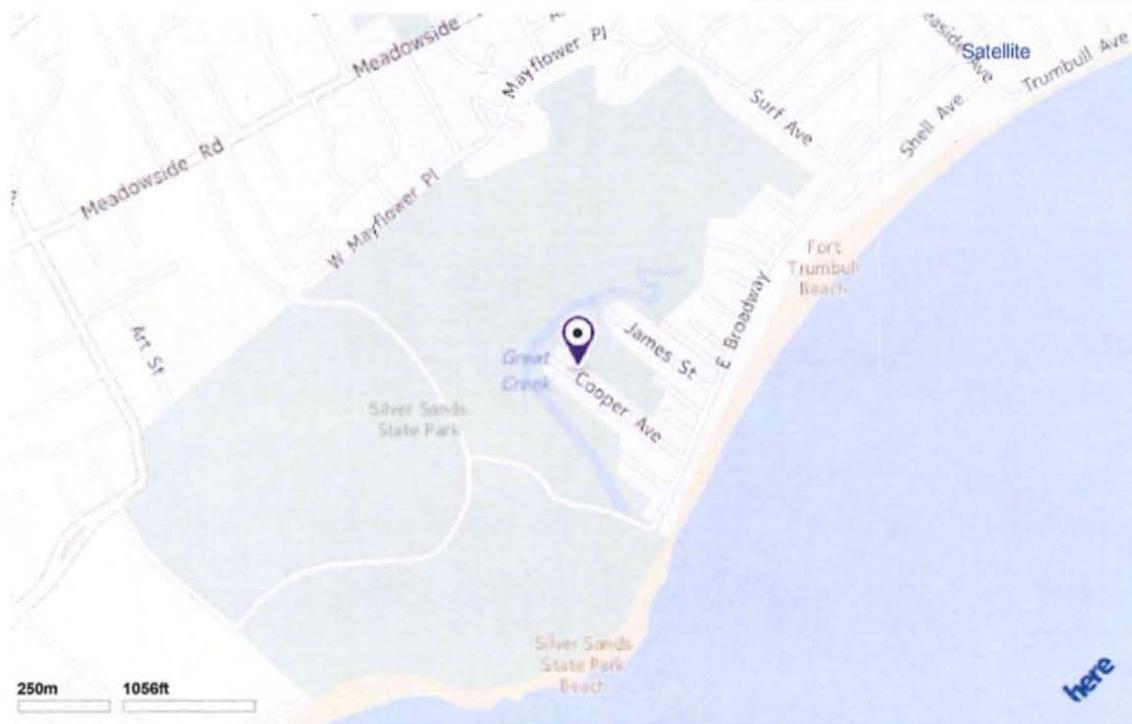
Print

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

YAHOO! MAPS

79 Cooper Ave, Milford, CT 06460-6209

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



**79 COOPER AVE**

**Location** 79 COOPER AVE

**Assessment** \$110,740

**Mblu** 26/ 458/ 51/C /

**Appraisal** \$158,200

**Acct#** 001546

**PID** 5441

**Owner** ELIAS MARK T

**Building Count** 1

**Current Value**

Appraisal			
Valuation Year	Improvements	Land	Total
2013	\$67,480	\$90,720	\$158,200
Assessment			
Valuation Year	Improvements	Land	Total
2013	\$47,240	\$63,500	\$110,740

**Owner of Record**

**Owner** ELIAS MARK T

**Sale Price** \$107,000

**Co-Owner**

**Book & Page** 02421/0435

**Address** 79 COOPER AV  
MILFORD, CT 06460

**Sale Date** 08/15/2000

**Ownership History**

Ownership History			
Owner	Sale Price	Book & Page	Sale Date
PENDAGAST MARY KATE	\$85,000	02222/0206	05/30/1997
BUONO AMY L AKA AMY BUONO	\$0	02096/0216	12/27/1994
BUONO ANTHONY & AMY & SURV	\$84,000	01990/0231	08/18/1993
BEUTEL LEO E & MARILYN L & SUR	\$0	01920/0243	09/30/1992

**Building Information**

**Building 1 : Section 1**

**Year Built:** 1954  
**Living Area:** 672  
**Replacement Cost:** \$112,938  
**Building Percent** 58  
**Good:**  
**Replacement Cost**  
**Less Depreciation:** \$65,500

**Building Photo**

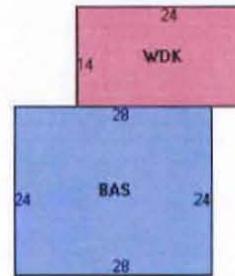
Building Attributes	
Field	Description
Style	Ranch

Model	Residential
Grade:	Below Average
Stories:	1 Story
Occupancy	1
Exterior Wall 1	Wood Shingle
Exterior Wall 2	
Roof Structure:	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Flr 1	Carpet
Interior Flr 2	Hardwood
Heat Fuel	Gas
Heat Type:	Hot Air-no Duc
AC Type:	Central
Total Bedrooms:	2 Bedrooms
Total Bthrms:	1
Total Half Baths:	0
Total Xtra Fixtrs:	
Total Rooms:	4 Rooms
Bath Style:	Average
Kitchen Style:	Updated
Bath Desc.	1-Full



(http://images.vgsi.com/photos/MilfordCTPhotos/\/00\03 \25\65.JPG)

**Building Layout**



Building Sub-Areas			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	672	672
WDK	Deck, Wood	336	0
		1008	672

**Extra Features**

Extra Features		Legend
No Data for Extra Features		

**Land**

**Land Use**

<b>Use Code</b>	1010
<b>Description</b>	SINGLE FAM MDL-01
<b>Zone</b>	R5
<b>Neighborhood</b>	E
<b>Alt Land Appr Category</b>	No

**Land Line Valuation**

<b>Size (Acres)</b>	0.12
<b>Frontage</b>	60
<b>Depth</b>	73
<b>Assessed Value</b>	\$63,500
<b>Appraised Value</b>	\$90,720

**Outbuildings**

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
HTUB	HOT TUB			1 UNITS	\$1,980	1

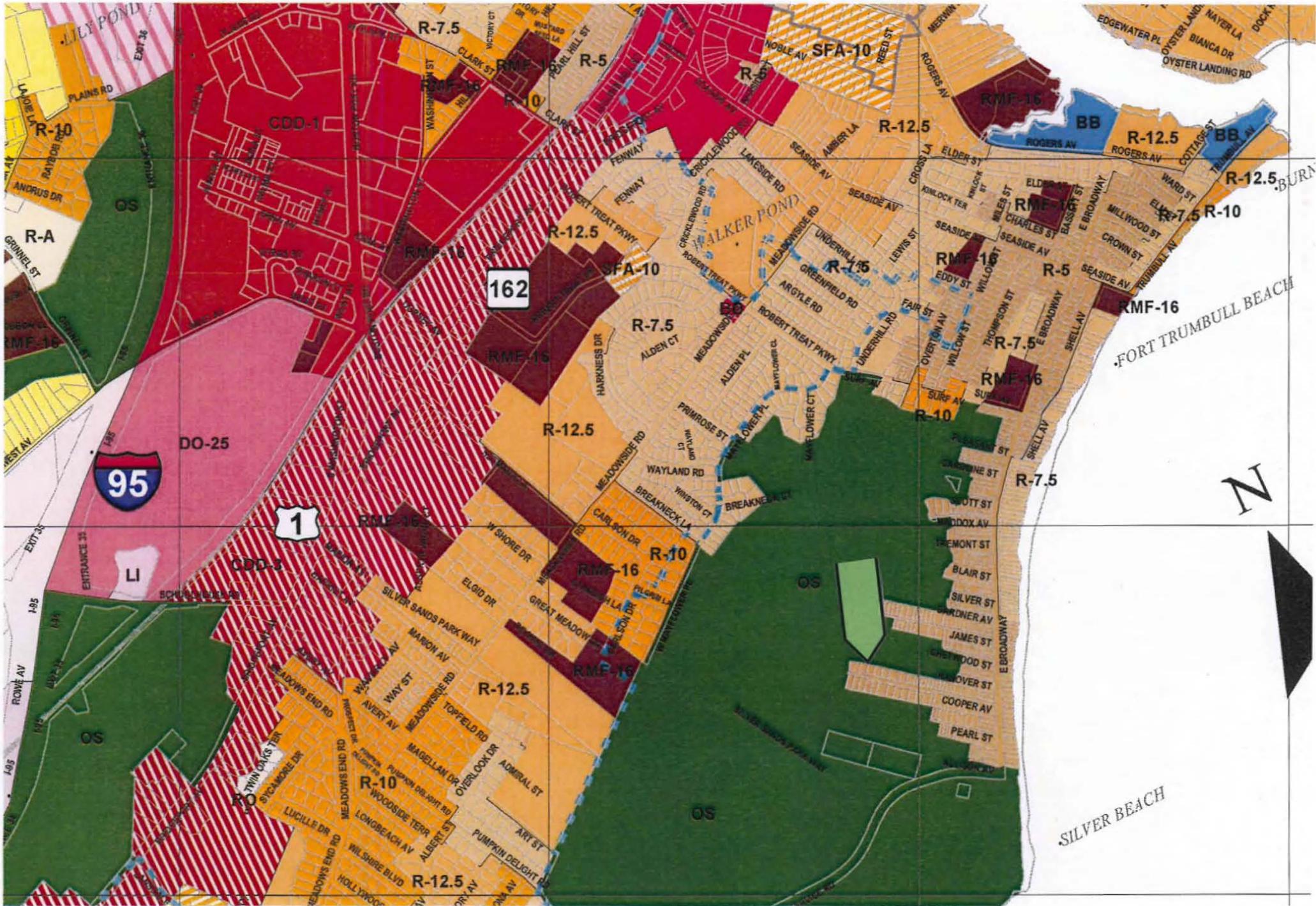
**Valuation History**

Appraisal			
Valuation Year	Improvements	Land	Total
2013	\$67,480	\$90,720	\$158,200
2012	\$95,720	\$110,880	\$206,600
2011	\$58,450	\$110,880	\$169,330

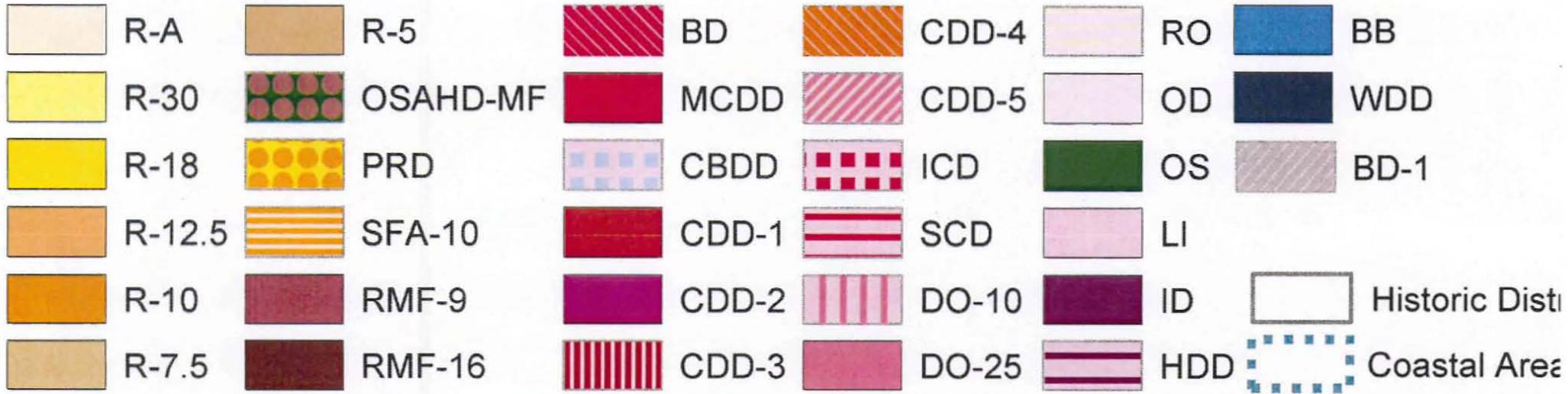
Assessment			
Valuation Year	Improvements	Land	Total
2013	\$47,240	\$63,500	\$110,740
2012	\$67,010	\$77,620	\$144,630
2011	\$40,920	\$77,620	\$118,540

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# Legend



1 inch = 1,000 feet

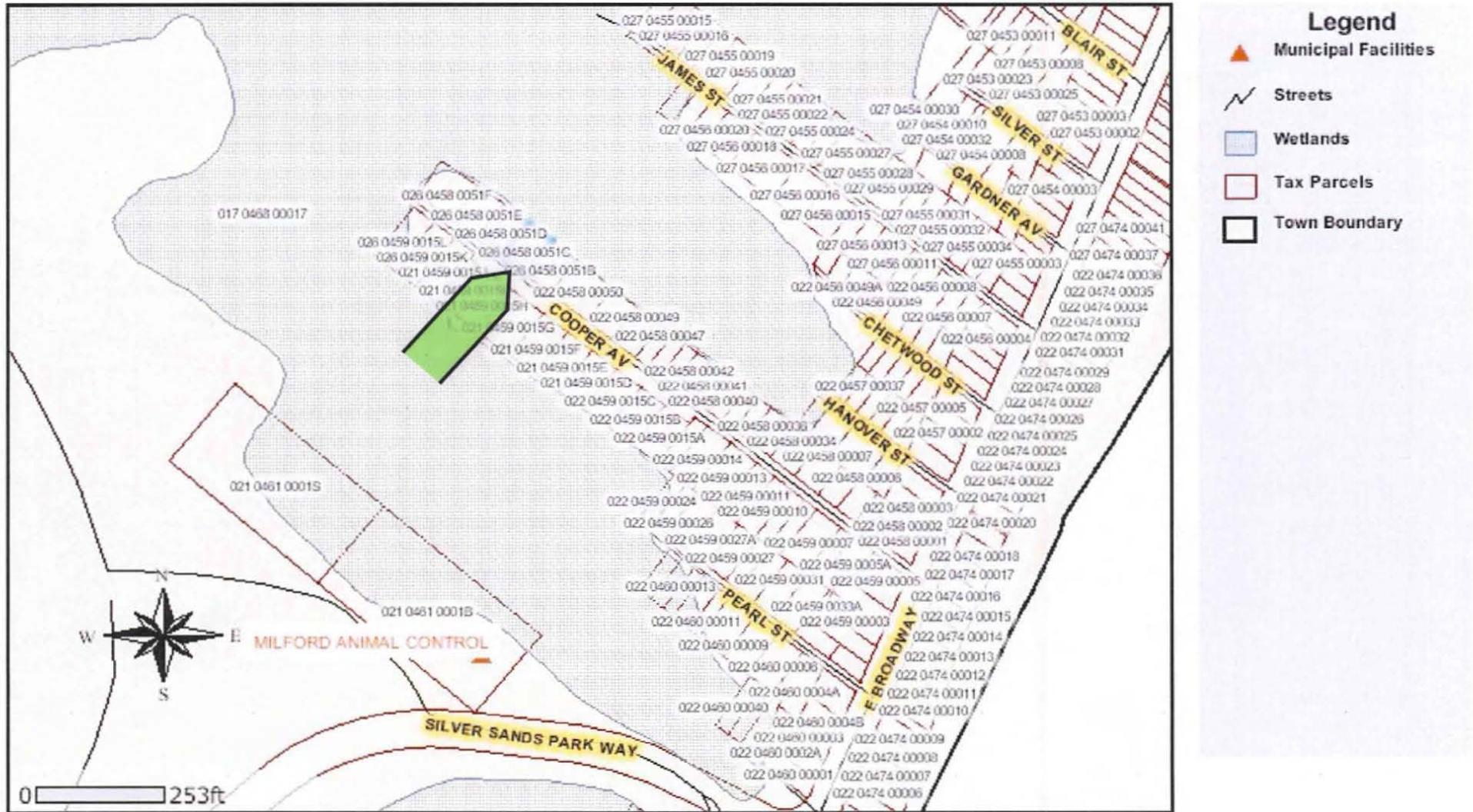
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Date: 11/26/2013

Path: \\Mgis\gis\Projects\Zoning Map\Zoning\_2013.mxd



J9	FOWLER TER	H10	JENNIFER LA	B8, C8	MEADOWSIDE RD	D6, E6, E7	PEARSON AV	H10, H10	SCHOONER LA	E9	TYLER RD
H10, H11	FOXWOOD CL (PRIVATE)	F12	JEPSON DR	E8, E9	MEETINGHOUSE LA	H11	PECK LA	G13	SCOTT ST	F7	UNDERHILL RD
H10	FOXWOOD LA (PRIVATE)	F12	JEROME LA	H10	MELBA ST	H8, H8, H9	PECK ST	D8	SE PARK RD (PRIVATE)	G11	UNDINE ST
E7, E8	FRANCIS ST	D2	JOANNE DR	D4	MERCURY DR	H12	PEDLAR'S LA (PRIVATE)	E12	SE PARK RD	G11	UNION ST
F7, F8	FRANKLIN RD	H12	JOHN ST	D4, D5	MERLIN CIR	H9, H9	PELHAM ST	H8	SEA FLOWER RD	D4	USHER ST
B6	FREEDOM RD	B8	JONES CT	D5	MERRITT AV	C4, D4, D5	PENN CMN (PRIVATE)	J12	SEABREEZE AV	H11, J10, J11	UTICA ST
F7	FREMONT AV	H11	JOY RD	D4, D5, E4, E5	MERWIN AV	H13, J10, J11, J12, J11	PEPE'S FARM RD	H10, H11, H12	SEAHAWK CT (PRIVATE)	J11	
E11	FRENCH DR	H10	JOYCE CT	C9	MERWIN PL	E8, F8	PEQUOT ST	B4, B5	SEASIDE AV	E7, E8, F7	VALERY CT
H8	FRESH MEADOW LA	C10, C11, D11	JUDITH DR	E10, E11	MIDWAY AV	D5	PHELAN PARK DR	D5	SEASIDE CT	E8	VALLEY VIEW RD
D10, D11	FULTON ST	B5, C5	JUDSON PL	C5	MIDWOOD RD	G8, H9	PICKETT ST	C4, C5	SEAVIEW AV	D2, D3	VERMONT AV
H11	FURNITURE ROW	G10	JULIA CT	E12	MILES ST	F7, F8	PIER CT	J12	SECOND AV EXT	D3	VERNAL PASS
E9			JUNIOR ST	D7	MILESFIELD AV	H8	PILGRIM LA	E6	SECOND AV	D3	VERNON CT
E8, E9	GARDEN ST	D4	JUNPER DR (PRIVATE)	B10, B9	MILFORD CHA	C8, C9	PINE CREST CT	C8, C9	SECOND PARK ST	G11	VBURNUM LA (PRIVATE)
B12	GARDNER AV	F6			MILFORD CIR (PRIVATE)	F11, G11	PINE KNOB TER	B11, B12	SEEMAN'S LA	D7, E7	VICTORY CRES



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.





# ELEVATION CERTIFICATE

Important: Read the instructions on pages 1-9.

OMB No. 1660-0008  
 Expiration Date: July 31, 2015

## SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name Mark T. Elisa		FOR INSURANCE COMPANY USE
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. #79 Cooper Avenue		Policy Number:
City Milford	State CT	Company NAIC Number:
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Tax Assessor's Map 26 Block 458 Parcel 51 C		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Residential</u>		
A5. Latitude/Longitude: Lat. <u>N 41 21 13</u> Long. <u>W 73 04 02</u> Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> 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 <u>8</u>		
A8. For a building with a crawlspace or enclosure(s):		A9. For a building with an attached garage:
a) Square footage of crawlspace or enclosure(s) <u>687</u> sq ft		a) Square footage of attached garage _____ sq ft
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <u>0</u>		b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade _____
c) Total net area of flood openings in A8.b _____ sq in		c) Total net area of flood openings in A9.b _____ sq in
d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No		d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No

## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number Milford 090082		B2. County Name New Haven		B3. State CT	
B4. Map/Panel Number 529	B5. Suffix J	B6. FIRM Index Date 7-8-13	B7. FIRM Panel Effective/Revised Date 7-8-13	B8. Flood Zone(s) AE	B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 9
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. <input type="checkbox"/> FIS Profile <input checked="" type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other/Source: _____					
B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input checked="" type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other/Source: _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date: _____ <input type="checkbox"/> CBRS <input type="checkbox"/> 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. In Puerto Rico only, enter meters.  
 Benchmark Utilized: Milford 3A-3 Vertical Datum: N.G.V.D 1929  
 Indicate elevation datum used for the elevations in items a) through h) below.  NGVD 1929  NAVD 1988  Other/Source: \_\_\_\_\_  
 Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.

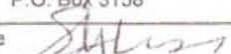
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	<u>4.4</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
b) Top of the next higher floor	<u>7.8</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
c) Bottom of the lowest horizontal structural member (V Zones only)	_____	<input type="checkbox"/> feet <input type="checkbox"/> meters
d) Attached garage (top of slab)	_____	<input type="checkbox"/> feet <input type="checkbox"/> meters
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	<u>7.8</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
f) Lowest adjacent (finished) grade next to building (LAG)	<u>5.7</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
g) Highest adjacent (finished) grade next to building (HAG)	<u>5.9</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	<u>5.7</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters

## 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

Check here if attachments.

Certifier's Name Scott K. Mundy, L.S.	License Number CT 70160
Title Land Surveyor	Company Name n.a.
Address P.O. Box 3158	City Milford State CT ZIP Code 06460
Signature 	Date 9-14-13 Telephone 203-862-8706

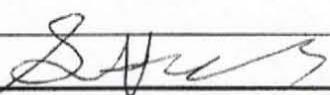
**ELEVATION CERTIFICATE, page 2**

<b>IMPORTANT: In these spaces, copy the corresponding information from Section A.</b>			<b>FOR INSURANCE COMPANY USE</b>
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. #79 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 Elevation where converted from N.G.V.D. 1929 to N.A.V.D 1988 the Scott K. Mundy, L.S.

Signature 	Date 9-14-13
---	--------------

**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–G10. In Puerto Rico only, enter meters.

- 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–G10) 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 Datum \_\_\_\_\_
- G9. BFE or (in Zone AO) depth of flooding at the building site: \_\_\_\_\_  feet  meters Datum \_\_\_\_\_
- G10. Community's design flood elevation: \_\_\_\_\_  feet  meters Datum \_\_\_\_\_

Local Official's Name _____	Title _____
Community Name _____	Telephone _____
Signature _____	Date _____

Comments \_\_\_\_\_

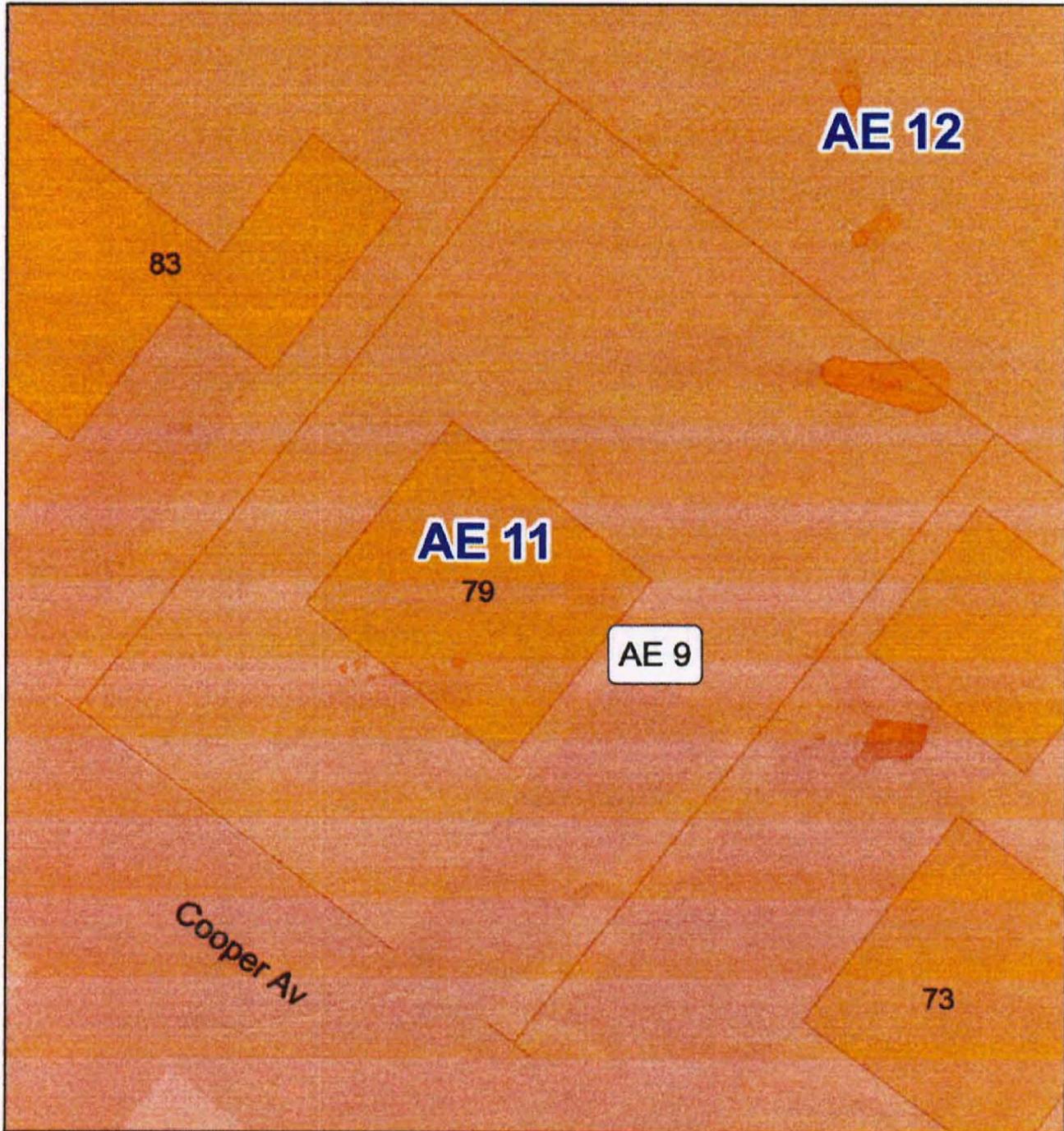
Check here if attachments.



# Preliminary 2012 Flood Zone and Base Flood Elevation

Location: 79 COOPER AVE  
Owner: ELIAS MARK T

Contact: [flood@ci.milford.ct.us](mailto:flood@ci.milford.ct.us)  
City website: <http://www.ci.milford.ct.us>  
Planning & Zoning: 203-783-3245  
Flood Insurance Info: [www.FloodSmart.gov](http://www.FloodSmart.gov)  
For questions on flood policy coverage and rates: 1-800-427-4661  
FEMA Map Information eXchange (FMIX) 1-877-FEMA MAP (1-877-336-2627)



FEMA Flood Zones 2010	<b>Future FEMA Flood Zone</b>	AO
Change Area	0.2 Annual Chance Flood Hazard	Open Water
<div style="border: 1px solid black; padding: 2px;">Current Flood Zone Label</div>	A	VE
	AE	X Protected by Levee
	<b>Future Flood Zone Label</b>	X





Department of Economic and  
Community Development

Connecticut  
still revolutionary

1316  
SM

June 23, 2014

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

received  
7-16-14

RE: 79 Cooper Avenue, Milford, CT

Dear Ms. Delaire:

The State Historic Preservation Office (SHPO) has reviewed the above-named project. The property is located within the National Register eligible East Broadway Historic District; however, in the opinion of the SHPO, the proposed undertaking will have no adverse effect upon historic district.

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

We recommend that the responsible federal agency provide concerned citizens with the opportunity to review and comment upon the proposed undertaking in accordance with the National Historic Preservation Act of 1966.

For further information, please contact Julie Carmelich at (860) 256-2762.

Sincerely:

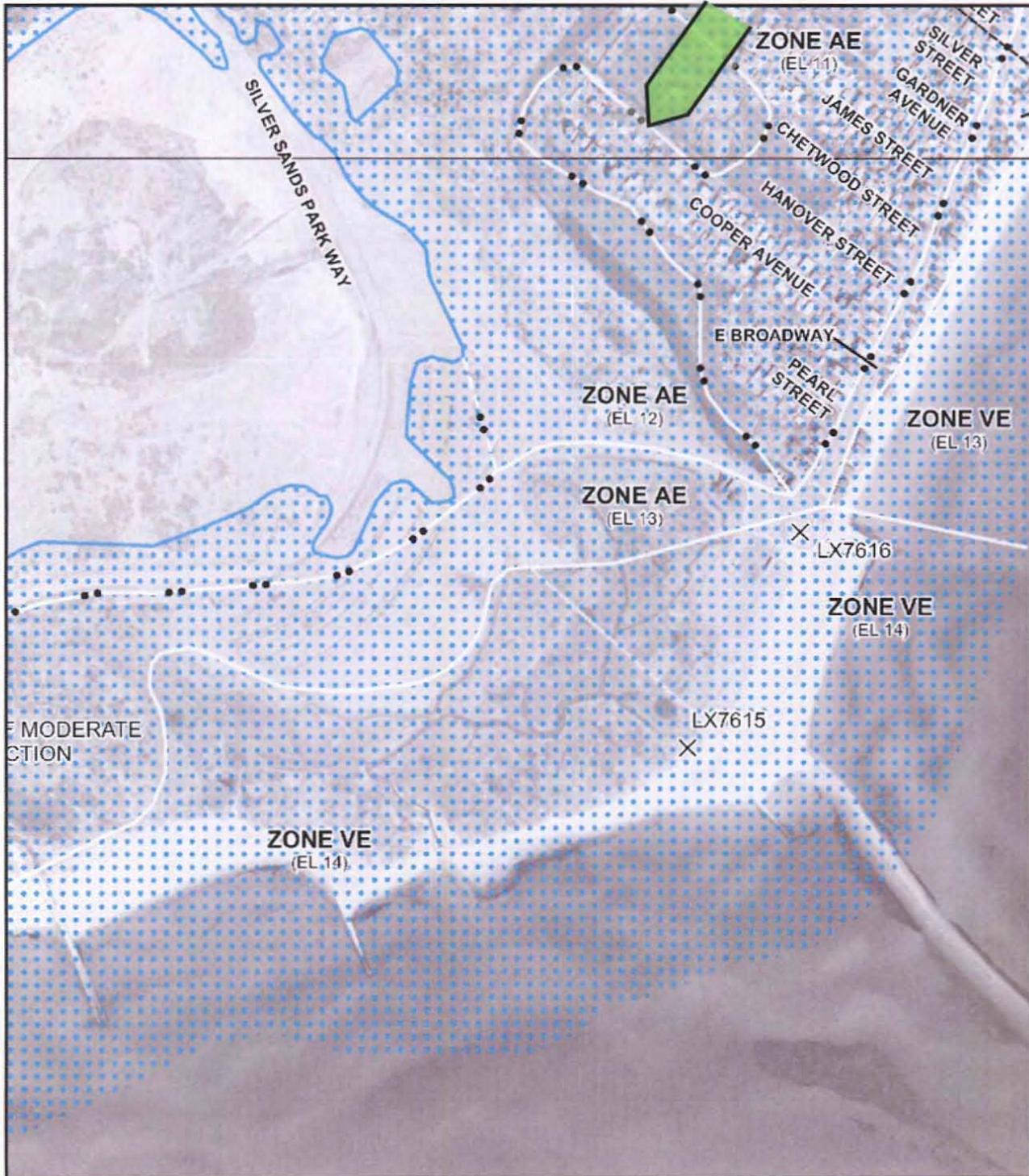
Daniel T. Forrest  
State Historic Preservation Officer

State Historic Preservation Office

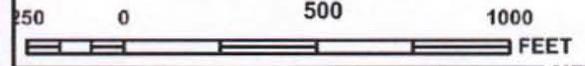
One Constitution Plaza | Hartford, CT 06103 | P: 860.256.2800 | Cultureandtourism.org

*An Affirmative Action/Equal Opportunity Employer An Equal Opportunity Lender*





MAP SCALE 1" = 500'



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	09009	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](http://www.msc.fema.gov)

# LEGEND



## SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.



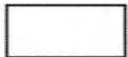
## FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.



## OTHER FLOOD AREAS

- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.



## OTHER AREAS

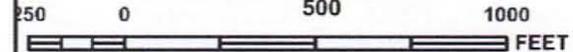
- ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
- ZONE D** Areas in which flood hazards are undetermined, but possible.



## COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS



MAP SCALE 1" = 500'



PANEL 0533J

## FIRM

### FLOOD INSURANCE RATE MAP NEW HAVEN COUNTY, CONNECTICUT (ALL JURISDICTIONS)

PANEL 533 OF 635

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
MILFORD, CITY OF	090902	0533	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**  
09009C0533J

**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](http://www.msc.fema.gov)



# 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. Properties requiring review.

Dear Mr. Ball:

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

79 Cooper Ave - raise house to proper flood elevation

In order to determine that the proposed work will not adversely impact wetlands or watercourses on or adjacent to the property the following information will be required:

Site Plan and A-2 Survey with T2 Accuracy showing:

- Existing and proposed house location
- Existing and proposed out buildings/assessor structures
- Existing and proposed topography
- The inland wetland line as flagged by a professional wetland scientist
- Proposed erosion control locations
- Proposed stockpile locations

Soil Report by a Professional Wetland Scientist

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



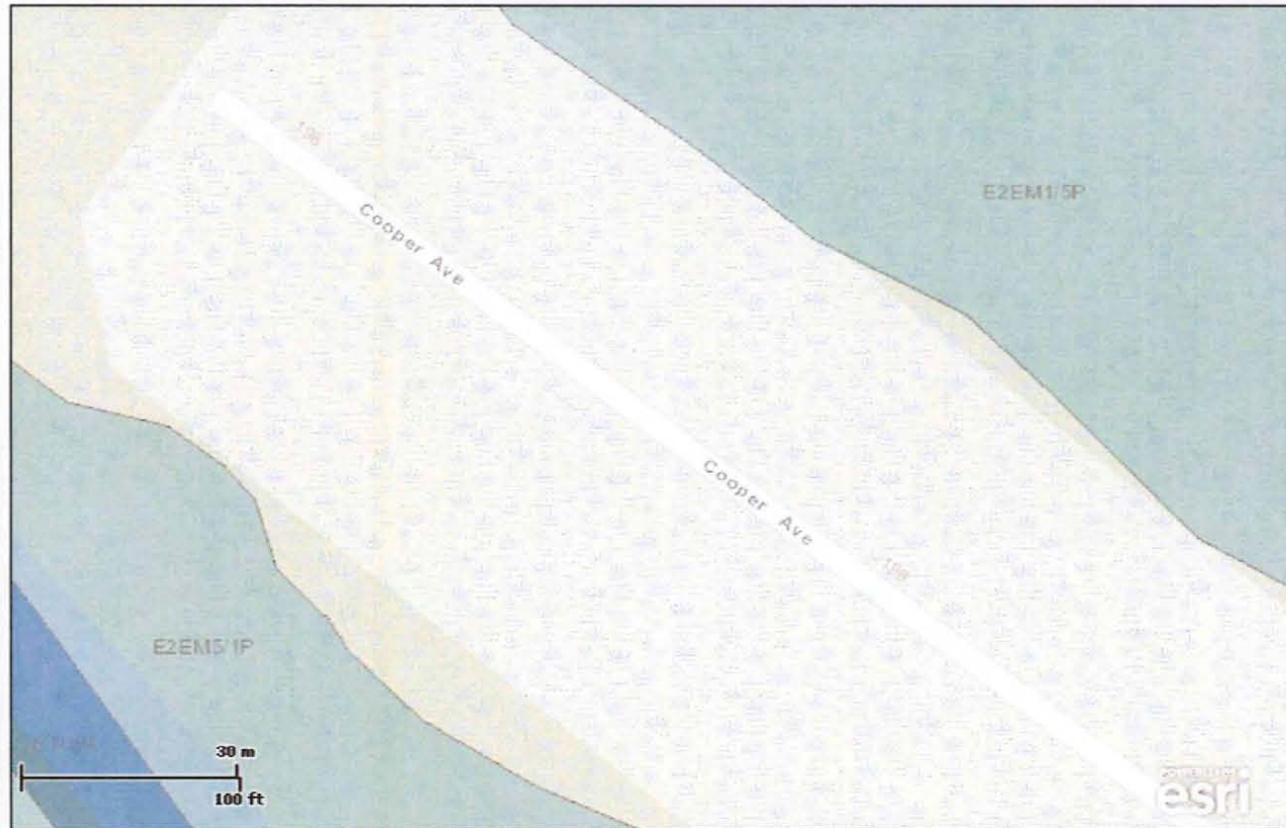


U.S. Fish and Wildlife Service

# National Wetlands Inventory

79 Cooper Ave  
Milford, CT

Aug 1, 2014



## Wetlands

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

User Remarks:

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.



# City of Milford, Connecticut

## Application Form Municipal Coastal Site Plan Review For Projects Located Fully or Partially Within the Coastal Boundary

Please complete this form in accordance with the attached instructions (CSPR-INST-11/99) and submit it with the appropriate plans to the Planning & Zoning Department.

### Section I: Applicant Identification

Applicant:	<u>Mark Elias</u>	Date:	<u>7/28/14</u>
Address:	<u>79 Cooper Ave Milford, 06460</u>	Phone:	<u>203 962 4845</u>
Project Address or Location:	<u>79 Cooper Ave.</u>		
Interest in Property:	<input checked="" type="checkbox"/> fee simple <input type="checkbox"/> option <input type="checkbox"/> lessee <input type="checkbox"/> easement <input type="checkbox"/> other (specify) _____		
List primary contact for correspondence if other than applicant:			
Name:	<u>Mark Elias</u>		
Address:	<u>79 Cooper Ave</u>		
City/Town:	<u>Milford</u>	State:	<u>CT</u> Zip Code: <u>06460</u>
Business Phone:	<u>203 962 4845</u>		
e-mail:	<u>markteliast@yahoo.com</u>		

### Section II: Project Site Plans

Please provide project site plans that clearly and accurately depict the following information, and check the appropriate boxes to indicate that the plans are included in this application:

- Project location
- Existing and proposed conditions, including buildings and grading
- Coastal resources on and contiguous to the site
- High tide line [as defined in CGS Section 22a-359(c)] and mean high water mark elevation contours (for parcels abutting coastal waters and/or tidal wetlands only)
- Soil erosion and sediment controls
- Stormwater treatment practices
- Ownership and type of use on adjacent properties
- Reference datum (i.e., National Geodetic Vertical Datum, Mean Sea Level, etc.)

### Section III: Written Project Information

Please check the appropriate box to identify the plan or application that has resulted in this Coastal Site Plan Review:

- Site Plan for Zoning Compliance
- Subdivision or Resubdivision
- Special Permit or Special Exception
- Variance
- Municipal Project (CGS Section 8-24)

#### Part I: Site Information

1. Street Address or Geographical Description: 79 Cooper Ave.  
  
City or Town: Milford, CT 06460
2. Is project or activity proposed at a waterfront site (includes tidal wetlands frontage)?  YES  NO
3. Name of on-site, adjacent or downstream coastal, tidal or navigable waters, if applicable:  
Long Island Sound Wetlands
4. Identify and describe the existing land use on and adjacent to the site. Include any existing structures, municipal zoning classification, significant features of the project site:  
Single Family Residences
5. Indicate the area of the project site: 4,380 sq ft. acres or square feet (circle one)
6. Check the appropriate box below to indicate total land area of disturbance of the project or activity (please also see Part II.B. regarding proposed stormwater best management practices):
  - Project or activity will disturb 5 or more total acres of land area on the site. It may be eligible for registration for the Department of Environmental Protection's (DEP) General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities
  - Project or activity will disturb one or more total acres but less than 5 total acres of land area. A soil erosion and sedimentation control plan must be submitted to the municipal land use agency reviewing this application.
  - Project or activity will not disturb 1 acre total of land area. Stormwater management controls may be required as part of the coastal site plan review.
7. Does the project include a shoreline flood and erosion control structure as defined in CGS section 22a-109(d)  Yes  No

**Part II.A.: Description of Proposed Project or Activity**

Describe the proposed project or activity including its purpose and related activities such as site clearing, grading, demolition, and other site preparations; percentage of increase or decrease in impervious cover over existing conditions resulting from the project; phasing, timing and method of proposed construction; and new uses and changes from existing uses (attach additional pages if necessary):

The project will be raising structure above the current flood zone elevation.

**Part II.B.: Description of Proposed Stormwater Best Management Practices**

Describe the stormwater best management practices that will be utilized to ensure that the volume of runoff generated by the first inch of rainfall is retained on-site, especially if the site or stormwater discharge is adjacent to tidal wetlands. If runoff cannot be retained on-site, describe the site limitations that prevent such retention and identify how stormwater will be treated before it is discharged from the site. Also demonstrate that the loadings of total suspended solids from the site will be reduced by 80 percent on an average annual basis, and that post-development stormwater runoff rates and volumes will not exceed pre-development runoff rates and volumes (attach additional pages if necessary):

Soil and erosion controls are shown on site plan.

### Part III: Identification of Applicable Coastal Resources and Coastal Resource Policies

Identify the coastal resources and associated policies that apply to the project by placing a check mark in the appropriate box(es) in the following table.

Coastal Resources	On-site	Adjacent	Off-site but within the influence of project	Not Applicable
General Coastal Resources* - Definition: CGS Section 22a-93(7); Policy: CGS Section 22a-92(a)(2)	X	X	X	
Beaches & Dunes - Definition: CGS Section 22a-93(7)(C); Policies: CGS Sections 22a-92-(b)(2)(C) and 22a-92(c)(1)(K)				
Bluffs & Escarpments - Definition: CGS Section 22a-93(7)(A); Policy: CGS Section 22a-92(b)(2)(A)				
Coastal Hazard Area - Definition: CGS Section 22a-93(7)(H); Policies: CGS Sections 22a-92(a)(2), 22a-92(a)(5), 22a-92(b)(2)(F), 22a-92(b)(2)(J), and 22a-92(c)(2)(B)	X	X		
Coastal Waters, Estuarine Embayments, Nearshore Waters, Offshore Waters - Definition: CGS Sections 22a-93(5), 22a-93(7)(G), and 22a-93(7)(K), and 22a-93(7)(L) respectively; Policies: CGS Sections 22a-92(a)(2) and 22a-92(c)(2)(A)		X		
Developed Shorefront - Definition: CGS Section 22a-93(7)(I); Policy: 22a-92(b)(2)(G)				
Freshwater Wetlands and Watercourses - Definition: CGS Section 22a-93(7)(F); Policy: CGS Section 22a-92(a)(2)				
Intertidal Flats - Definition: CGS Section 22a-93(7)(D); Policies: 22a-92(b)(2)(D) and 22a-92(c)(1)(K)				
Islands - Definition: CGS Section 22a-93(7)(J); Policy: CGS Section 22a-92(b)(2)(H)				
Rocky Shorefront - Definition: CGS Section 22a-93(7)(B); Policy: CGS Section 22a-92(b)(2)(B)				
Shellfish Concentration Areas - Definition: CGS Section 22a-93(7)(N); Policy: CGS Section 22a-92(c)(1)(I)				
Shorelands - Definition: CGS Section 22a-93(7)(M); Policy: CGS Section 22a-92(b)(2)(I)				
Tidal Wetlands - Definition: CGS Section 22a-93(7)(E); Policies: CGS Sections 22a-92(a)(2), 22a-92(b)(2)(E), and 22a-92(c)(1)(B)		X		

\* General Coastal Resource policy is applicable to all proposed activities

#### Part IV: Consistency with Applicable Coastal Resource Policies and Standards

Describe the location and condition of the coastal resources identified in Part III above and explain how the proposed project or activity is consistent with all of the applicable coastal resource policies and standards; also see adverse impacts assessment in Part VII.A below (attach additional pages if necessary):

There will be no impact to tidal wetlands adjacent to property.

#### Part V: Identification of Applicable Coastal Use and Activity Policies and Standards

Identify all coastal policies and standards in or referenced by CGS Section 22a-92 applicable to the proposed project or activity:

- General Development\* - CGS Sections 22a-92(a)(1), 22a-92(a)(2), and 22a-92(a)(9)
- 9 Water-Dependent Uses\*\* - CGS Sections 22a-92(a)(3) and 22a-92(b)(1)(A);  
Definition CGS Section 22a-93(16)
- 9 Ports and Harbors - CGS Section 22a-92(b)(1)(C)
- 9 Coastal Structures and Filling - CGS Section 22a-92(b)(1)(D)
- 9 Dredging and Navigation - CGS Sections 22a-92(c)(1)(C) and 22a-92(c)(1)(D)
- 9 Boating - CGS Section 22a-92(b)(1)(G)
- 9 Fisheries - CGS Section 22a-92(c)(1)(I)
- 9 Coastal Recreation and Access - CGS Sections 22a-92(a)(6), 22a-92(C)(1)(j) and 22a-92(c)(1)(K)
- 9 Sewer and Water Lines - CGS Section 22a-92(b)(1)(B)
- 9 Fuel, Chemicals and Hazardous Materials - CGS Sections 22a-92(b)(1)(C), 22a-92(b)(1)(E) and 22a-92(c)(1)(A)
- 9 Transportation - CGS Sections 22a-92(b)(1)(F), 22a-92(c)(1)(F), 22a-92(c)(1)(G), and 22a-92(c)(1)(H)
- 9 Solid Waste - CGS Section 22a-92(a)(2)
- 9 Dams, Dikes and Reservoirs - CGS Section 22a-92(a)(2)
- 9 Cultural Resources - CGS Section 22a-92(b)(1)(J)
- 9 Open Space and Agricultural Lands - CGS Section 22a-92(a)(2)

\* General Development policies are applicable to all proposed activities

\*\* Water-dependent Use policies are applicable to all activities proposed at waterfront sites, including those with tidal wetlands frontage.

**Part VI: Consistency With Applicable Coastal Use Policies And Standards**

Explain how the proposed activity or use is consistent with all of the applicable coastal use and activity policies and standards identified in Part V. **For projects proposed at waterfront sites (including those with tidal wetlands frontage)**, particular emphasis should be placed on the evaluation of the project's consistency with the water-dependent use policies and standards contained in CGS Sections 22a-92(a)(3) and 22a-92(b)(1)(A) -- also see adverse impacts assessment in Part VII.B below (attach additional pages if necessary):

Raising the single family residence will protect owner and contents of home and will allow a free flow of tidal surge during storms.

**Part VII.A.: Identification of Potential Adverse Impacts on Coastal Resources**

*Please complete this section for all projects.*

Identify the adverse impact categories below that apply to the proposed project or activity. The Applicable column **must** be checked if the proposed activity has the **potential** to generate any adverse impacts as defined in CGS Section 22a-93(15). If an adverse impact may result from the proposed project or activity, please use Part VIII to describe what project design features may be used to eliminate, minimize, or mitigate the potential for adverse impacts.

Potential Adverse Impacts on Coastal Resources	Applicable	Not Applicable
Degrading tidal wetlands, beaches and dunes, rocky shorefronts, and bluffs and escarpments through significant alteration of their natural characteristics or functions - CGS Section 22a-93(15)(H)		X
Increasing the hazard of coastal flooding through significant alteration of shoreline configurations or bathymetry, particularly within high velocity flood zones - CGS Section 22a-93(15)(E)		X
Degrading existing circulation patterns of coastal water through the significant alteration of patterns of tidal exchange or flushing rates, freshwater input, or existing basin characteristics and channel contours - CGS Section 22a-93(15)(B)		X
Degrading natural or existing drainage patterns through the significant alteration of groundwater flow and recharge and volume of runoff - CGS Section 22a-93(15)(D)		X
Degrading natural erosion patterns through the significant alteration of littoral transport of sediments in terms of deposition or source reduction - CGS Section 22a-93(15)(C)		X
Degrading visual quality through significant alteration of the natural features of vistas and view points - CGS Section 22a-93(15)(F)		X
Degrading water quality through the significant introduction into either coastal waters or groundwater supplies of suspended solids, nutrients, toxics, heavy metals or pathogens, or through the significant alteration of temperature, pH, dissolved oxygen or salinity - CGS Section 22a-93(15)(A)		X
Degrading or destroying essential wildlife, finfish, or shellfish habitat through significant alteration of the composition, migration patterns, distribution, breeding or other population characteristics of the natural species or significant alterations of the natural components of the habitat - CGS Section 22a-93(15)(G)		X

## Part VII.B.: Identification of Potential Adverse Impacts on Water-dependent Uses

Please complete the following two sections **only if the project or activity is proposed at a waterfront site**:

- Identify the adverse impact categories below that apply to the proposed project or activity. The **Applicable** column **must** be checked if the proposed activity has the **potential** to generate any adverse impacts as defined in CGS Section 22a-93(17). If an adverse impact may result from the proposed project or activity, use Part VIII to describe what project design features may be used to eliminate, minimize, or mitigate the potential for adverse impacts.

Potential Adverse Impacts on Future Water-dependent Development Opportunities and Activities	Applicable	Not Applicable
Locating a non-water-dependent use at a site physically suited for or planned for location of a water-dependent use - CGS Section 22a-93(17)		X
Replacing an existing water-dependent use with a non-water-dependent use - CGS Section 22a-93(17)		X
Siting a non-water-dependent use which would substantially reduce or inhibit existing public access to marine or tidal waters - CGS Section 22a-93(17)		X

- Identification of existing and/or proposed Water-dependent Uses

Describe the features or characteristics of the proposed activity or project that qualify as water-dependent uses as defined in CGS Section 22a-93(16). If general public access to coastal waters is provided, please identify the legal mechanisms used to ensure public access in perpetuity, and describe any provisions for parking or other access to the site and proposed amenities associated with the access (e.g., boardwalk, benches, trash receptacles, interpretative signage, etc.):

*Not applicable*

\*If there are no water-dependent use components, describe how the project site is not appropriate for the development of a water-dependent use.

**Part VIII: Mitigation of Potential Adverse Impacts**

Explain how all potential adverse impacts on coastal resources and/or future water-dependent development opportunities and activities identified in Part VII have been avoided, eliminated, or minimized (attach additional pages if necessary):

*No impact expected*

**Part IX: Remaining Adverse Impacts**

Explain why any remaining adverse impacts resulting from the proposed activity or use have not been mitigated and why the project as proposed is consistent with the Connecticut Coastal Management Act (attach additional pages if necessary):

*Not applicable*



MILFORD PLANNING AND ZONING BOARD
APPLICATION FOR COASTAL SITE PLAN REVIEW

(TYPE OR PRINT)

APPLICANT Mark T Elias
SITE PLAN REVIEW [X] AMENDMENT TO SITE PLAN REVIEW
TO ESTABLISH OR CONSTRUCT single family residence
ON THE FOLLOWING PROPERTY (ADDRESS) 79 Cooper Ave.
OWNER OF RECORD Mark T Elias
ASSESSOR'S MAP 20 BLOCK 458 PARCEL 57C ZONE R-5
TYPE OF PROJECT APPROVAL REQUESTED:
SITE PLAN REVIEW [X] SPECIAL PERMIT SUBDIVISION VARIANCE

TYPE OF PROJECT OR ACTIVITY (CHECK ONE OR MORE)

COASTAL RESOURCES LOCATED WITHIN THE PROJECT OR WHICH THE PROJECT WILL AFFECT:

- a. Subdivision (type of use - residential, commercial, etc.)
[X] b. Single family residential
c. Multi-family residential (No. of units)
d. Condominium (No. of units)
e. Commercial - sq. ft.
f. Industrial - sq. ft.
g. Mixed residential/commercial (# units /sq.ft.)
h. Marina - sq. ft.
i. Commercial Port Facility - sq. ft.
j. Sewer Line - Capacity
k. Water Line - Capacity
l. Other - PLEASE SPECIFY

- a. bluffs or escarpments
b. rocky shorefront
c. beaches and dunes
[X] d. intertidal flats
e. tidal wetlands
f. freshwater wetlands
g. estuarine embayments
h. coastal flood hazard area
i. coastal erosion hazard area
j. developed shorefront
k. islands
l. coastal waters
m. shorelands
n. shellfish concentration areas

AREA
Sq. Ft. & Acres

PROPERTY OWNER:
NAME Mark T Elias
SIGNATURE
MAILING ADDRESS 79 Cooper Ave
Milford, CT 06460
PHONE NO. 203 962 4845

IF APPEARING BY ATTORNEY OR AGENT:
NAME
SIGNATURE
MAILING ADDRESS
PHONE NO.

PROFESSIONAL ENGINEER - DESIGNER/ARCHITECT - LAND SURVEYOR:
NAME Scott K Mundy L.S.
MAILING ADDRESS Box 3158
Milford, CT 06460

SIGNATURE
PHONE NO. 203 882 8706

FEE - SEE SCHEDULE OF ZONING FEES (Payable by Check Only)

RECEIVED OF DATE
RECEIVED BY AMOUNT RECEIPT NO.

APPLICATION FILED APPLICATION CERTIFIED PUBLIC HEARING DATE
DATE BOARD ACTION APPROVED DENIED

LEGEND

COASTAL LAND RESOURCES

- E COASTAL BLUFFS AND ESCARPMENTS:** Steep, seaward sloping marine cliffs or escarpments composed of unconsolidated bouldery to stony or sandy to gravelly soils. The slopes are active and the shores retreating (eroding). The slopes may be mantled with a sparse shrub or herb cover of salt spray tolerant plants. (Source: 1,2)
- ME modified BLUFFS AND ESCARPMENTS:** Bluffs and escarpments which have been temporarily stabilized by erosion control structures (revetment, bulkhead or seawall) positioned seaward of the marine cliff or escarpment. (Source: 1)
- B BEACHES AND DUNES:** Moderately sloping shores composed of water worked sand, gravel or cobble deposits (beach) and when present, wind deposited sands (dunes or sand flats). The beach (proper) is positioned between mean low water and coastal bluffs/escarpments or dunes or vegetation. The map designations include all areas of sandy beach fill. Dunes and sand flats positioned landward and elevated above the beach support coastal grasslands dominated by beach grass (*Ammophila breviligulata*). (Source: 1,2,3,4)
- MB modified BEACHES AND DUNES:** Beach systems temporarily stabilized by an erosion control structure (revetment, seawall or bulkhead) positioned between the dune ridge and the beach. (Source: 1)
- R ROCKY SHOREFRONTS:** Shorefront composed of bedrock or drifed with a dense aggregate of boulder and stone. Includes rugged nearly vertical rock cliffs or gently seaward sloping rock and bouldery lands. (Source: 1)
- COASTAL 'FLOOD' HAZARD AREA:** 100 year coastal flood hazard area as identified by the Federal Emergency Management Agency (FEMA). On those coastal islands currently managed by FEMA, the flood hazard area is conservatively approximated by the 10' contour interval. (Source: 2,3)
- F FRESHWATER WETLANDS** (as defined in Section 22a-36 of the Connecticut General Statutes as "land, including submerged land, not regulated pursuant to sections 22a-20 to 22a-36 ('Tidal' Wetlands and Watercourses Act), inclusive, which consists of any of the soil types designated as poorly drained, very poorly drained, alluvial and floodplain... (Inland Wetlands and Watercourses Act).") Includes all freshwater wetland soils and any poorly to very poorly drained soils of the Pawcatuck and Westport series (tidal wetland soils) that are unmapped and unregulated by the state tidal wetland program. (Source: 1,4)
- I ISLANDS:** A land mass of bedrock or till encircled by coastal waters. (Note: All critical coastal resource components of the island such as bluffs and escarpments, beaches and dunes, rocky shorefront and wetlands should be managed accordingly, whether or not these are displayed on this map) (Source: 1,2)
- SHORELANDS:** Upland areas at elevations in excess of the 100 year still water flood level and located within the coastal boundary. (Source: 2,3)
- D DEVELOPED SHOREFRONT:** Port and harbor areas which have been highly engineered and developed resulting in the functional impairment or substantial alteration of their natural physical graphic features or systems.

(Source: 2)

- D **DEVELOPED SHOREFRONT:** Piers and Harbor areas which have been highly engineered and developed resulting in the functional impairment or substantial alteration of their natural physical geographic features or systems. (Source: 1,2,3,4,5)
- W **WATER:** Open water bodies such as but not limited to lakes and ponds subject to regulation under Sections 22a-93 to 22a-95 of the Connecticut General Statutes. (Source: 2)

INTERTIDAL RESOURCES

T **REGULATED TIDAL WETLANDS:** Official state designated and regulated tidal wetlands located within the coastal boundary. The areas depicted on this map shall in no way supersede the official state regulated tidal wetland maps at the scale of 1:2400. (Source: 5)

 **INTERTIDAL FLATS:** Level to gently sloping areas subjected to alternating periods of tidal inundation and exposure. Sediment is variable ranging from mud to sand. (Source: 2)

COASTAL WATERS

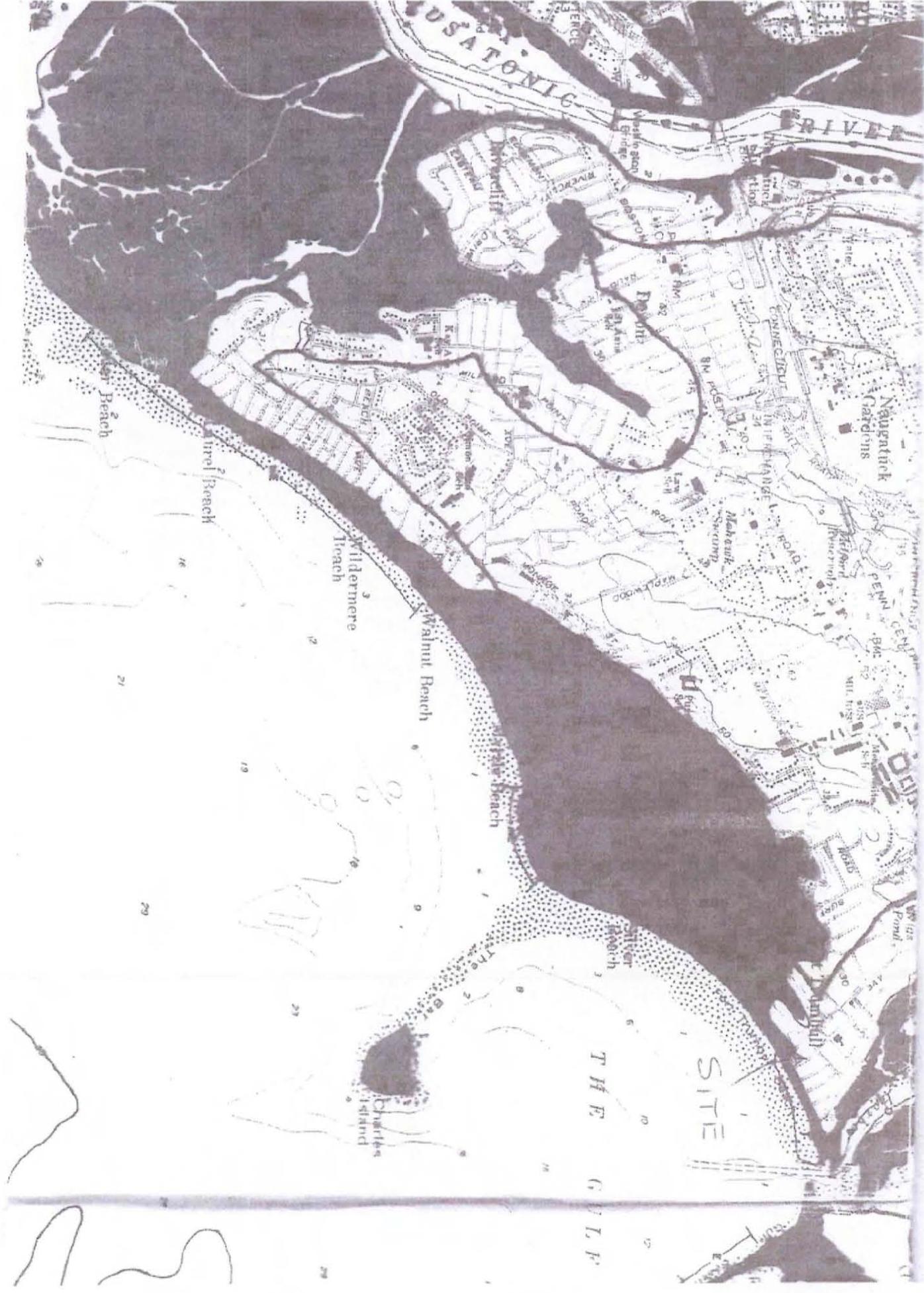
- EM **ESTUARINE ENVIRONMENTS:** Protected coastal water bodies with an open connection to the Sound including tidal rivers, bays, coves and lagoons. (Source: 2)
- MM **NEARSHORE WATERS:** Those waters and submerged lands between mean low water and a depth approximated by the 10 meter bathymetric contour. (Source: 2)
- OM **OFFSHORE WATERS:** Those waters and submerged lands seaward of a depth approximated by the 10 meter bathymetric contour. (Source: 2)

 **COASTAL BOUNDARY:** As defined in Section 22a-94 of the Connecticut General Statutes as amended by Public Act 79-300 (Lands and waters seaward of the inside edge of this line are subject to the provisions of the Connecticut Coastal Management Act)

SOURCES:

1. False Color Infrared Aerial Photographs (1:10000), 1974
2. U.S.G.S. 7 1/2 Minute Quadrangle
3. Surficial Geology Maps (U.S.G.S. or Connecticut Geological and Natural History Survey)
4. Soil Conservation Service, Coastal Soil Maps (1:24000), 1979
5. Flood Insurance Maps Prepared by the Federal Emergency Management Agency (hazard boundary maps, preliminary flood insurance rate maps or final flood insurance rate maps, whichever ones were most current at this printing)
6. State Regulated Tidal Wetland Maps (1:2400)
7. Coastal Area Management, Land Use Overlays (1:24000)

This map is intended as a guide to identify the approximate locations of coastal resources. Map designations conform to the resource definitions in Section 22a-93 of the Connecticut General Statutes as amended by Public Act 79-300. Boundary lines are as precise as this map and source information permit. This map shall not supersede any existing and more precise official tidal wetland map, state or municipal inland wetlands map or FEMA flood insurance map. Specific questions or comments relating to the map title or the application of this map, should be directed to the Connecticut Coastal Area Management Program.



# COASTAL BOUNDARY MILFORD, CONNECTICUT

## LEGEND



## EXPLANATION

The coastal boundary map shows the extent of both the Coastal Zone and the Coastal Wetlands. The coastal boundary is a continuous line delineated on the map and is based on the 100-foot frequency coastal flood zone, as defined and determined by the National Flood Insurance Program. The coastal boundary is measured from the mean high water mark to certain waters, as a one thousand foot buffer around wetlands, wherever in fact they exist, and also be delineated by the natural extent of the riparian zone.

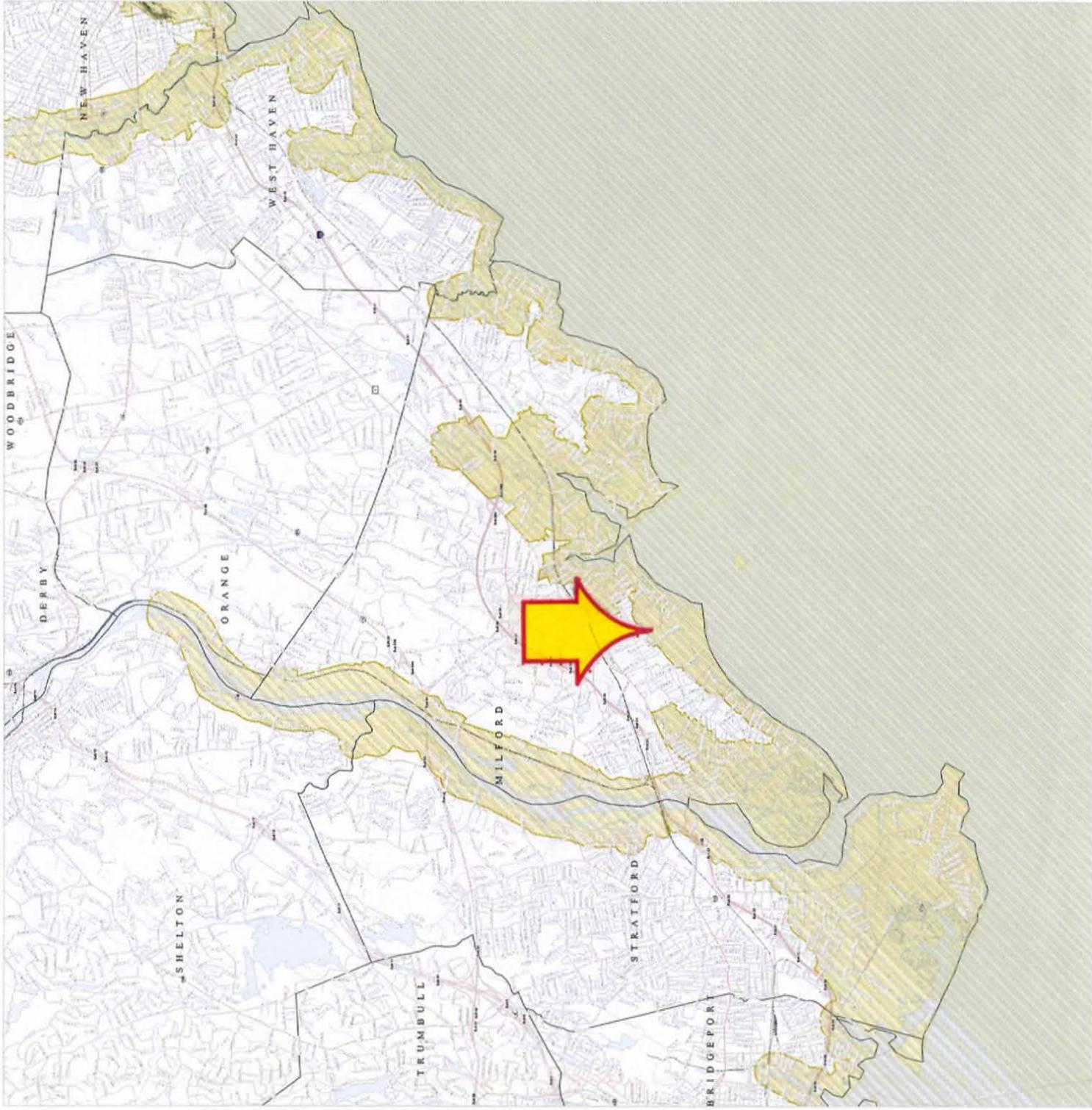
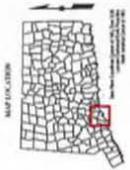
As delineated by the 100-foot frequency coastal flood zone, the coastal boundary is a municipal agency (i.e., town or city) boundary for a municipal agency (i.e., town or city) boundary. The coastal boundary is a continuous line delineated on the map and is based on the 100-foot frequency coastal flood zone, as defined and determined by the National Flood Insurance Program. The coastal boundary is measured from the mean high water mark to certain waters, as a one thousand foot buffer around wetlands, wherever in fact they exist, and also be delineated by the natural extent of the riparian zone.

## DATA SOURCES

**COASTAL BOUNDARY DATA** - The original coastal boundary data was derived from the 1:25,000 scale US Geological Survey topographic map (series 15-40000) for the coastal zone. The coastal boundary data was derived from the 1:25,000 scale US Geological Survey topographic map (series 15-40000) for the coastal zone. The coastal boundary data was derived from the 1:25,000 scale US Geological Survey topographic map (series 15-40000) for the coastal zone.

**SELECTED INFORMATION**

This map is intended to be printed at an enlarged scale of 1:25,000. The original map scale is 1:250,000. The coastal boundary data was derived from the 1:25,000 scale US Geological Survey topographic map (series 15-40000) for the coastal zone.







## 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](http://www.fws.gov/newengland)

Consultation Tracking Number: 05E1NE00-2014-SLI-0392

June 09, 2014

Project Name: Elias 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](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: Elias 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:** 05E1NE00-2014-SLI-0392

**Project Type:** Federal Grant / Loan Related

**Project Description:** 79 Cooper Ave.  
Milford, CT



United States Department of Interior  
Fish and Wildlife Service

Project name: Elias Residence

### Project Location Map:



**Project Coordinates:** MULTIPOLYGON (((-73.0669918 41.20378, -73.0667343 41.2036509, -73.0669703 41.2033764, -73.0672493 41.203554, -73.0669918 41.20378)))

**Project Counties:** New Haven, CT



United States Department of Interior  
Fish and Wildlife Service

Project name: Elias Residence

## Endangered Species Act Species List

There are a total of 0 threatened, endangered, or candidate 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 on the **Has Critical Habitat** lines may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

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



United States Department of Interior  
Fish and Wildlife Service

Project name: Elias Residence

## **Critical habitats that lie within your project area**

There are no critical habitats within your project area.

## 10 D. Toxic Site Certification

I certify that the property identified as 79 Cooper Ave. Milford, Connecticut was checked for inclusion on the attached lists/databases:

DEEP State of Connecticut Superfund Priority List

EPA – Proposed National Priority List dated May 12, 2014

EPA – Final National Priority List dated May 12, 2014

EPA – Deleted National Priority List dated May 12, 2014

EPA – Partial Deleted National Priority List dated May 12, 2014

EPA – Construction Completed at NPL Site

DEEP List of Contaminated or Potentially Contaminated Site dated February 10, 2014.

As on June 9, 2014, 79 Cooper Ave. Milford, Connecticut was not listed on any of the above.

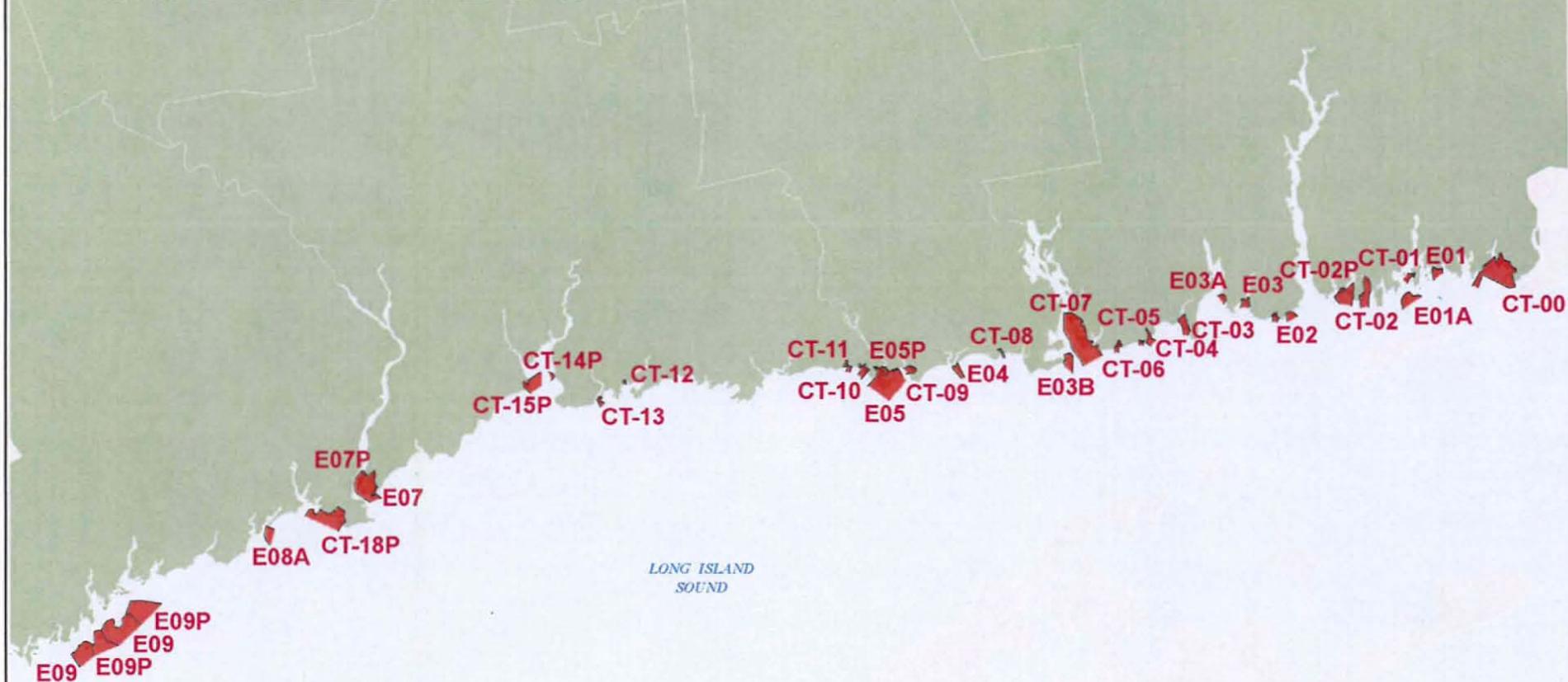


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Stephen Ball

ERR Reviewer

# 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](http://www.fws.gov/habitatconservation/coastal_barrier.html).

# Limited Hazardous Materials Building Inspection Report

Storm Sandy Residential Rehabilitation Project  
79 Cooper Avenue  
Milford, Connecticut

**Quisenberry Arcari Architects, LLC**  
Farmington, Connecticut

May 2014



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



**FUSS & O'NEILL**  
EnviroScience, LLC

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  
79 Cooper Avenue, Milford, Connecticut**  
Fuss & O'Neill EnviroScience Project No. 20140277.B5E  
Quisenberry Arcari Project No. 1346-16

Dear Mr. Arcari:

Enclosed is the report for the limited hazardous materials building inspection performed at 79 Cooper Avenue in Milford, Connecticut.

The initial inspection was performed on April 30, 2014 and May 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 abovementioned materials only. It does not include information on other hazardous materials that may exist in the property (such as underground storage tanks, PCB-containing building materials, etc.).

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

Sincerely,

Kevin McCarthy  
Project Manager

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

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

Enclosure

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APPENDIX E	AIRBORNE RADON GAS ASSESSMENT RESULTS AND CHAIN OF CUSTODY FORM



## 1 Introduction

On April 30, 2014 and May 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 79 Cooper 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* for EnviroScience state-licenses, certifications, and accreditations.

This inspection was performed in response to the planned renovations to damaged or impacted areas of the building caused by Superstorm Sandy, as identified in the *Draft Residence Rehabilitation Letter* dated March 28, 2014, provided by Quisenberry Arcari Architects. The limited inspection consisted of the following:

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

## 2 Asbestos Inspection

A Property Owner must ensure that performance of a thorough inspection for ACM, prior to possible disturbance of suspect ACM during renovation or demolition, is conducted. This is a requirement of the United States 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 ( $\leq$ ) 1,000 square feet.
  - b. Five samples collected from each homogenous area that is greater than ( $>$ ) 1,000 square feet, but less than or equal to 5,000 square feet.
  - c. Seven samples collected from each homogenous area that is greater than ( $>$ ) 5,000 square feet.
2. Thermal System Insulation (TSI) (e.g., pipe insulation, tank insulation, etc.) was collected in a randomly distributed manner representing each homogenous area. Three bulk samples were collected as representative of each homogeneous material type, and sent to laboratory for asbestos analysis. Also, a minimum of one sample of any patching material (less than 6 linear of square feet) applied to TSI was collected.
3. Miscellaneous Materials (MISC) (e.g., floor tile, gaskets, construction mastics, etc.) had a minimum of two samples collected as representative of each homogenous material type. Sampling was conducted in a manner sufficient to determine asbestos content of the homogenous material as determined by the Asbestos Inspector. If materials identified were of (significant) minimal quantity, only a single sample was collected.

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

## 2.2 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	Estimated Quantity	Sample No.
Exterior Roof	Base Tar/Mastic on Wood Deck	6% Chrysotile	1,000 SF	0502BH15A
	Roof Flashing Materials	Assumed	5 SF	Assumed

**Note:** SF=Square Feet

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.
Attic	Paper on Fiberglass Batting Insulation	0502BH01A-B
	Silver Paper Backing on Fiberglass Duct Insulation	0502BH02A-B
Kitchen	Textured Ceiling Paint	0502BH03A-C
Living Room	Sheetrock & Taping Compound	0502BH04A-B, 05A-B, 06
Kitchen	Ceramic Floor Tile & Grout	0502BH07A-B, 08A-B
Exterior Window Systems	Exterior Window Caulking Compounds – Metal & Wood Frames	0502BH09A-B, 10A-B
Exterior	Concrete Block Foundation	0502BH11A-B
	Concrete Block Grout	0502BH12A-B
Exterior	Exterior Roof Shingles	0502BH13A-B, 14A-B <sup>1</sup>

**Note:** <sup>1</sup> To be disposed of as asbestos-contaminated waste

## 2.3 Discussion

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

## 2.4 Conclusions

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 identified non-friable roofing materials 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. All applicable CTDPH regulations shall apply if the roofing material becomes RACM.

Note that materials containing trace amounts of asbestos (less than 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 less than 1% asbestos will be subject to OSHA requirements to determine appropriate worker exposure and training requirements.

**Roof Flashing** –Roof flashing was not identified at the time of the inspection. Roof flashing may exist at chimney, and vent pipe penetrations, and should be assumed to be ACM unless sample collection and analysis indicate otherwise.

Note that since this asbestos inspection was limited, we recommend conducting a supplemental inspection of hidden and inaccessible areas (behind walls/beneath fixed floors, exterior foundation, etc.) prior to demolition/renovation activities. Any suspect material 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 LBP within the Site structure. The testing was performed by EnviroScience's Environmental Technicians Mr. Hobbins and Mr. Cruess on May 2, 2014. The purpose of the testing was for compliance with EPA's Renovation, Repair, and Painting Rule (RRP) located at Title 40 CFR, Parts 745.80 through 92, and the United States (US) Department of Housing and Urban Development (HUD) Lead-Safe Housing Rule (Title 24 CFR, Part 35, Subparts B-R).

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 representative sample collection and analysis using the EPA Toxicity Characteristic Leaching Procedure (TCLP) is required for the anticipated demolition debris prior to off-site disposal.

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

---

### 3.1 XRF Testing Results

The testing indicated consistent painting patterns and trends throughout the building interiors and exteriors. No painted components were determined to contain toxic levels of lead (greater than 1.0 milligrams of lead per square centimeter of paint [mg/cm<sup>2</sup>])

Refer to *Appendix D* for the field lead testing sheets and diagrams.

---

### 3.2 Conclusions

No building components were determined to contain toxic levels of lead. As such, a lead risk assessment and sample collection and TCLP analysis were not conducted.

For purposes of complying with the EPA RRP, a comprehensive lead inspection of the entire structure or targeted areas scheduled for renovation is necessary to determine if the RRP rule is applicable. A Comprehensive Lead Inspection includes testing representative coated surfaces of each building component in each room or room equivalent for lead in paint content. All similar building components to the surface tested on a per room basis shall be considered as having the same paint (e.g., if more than one window or door in a room - typically only one is tested but remaining must be assumed to be the same as the one tested). **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.**

Those surfaces which contain lead paint are subject to RRP work practice and training requirements if more than de-minimus amounts are disturbed in renovation or for projects involving window replacement. Those surfaces which do not contain lead paint are not subject to the RRP requirements. If a specific component or surface is not identified as having been tested it should be presumed to contain lead paint unless tested. Contractor's should be aware that the threshold limit of 1.0 mg/cm<sup>2</sup> for purposes of RRP requirements is not recognized by the Occupational Safety and Health Administration (OSHA) and worker exposures are still subject to the Lead in Construction regulation (Title 29 CFR, Part 1926.62).

## 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 diethylhexyl phthalate (DEHP). DEHP was the primary substitute to replace PCBs for small capacitors in fluorescent lighting



ballasts in use until 1991. DEHP is a toxic substance, a suspected carcinogen and is listed under the EPA Resource Conservation and Recovery Act (RCRA) and the Superfund law as a hazardous waste. Therefore, Superfund liability exists for land filling both PCB and DEHP-containing light ballasts. These listed materials are considered hazardous waste under RCRA, and require special handling and disposal requirements.

On May 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 label indicating "No PCB's" are presumed to be PCB waste, and must be segregated for proper removal, packaging, transport and disposal as PCB waste. Ballasts with date labels indicating manufacture prior to 1991 that indicate "No PCB's" are presumed to contain DEHP and must be segregated for proper removal, packaging, transport, and disposal as non-PCB hazardous waste. The disposal requirements are slightly varied, and costs are slightly less for DEHP than for PCB-containing light ballasts.

---

## 4.1 Results

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

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

---

## 4.2 Conclusions

If the renovation activities will disturb the materials, the ballasts labeled "No PCBs" should properly be recycled as PCB and the remaining ballast labeled "No PCBs" ballasts should be properly recycled as assumed DEHP.

---

# 5 Assessment of Mercury-Containing Devices

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

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

---

## 5.1 Conclusions

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

## 6 Mold Visual Assessment

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

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

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

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

---

## 7.2 Airborne Radon Sampling

From April 30, 2014 to May 2, 2014, EnviroScience representatives set up passive radon detection canisters in limited areas within the dwelling located at 79 Cooper Avenue. The canisters were retrieved at least 48 hours, but not later than 96 hours later. The canisters were supplied by Radon Testing Corporation of America (RTCA).

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

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

---

## 7.3 Airborne Radon Quality Assurance Procedure

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

**Duplicates** are pairs of canisters deployed in the same location, side by side, for the same measurement period. Duplicates are placed in at least ten percent of all sampling locations. These duplicate canisters are stored, deployed, removed, and shipped to the laboratory for analysis in the same manner as the other canisters. If either or both of the analyses in a duplicate pairing is above the EPA recommended action level of 4.0 pCi/L the relative percent difference (RPD) between the two tests must be determined. If the allowable difference is exceeded, the test is determined to be invalid and a new duplicate test must be 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

Four canisters, including one duplicate and one blank, were placed in target locations within the structure during sampling that was performed April 30, 2014 to May 2, 2014. The concentrations of radon in the samples during the assessment were 0.1 pCi/L. The EPA recommended action level for radon is 4.0 pCi/L.

Table 3 lists the locations and analytical results of quality control duplicate tests for April 30, 2014 to May 2, 2014.

**Table 3**  
**Duplicate Samples Results – April 30, 2014 – May 2, 2014**

Location	Canister Numbers	Radon Concentration (pCi/Liter)			Relative Percent Difference (RPD, %)
		Sample	Sample Duplicate	Sample Average	
Living Room	2314032 & 2314634	0.1	0.1	0.1	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 April 30, 2014, to May 2, 2014:

**Table 4**  
**Blank Samples Results – April 30, 2014 – May 2, 2014**

Location	Canister Number	Radon Concentration (pCi/Liter)
Kitchen	2313972	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 on April 30, 2014 to May 2, 2014:

**Table 5**  
**Radon Sampling Results – April 30, 2014 – May 2, 2014**

Location	Canister Numbers	Radon Concentration (pCi/Liter)
Kitchen	2313931	0.1
Living Room	2314634	0.1

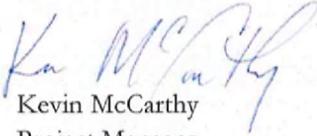
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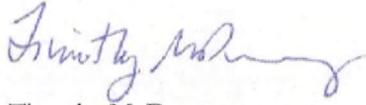
## 7.5 Conclusions

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

Report prepared by Environmental Technician James Blum.

Reviewed by:

  
Kevin McCarthy  
Project Manager

  
Timothy M. Downey  
Senior Project Manager

## **Appendix A**

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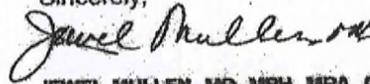
### Fuss & O'Neill EnviroScience State Licenses, Certifications and Accreditations

0001088 FP \*\*PRSR T5 0 0664 06040  
 JOHN R. HOBBS  
 C/O FUSS & O'NEILL ENVIROSCIENCE, LLC  
 146 HARTFORD ROAD  
 MANCHESTER CT 06040

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

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

Sincerely,



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

**INSTRUCTIONS:**

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2. Display the large card in a prominent place in your office or place of business.
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 DEPARTMENT OF PUBLIC HEALTH  
 PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT  
 THE INDIVIDUAL NAMED BELOW IS LICENSED  
 BY THIS DEPARTMENT AS A

**ASBESTOS CONSULTANT-INSPECTOR**

JOHN R. HOBBS

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

*John R. Hobbs*  
 SIGNATURE

*Jewel Mullen*  
 COMMISSIONER

EMPLOYER'S COPY

**STATE OF CONNECTICUT**  
 DEPARTMENT OF PUBLIC HEALTH

NAME  
**JOHN R. HOBBS**

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

PROFESSION  
 ASBESTOS CONSULTANT-INSPECTOR

*John R. Hobbs* *Jewel Mullen*  
 SIGNATURE COMMISSIONER

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**STATE OF CONNECTICUT**  
 DEPARTMENT OF PUBLIC HEALTH

NAME  
**JOHN R. HOBBS**

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

PROFESSION  
 ASBESTOS CONSULTANT-INSPECTOR

*John R. Hobbs* *Jewel Mullen*  
 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*  
John Rowinski, Principal Instructor

September 4, 2013  
Date of Course

September 4, 2013; B  
Examination Date & Grade

*Robert L. Mosy, Jr.*  
Robert L. Mosy, Jr., Training Manager

AI-R-09/13-6  
Certificate Number

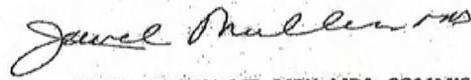
September 4, 2014  
Expiration Date

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

Dear Licensed/Certified Professional,  
 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 CERTIFIED  
 BY THIS DEPARTMENT AS A  
 Lead Inspector

John R. Hobbins

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

*Jewel Mullen*  
 COMMISSIONER

**EMPLOYER'S COPY**  
**STATE OF CONNECTICUT**  
 DEPARTMENT OF PUBLIC HEALTH

NAME John R. Hobbins

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

Lead Inspector

*Jewel Mullen*  
 COMMISSIONER

**WALLET CARD**  
**STATE OF CONNECTICUT**  
 DEPARTMENT OF PUBLIC HEALTH

NAME John R. Hobbins

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

Lead Inspector

*Jewel Mullen*  
 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 S. Freuden*  
Principal Instructor: Neal Freuden

January 30, 2014  
Date of Course

CTLIR-205  
Certificate Number

January 30, 2014  
Exam Date

January 30, 2015  
Expiration Date

*Gregory J. Morsch*  
Training Manager: Gregory Morsch

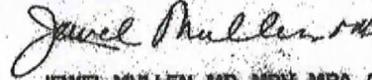
Training received complies with the requirements of the  
Connecticut Department of Public Health pursuant to Section  
477 of the Connecticut General Statutes.

0001667 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:

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

Sincerely,



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

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**STATE OF CONNECTICUT**  
 DEPARTMENT OF PUBLIC HEALTH

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

**ASBESTOS CONSULTANT-INSPECTOR**

THOMAS M. CRUESS

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

 SIGNATURE

 COMMISSIONER

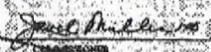
EMPLOYER'S COPY

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 DEPARTMENT OF PUBLIC HEALTH

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

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 ASBESTOS CONSULTANT-INSPECTOR

 SIGNATURE

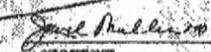
WALLET CARD

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 DEPARTMENT OF PUBLIC HEALTH

NAME  
 THOMAS M. CRUESS

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

PROFESSION  
 ASBESTOS CONSULTANT-INSPECTOR

 SIGNATURE

# 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 R. Rovinski*  
John Rovinski, Principal Instructor

September 4, 2013

Date of Course

September 4, 2013; A

Examination Date & Grade

*Robert L. May, Jr.*  
Robert L. May, Jr., Training Manager

AFR-09/13-5

Certificate Number

September 4, 2014

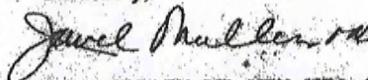
Expiration Date

0001569 FP \*\*PRSR TO 0 1564 06040  
 THOMAS M CRUOSS  
 146 HARTFORD RD  
 MANCHESTER CT 06040-5992

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

Sincerely,



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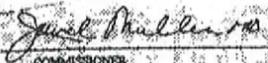
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 DEPARTMENT OF PUBLIC HEALTH

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

**LEAD INSPECTOR**

THOMAS M CRUOSS

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

SIGNATURE COMMISSIONER

EMPLOYER'S COPY

**STATE OF CONNECTICUT**  
 DEPARTMENT OF PUBLIC HEALTH

NAME  
 THOMAS M CRUOSS

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

PROFESSION  
 LEAD INSPECTOR



SIGNATURE COMMISSIONER

WALLET CARD

**STATE OF CONNECTICUT**  
 DEPARTMENT OF PUBLIC HEALTH

NAME  
 THOMAS M CRUOSS

VALIDATION NO. 03-681434  
 CERTIFICATION NO. 002208  
 CURRENT THROUGH 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*

February 20 & 25, 2014

*Date of Course*

February 25, 2014

*Examination Date*



*Robert L. May, Jr., Training Manager*

LIRA-R-02/14-5

*Certificate Number*

February 25, 2015

*Expiration Date*

## Appendix B

---

### Asbestos Sample Results and Chain of Custody Forms



30

041412134



**FUSS & O'NEILL**  
EnviroScience, LLC

www.fando.com

146 Hartford Road, Manchester, CT 06040

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

### SAMPLE LOG FOR ASBESTOS BULKLS

Sheet 1 of 2

Project Name: Storm Sandy Residential Rehab-79 Cooper Ave, Milford, CT Project No. 20140277.B5E

Building: 79 Cooper Ave Project Manager: K. McCarthy

Sample ID	Sample Location	Material	Result (%)
0502BH01A	Attic	Paper Backing on Fiberglass Batt Insulation	
0502BH01B	Attic	Paper Backing on Fiberglass Batt Insulation	
0502BH02A	Attic	Silver Paper Backing on Fiberglass Duct Insulation	
0502BH02B	Attic	Silver Paper Backing on Fiberglass Duct Insulation	
0502BH03A	Kitchen	Textured Ceiling Paint	
0502BH03B	Kitchen	Textured Ceiling Paint	
0502BH03C	Kitchen	Textured Ceiling Paint	
0502BH04A	Living Room	Sheetrock	
0502BH04B	Living Room	Sheetrock	
0502BH05A	Living Room	Taping Compound	
0502BH05B	Living Room	Taping Compound	
0502BH06	Living Room	Sheetrock & Taping Compound Composite	
0502BH07A	Kitchen	Ceramic Floor Tile	
0502BH07B	Kitchen	Ceramic Floor Tile	
0502BH08A	Kitchen	Ceramic Floor Tile Grout	

RECEIVED  
 EMSL  
 CINNAMINSON, NJ  
 2014 MAY - 3 10:00 AM

Analysis Method:  PLM  Other

Turnaround Time 24 hour

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: \_\_\_\_\_. Please call the EnviroScience Laboratory if analyses will be late at (860) 646-2469.

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

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

Samples collected by: B. Hoffmann Date: 5-2-14 Time: \_\_\_\_\_

Samples [Rec'd][Sent by] [ BA ] Date: [ 5-2-14 ] Time: \_\_\_\_\_

Samples Received by: RD Date: 5-3-2014 Time: 10:00 AM

Shipped To:  EMSL State NJ  Other \_\_\_\_\_

Method of Shipment:  FedEx  Other \_\_\_\_\_



**FUSS & O'NEILL**  
EnviroScience, LLC

041412134

www.fando.com

146 Hartford Road, Manchester, CT 06040

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

**SAMPLE LOG FOR ASBESTOS BULKS**

Sheet 2 of 2

Project Name: Storm Sandy Residential Rehab-79 Cooper Ave, Milford, CT Project No. 20140277.B5E

Building: 79 Cooper Ave Project Manager: K. McCarthy

Sample ID	Sample Location	Material	Result (%)
0502BH08B	Kitchen	Ceramic Floor Tile Grout	
0502BH09A	Exterior Window Systems	Exterior Window Caulking Compounds-Metal Frame	
0502BH09B	Exterior Window Systems	Exterior Window Caulking Compounds-Metal Frame	
0502BH10A	Exterior Window Systems	Exterior Window Caulking Compounds-Wood Frame	
0502BH10B	Exterior Window Systems	Exterior Window Caulking Compounds-Wood Frame	
0502BH11A	Exterior of Building	Concrete Block Foundation	
0502BH11B	Exterior of Building	Concrete Block Foundation	
0502BH12A	Exterior of Building	Concrete Block Grout	
0502BH12B	Exterior of Building	Concrete Block Grout	
0502BH13A	Exterior Roof	Top Layer Roof Shingle	
0502BH13B	Exterior Roof	Top Layer Roof Shingle	
0502BH14A	Exterior Roof	Bottom Layer Roof Shingle	
0502BH14B	Exterior Roof	Bottom Layer Roof Shingle	
0502BH15A	Exterior Roof	Base Tar/Mastic on Wood Deck	
0502BH15B	Exterior Roof	Base Tar/Mastic on Wood Deck	

RECEIVED  
 EMSL  
 CINNAMINSON, NJ  
 2014 MAY - 3 10:00

Analysis Method:  PLM  Other Turnaround Time 24 hour

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: \_\_\_\_\_. Please call the EnviroScience Laboratory if analyses will be late at (860) 646-2469.

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

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

Samples collected by: [Signature] Date: 5-2-14 Time: \_\_\_\_\_

Samples [Rec'd][Sent by] [ BA ] Date: [ 5-2-14 ] Time: \_\_\_\_\_

Samples Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Shipped To:  EMSL State NJ  Other \_\_\_\_\_

Method of Shipment:  FedEx  Other \_\_\_\_\_

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077  
 Phone/Fax: (800) 220-3875 / (856) 786-5974  
<http://www.EMSL.com> [cinnaslab@EMSL.com](mailto:cinnaslab@EMSL.com)

EMSL Order: 041412134  
 CustomerID: ENV154  
 CustomerPO: 20140277.B5E  
 ProjectID:

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

Phone: (860) 646-2469  
 Fax: (888) 838-1160  
 Received: 05/03/14 10:00 AM  
 Analysis Date: 5/5/2014  
 Collected:

Project: **STORM SANDY RESIDENTIAL REHAB- 79 COOPER AVE, MILFORD, CT/ 20140277.B5E**

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0502BH01A 041412134-0001	ATTIC - PAPER BACKING ON FIBERGLASS BATT INSULATION	Tan/Black Fibrous Homogeneous	70% Cellulose 10% Glass	20% Non-fibrous (other)	None Detected
0502BH01B 041412134-0002	ATTIC - PAPER BACKING ON FIBERGLASS BATT INSULATION	Brown/Black Fibrous Heterogeneous	80% Cellulose 5% Glass	15% Non-fibrous (other)	None Detected
0502BH02A 041412134-0003	ATTIC - SILVER PAPER BACKING ON FIBERGLASS DUCT INSULATION	Silver Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0502BH02B 041412134-0004	ATTIC - SILVER PAPER BACKING ON FIBERGLASS DUCT INSULATION	Silver Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0502BH03A 041412134-0005	KITCHEN - TEXTURED CEILING PAINT	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0502BH03B 041412134-0006	KITCHEN - TEXTURED CEILING PAINT	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

## Analyst(s)

Frank Dicrescenzo (1)      Thomas Schwab (15)  
 Jamie Marczak (13)

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 05/05/2014 07:29:43

**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](mailto:cinnaslab@EMSL.com)

EMSL Order: 041412134  
 CustomerID: ENVI54  
 CustomerPO: 20140277.B5E  
 ProjectID:

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

Phone: (860) 646-2469  
 Fax: (888) 838-1160  
 Received: 05/03/14 10:00 AM  
 Analysis Date: 5/5/2014  
 Collected:

Project: **STORM SANDY RESIDENTIAL REHAB- 79 COOPER AVE, MILFORD, CT/ 20140277.B5E**

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0502BH03C 041412134-0007	KITCHEN - TEXTURED CEILING PAINT	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0502BH04A 041412134-0008	LIVING ROOM - SHEETROCK	Gray/White Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
0502BH04B 041412134-0009	LIVING ROOM - SHEETROCK	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0502BH05A 041412134-0010	LIVING ROOM - TAPING COMPOUND	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0502BH05B 041412134-0011	LIVING ROOM - TAPING COMPOUND	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0502BH06 041412134-0012	LIVING ROOM - SHEETROCK & TAPING COMPOUND	Gray/White Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
0502BH07A 041412134-0013	KITCHEN - CERAMIC FLOOR TILE	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0502BH07B 041412134-0014	KITCHEN - CERAMIC FLOOR TILE	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

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 Jamie Marczak (13)

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

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

EMSL Order: 041412134  
CustomerID: ENVI54  
CustomerPO: 20140277.B5E  
ProjectID:

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

Phone: (860) 646-2469  
Fax: (888) 838-1160  
Received: 05/03/14 10:00 AM  
Analysis Date: 5/5/2014  
Collected:

Project: **STORM SANDY RESIDENTIAL REHAB- 79 COOPER AVE, MILFORD, CT/ 20140277.B5E**

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0502BH08A 041412134-0015	KITCHEN - CERAMIC FLOOR TILE GROUT	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0502BH08B 041412134-0016	KITCHEN - CERAMIC FLOOR TILE GROUT	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0502BH09A 041412134-0017	EXTERIOR WINDOW SYSTEM - EXTERIOR WINDOW CAULKING COMPOUNDS- METAL FRAME	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0502BH09B 041412134-0018	EXTERIOR WINDOW SYSTEM - EXTERIOR WINDOW CAULKING COMPOUNDS- METAL FRAME	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0502BH10A 041412134-0019	EXTERIOR WINDOW SYSTEM - EXTERIOR WINDOW CAULKING COMPOUNDS- WOOD FRAME	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

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Jamie Marczak (13)

Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

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200 Route 130 North, Cinnaminson, NJ 08077  
 Phone/Fax: (800) 220-3675 / (856) 786-5974  
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Project: **STORM SANDY RESIDENTIAL REHAB- 79 COOPER AVE, MILFORD, CT/ 20140277.B5E**

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0502BH10B 041412134-0020	EXTERIOR WINDOW SYSTEM - EXTERIOR WINDOW CAULKING COMPOUNDS- WOOD FRAME	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0502BH11A 041412134-0021	EXTERIOR OF BUILDING - CONCRETE BLOCK FOUNDATION	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0502BH11B 041412134-0022	EXTERIOR OF BUILDING - CONCRETE BLOCK FOUNDATION	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0502BH12A 041412134-0023	EXTERIOR OF BUILDING - CONCRETE BLOCK GROUT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0502BH12B 041412134-0024	EXTERIOR OF BUILDING - CONCRETE BLOCK GROUT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0502BH13A 041412134-0025	EXTERIOR ROOF - TOP LAYER ROOF SHINGLE	Brown/Black Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (other)	None Detected

Analyst(s)

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 Jamie Marczak (13)

Stephen Siegel, CIH, Laboratory Manager  
 or other approved signatory

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 Phone/Fax: (800) 220-3675 / (856) 788-5974  
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### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0502BH13B 041412134-0026	EXTERIOR ROOF - TOP LAYER ROOF SHINGLE	Brown/Black Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
0502BH14A 041412134-0027	EXTERIOR ROOF - BOTTOM LAYER ROOF SHINGLE	Black Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (other)	None Detected
0502BH14B 041412134-0028	EXTERIOR ROOF - BOTTOM LAYER ROOF SHINGLE	Black Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
0502BH15A 041412134-0029	EXTERIOR ROOF - BASE TAR/ MASTIC ON WOOD DECK	Black Non-Fibrous Homogeneous		94% Non-fibrous (other)	6% Chrysotile
041412134-0030	EXTERIOR ROOF - BASE TAR/ MASTIC ON WOOD DECK				Stop Positive (Not Analyzed)

## Analyst(s)

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 Jamie Marczak (13)

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## Appendix C

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### Lead Paint Testing Procedures and Equipment



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

### Testing Procedures and Equipment

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

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

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

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

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

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



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

Radiation Monitoring Device LPA Analyzer 1

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

Quick Mode Reading Description	Substrate	Threshold (mg/cm <sup>2</sup> )	Inconclusive Range (mg/cm <sup>2</sup> )
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.

## Appendix D

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### Lead Testing Field Data Sheets



## LEAD INSPECTION COVER SHEET

### Inspector's Information

Inspector's Name: Robert Hobbins License Number: 2156  
 XRF Model: LPA-1 Serial Number: 3241R  
 Date of Inspection: May 2, 2014 Project Number: 20140277.B5E

### Property Information

Building Address: 79 Cooper Avenue  
 \_\_\_\_\_ (Street)  
Milford CT Age of Property: N/A  
 \_\_\_\_\_ (City) \_\_\_\_\_ (State)

Describe Structure: One-story structure with wood exterior siding and wood/metal exterior windows. Interior consists mainly of sheetrock and taping compounds and wood/metal window systems.

- 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

Multiple Family Dwelling

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

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

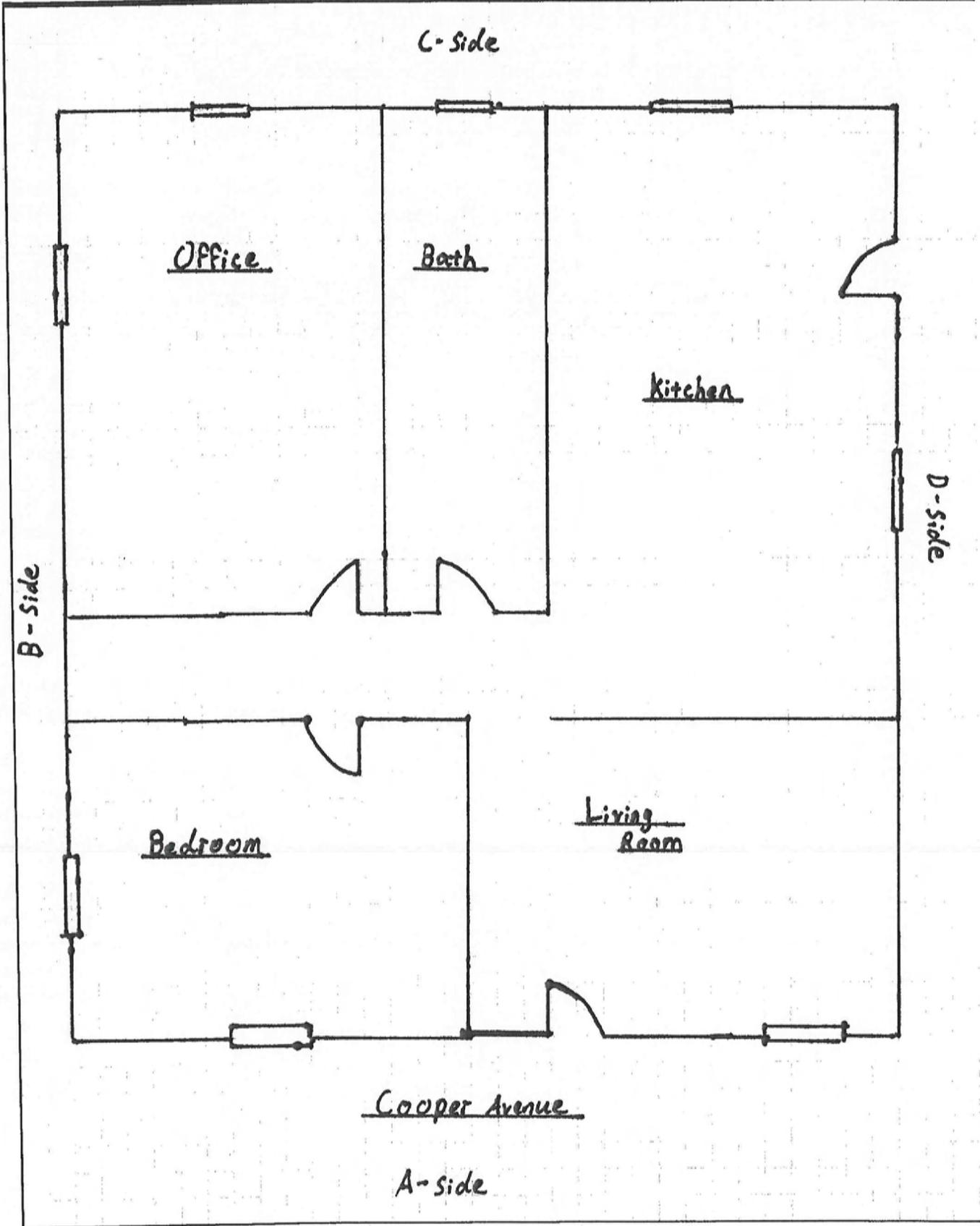
- Calibration Paint Film Used:  NIST 1.02 mg/cm<sup>2</sup>  Manufacturer's Standard 1.0 mg/cm<sup>2</sup>  
 Calibration Check Limits Used:  RMD (0.7 to 1.3 mg/cm<sup>2</sup> inclusive)  
 Scitec MAP4 (0.6 to 1.2 mg/cm<sup>2</sup> inclusive)

	Hour	First Reading	Second Reading	Third Reading	Average
First Check	0800	1.0	1.1	1.1	1.06
Second Check	1100	1.1	1.1	1.1	1.1
Third Check					
Fourth Check					



FUSS & O'NEILL

Prepared By	Date	Checked By	Date	Project No
				Sheet No of





**XRF FIELD DATA SHEET - EXTERIOR**

Address: 79 Cooper Avenue, Milford, CT

Page 1 of 8

Project Name: 79 Cooper Avenue

Project Number: 20140277.B5E

Project Manager: K. McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
A	Door	-0.3		m					
A	DJ	-0.2		w					
	DT	-0.2		w					
	Siding	-0.2		w					
	Window Trim	-0.4		w					
	Sill	0.1		w					
	Door Kick Pl.	-0.2		w					
	Down Spout	-0.3		m					
	Upper Trim	0.2		w					
	GUTTER	-0.0		m					
B	Siding	-0.2		w					
	Window Trim	-0.1		w/m					
	Sill	0.4		w/m					
	Sash	-0.3		m					
	Upper Trim	0.1		w					
C	Siding	-0.2		w					
	Window Trim	-0.3		m/w					
	Sill	-0.2		m/w					
	Door	-0.0		m					
	DT	-0.2		w					
	DJ	0.1		w					
	Kick	-0.1		w					
	Upper Trim	-0.2		w					
	<del>GUTTER</del>	<del>-0.3</del>		<del>m</del>					
D	GUTTER	-0.3		m					
	Siding	-0.1		w					
	Downspout	0.0		m					
	Window Trim	-0.2		w					Bay Window - Kitchen
	Trim	-0.1		w					BATH
	Trim	0.2		m/w					OFFICE
	Sill	-0.0		m/w					I





**XRF FIELD DATA SHEET – INTERIOR ROOM**

Address: 79 Cooper Avenue, Milford, CT

Apt. #: \_\_\_\_\_

Floor: Kitchen main Room: \_\_\_\_\_

Page 3 of 8

Project Name: 79 Cooper Avenue

Project Number: 20140277.B5E

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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor	-0.6		CT					
	Baseboards								
A	Wall	-0.4		SR					
B	Wall	-0.5		BR					
C	Wall	-0.1		SR					
D	Wall	-0.2		SR					
	Chair rail								
	Ceiling	-0.1		SR					
	Crown Molding								
	Door								
	Casing								
	Jamb								
	Door	-0.2		M					
	Casing	-0.1		W					
	Jamb	-0.2		W					
	Window Trim	-0.2		W					
	Sill	-0.0		W					
	Sash NP								Fast. Vinyl
	Well								
	Cabinet Base								
	Door Exterior	-0.2		W					Particle Board - emmited
	Door Interior	-0.2		W					↓
	Walls								
	Shelves	-0.1		W					
	Shelf Supports								
	Closet Shelf								
	Shelf Supports								
	Radiator								
	Wall Molding								wood panel
A	Wall	-0.4		W					↓
D	Wall	-0.5		W					

Notes: \_\_\_\_\_



**XRF FIELD DATA SHEET - INTERIOR ROOM**

Address: 79 Cooper Avenue, Milford, CT

Apt. #: \_\_\_\_\_

Floor: 4th Room: Living Room

Page 4 of 8

Project Name: 79 Cooper Avenue Project Number: 20140277.B5E

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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								Carpet
	Baseboards	-0.2		W					
A	Wall	-0.3		SR					
B	Wall	-0.3		SR					
C	Wall	-0.5		SR					
D	Wall	-0.6		SR					
	Chair rail								
	Ceiling	-0.3		SR					
	Crown Molding	-0.1		W					
	Door	-0.6		M					
	Casing	0.0		W					
	Jamb	-0.1		W					
	Door								
	Casing								
	Jamb								
	Window Trim	0.2		W					
	Sill	-0.1		W					
	Sash <i>PC</i>								Frict. Coat - NP
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf								
	Shelf Supports								
	Radiator								
	Wall Molding								
	Window sill	-0.3		W					Bay window
	Window Trim	-0.1		W					

Notes: \_\_\_\_\_





**XRF FIELD DATA SHEET - INTERIOR ROOM**

Address: 79 Cooper Avenue, Milford, CT

Apt. #: \_\_\_\_\_

Floor: Main Room: Ball

Page 6 of 8

Project Name: 79 Cooper Avenue

Project Number: 20140277.B5E

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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor	0.9		CT					
	Baseboards								
A	Wall	0.2		CT					ceramic
B	Wall	-0.3		CT					
C	Wall	-0.2		CT					
D	Wall	-0.4		CT					
	Chair rail								
	Ceiling	-0.3		SR					
	Crown Molding								
	Door								
	Casing								
	Jamb								
	Door	-0.4		W					
	Casing	-0.1		W					
	Jamb	-0.1		W					
	Window Trim	0.1		W					
	Sill								
	Sash	-0.5		V.					
	Well								
	Cabinet Base	-0.3		W					
	Door Exterior	-0.3		W					
	Door Interior	-0.2		W					
	Walls	-0.1		W					
	Shelves								
	Shelf Supports								
	Closet Shelf								
	Shelf Supports								
	Radiator								
	Wall Molding								
A	Wall	-0.5		SR					
B	Wall	-0.3		SR					
D	Wall	-0.2		SR					

Notes: \_\_\_\_\_



**XRF FIELD DATA SHEET - INTERIOR ROOM**

Address: 79 Cooper Avenue, Milford, CT

Apt. #: \_\_\_\_\_

Floor: main

Room: Bedroom

Page 7 of 8

Project Name: 79 Cooper Avenue

Project Number: 20140277.B5E

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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards	-0.1		W					
A	Wall	-0.5		SR					
B	Wall	-0.3							
C	Wall	-0.5							
D	Wall	-0.3							
	Chair rail								
	Ceiling	-0.3		SR					
	Crown Molding	-0.3		W					
	Door	-0.2		W					
	Casing	-0.1		W					
	Jamb	-0.0		W					
	Door	-0.1		W					Lower
	Casing	-0.1		W					
	Jamb	-0.2		W					
	Window Trim	0.0		W					
	Sill	-0.2		W					
	<del>Sash</del> NP								
	<del>Well</del>								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf								
	Shelf Supports								
	Radiator								
	Wall Molding								
	Door Trim	-0.1		W					Closet side
	Door	-0.1		W					
	Jamb	-0.2		W					
D	Wall	0.1		SR					
C	Wall	-0.1		SR					
B	Wall	-0.3		SR					

Notes:



**XRF FIELD DATA SHEET - INTERIOR ROOM**

Address: 79 Cooper Avenue, Milford, CT

Apt. #: \_\_\_\_\_

Floor: Main

Room: OFFICE

Page 8 of 8

Project Name: 79 Cooper Avenue

Project Number: 20140277.B5E

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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards	0.0		W					
A	Wall	-0.2		SR					
B	Wall	-0.6							
C	Wall	-0.3							
D	Wall	-0.4							
	Chair rail								
	Ceiling	-0.2		SR					
	Crown Molding	0.1		W					
	Door	-0.3		W					
	Casing	-0.0		W					
	Jamb	-0.1		W					
	Door	-0.3		W					Lower
	Casing	0.0		W					
	Jamb	0.0		W					
	Window Trim	-0.3		W					
	Sill	-0.6		W					
	<del>Sash</del>								
	<del>Well</del>								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf								
	Shelf Supports								
	Radiator								
	Wall Molding								
A	WALL	0.3		SR					Closet
D	WALL	-0.4		SR					
C	WALL	0.3		SR					
	Door	-0.0		W					INSIDE

Notes: \_\_\_\_\_

## Appendix E

---

### Airborne Radon Gas Assessment Results and Chain of Custody Form



Site Radon Inspection Report

Date : 5/5/2014

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

Client: Unknown  
Test Location 79 Cooper Avenue  
Project # 20140277.B5E  
Milford, CT 06460-

Individual Canister Results

Canister ID# : 2313931  
Canister Type : Charcoal Canister 3 inch  
Location : Kitchen  
Radon Level : **0.1 pCi/L**  
Error for Measurement is:  $\pm$  0.6 pCi/L

Test Start : 04/30/2014 @ 09:10  
Test Stop : 05/02/2014 @ 09:41  
Received: 05/05/2014 @ 09:35  
Analyzed: 05/05/2014 @ 14:17

Canister ID# : 2313972  
Canister Type : Charcoal Canister 3 inch  
Location : Kitchen - B  
Radon Level : **0.1 pCi/L**  
Error for Measurement is:  $\pm$  0.2 pCi/L

Test Start : 04/30/2014 @ 09:10  
Test Stop : 05/02/2014 @ 09:41  
Received: 05/05/2014 @ 09:35  
Analyzed: 05/05/2014 @ 14:17

Canister ID# : 2314032  
Canister Type : Charcoal Canister 3 inch  
Location : Living room - D  
Radon Level : **0.1 pCi/L**  
Error for Measurement is:  $\pm$  0.2 pCi/L

Test Start : 04/30/2014 @ 09:07  
Test Stop : 05/02/2014 @ 09:39  
Received: 05/05/2014 @ 09:35  
Analyzed: 05/05/2014 @ 14:17

Canister ID# : 2314634  
Canister Type : Charcoal Canister 3 inch  
Location : Living room  
Radon Level : **0.1 pCi/L**  
Error for Measurement is:  $\pm$  0.7 pCi/L

Test Start : 04/30/2014 @ 09:07  
Test Stop : 05/02/2014 @ 09:39  
Received: 05/05/2014 @ 09:35  
Analyzed: 05/05/2014 @ 14:17



*Andreas C. George*  
Andreas C. George  
Radon Measurement Specialist  
NJ MES 11089

*Dante Galan*  
Dante Galan  
Laboratory Director

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

Site Radon Inspection Report

Date : 5/5/2014

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](http://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](http://www.epa.gov/iaq/radon).

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

**For New York clients:** If the radon level of one or more testing devices is equal to or exceeds 20 pCi/L please contact the New York State Department of Health, Bureau of Environmental Radiation Protection, for technical advice and assistance at 518-402-7556 or toll free 1-800-458-1158.

---

**PLEDGE OF ASSURED QUALITY**

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



*Andreas C. George*

Andreas C. George  
Radon Measurement Specialist  
NJ MES 11089

*Dante Galan*

Dante Galan  
Laboratory Director

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



5/5/14

ENVIII

DE

**Radon Testing Summary Sheet**

Contact/Phone #: Bob Hobbins/203-374-3748 x3526  
 Project #: 20140277.B5E  
 Building: 79 Cooper Avenue  
 Address: 79 Cooper Avenue  
Milford, CT 06460

Placed by: B. Hobbins  
 Retrieved by: B. Hobbins  
 Start Date: 4-30-14  
 Stop Date: 5-2-14  
 Weather at Placement: rain, 40°

email results to [kmccarthy@fando.com](mailto: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 in space**

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM  
2314634

REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS  
2314634

Client \_\_\_\_\_

RADON TESTING CORP. OF AMERICA

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM  
2313931

REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS  
2313931

Client \_\_\_\_\_

RADON TESTING CORP. OF AMERICA

provided for that detector (room #, location in room). The additional sheets as necessary. Please  
 detector is missing or damaged

Start Time: 9:07  
 Stop Time: \_\_\_\_\_  
 Identifier: 9:39

Living Room

Start Time: 9:10  
 Stop Time: 9:41  
 Identifier: \_\_\_\_\_

Kitchen

Start Time: \_\_\_\_\_  
 Stop Time: \_\_\_\_\_  
 Identifier: \_\_\_\_\_

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM  
2314032

REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS  
2314032

Client \_\_\_\_\_

RADON TESTING CORP. OF AMERICA

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM  
2313972

REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS  
2313972

Client \_\_\_\_\_

RADON TESTING CORP. OF AMERICA

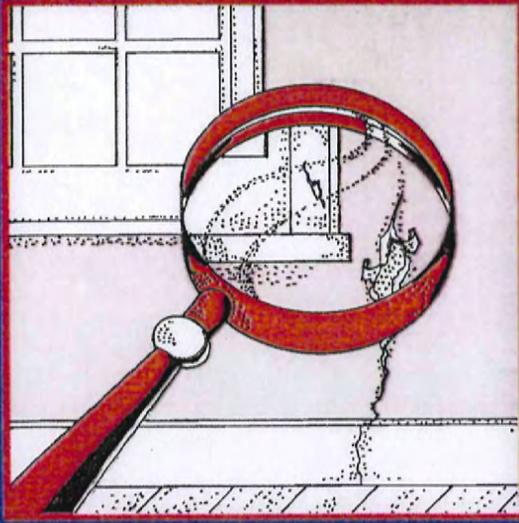
Start Time: 9:07  
 Stop Time: \_\_\_\_\_  
 Identifier: 9:39

Living Room - D

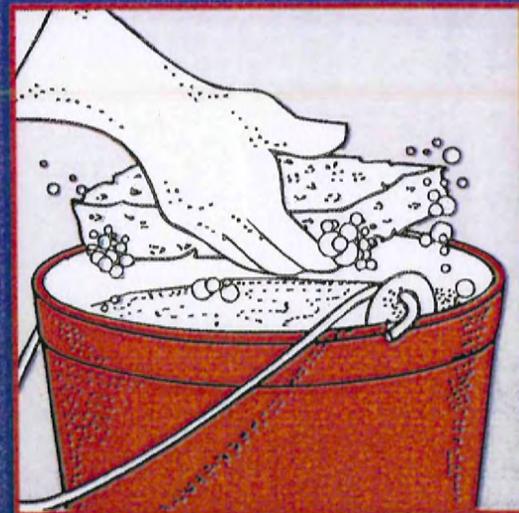
Start Time: \_\_\_\_\_  
 Stop Time: \_\_\_\_\_  
 Identifier: \_\_\_\_\_

Kitchen - B

Start Time: \_\_\_\_\_  
 Stop Time: \_\_\_\_\_  
 Identifier: \_\_\_\_\_



# Protect Your Family From Lead In Your Home



 **EPA** United States  
Environmental  
Protection Agency



United States  
Consumer Product  
Safety Commission



United States  
Department of Housing  
and Urban Development

# Simple Steps To Protect Your Family From Lead Hazards

## **If you think your home has high levels of lead:**

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



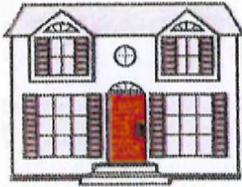
**Recycled/Recyclable**

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

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

---

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



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

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



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



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



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

# IMPORTANT!

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

- FACT:** Lead exposure can harm young children and babies even before they are born.
- FACT:** Even children who seem healthy can have high levels of lead in their bodies.
- FACT:** People can get lead in their bodies by breathing or swallowing lead dust, or by eating soil or paint chips containing lead.
- FACT:** People have many options for reducing lead hazards. In most cases, lead-based paint that is in good condition is not a hazard.
- FACT:** Removing lead-based paint improperly can increase the danger to your family.

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

## Lead Gets in the Body in Many Ways

---

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

---

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

---

**People can get lead in their body if they:**

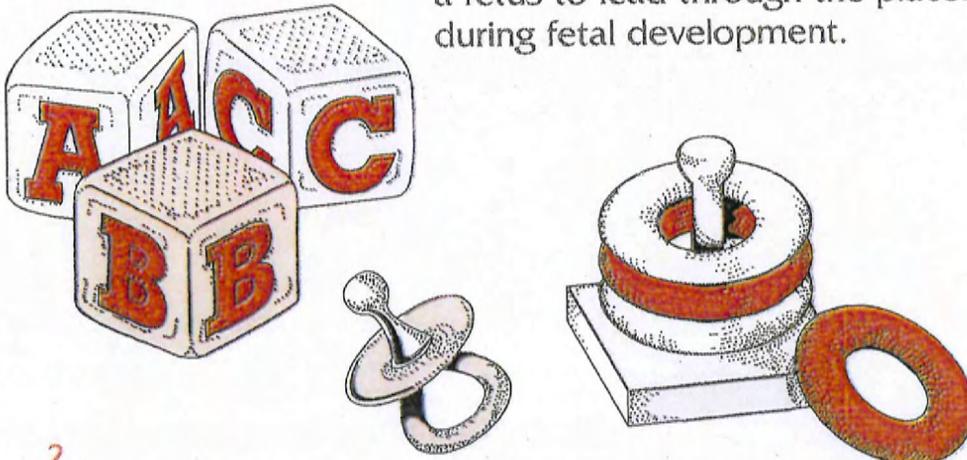
- ◆ Breathe in lead dust (especially during renovations that disturb painted surfaces).
- ◆ Put their hands or other objects covered with lead dust in their mouths.
- ◆ Eat paint chips or soil that contains lead.

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

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

**Lead is also dangerous to women of childbearing age:**

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



## Lead's Effects

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

### In children, lead can cause:

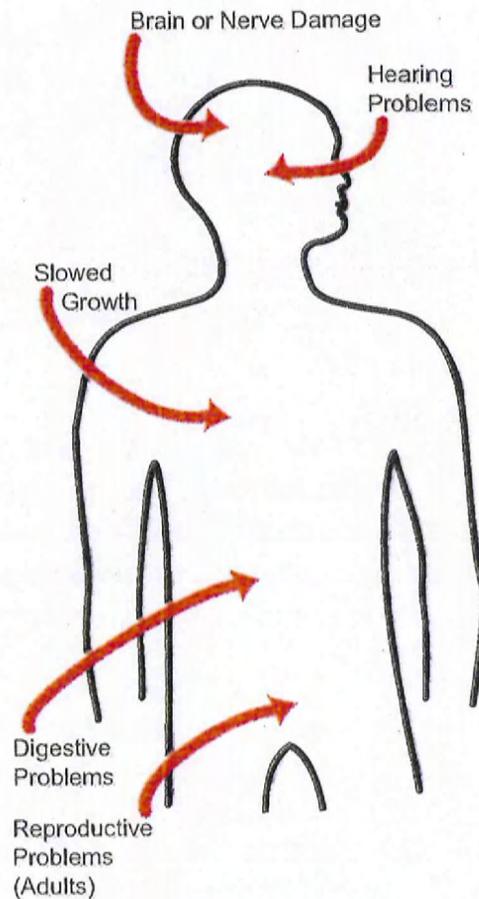
- ◆ Nervous system and kidney damage.
- ◆ Learning disabilities, attention deficit disorder, and decreased intelligence.
- ◆ Speech, language, and behavior problems.
- ◆ Poor muscle coordination.
- ◆ Decreased muscle and bone growth.
- ◆ Hearing damage.

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

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

### In adults, lead can cause:

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



---

**Lead affects  
the body in  
many ways.**

---

## Where Lead-Based Paint Is Found

---

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

---

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

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

## Checking Your Family for Lead

---

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

---

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

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

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

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

## Identifying Lead Hazards

---

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

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

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

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

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

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

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

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

---

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

---

## Checking Your Home for Lead

---

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

---



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

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

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

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

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

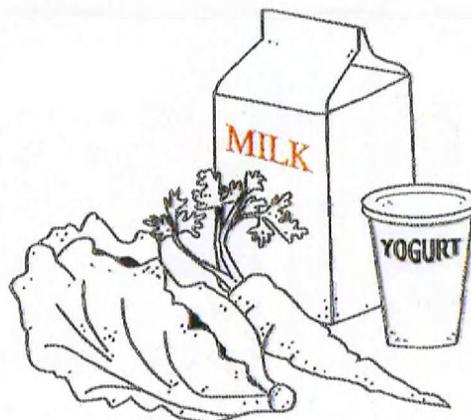
**Home test kits for lead are available, but may not always be accurate.** Consumers should not rely on these kits before doing renovations or to assure safety.

## What You Can Do Now To Protect Your Family

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

- ◆ If you rent, notify your landlord of peeling or chipping paint.
- ◆ Clean up paint chips immediately.
- ◆ Clean floors, window frames, window sills, and other surfaces weekly. Use a mop or sponge with warm water and a general all-purpose cleaner or a cleaner made specifically for lead. REMEMBER: NEVER MIX AMMONIA AND BLEACH PRODUCTS TOGETHER SINCE THEY CAN FORM A DANGEROUS GAS.
- ◆ Thoroughly rinse sponges and mop heads after cleaning dirty or dusty areas.
- ◆ Wash children's hands often, especially before they eat and before nap time and bed time.
- ◆ Keep play areas clean. Wash bottles, pacifiers, toys, and stuffed animals regularly.
- ◆ Keep children from chewing window sills or other painted surfaces.
- ◆ Clean or remove shoes before entering your home to avoid tracking in lead from soil.
- ◆ Make sure children eat nutritious, low-fat meals high in iron and calcium, such as spinach and dairy products. Children with good diets absorb less lead.

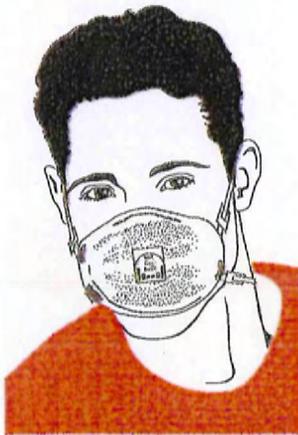


## Reducing Lead Hazards In The Home

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

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



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

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

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

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

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

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

## Remodeling or Renovating a Home With Lead-Based Paint

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

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

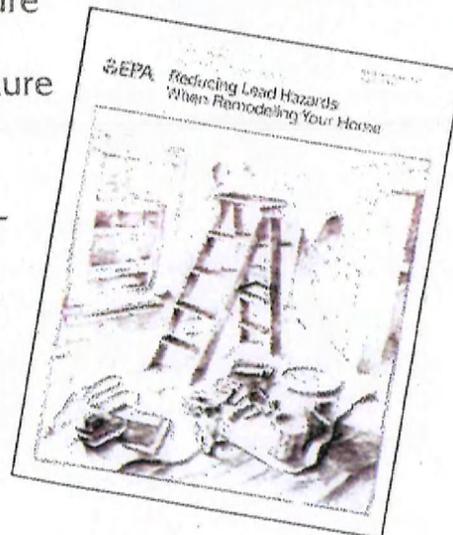
If you have already completed renovations or remodeling that could have released lead-based paint or dust, get your young children tested and follow the steps outlined on page 7 of this brochure.



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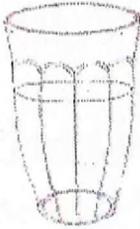
**If not conducted properly, certain types of renovations can release lead from paint and dust into the air.**

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## Other Sources of Lead

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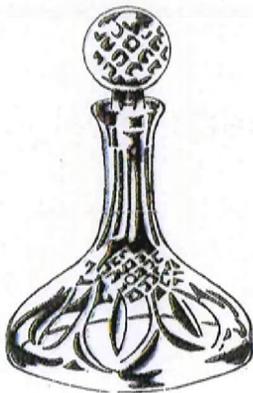


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While paint, dust, and soil are the most common sources of lead, other lead sources also exist.

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



## For More Information

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### The National Lead Information Center

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

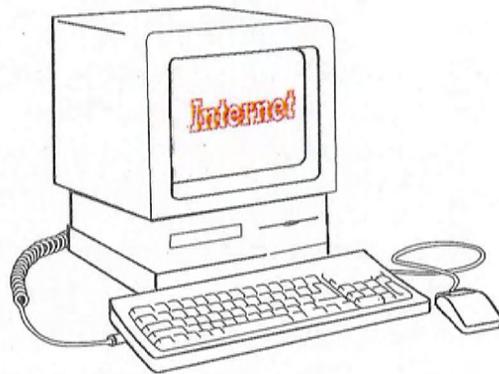


### EPA's Safe Drinking Water Hotline

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

### Consumer Product Safety Commission (CPSC) Hotline

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



### Health and Environmental Agencies

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

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

## EPA Regional Offices

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

### EPA Regional Offices

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

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

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

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

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

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

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

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

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

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

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

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

**Region 7** (Iowa, Kansas, Missouri, Nebraska)

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

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

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

**Region 9** (Arizona, California, Hawaii, Nevada)

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

**Region 10** (Alaska, Idaho, Oregon, Washington)

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

## CPSC Regional Offices

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

### **Eastern Regional Center**

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

### **Western Regional Center**

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

### **Central Regional Center**

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

## HUD Lead Office

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

### **U.S. Department of Housing and Urban Development**

Office of Healthy Homes and Lead Hazard Control  
451 Seventh Street, SW, P-3206  
Washington, DC 20410  
(202) 755-1785

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

EPA747-K-99-001  
June 2003

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

**Lead Warning Statement**

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

**Lessor's Disclosure**

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

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

\_\_\_\_\_

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

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

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

\_\_\_\_\_

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

**Lessee's Acknowledgment (initial)**

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

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

**Agent's Acknowledgment (initial)**

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

**Certification of Accuracy**

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

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



# CHILDPROOF YOUR HOME IMPROVEMENTS.

## HAVING WORK DONE ON YOUR PLACE? USE A LEAD-SAFE CERTIFIED CONTRACTOR.

### The Danger

Lead paint hazards have not gone away. If your home or apartment was built before 1978, unqualified workers could spread lead paint dust. Even doing a small job.

- **Kids:** Lead exposure can cause lower intelligence, behavior problems and learning disabilities.
- **Pregnant women:** Lead paint dust can be harmful to your developing fetus.
- **All adults:** Exposure to lead paint dust can cause nervous system effects, high blood pressure, fertility problems, and kidney effects.

### The Renovation, Repair and Painting Rule

The EPA is requiring that contractors be Lead-Safe Certified.

- Contractors include: renovators, electricians, HVAC specialists, plumbers, painters and maintenance staff who disrupt more than six square feet of lead paint.
- This rule covers schools, day care centers, or any buildings where children gather.

### The Solution

Protect your family and loved ones.

- Make sure to hire a contractor who is Lead-Safe Certified. It may cost just a little more but you'll get the job done right.

**WARNING**  
LEAD WORK A  
POISON  
NO SMOKING  
OR EATING

CAUTION CAUTION CAUTION CAUTION CAUTION

To find a contractor who is Lead-Safe Certified near you,  
visit [epa.gov/getleadsafe](http://epa.gov/getleadsafe) or call 800-424-LEAD.

To report violations, visit [epa.gov/tips](http://epa.gov/tips)







# 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

RECEIVED  
JUN 18 2014

PLANNING & ZONING  
MILFORD, CT 06460

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

Re: Inland Wetland Environmental Review Request for CDBG-DR funding. Properties requiring review.

Dear Mr. Ball:

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

79 Cooper Ave - raise house to proper flood elevation

In order to determine that the proposed work will not adversely impact wetlands or watercourses on or adjacent to the property the following information will be required:

Site Plan and A-2 Survey with T2 Accuracy showing:

- Existing and proposed house location
- Existing and proposed out buildings/assessor structures
- Existing and proposed topography
- The inland wetland line as flagged by a professional wetland scientist
- Proposed erosion control locations
- Proposed stockpile locations

Soil Report by a Professional Wetland Scientist

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

171 Cooper Avenue - CDBG-DR Wetlands Review



# 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

RECEIVED  
APR 22 2014

April 11, 2014

Mr. Mark Elias  
79 Cooper Avenue  
Milford, Connecticut 06460

PLANNING & ZONING  
MILFORD, CT 06460

Re: IW-JR-14-020: 79 Cooper Ave; Map 26 Block 458 Parcel 51C; Mark Elias; Proposal to elevate existing structure with addition of decks and stairs for access with work proposed within 100' of a wetland or watercourse in the South Central Shoreline Watershed.

Dear Mr. Elias:

The Milford Inland Wetlands and Watercourses Agency has reviewed your plan entitled "Zoning Location Survey Soil & Erosion Controls prepared for Mark Elias 79 Cooper Avenue, Milford, Connecticut" by Scott Mundy, 1 sheet dated 3/29/14. Based on a review of the site, the above information, the MIWA maps and Regulations it reveals work is proposed within 100' of wetlands. This work to raise the existing structure as proposed on the plans with proper erosion and sedimentation control and best management practices for construction will have a minimal impact; therefore I am issuing this Jurisdictional Ruling for the elevation of the existing residence and the removal of the existing shed with the following conditions:

- No soils or material may be stockpiled to the rear of the house;
- Excavated soils and materials *must* be removed from the site;
- Sedimentation and Erosion controls must be properly installed prior to the start of construction as shown on the plan to prevent material from entering wetlands on and adjacent to the property;
- Sedimentation and Erosion controls must be maintained and properly functioning until the site is stabilized.
- Existing shed and fence to be removed as noted in our telephone conversation on 4/9/14.

Please be advised that this letter applies only to the specific plans noted above. **Any** revision of these plans will require further review by this Agency. You are responsible for contacting other permitting authorities to determine if additional Local, State and Federal permits are required for this project. No fill material may be placed in the wetland or upland review area without additional review by the MIWA. Best Management practices and proper sedimentation and soil erosion controls as found in the "2002 Connecticut Guidelines for Sedimentation and Erosion Controls" should be implemented on site to prevent degradation of wetlands on and adjacent to the property.

141 Cooper Avenue

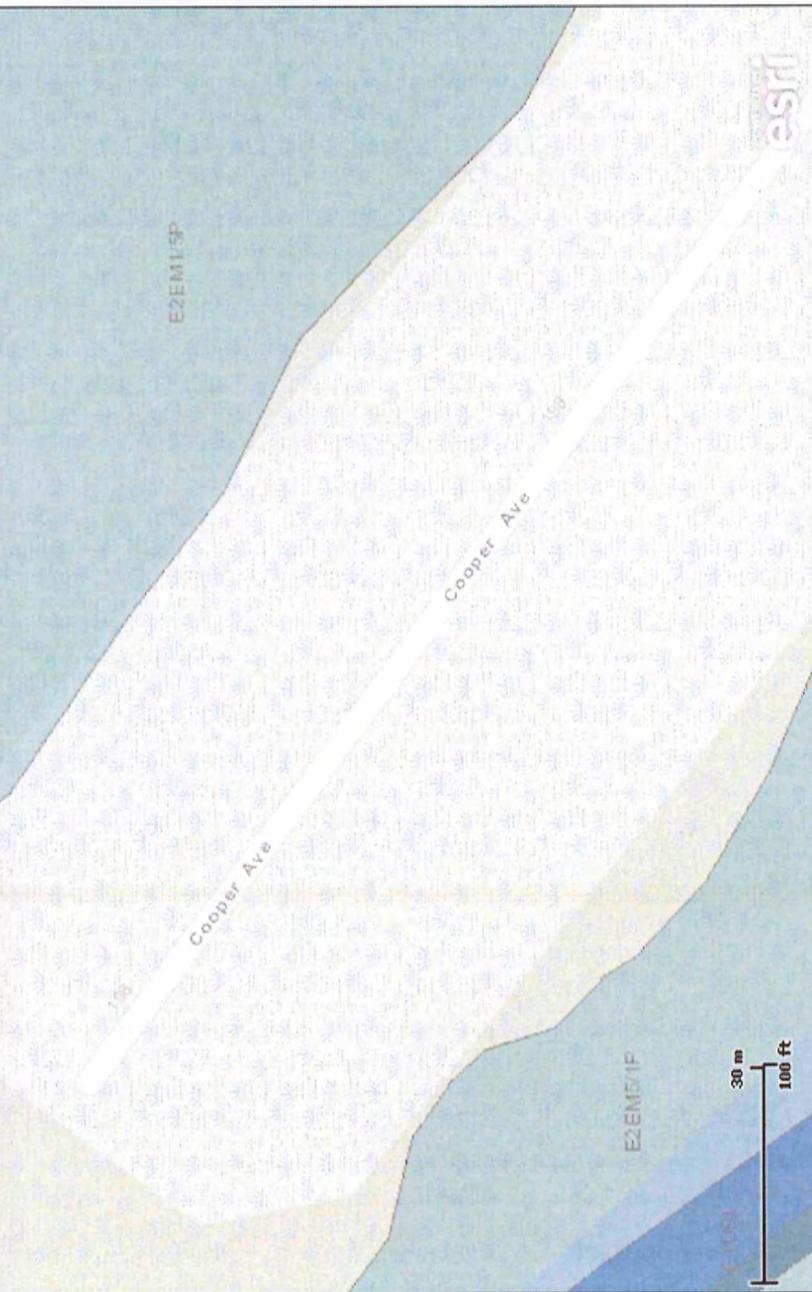


U.S. Fish and Wildlife Service

# National Wetlands Inventory

79 Cooper Ave  
Milford, CT

Aug 1, 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:



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# PIETRAS ENVIRONMENTAL GROUP, LLC

## WETLAND DELINEATION REPORT

Date: August 2, 2014  
PEG JOB#: 2014-76  
Prepared for: Scott K. Mundy, L.S.  
P.O. Box 3158  
Milford, CT 06460  
Project Location: 79 Cooper Avenue, Milford, CT  
Site Map: property map  
Inspection Date: July 30, 2014  
Field Conditions: weather: mostly sunny, 70's soil moisture: moist

**Legislative Definitions of Wetlands and Watercourses in CT** (General Statutes, Chptr 440, Sec. 22a-28 to 22a-45)  
Tidal Wetlands are defined as "those areas which border on or lie beneath tidal waters, such as, but not limited to banks, bogs, salt marsh, swamps, meadows, flats, or other low lands subject to tidal action, including those areas now or formerly connected to tidal waters, and whose surface is at or below an elevation of one foot above local extreme high water; and which may grow or be capable of growing some, but not necessarily all of the following:" (includes plant list) sec. 22a-29(2).

Inland Wetlands "means land, including submerged land, not regulated pursuant to sections 22a-28 to 22a-35, inclusive, which consists of any of the soil types designated as poorly drained, very poorly drained, alluvial, and floodplain by the National Cooperative Soils Survey, as may be amended from time to time, of the Natural Resources Conservation Service (NRCS) of the United States Department of Agriculture" section 22a-38(15).

Watercourses "means rivers, streams, brooks, waterways, lakes, ponds, marshes, swamps, bogs and all other bodies of water, natural or artificial, vernal or intermittent, public or private which area contained within, flow through or border upon this state or any portion thereof, not regulated pursuant to sections 22a-28 to 22a-35, inclusive. Intermittent watercourses shall be delineated by a defined permanent channel and bank and the occurrence of two or more of the following characteristics: (A) Evidence of scour or deposits of recent alluvium or detritus, (B) the presence of standing or flowing water for a duration longer than a particular storm incident, and (C) the presence of hydrophytic vegetation" section 22a-38(16).

### Regulated Wetlands and Watercourses Identified:

Inland Wetlands: **no** Watercourses: **no** river: brook: lake: pond:  
Tidal Wetlands: **yes** intermittent watercourse:  
Wetland boundary flag #'s: **1 thru 6**

**Note: There are no tidal wetlands on the property, but tidal wetlands are present off-site a short distance to the north of the subject property.**

All established wetlands boundary lines are subject to change until officially adopted by local and state agencies.



Thomas W. Pietras  
Professional Wetland and Soil Scientist

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

EMAIL Tom@pietrasenvironmentalgroup.com  
WEB SITE pietrasenvironmentalgroup.com

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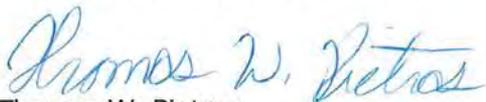
Thomas W. Pietras, Professional Wetland and Soil Scientist, conducted a site inspection to the subject property on July 30, 2014. The 4,380 sq ft (0.10 acre) property is located in the southwestern portion of the City of Milford. The property has been developed with a single family residence, asphalt driveway and grassed lawn. A tidal marsh is present on the abutting property to the north. The marsh is dominated by saltwater cordgrass (*Spartina alterniflora*). The outer edge of the tidal marsh contains a mix of tidal marsh plants, including saltmeadow cordgrass (*Spartina patens*), giant reed grass (*Phragmites australis*), seaside goldenrod (*Solidago sempervirens*) and orache (*Atriplex patula*). Westbrook mucky peat (98) was identified in the tidal marsh. The Westbrook is a deep, very poorly drained, peats and mucks, organic soil that developed over loamy mineral materials. Depth of the peats and mucks is 16 to 51 inches. Westbrook mucky peat soils occur in estuaries near mouths of rivers or major streams or in salt marshes which are subject to tidal inundation twice daily and they are generally moderate to strongly saline.

Tidal Wetlands are identified based on a predominance of tidal wetland plants and observation of physical markings or water laid deposits resulting from tidal action. Tidal Wetland boundaries are delineated by locating the upland limits of those plants listed in section 22a-29(2) of the Tidal Wetlands Act to the extent that these plants reflect inundation by tides. The limits of the tidal wetlands in the project area were delineated with blue survey tapes (numbered 1 thru 6). The tidal wetland boundary flags were located by Scott K. Mundy, L.S., and plotted onto a survey site plan. According to the survey map the tidal wetlands are located a short distance (approximately 10 to 12 feet) to the north of the subject property on City of Milford Property.

The non-wetland areas include grassed lawn and a very narrow band of tall, overgrown weedy growth with a few shrubs. The band of weedy growth lies between the tidal marsh and the lawn and it is dominated by giant reed grass (*Phragmites australis*). Other plants in the weedy growth include American pokeweed (*Phytolacca americana*), hedge false-bindweed (*Calystegia sepium*), climbing nightshade (*Solanum dulcamara*), Virginia creeper (*Parthenocissus quinquefolia*), dodder (*Cuscuta granovii*), multiflora rose (*Rosa multiflora*), European privet (*Ligustrum vulgare*), and tartarian honeysuckle (*Lonicera tartarica*). Soils in the non-wetland areas consist of sandy and gravelly sandy fills. The fill soils were identified as Udorthents, smoothed (308). Udorthents are well drained to moderately well drained, disturbed soil area that have had two or more feet of the original soil surface altered by filling, excavation or grading activities. Udorthents, smoothed soils commonly occur on leveled land and fill landforms.

Respectfully submitted,

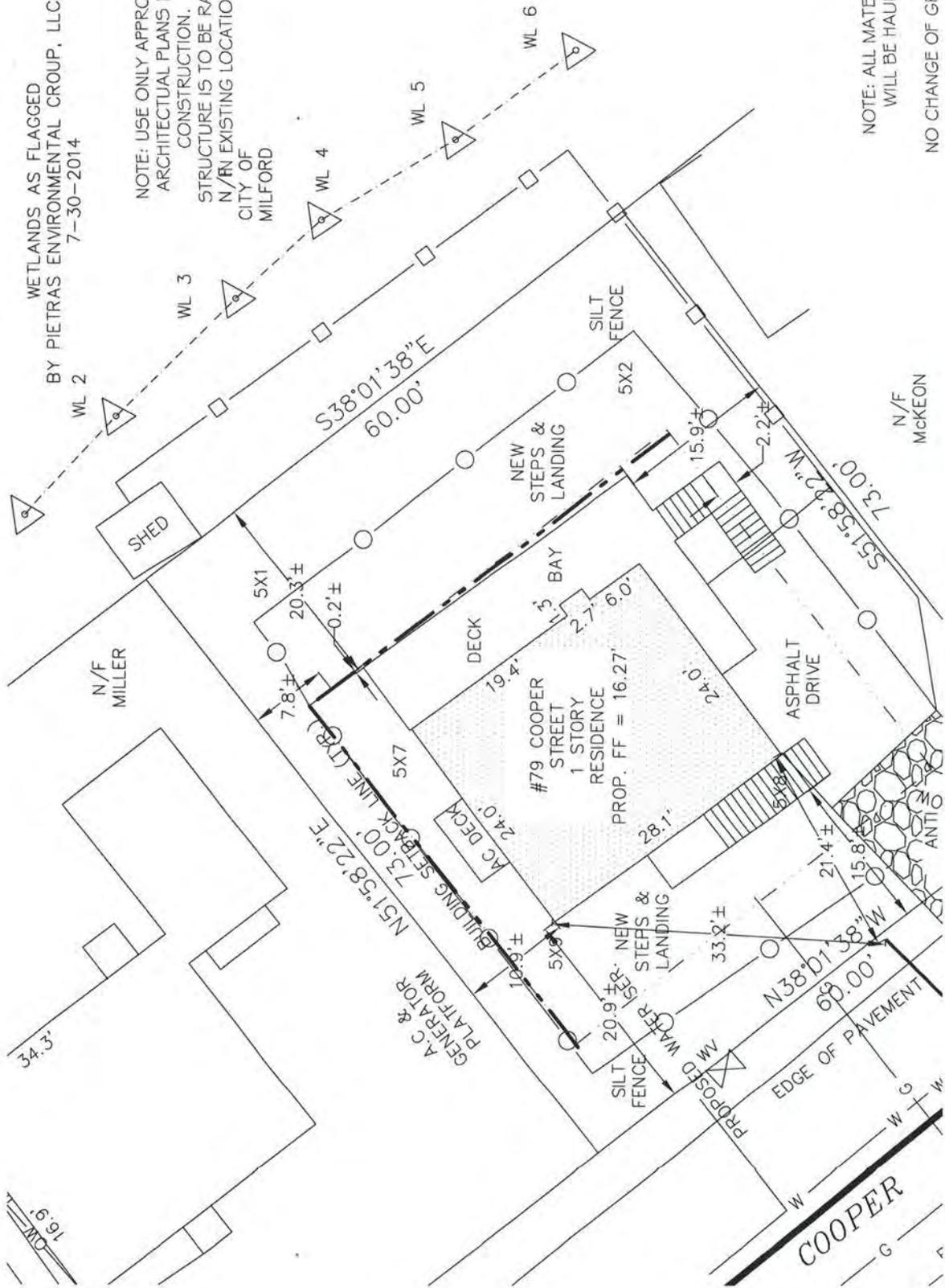
PIETRAS ENVIRONMENTAL GROUP, LLC



Thomas W. Pietras  
Professional Wetland Scientist and Soil Scientist

WETLANDS AS FLAGGED  
 BY PIETRAS ENVIRONMENTAL GROUP, LLC  
 7-30-2014

NOTE: USE ONLY APPROVED  
 ARCHITECTURAL PLANS FOR  
 CONSTRUCTION.  
 STRUCTURE IS TO BE RAISED  
 N/RN EXISTING LOCATION.  
 CITY OF  
 MILFORD



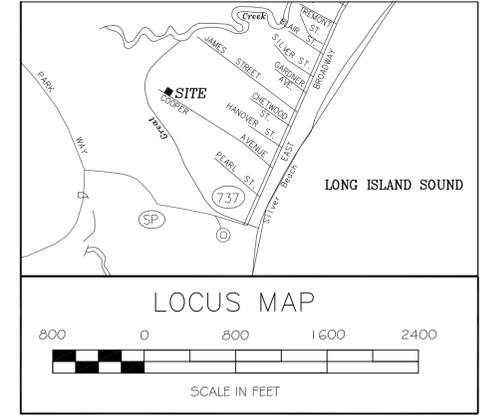
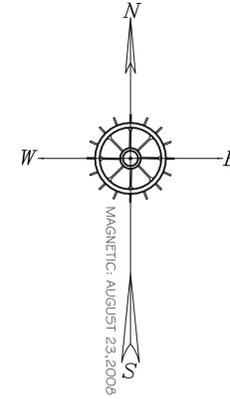
NOTE: ALL MATERIAL EXCAVATED  
 WILL BE HAULED OFF SITE.  
 NO CHANGE OF GRADES PROPOSED.



REFER TO THE FOLLOWING:

MAPS:

- "MAP OF SHORE PROPERTY OWNED BY MARTIN J. BRADY, MILFORD, CONN. PREPARED BY: V.B. CLARKE, DATED: APRIL 1912." ON FILE IN THE MILFORD TOWN CLERK'S. FILE # A-17.
- UNDERGROUND UTILITIES, IF ANY ARE UNKNOWN.
- THE WORD CERTIFY IS AN EXPRESSION OF PROFESSIONAL OPINION BY THE LICENSED LAND SURVEYOR WHICH IS BASED ON HIS BEST KNOWLEDGE, INFORMATION AND BELIEF, AS SUCH CONSTITUTES NEITHER A GUARANTEE OR WARRANTY.
- REFERENCE IS HEREBY MADE TO STATE OF CONNECTICUT STATUTE 8-13a, REGARDING BUILDINGS MORE THAN 3 YEARS OLD.
- RECORD MAP DOES NOT CLOSE AND FIELD EVIDENCE IS INCONSISTENT. PROPERTY LINES ARE A "BEST FIT" OF ALL AVAILABLE EVIDENCE.
- SUBJECT PARCEL IS LOCATED IN FLOOD ZONE "AE-1 I" AS SCALED FROM F.I.R.M. CITY OF MILFORD COMMUNITY PANEL 534 OF 635, 09009C0529G, DATED JULY 8, 2013. NAD 88 DATUM.
- PROPERTY IS SURVEYED AS IN POSSESSION.
- ELEVATIONS AS SHOWN HEREON ARE BASED ON A CITY OF MILFORD BENCH MARK, 4D-2. N.G.V.D. 1929 DATUM AND CONVERTED TO N.A.D 88.



ASSESSOR'S INFORMATION & AREA:

MAP	26
BLOCK	458
PARCEL	57C
AREA	4,380 SF
ACRES	0.101

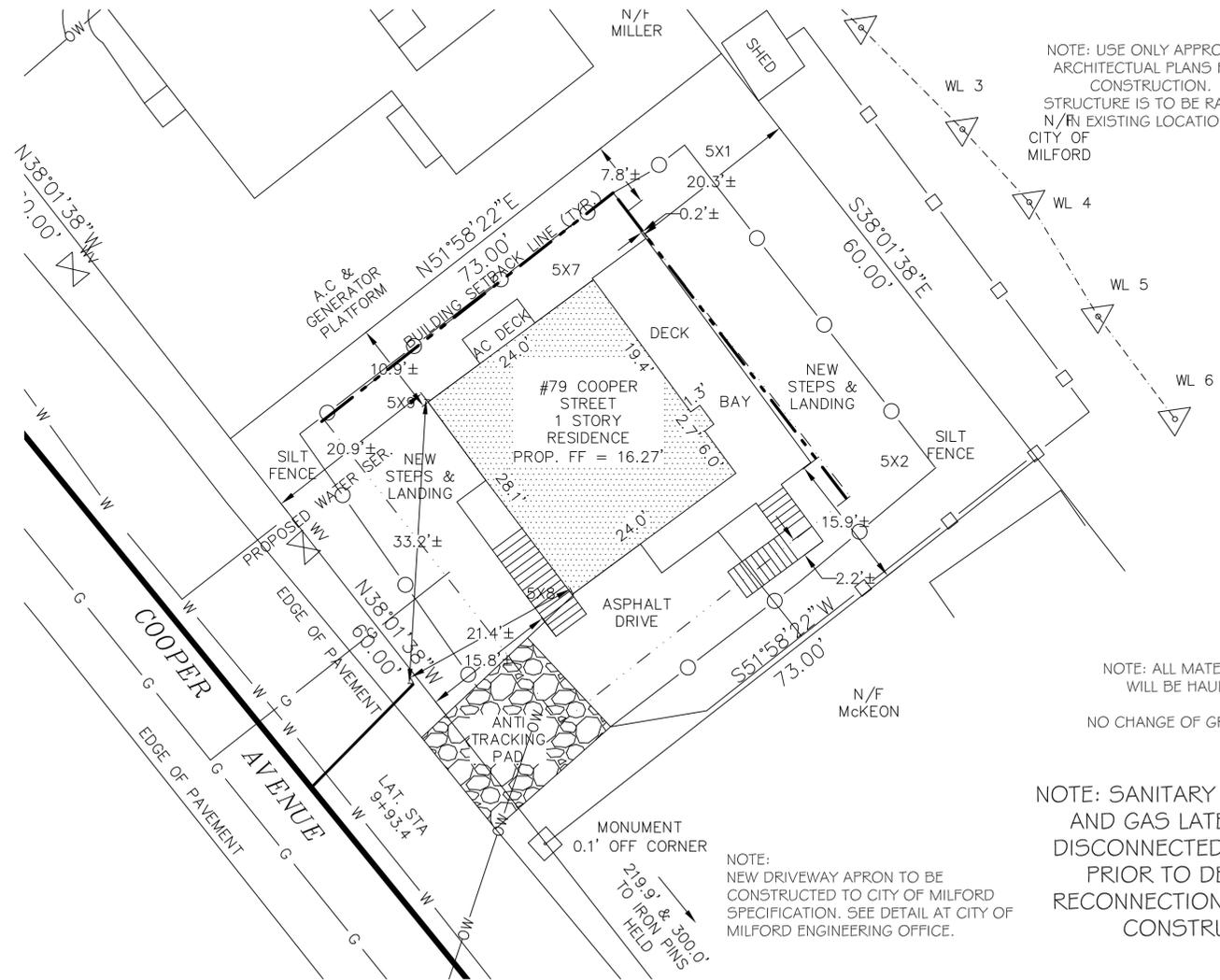
ZONING REQUIREMENTS

ZONE R-5

SECTION 3.2.4.1 SCHEDULE OF LOT AND BUILDING REQUIREMENTS FOR SINGLE ONE FAMILY RESIDENTIAL DISTRICT

R - 5 ZONE	MINIMUM REQUIRED MAXIMUM ALLOWED	EXISTING CONDITIONS	PROPOSED CONDITIONS	AS-BUILT CONDITIONS
Minimum Lot Area	5,000 S.F.	4,380 S.F.	4,380 S.F.	
<b>SETBACK REQUIREMENTS</b>				
Setback From Street Line	10'	20.4'	20.9'	
Setback From Side Property Lines	5 & 10	10.9' & 20.1'	10.9' & 15.9'	
Setback From Rear Property Line	20	14.1'	20.3'	
<b>BUILDING AND LOT COVERAGE</b>				
Maximum Height For A Building Or Structure	35	17±	23'	
Maximum Number Of Stories Per Building	3	2	2	
Maximum Building Floor Area As A Percentage Of Lot Area	45%	15.75%	15.47%	
Maximum Building Lot Coverage As A Percentage Of Lot Area	65%	27.6%	41.8%	

\* OR ACTUAL STREET LINE



ZONING LOCATION SURVEY  
SITE PLAN  
PREPARED FOR  
MARK T. ELIAS  
#79 COOPER AVENUE  
MILFORD, CONNECTICUT

GRAPHIC SCALE



LEGEND

- CB TF = 57.5' CATCH BASIN/ TOP OF FRAME
- MH TF = 56.9' MANHOLE/ TOP OF FRAME
- UTILITY POLE
- SIGN
- HYDRANT
- WATER VALVE
- PARKING SPACE NUMBERS
- FINISH FLOOR ELEVATION
- HANDICAPPED PARKING

Scott K. Mundy, L.S.

P.O. BOX 3158  
MILFORD, CONNECTICUT  
06460  
OFFICE: 203.882.8706  
scott.k.mundy@snet.net

8-23-08	FB: 1-07-49
DRAWN BY: S.K.M	PROJ NO.: 8-08
CHECKED BY: S.K.M.	DWG. NO.: 8-08-MAP

SCALE: 1" = 10'

SITE PLAN: 3-29-14

THIS MAP IS NOT VALID IF ALTERED BY ANYONE OTHER THAN THE ORIGINAL SURVEYOR

THIS MAP IS NOT VALID UNLESS EMBOSSED WITH SEAL OF CERTIFYING SURVEYOR

FIELD SURVEY CONFORMS TO METHODS RECOMMENDED IN CLASS "A-2" SURVEY, HORIZONTAL CLASS "T-2" SURVEY, VERTICAL

I HEREBY STATE TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AND CONFORMS TO THE STANDARDS OF A CLASS A-2 SURVEY.

SCOTT K. MUNDY, L.S. # 70160



THIS SURVEY AND MAP HAS BEEN PREPARED PURSUANT TO THE REGULATIONS 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. THE TYPE OF SURVEY IS A PROPERTY SURVEY AND IS A DEPENDENT RESURVEY.

## Appendix B

### DECD/SHPO/DOH Professional Certification Form

For all General Permit Applications submitted as part of the Flood Management Certification for Disaster Recovery Activities, the following certification must be signed and sealed by a professional engineer licensed to practice in Connecticut.

Property:

Application Number:

"I certify that in my professional judgment, the above referenced project has been designed consistent with the Flood Management Certification for Disaster Recovery Activities as approved by DEEP and that the information is true, accurate and complete to the best of my knowledge and belief.

I understand that a false statement made in the submitted information may, pursuant to Section 22a-6 of the General Statutes, be punishable as a criminal offense under Section 53a-157b of the General Statutes, and may also be punishable under Section 22a-438 of the General Statutes."

Signature of Applicant

Date

Name of Applicant (print or type)

Title

Signature of Professional Engineer

Date

Name of Professional Engineer (print or type)

P.E. Number

Affix P.E. Stamp Here

