APPENDIX "A"

ENVIRONMENTAL REVIEW REPORT

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

Applicant # 1364

24 Coolridge Road
Milford, Connecticut

March 15, 2015

Prepared for:

Quisenberry Arcari Architects, LLC
318 Main Street
Farmington, Connecticut

Prepared by:

Stephen Ball
294 White Deer Rocks Road
Woodbury, Connecticut

STATUTORY CHECKLIST [§58.35(a) activities]

for Categorical Exclusions and Environmental Assessments

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

Project Name and Identification/Location: Kopchak Residence / #1364
24 Coolridge Road Milford, Connecicut

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
Document Laws and authorities listed at 24 CFR Sec. 58.5							
1. Historic Properties [58.5(a)] [Section 106 of NHPA]	☒	☐	☐	☐	☐	☐	Consulted with State Historic Preservation Office (SHPO); Building built in 1928. SHPO determined the proposed work will have no adverse effects on the State's historic rsources. See attached SHPO letter dated 11/24/14.
2. Floodplain Management [58.5(b)] [EO 11988] [24 CFR 55]	☐	☒	☒	☐	☐	☐	Located in Flood Zone AE based on FEMA – Map Number 09009C0534J Revised July 8, 2013. See attached FIRMLET.
3. Wetland Protection [58.5 (b)]	☒	☐	☐	☐	☐	☐	Anticipated impacts on wetlands minimal due to majority of activities limited to pre-storm building footprint. Consulted MaryRose Palumbo, Inland Wetlands Compliance Officer. No mapped wetlands. See attached National Wetlands Mapper.
4. Coastal Zone Management [58.5(c)] [CGS 22a-100(b)]	☐	☒	☒	☐	☐	☐	Site is located within the Coastal Boundary as mapped by DEEP. See attached map.
5. Water Quality – Aquifers [58.5(d)] [40 CFR 149] Clean Water Act 1977 Safe Drinking Water Act 1974	☒	☐	☐	☐	☐	☐	Water Quality – N/A Project does not involving on-site water and sewer facilities nor is it in a sole source acquifer zone.
6. Endangered Species [58.5(e)] [16 U.S.C. 1531 et seq.] [CGS 26-310]	☒	☐	☐	☐	☐	☐	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 October 21, 2014.
7. Wild and Scenic Rivers [58.5 (f)] [16 U.S.C. 1271 et seq.]	☒	☐	☐	☐	☐	☐	Eightmile River is only designated wild & scenic river within program area running through Lyme, Salem and East Haddam, CT (rivers.gov; November 2012)
8. Air Quality [58.5(g)] [42 U.S.C. 7401 et seq.]	☒	☐	☐	☐	☐	☐	Clean Air Act, State Implementation Plan, HUD & EPA Regulations; in general, residential rehabilitation exempted w/no quantifiable increase in air pollution.

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
9. Farmland Protection [58.5(h)]	☒	☐	☐	☐	☐	☐	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)]	☒	☐	☐	☐	☐	☐	N/A for projects that do not add density
10 B. Noise [58.5(i)]	☒	☐	☐	☐	☐	☐	Not applicable to project – restoration of structure substanitially as it existed prior to Super Storm Sandy.
10 C. Airport Clear Zones [58.5 (i)]	☒	☐	☐	☐	☐	☐	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. Property does not involve the purchase or sale of an existing property in an airport zone.
10 D. Toxic Sites [58.5 (i)(2)(i)]	☒	☐	☐	☐	☐	☐	The site has no known toxic history based on the attached Toxix Site Certification. The site: 1) is not listed on EPA Superfund National Prioritiyies or CERCLA list. 2) is not located within 3,000ft of a toxic or solid waste landfill. 3) is not known to have an undergroud storage tank (which is not an undergroud storage fuel tank). 4) Is not known or suspected to be contaminated by radioactive chemicals or radioactive materials.
11. Environmental Justice [58.5(j)]	☒	☐	☐	☐	☐	☐	Executive Order 12898 Program activities do not anticipate high & adverse human health and environmental effects on minority or low-income populations;
Document Laws and authorities listed at Sec. 58.6 and other potential environmental concerns							
12 A. Flood Insurance [58.6(a) & (b)]	☐	☒	☒	☐	☐	☐	Located in Zone AE – Map Number 09009C0534J Revised July 8, 2013. See attached FIRMLET Flood insurance required.
12 B. Coastal Barriers [58.6(c)]	☒	☐	☐	☐	☐	☐	Property is not located in a Coastal Barrier Resource Zone. See attach map.
12 C. Airport Clear Zone Notification [58.6(d)]	☒	☐	☐	☐	☐	☐	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. Property does not involve the purchase or sale of an existing property in an airport zone.

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
13. A Solid Waste Disposal [42 U.S.C. S3251 et seq.] and [42 U.S.C. 6901-6987 eq seq.]	☒	☐	☐	☐	☐	☐	Resource Conservation and Recovery Act and Solid Waste Disposal Act; Residential Exemption
13 B. Fish and Wildlife [U.S.C. 661-666c]	☒	☐	☐	☐	☐	☐	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]	☐	☒	☒	☐	☐	☐	Lead paint found - See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill EnviroScience LLC dated October 2014. Give tenant Notice about Lead. Compliance will include removal of lead-based paint hazards, notifications, and clearance examinations.
13 D. Asbestos	☐	☐	☒	☒	☐	☐	Asbestos found – See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill EnviroScience LLC dated October 2014. Follow recommendations listed in report. Compliance will include measures to minimize risk of expsure and when necessary abate any hazardous materials
13 E. Radon [50.3 (i) 1]	☒	☐	☐	☐	☐	☐	Radon concentration less than 4 picocuries per liter of air. See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill EnviroScience LLC dated October 2014. No action required.
13 F. Mold	☒	☐	☐	☐	☐	☐	No Mold Found - See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill EnviroScience LLC dated October 2014. No action required.
Other: State or Local 14 A. Flood Management Certification [CGS 25-68]	☐	☐	☒	☐	☐	☐	Property inside Flood Zone AE on FEMA map 09009C0534J Revised July 8, 2013. Certification through the General Permit for CDBG-DR activities with DEEP required. See appendix B Certification form and required documents.
14 B. Structures, Dredging & Fill Act [CGS 22a-359 through 22a-363f]	☒	☐	☐	☐	☐	☐	Not applicable - this project is not waterward of the Coastal Jurisdiction Line.
14 C. Tidal Wetlands Act [CGS 22a-28 through 22a-35]	☒	☐	☐	☐	☐	☐	Not located in Tidal wetlands – see attached Zoning Location Survey.
14 D. Local inland wetlands/watercourses [CGS 22a-42]	☒	☐	☐	☐	☐	☐	Not located in wetlands -see attached Zoning Location Survey.

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.
14 E. Various Municipal Zoning Approvals	☐	☒	☐	☐	☐	☐	Approvals required by Planning/Zoning Commission or ZBA. If any work outside original building footprint.

DETERMINATION:

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

☒ This project cannot convert to Exempt because one or more statutes/authories requires consultation or itigation. 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 reasult in a significant environmental impact. This project requires preparation of an Environmental Assessment (EA). Prepare the EA according to 24 CFR Part 58 Subpart E.

Prepared by:

Name: Stephen Ball — Date: 2/26/15

Responsible Entity or designee Signature:

Hermia Delaire, CDBG-DR Program Manager — Date: 3/17/2015

Print

Milford CT Hotels marriott.com/milford Rewards Members Enjoy Free In-Room Wi-Fi When You Book at Marriott.com

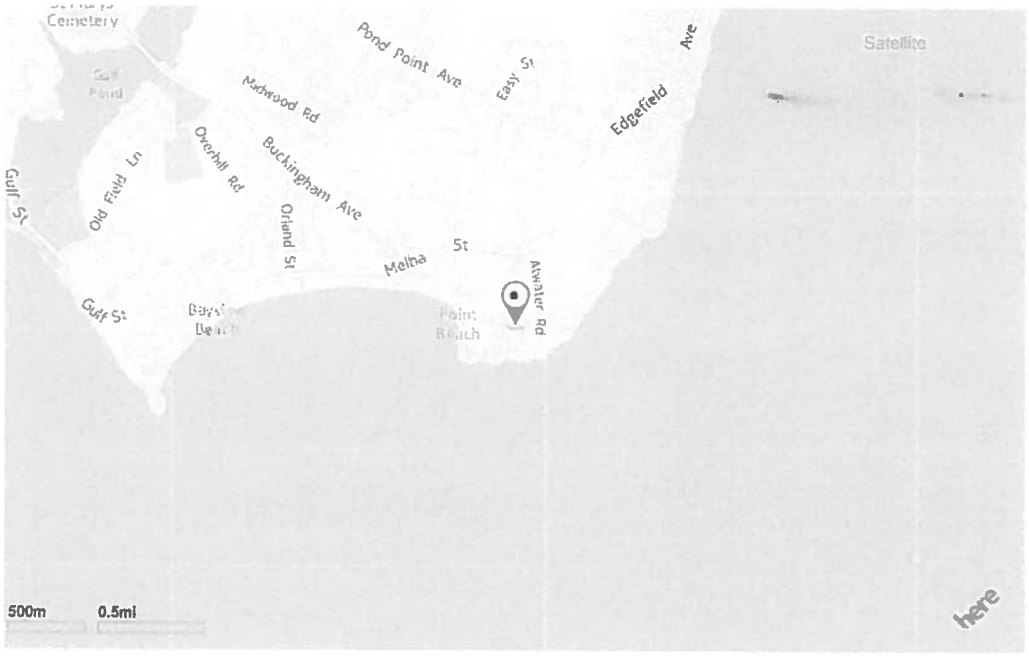
Ad

YAHOO! MAPS

24 Coolridge Rd, Milford, CT 06460-7620

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

24 COOLRIDGE RD

Location	24 COOLRIDGE RD	**Assessment**	$165,100
Mblu	30/ 634/ 10/ /	**Appraisal**	$235,860
Acct#	019315	**PID**	6718
Owner	KOPCHAK CATHERINE	**Building Count**	1

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2013	$137,860	$98,000	$235,860

Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2013	$96,500	$68,600	$165,100

Owner of Record

Owner	KOPCHAK CATHERINE	**Sale Price**	$217,500
Co-Owner		**Certificate**	
Address	24 COOLRIDGE RD MILFORD, CT 06460	**Book & Page**	02632/0334
		Sale Date	10/17/2002
		Instrument	00

Ownership History

Ownership History					
Owner	**Sale Price**	**Certificate**	**Book & Page**	**Instrument**	**Sale Date**
KOPCHAK CATHERINE	$217,500		02632/0334	00	10/17/2002
YAP RIZALDY &	$128,000		02256/0378	00	01/02/1998
HALAYKO JEFFREY	$80,000		02202/0680	14	01/07/1997
DIVERSIFIED-COOLIDGE EQUITIES	$0		02148/0502	14	12/01/1995
TOMASKO TIMOTHY M	$0		02013/0182		11/18/1993

Building Information

Building 1 : Section 1

Year Built:	1928
Living Area:	1212
Replacement Cost:	$172,326
Building Percent Good:	80
Replacement Cost Less Depreciation:	$137,860

Building Photo

Building Attributes	
Field	**Description**

Style	Conventional
Model	Residential
Grade:	Average +10
Stories:	2 Stories
Occupancy	1
Exterior Wall 1	Vinyl Siding
Exterior Wall 2	
Roof Structure:	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Flr 1	Hardwood
Interior Flr 2	Carpet
Heat Fuel	Oil
Heat Type:	Steam
AC Type:	None
Total Bedrooms:	3 Bedrooms
Total Bthrms:	1
Total Half Baths:	1
Total Xtra Fixtrs:	
Total Rooms:	6 Rooms
Bath Style:	Average
Kitchen Style:	Updated
Bath Desc.	1-Full 1-Half

(http://images.vgsi.com/photos/MilfordCTPhotos//\00\01\66/60.jpg)

Building Layout

Building Sub-Areas			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	636	636
FUS	Upper Story, Finished	576	576
UBM	Basement, Unfinished	576	0
WDK	Deck, Wood	148	0
		1936	1212

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Use Code	1010
Description	SINGLE FAM MDL-01
Zone	R5
Neighborhood	F
Alt Land Appr	No

Land Line Valuation

Size (Acres)	0.09
Frontage	40
Depth	100
Assessed Value	$68,600
Appraised Value	$98,000

Category

Outbuildings

Outbuildings	Legend
No Data for Outbuildings	

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2013	$137,860	$98,000	$235,860
2012	$137,860	$98,000	$235,860
2011	$137,860	$98,000	$235,860

Assessment			
Valuation Year	Improvements	Land	Total
2013	$96,500	$68,600	$165,100
2012	$96,500	$68,600	$165,100
2011	$96,500	$68,600	$165,100

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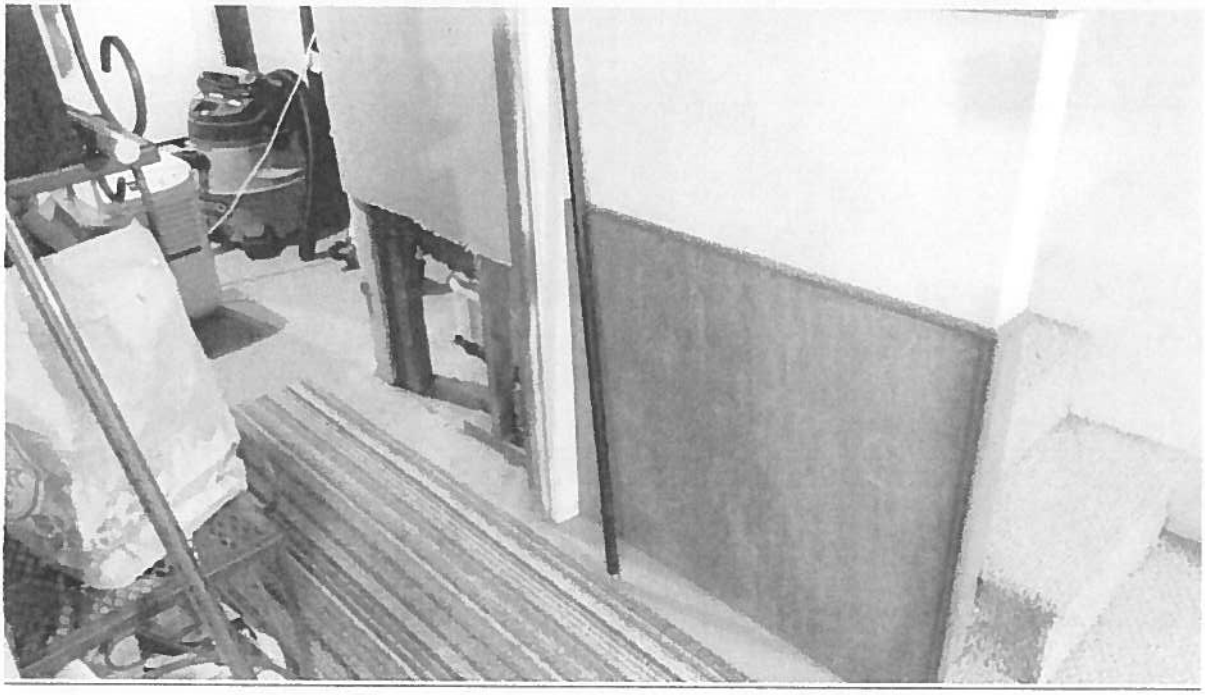
Photo Documentation



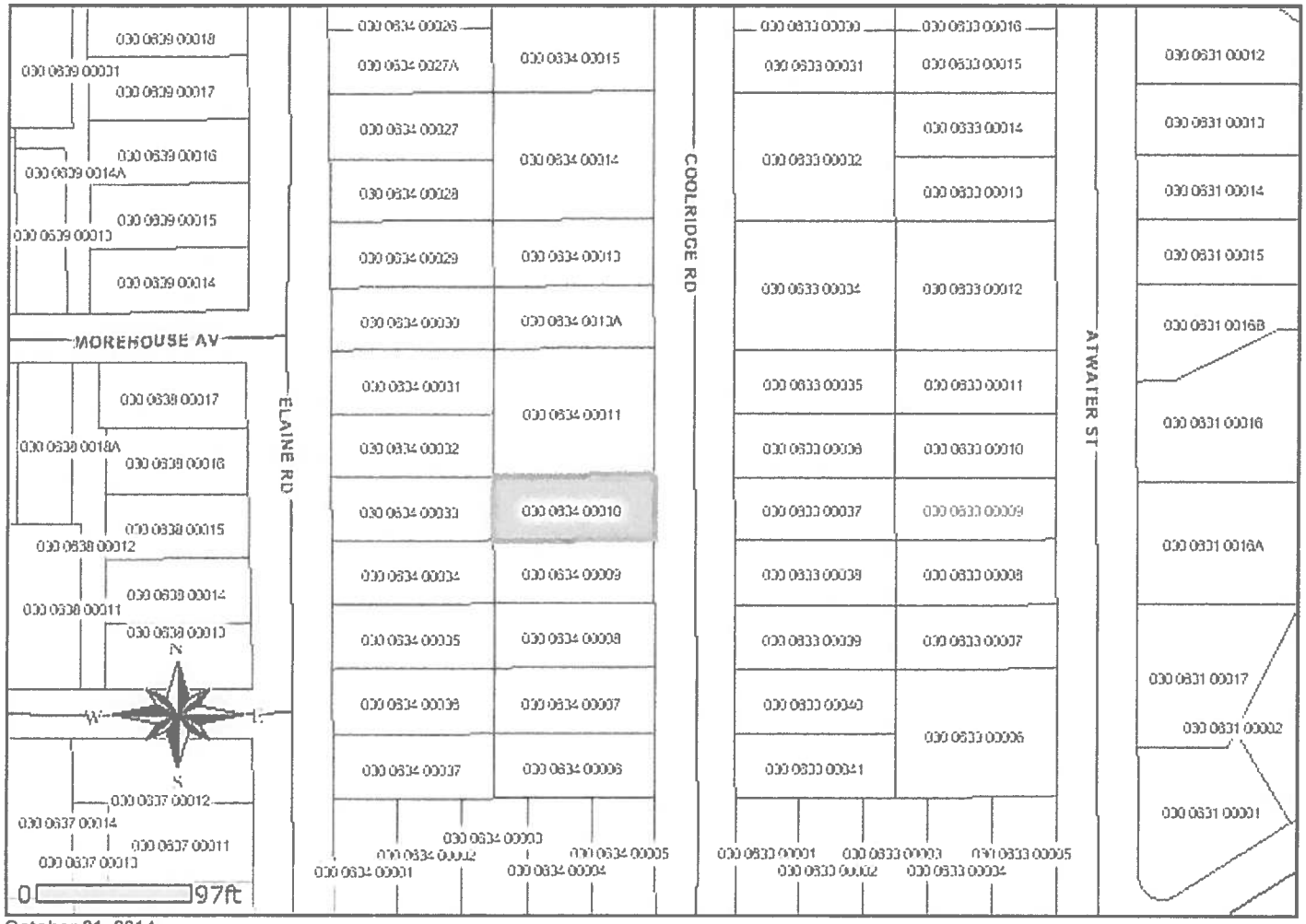
318 Main Street
Farmington, CT 06032

860 677.4594
860 677.8534 Fax

318 Main Street
Farmington, CT 06032

860 677.4594
860 677.8534 Fax

24 Coolridge



Legend

- Streets
- Tax Parcels
- Town Boundary

October 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.

Department of Economic and Community Development

Connecticut
still revolutionary

1364 mG

November 24, 2014

received 12-1-14

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

Subject: 24 Coolridge Road
Milford, CT

Dear Ms. Delaire:

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

The property located at 24 Coolridge Road appears to be eligible for listing on the National Register of Historic Places as a contributing resource to a potential historic district.

Your project scope includes an addition for systems and deck to the rear, infill of the basement, new replacement windows and doors. The SHPO has determined that the undertaking as proposed will constitute no adverse effects to historic resources.

The State Historic Preservation Office appreciates the opportunity to review and comment upon this project. These comments are provided in accordance with the Connecticut Environmental Policy Act and Section 106 of the National Historic Preservation Act. For further information please contact Todd Levine, Environmental Reviewer, at (860) 256-2759 or todd.levine@ct.gov.

Sincerely,

Mary B. Dunne

Mary B. Dunne
Deputy State Historic Preservation Officer

MAP SCALE 1" = 500'

250 0 500 1000 FEET

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0534J

FIRM

FLOOD INSURANCE RATE MAP

NEW HAVEN COUNTY, CONNECTICUT

(ALL JURISDICTIONS)

PANEL 534 OF 635

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
MILFORD, CITY OF	090082	0534	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
09009C0534J

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

COASTAL BOUNDARY
MILFORD, CONNECTICUT

LEGEND

Coastal Boundary

EXPLANATION

The coastal boundary map shows the extent of tidal and coastal waters as defined by Connecticut General Statute within Connecticut's coastal area. The coastal boundary is a continuous line delineated on the landward side by the statewide contour elevation of the one hundred year frequency coastal flood zone, as defined and determined by the National Flood Insurance Act, or a one thousand foot linear setback measured from the mean high water mark in coastal waters, or a one thousand foot linear setback measured from the inland boundary of tidal wetlands, whichever is farthest inland; and shall be delineated on the seaward side by the seaward extent of the jurisdiction of the state.

Any regulated activity conducted within the coastal boundary by a municipal agency (i.e., plans of development, zoning regulations, municipal coastal programs and coastal site plan review (i.e., site plans submitted to zoning commission, subdivision or resubdivision plans submitted to planning commission, applications for special permit or exceptions to the zoning or planning commissions or zoning board of appeals, variance submitted to zoning board of appeals and a referral of a municipal project) must be conducted in a manner consistent with the requirements of the Connecticut Coastal Management Act (CMA). As the Coastal Boundary is a hybrid of the Coastal Area, all state and federal agency activities must be consistent with the requirements of the CMA. The coastal boundary is a hybrid of the original 1:24,000 version maps prepared by DEP and the revised boundary mapping undertaken by twenty-two coastal towns. This layer therefore does not replace the legal maps and may not be used for legal determinations.

The following twenty-two towns have adopted municipal coastal boundaries: Chester, Clinton, Darien, Deep River, East Haven, Essex, Fairfield, Greenwich, Groton, Guilford, Hamden, Ledyard, Madison, Milford, New Haven, New London, North Haven, Norwalk, Old Lyme, Old Saybrook, Stamford and Waterford. The coastal boundary maps for these towns may be at different scales than the original DEP draft maps and may contain minor adjustments to the boundary.

DATA SOURCES

COASTAL BOUNDARY DATA - The original boundary maps were created in 1979 on stable mylar overlay using the 1:24,000-scale US Geological Survey topographic quadrangle maps (mylar film format). The source for tidal wetland maps were the legal 1:24,000 maps (mylar format) adopted by the Commissioner of DEP and transferred to 1:24,000 mylar-scale maps by the Office of Policy and Management (OPM) using an accurate pantograph. (OPM similarly converted FEMA's flood insurance maps (various scales) to a 1:24,000 mylar overlay. The inland extent of coastal waters was plotted on 1:24,000 USGS topographic maps following the procedures and sources described in The Boundary between Saltwater and Freshwater in Connecticut, December 1978 prepared by the State of Connecticut, Department of Environmental Protection, Coastal Area Management Program.

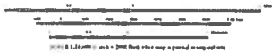
BASE MAP DATA - Based on data originally from 1:24,000-scale USGS 7.5 minute topographic quadrangle maps published between 1969 and 1992. It includes political boundaries, railroads, airports, hydrography, geographic names and geographic places. Streets and street names are from Tele Atlas® copyrighted data. Base map information is neither current nor complete.

RELATED INFORMATION

This map is intended to be printed as its original dimensions in order to maintain the 1:24,000 scale (1 inch = 2000 feet)

MAPS AND DIGITAL DATA - Go to the CT ECO website for this map and a variety of others. Go to the DEP web-site for the digital spatial data shown on this map.

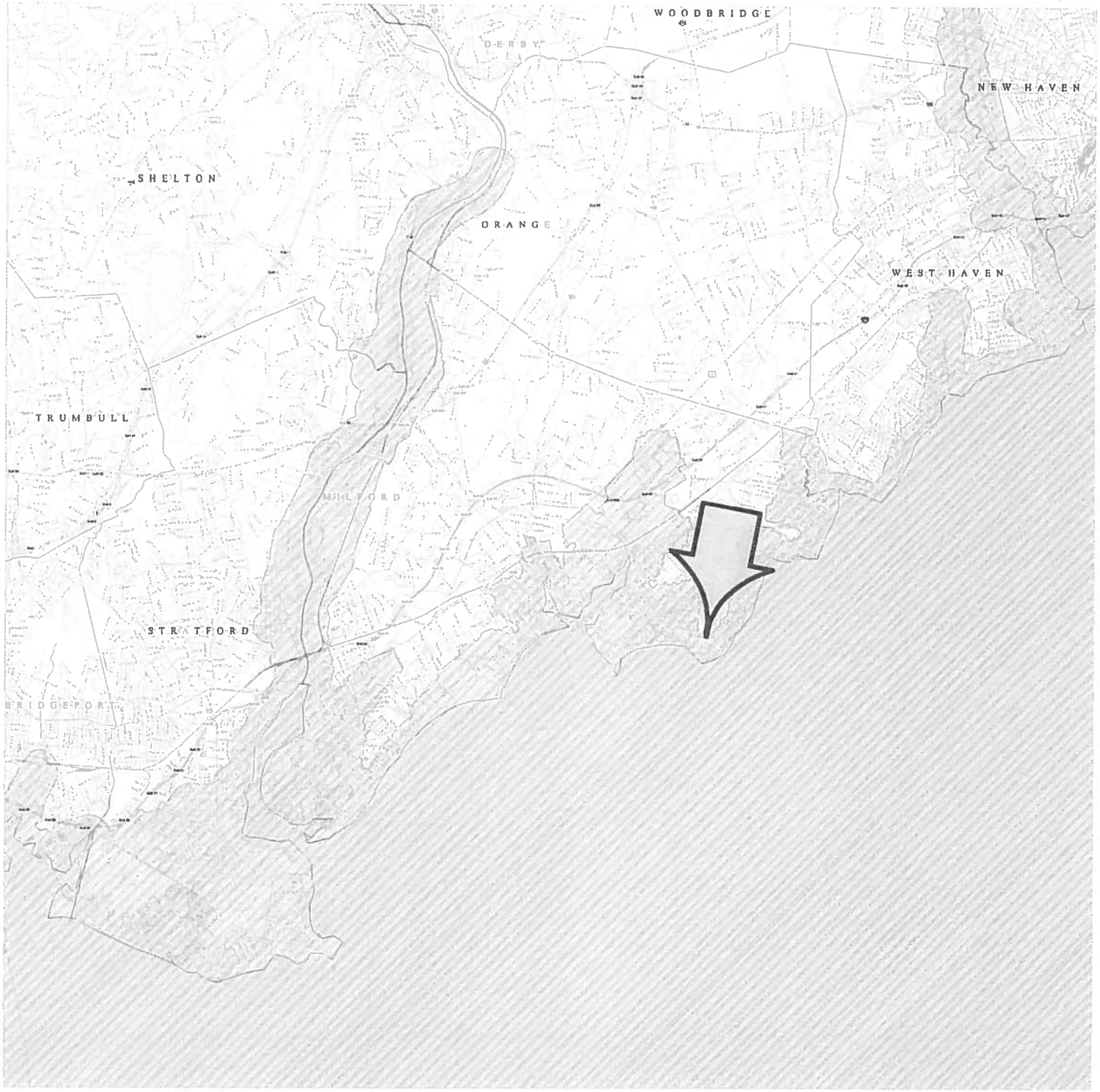
MAP LOCATION



STATE OF CONNECTICUT
DEPARTMENT OF
ENERGY & ENVIRONMENTAL PROTECTION
79 Elm Street
Hartford, CT 06106-5127

Map created by GIS
January 2013

Adobe is not responsible
Project from digital and discrepancy



U.S. Fish and Wildlife Service

National Wetlands Inventory

24 Coolridge Road

Feb 26, 2015

Wetlands

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

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

User Remarks:

United States Department of the Interior

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

Consultation Tracking Number: 05E1NE00-2015-SLI-0051 October 21, 2014
Project Name: 24 Coolridge

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

To Whom It May Concern:

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

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

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

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

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

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

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

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

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

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

Attachment

United States Department of Interior
Fish and Wildlife Service

Project name: 24 Coolridge

Official Species List

Provided by:

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

Consultation Tracking Number: 05E1NE00-2015-SLI-0051
Project Type: Federal Grant / Loan Related
Project Description: Repair damage caused by Super Storm Sandy

United States Department of Interior
Fish and Wildlife Service

Project name: 24 Coolridge

Project Location Map:

Project Coordinates: MULTIPOLYGON (((-73.0170758 41.2058178, -73.0166871 41.2058261, -73.0166844 41.2056909, -73.0170758 41.2056866, -73.0170758 41.2058178)))

Project Counties: New Haven, CT

United States Department of Interior
Fish and Wildlife Service

Project name: 24 Coolridge

Endangered Species Act Species List

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

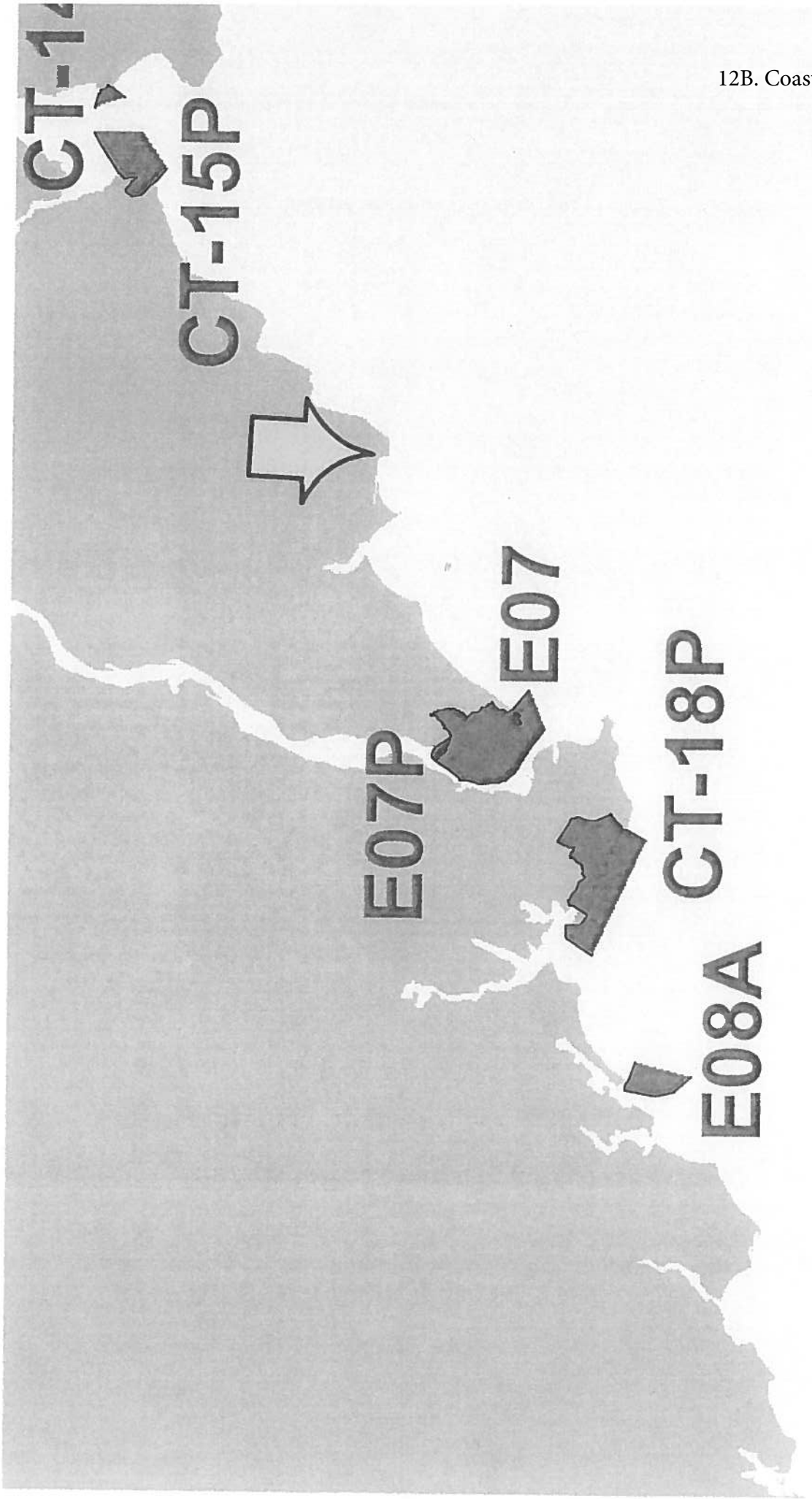
There are no listed species identified for the vicinity of your project.

United States Department of Interior
Fish and Wildlife Service

Project name: 24 Coolridge

Critical habitats that lie within your project area

There are no critical habitats within your project area.


CT-15P
E07P
E07
CT-18P
E08A

Limited Hazardous Materials Building Inspection Report

Storm Sandy Residential Rehabilitation Project
24 Coolridge Road
Milford, Connecticut

Quisenberry Arcari Architects, LLC

Farmington, Connecticut

October 2014

FUSS & O'NEILL

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

Project No. 20140277.D5E

FUSS & O'NEILL
EnviroScience, LLC

October 9, 2014

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

RE: Limited Hazardous Materials Building Inspection
Storm Sandy Residential Rehabilitation Project
24 Coolridge Road, Milford, Connecticut
Fuss & O'Neill EnviroScience Project No. 20140277.D5E
Quisenberry Arcari Project No. 1346-45

Dear Mr. Arcari:

Enclosed is the report for the limited hazardous materials building inspection performed at 24 Coolridge Road in Milford, Connecticut.

The initial inspection was performed on September 24, 2014, by Fuss & O'Neill EnviroScience, LLC state-licensed inspectors and included an asbestos inspection, testing for lead-based paint, airborne radon gas 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 should 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

Timothy M. Downey
Senior Project Manager

Enclosure

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Rhode Island
South Carolina

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FUSS & O'NEILL
EnvironScience.

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Quisenberry Arcari Architects LLC
24 Coolridge Road, Milford, Connecticut

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Quisenberry Arcari Architects LLC
24 Coolridge Road, Milford, Connecticut

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1 Introduction

On September 24, 2014, Fuss & O'Neill EnviroScience, LLC (EnviroScience) Environmental Technician, Mr. James Blum, performed a limited hazardous materials building inspection of the residential structure located at 24 Coolridge Road in Milford, Connecticut (the "Site"). Mr. Blum is a State of Connecticut-licensed Asbestos Consultant - Inspector and Certified Lead Paint Inspector. On September 24, Mr. Blum performed a lead paint risk assessment within the residence. Mr. Blum is a State of Connecticut-Certified Lead Paint Inspector/Risk Assessor. The residential structure was occupied at the time and date of the inspection. Refer to *Appendix A* for EnviroScience state licenses, certifications, and accreditations.

This inspection was performed in response to the planned renovations to damaged or impacted areas of the building caused by Superstorm Sandy, as identified in the *Residence Rehabilitation Letter* dated September 7, 2014, provided by Quisenberry Arcari Architects. The limited inspection consisted of the following:

- Limited inspection for asbestos-containing materials (ACM) associated with the reconstruction of lower level living space to the main level, infill of the existing lower level, and replacement of existing exterior window and door systems;
- Testing of painted surfaces for lead-based paint (LBP);
- LBP risk assessment;
- Evaluation of fluorescent light fixtures for polychlorinated biphenyls (PCB)-containing light ballasts;
- Inventory of light tubes/lamps and devices for mercury;
- Airborne radon gas assessment; and
- 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 (US) Environmental Protection Agency (EPA) National Emission Standards for Hazardous Air Pollutants (NESHAP) regulation located at Title 40 CFR, Part 61, Subpart M.

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

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

During this inspection, suspect ACM were separated into three EPA categories. These categories are: thermal system insulation (TSI), surfacing ACM, and miscellaneous ACM. TSI includes 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 ACM that is applied by spray, trowel, or otherwise applied to an existing surface. Surfacing ACM is commonly used for fireproofing, decorative, and acoustical applications. Miscellaneous materials include ACM not listed in thermal or surfacing, such as linoleum, vinyl asbestos flooring, and ceiling tiles.

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

2.1 Methodology

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

1. Surfacing Materials (SURF) (e.g., plaster, spray-applied fireproofing, etc.) were collected in a randomly distributed manner representing each homogenous area based on the overall quantity represented by the sampling as follows:
   a. Three samples collected from each homogenous area that is less than or equal to (≤) 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 *Table 1*and *2* of the "Results" section. Materials observed on Site that are not listed in the following tables should be considered suspect ACM until sample results

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

2.2 Results

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

Table 1
Asbestos-Containing Materials

Location	Material Type	Asbestos Content	Estimated Quantity	Sample No.
Exterior Siding	Transite® Panel – Behind Vinyl Siding & Foam Insulation	15% Chrysotile	2900 SF *(Includes All Exterior Siding)*	0924JB19A
Furnace Room	Boiler Unit & Furnace Unit	N/A	2 Units	Inaccessible - Assumed *(Units Still Active on Date & Time Of Sampling)*

Note: SF = Square Feet

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

Table 2
Non-Asbestos-Containing Materials

Location	Material Type	Sample No.
Throughout Basement & 1st Floor Interior	White Sheetrock & White Joint Taping Compound	0924JB01A-C, 02A-C, 03
Basement - Furnace Room	White Top Layer & Gray Bottom Layer Flue Cement	0924JB04A-B, 05A-B
	Gray Original Flue Cement	0924JB06A-B
	Red Chimney Brick & Associated Gray Grout	0924JB07A-B, 08A-B
	Gray Concrete Stairs	0924JB09A-B
	Gray Concrete Wall & Associated Grout	0924JB10A-B, 11A-B
	Gray Boiler Bed Concrete Block & Associated Grout	0924JB12A-B, 13A-B
	Gray/Blue Floor Paint	0924JB14A-C
	Gray Concrete Floor Slab	0924JB15A-B

Location	Material Type	Sample No.
Exterior	White Window Caulking Compound	0924JB16A-C
	Black Roofing Base Sheet	0924JB17A-C
	Black Asphalt Roof Shingle	0924JB18A-C
	Gray Foundation Concrete Block & Associated Grout	0924JB20A-B, 21A-B

2.1 Discussion

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

2.2 Conclusions and Recommendations

The analytical results of the suspect ACM samples collected and analyzed indicate the Transite® Paneling is confirmed to be ACM. Based on the scope of work, material around the 17 exterior window systems and two exterior door systems, and potentially the exterior siding alongside the porch would be impacted. The Transite® Paneling must be removed, packaged, transported and disposed as ACM by a CTDPH-licensed Asbestos Abatement Contractor prior to disturbance.

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

3 Lead-Based Paint Testing

On September 24, 2014, EnviroScience's Environmental Technicians Mr. Blum performed comprehensive lead paint testing within the Site structure. The purpose of the testing was for compliance with EPA's Renovation, Repair, and Painting Rule (RRP) located at Title 40 CFR, Parts 745.80 through 92, and the US Department of Housing and Urban Development (HUD) Lead-Safe Housing Rule (Title 24 CFR, Part 35, Subparts B-R). On August 26, 2014, Mr. Cruess performed a lead risk assessment for the purpose of HUD Lead-Safe Housing Rule (Title 24 CFR, Part 35, Subparts B-R) compliance.

3.1 Methodology

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

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

The structure is constructed of exterior vinyl siding with vinyl, wood, and metal window and door systems. The interior walls and ceilings are constructed mostly of sheetrock; the floors are constructed of hardwood. The building was occupied at the time and date of the testing; no children under the age of six were present within the residence at time and date of the inspection.

3.2 XRF Testing Results

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

Table 3
Lead-Painted Building Components

Building Component	Location	Reading (mg/cm^2)	Defective?
Interior Window Trim	Bedroom 1, 2nd Floor Hallway	7.1 - 8.2	No
Interior Window Sill	2nd Floor Hallway	5.1	No
Window Sash	1st Floor Bathroom	1.6	No
White Radiator	Throughout	1.1 - 2.0	No
Metal Support Column	Furnace Room	>9.9	No
Exterior Metal Window Sash	Exterior Side C	1.1	Yes
Basement Window Sash	Exterior Side D	9.8	No
Basement Window Frame	Exterior Side D	1.1	Yes

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

3.3 Dust Wipe Samples

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

Table 4
Lead Dust Wipe Sample Results

Sample No.	Location	Results*
0924JB01	2nd Floor Bedroom 1–Window Sill	230 μg/ft²
0924JB02	2nd Floor Bedroom 1–Floor	<10 μg/ft²
0924JB03	2nd Floor Bathroom–Window Well	210 μg/ft²
0924JB04	2nd Floor Bathroom–Floor	<10 μg/ft²
0924JB05	Kitchen–Window Sill	<40 μg/ft²
0924JB06	Kitchen–Floor	<10 μg/ft²
0924JB07	Dining Room – Window Sill	<40 μg/ft²
0924JB08	Dining Room – Floor	<10 μg/ft²
0924JB09	Living Room – Window Sill	<40 μg/ft²
0924JB10	Living Room – Floor	< 10 μg/ft²
0924JB11	Field Blank	< 10 μg/wipe
0924JB12	Field Blank	< 10 μg/wipe

* **μg/ft²** = micrograms per square foot

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

- 40 μg/ft² - for floors;
- 250 μg/ft² - for window sills
- 400 μg/ft² - for window wells

Note: Interior window sills did not exist within some window systems observed at the Site.

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

3.4 Soil Samples

No bare soil areas were identified along the exterior building drip line; therefore lead content in soil was not assessed.

3.5 Lead in Drinking Water Results

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

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

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

3.6 Conclusions

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

- Interior Window Trim and Sill
- Metal Window Sash
- Radiators
- Support Column
- Basement Window Sash and Trim

This inspection was performed as a comprehensive inspection of 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. If a specific component or surface is not identified as having been tested it should be presumed to contain lead paint unless tested.

Exterior defective LBP identified on the exterior metal window sash on the C-side and basement window sash and trim on the D-side of the residence can be managed with interim controls that consist of scrapping defective LBP and encapsulating the painted surface with a State of Connecticut-approved encapsulant.

If these building components are to be demolished during renovations, we recommend a TCLP sample of the anticipated waste stream be collected and analyzed to determine waste management options.

The Contractor shall be aware that OSHA has not established a level of lead in a material below which Title 29 CFR, Part 1926.62 ("Lead in Construction") does not apply. Contractors should be aware that the threshold limit of 1.0 mg/cm^2 for purposes of RRP requirements is not recognized by the

Occupational Safety and Health Administration (OSHA) and worker exposures are still subject to the Lead in Construction regulation (Title 29 CFR, Part 1926.62). The Contractor shall comply with employee exposure assessment criteria, interim worker protection, and other requirements of the regulation, as necessary, to protect workers and building occupants from potential lead exposure.

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

Dust wipe sample results were below the CTDPH and HUD standard throughout the Site. A lead dust hazard does not exist in the areas tested.

Both drinking water sample results indicate total lead in water at concentrations of 0.005 mg/L. A lead in drinking water hazard does not exist in the building tested.

4 Assessment of PCB-Containing Fluorescent Ballasts

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

On September 24, 2014, EnviroScience representative Mr. Blum performed a visual inspection of representative fluorescent light fixtures to identify possible PCB-containing ballasts. The inspection involved visually inspecting labels on representative light ballasts to identify dates of manufacture and labels indicating "No PCB's". Ballasts manufactured after 1991 were not listed as a PCB or DEHP-containing ballast, and not quantified for disposal. Ballasts without a label indicating "No PCB's" are presumed to be PCB waste, and must be segregated for proper removal, packaging, transport and disposal as PCB waste. Ballasts with date labels indicating manufacture prior to 1991 that indicate "No PCB's" are presumed to contain DEHP and must be segregated for proper removal, packaging, transport, and disposal as non-PCB hazardous waste. The disposal requirements are slightly varied, and costs are slightly less for DEHP than for PCB-containing light ballasts.

4.1 Results

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

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

4.2 Conclusions

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

5 Assessment of Mercury-Containing Devices

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

On September 24, 2014, EnviroScience's representative Mr. Blum 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 September 24, 2014, EnviroScience representative Mr. Blum performed a visual assessment for the presence of suspect mold and water intrusion.

6.1 Observations

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

7 Airborne Gas Radon Information, Sampling and Procedure

7.1 Radon Facts and Health Effects

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

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

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

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

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

7.2 Airborne Radon Sampling

From September 24, 2014 to September 26, 2014, EnviroScience representatives deployed passive radon detection canisters in limited areas within the Site building. The canisters were retrieved at least 48-hours, but not later than 96-hours later. The canisters were supplied by Radon Testing Corporation of America (RTCA).

It is recommended that such canisters be placed at least 20-inches from the floor and 12-inches away from exterior walls. Also, it is recommended that the canisters not be placed near drafts resulting from Heating, Ventilating and Air Conditioning (HVAC) intakes and returns, doors, and at least 36-inches from windows. Also, canisters should not be exposed to direct sunlight, be covered up, or otherwise disturbed

during the testing period. A closed building condition is also utilized for 12-hours prior to testing being conducted.

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

7.3 Airborne Radon Quality Assurance Procedure

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

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

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

7.4 Airborne Radon Analytical Results

Four canisters, including one duplicate and one blank, were placed in target locations within the structure during sampling that was performed September 24, 2014 to September 26, 2014. The concentrations of radon in the samples during the assessment ranged from 0.1 pCi/L to 2.2 pCi/L. The EPA recommended action level for radon is 4.0 pCi/L.

Table 5 lists the locations and analytical results of the quality control duplicate tests for September 24, 2014 to September 26, 2014.

Table 5
Duplicate Sample Results: September 24, 2014 – September 26, 2014

Location	Canister Numbers	Radon Concentration (pCi/Liter)			Relative Percent Difference (RPD, %)
		Sample	Sample Duplicate	Sample Average	
Basement	2343331 & 2343258	2.2	2.1	2.2	Percent Difference Not Needed (No Concentrations above 4.0 pCi/Liter)

Note Duplicate testing results were satisfactory.

In *Table 6* below, the locations and results of the quality control blank test is listed for September 24, 2014 to September 26, 2014.

Table 6
Blank Sample Results: September 24, 2014 – September 26, 2014

Location	Canister Number	Radon Concentration (pCi/Liter)
Dining Room	2343167	0.1

Note Blank testing results were satisfactory

In *Table 7* below, the locations, canister numbers, and radon concentrations are listed for the airborne radon assessment conducted on September 24, 2014 to September 26, 2014.

Table 7
Radon Sampling Results: September 24, 2014 – September 26, 2014

Location	Canister Numbers	Radon Concentration (pCi/Liter)
Basement	234331	2.2
Dining Room	2313964	1.4

7.5 Conclusions and Recommendation

During the course of the initial radon gas measurement assessment, four sampling canisters, including one duplicate canister and one blank canister, 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. No further actions are required.
Refer to *Appendix H* for site photographs.

Report prepared by Environmental Technician James Blum.

Reviewed by:

Kevin McCarthy
Project Manager

Timothy M. Downey
Senior Project Manager

FUSS & O'NEILL
EnviroScience.m

Appendix A

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

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

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

INSTRUCTIONS:

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

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

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

ASBESTOS CONSULTANT - INSPECTOR

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

JAMES B BLUM

SIGNATURE COMMISSIONER

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JAMES B BLUM

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

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JAMES B BLUM

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

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE COMMISSIONER

Fuss & O'Neill EnviroScience, LLC

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

This is to certify that

James Blum

xxx-xx-1625

has successfully completed the

4 Hr. Asbestos Inspector Refresher

Asbestos Accreditation under TSCA Title II

40 CFR Part 763

John Rowinski, Principal Instructor

Robert L. May, Jr., Training Manager

September 3, 2014

Date of Course

AI-R-09/14-2

Certificate Number

September 3, 2014

Examination Date

September 3, 2015

Expiration Date

JAMES B BLUM
FUSS & O'NEILL ENVIROSCIENCE LLC
146 HARTFORD RD
MANCHESTER CT 06040-5992

Dear JAMES B BLUM,

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

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

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

Sincerely,

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

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JAMES B BLUM

VALIDATION NO	CERTIFICATE NO	CURRENT THROUGH
03-912781	002256	11/30/14

PROFESSION
LEAD INSPECTOR RISK ASSESSOR

SIGNATURE COMMISSIONER

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 RISK ASSESSOR

JAMES B BLUM

CERTIFICATE NO
002256
CURRENT THROUGH
11/30/14
VALIDATION NO
03-912781

SIGNATURE COMMISSIONER

INSTRUCTIONS

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JAMES B BLUM

VALIDATION NO	CERTIFICATE NO	CURRENT THROUGH
03-912781	002256	11/30/14

PROFESSION
LEAD INSPECTOR RISK ASSESSOR

SIGNATURE COMMISSIONER

Fuss & O'Neill EnviroScience, LLC

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

This is to certify that

James Blum

xxx-xx-1625

has successfully completed the

8 Hour Lead Inspector Risk Assessor Refresher Course

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

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

Brian Santos, Principal Instructor

Robert L. May, Jr., Training Manager

February 20 & 25, 2014

Date of Course

LIRA-R-02/14-3

Certificate Number

February 25, 2014

Examination Date

February 25, 2015

Expiration Date

Appendix B

Asbestos Sample Results and Chain-of-Custody Forms

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

EMSL Order:	041428333
CustomerID:	ENVI54
CustomerPO:	20140277.D5E
ProjectID:	

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

Phone:	(860) 646-2469
Fax:	(888) 838-1160
Received:	09/26/14 10:00 AM
Analysis Date:	9/27/2014
Collected:	9/25/2014

Project: **QA- Storm Sandy / 24 Coolridge Road, Milford / 20140277.D5E**

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

			Non-Asbestos				Asbestos
Sample	Description	Appearance	%	Fibrous	%	Non-Fibrous	% Type
0924JB01A *041428333-0001*	Kitchen - White/ Gray Sheetrock	Gray/White Fibrous Homogeneous	10%	Cellulose	90%	Non-fibrous (other)	None Detected
0924JB01B *041428333-0002*	Basement - White/ Gray Sheetrock	Gray/White Fibrous Homogeneous	10%	Cellulose	90%	Non-fibrous (other)	None Detected
0924JB01C *041428333-0003*	Basement - White/ Gray Sheetrock	Brown/Gray Fibrous Homogeneous	10%	Cellulose	90%	Non-fibrous (other)	None Detected
0924JB02A *041428333-0004*	Kitchen - White Taping Compound	Brown/White Fibrous Homogeneous	10%	Cellulose	90%	Non-fibrous (other)	None Detected
0924JB02B *041428333-0005*	Basement - White Taping Compound	Brown/White Fibrous Homogeneous	10%	Cellulose	90%	Non-fibrous (other)	None Detected
0924JB02C *041428333-0006*	Basement - White Taping Compound	Brown/White Fibrous Homogeneous	30%	Cellulose	70%	Non-fibrous (other)	None Detected
0924JB03 *041428333-0007*	Kitchen - Sheetrock/ Taping Compound	Brown/Gray/White Fibrous Homogeneous	30%	Cellulose	70%	Non-fibrous (other)	None Detected
0924JB04A *041428333-0008*	Furnace Room - White Top Layer Flue Cement	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	None Detected

Analyst(s)

Chelsey Bilhear (21)
Clarissa Turton (25)

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 03038, PA ID# 68-00367

Initial report from 09/27/2014 08:19:12

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

			Non-Asbestos		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
0924JB04B *041428333-0009*	Furnace Room - White Top Layer Flue Cement	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0924JB05A *041428333-0010*	Furnace Room - Gray Bottom Layer Flue Cement	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0924JB05B *041428333-0011*	Furnace Room - Gray Bottom Layer Flue Cement	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0924JB06A *041428333-0012*	Furnace Room - Gray Original Flue Cement	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0924JB06B *041428333-0013*	Furnace Room - Gray Original Flue Cement	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0924JB07A *041428333-0014*	Furnace Room - Red Chimney Brick	Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0924JB07B *041428333-0015*	Furnace Room - Red Chimney Brick	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0924JB08A *041428333-0016*	Furnace Room - Gray Chimney Brick Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

Analyst(s)
Chelsey Bilhear (21)
Clarissa Turton (25)

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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EMSL Order:	041428333
CustomerID:	ENVI54
CustomerPO:	20140277.D5E
ProjectID:	

Attn: **Kevin McCarthy**
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Phone:	(860) 646-2469
Fax:	(888) 838-1160
Received:	09/26/14 10:00 AM
Analysis Date:	9/27/2014
Collected:	9/25/2014

Project: **QA- Storm Sandy / 24 Coolridge Road, Milford / 20140277.D5E**

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

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
0924JB08B *041428333-0017*	Furnace Room - Gray Chimney Brick Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0924JB09A *041428333-0018*	Furnace Room- Under Bulkhead - Gray Concrete Stairs	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0924JB09B *041428333-0019*	Furnace Room- Under Bulkhead - Gray Concrete Stairs	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0924JB10A *041428333-0020*	Furnace Room - Gray Concrete Block Wall	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0924JB10B *041428333-0021*	Furnace Room - Gray Concrete Block Wall	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0924JB11A *041428333-0022*	Furnace Room - Gray Concrete Block Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0924JB11B *041428333-0023*	Furnace Room - Gray Concrete Block Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0924JB12A *041428333-0024*	Furnace Room - Gray Boiler Bed Concrete Block	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

Analyst(s)
Chelsey Bilhear (21)
Clarissa Turton (25)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

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Initial report from 09/27/2014 08:19:12

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CustomerID:	ENV154
CustomerPO:	20140277.D5E
ProjectID:	

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146 Hartford Road
Manchester, CT 06040

Phone:	(860) 646-2469
Fax:	(888) 838-1160
Received:	09/26/14 10:00 AM
Analysis Date:	9/27/2014
Collected:	9/25/2014

Project: **QA- Storm Sandy / 24 Coolridge Road, Milford / 20140277.D5E**

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

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
0924JB12B *041428333-0025*	Furnace Room - Gray Boiler Bed Concrete Block	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0924JB13A *041428333-0026*	Furnace Room - Gray Boiler Bed Concrete Block Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0924JB13B *041428333-0027*	Furnace Room - Gray Boiler Bed Concrete Block Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0924JB14A *041428333-0028*	Furnace Room - Gray/ Blue Floor Paint	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0924JB14B *041428333-0029*	Furnace Room - Gray/ Blue Floor Paint	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0924JB14C *041428333-0030*	Basement - Gray/ Blue Floor Paint	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0924JB15A *041428333-0031*	Basement - Gray Concrete Floor Slab	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
0924JB15B *041428333-0032*	Furnace - Gray Concrete Floor Slab	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

Analyst(s)
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Clarissa Turton (25)

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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CustomerPO:	20140277.D5E
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Fax:	(888) 838-1160
Received:	09/26/14 10:00 AM
Analysis Date:	9/27/2014
Collected:	9/25/2014

Project: **QA- Storm Sandy / 24 Coolridge Road, Milford / 20140277.D5E**

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

			Non-Asbestos				Asbestos
Sample	Description	Appearance	%	Fibrous	%	Non-Fibrous	% Type
0924JB16A *041428333-0033*	Exterior - White Exterior Window Caulking Compound	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
0924JB16B *041428333-0034*	Exterior - White Exterior Window Caulking Compound	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
0924JB16C *041428333-0035*	Exterior - White Exterior Window Caulking Compound	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
0924JB17A *041428333-0036*	Exterior - Black Roofing Basesheet	Black Fibrous Homogeneous	25%	Glass	75%	Non-fibrous (other)	**None Detected**
0924JB17B *041428333-0037*	Exterior - Black Roofing Basesheet	Black Fibrous Homogeneous	25%	Glass	75%	Non-fibrous (other)	**None Detected**
0924JB17C *041428333-0038*	Exterior - Black Roofing Basesheet	Black Fibrous Homogeneous	15%	Glass	85%	Non-fibrous (other)	**None Detected**
0924JB18A *041428333-0039*	Exterior - Black Asphalt Roof Shingle	Black Fibrous Homogeneous	20%	Glass	80%	Non-fibrous (other)	**None Detected**
0924JB18B *041428333-0040*	Exterior - Black Asphalt Roof Shingle	Black Fibrous Homogeneous	20%	Glass	80%	Non-fibrous (other)	**None Detected**

Analyst(s)
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Clarissa Turton (25)

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

			Non-Asbestos				Asbestos	
Sample	Description	Appearance	%	Fibrous	%	Non-Fibrous	%	Type
0924JB18C *041428333-0041*	Exterior - Black Asphalt Roof Shingle	Black Fibrous Homogeneous	15%	Glass	85%	Non-fibrous (other)		None Detected
0924JB19A *041428333-0042*	Exterior- Behind Vinyl Siding/ Foam Insulation - Gray Transite Siding	Gray Fibrous Homogeneous			85%	Non-fibrous (other)	15%	Chrysotile
0924JB19B *041428333-0043*	Exterior- Behind Vinyl Siding/ Foam Insulation - Gray Transite Siding							Stop Positive (Not Analyzed)
0924JB19C *041428333-0044*	Exterior- Behind Vinyl Siding/ Foam Insulation - Gray Transite Siding							Stop Positive (Not Analyzed)
0924JB20A *041428333-0045*	Exterior - Gray Foundation Concrete Block	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)		None Detected
0924JB20B *041428333-0046*	Exterior - Gray Foundation Concrete Block	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)		None Detected
0924JB21A *041428333-0047*	Exterior - Gray Foundation Concrete Block Grout	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)		None Detected

Analyst(s)

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Clarissa Turton (25)

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Project: **QA- Storm Sandy / 24 Coolridge Road, Milford / 20140277.D5E**

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

			Non-Asbestos		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
0924JB21B *041428333-0048*	Exterior - Gray Foundation Concrete Block Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

Analyst(s)
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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 09/27/2014 08:19:12

THIS IS THE LAST PAGE OF THE REPORT.

OrderID: 041428333

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041428333

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ASBESTOS BULK SAMPLE CHAIN OF CUSTODY FORM

Sheet _1_ of _4_

Project Name: QA- Storm Sandy Project No. 20140277.D5E Date: 9/25/2014

Site Address: 24 Coolridge Road, Milford Project Manager: Kevin McCarthy

Sample ID	Sample Location	Type of Material
0924JB01A	Kitchen	White/Gray Sheetrock
0924JB01B	Basement	White/Gray Sheetrock
0924JB01C	Basement	White/Gray Sheetrock
0924JB02A	Kitchen	White Taping compound
0924JB02B	Basement	White Taping Compound
0924JB02C	Basement	White Taping Compound
0924JB03	Kitchen	Sheetrock/Taping Compound Composite
0924JB04A	Furnace Room	White Top Layer Flue Cement
0924JB04B	Furnace Room	White Top Layer Flue Cement
0924JB05A	Furnace Room	Gray Bottom Layer Flue Cement
0924JB05B	Furnace Room	Gray Bottom Layer Flue Cement
0924JB06A	Furnace Room	Gray Original Flue Cement
0924JB06B	Furnace Room	Gray Original Flue Cement
0924JB07A	Furnace Room	Red Chimney Brick
0924JB07B	Furnace Room	Red Chimney Brick

Analysis Method: ☒ PLM ☐ TEM ☐ Other _____ Turnaround Time: 24 Hours

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____ Please c EnviroScience if analyses will not be completed for requested TAT at (203) 374 - 3748.

RECEIVED EMSL CINNAMINSON, NJ SEP 26 AM 10:53

Email Results to: Kmccarthy@fando.com Do Not Mail Hard Copy Report Total # of Samples: 48
FAX Results to: 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. If NOB group samples are all negative by PLM, analyze only "A" group sample (as noted by astensk [*] above) by TEM NOB, per group.

Samples collected by: J Blm

Samples Sent by: J Blm Date: 9-25-14 Time: 1700

Samples Received by: [illegible] Date: 9-26-14 Time: 10A

Shipped To: ☒ EMSL State NJ ☐ Other _____

Method of Shipment: ☒ FedEx ☐ Lab Drop Off ☐ Other _____

48 Pk

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ASBESTOS BULK SAMPLE CHAIN OF CUSTODY FORM

Sheet _2_ of _4_

Project Name: QA- Storm Sandy Project No. 20140277.D5E Date: 9/25/2014

Site Address: 24 Coolridge Road, Milford Project Manager: Kevin McCarthy

Sample ID	Sample Location	Type of Material
0924JB08A	Furnace Room	Gray Chimney Brick Grout
0924JB08B	Furnace Room	Gray Chimney Brick Grout
0924JB09A	Furnace Room – Under Bulkhead	Gray Concrete Stairs
0924JB09B	Furnace Room – Under Bulkhead	Gray Concrete Stairs
0924JB10A	Furnace Room	Gray Concrete Block Wall
0924JB10B	Furnace Room	Gray Concrete Block Wall
0924JB11A	Furnace Room	Gray Concrete Block Grout
0924JB11B	Furnace Room	Gray Concrete Block Grout
0924JB12A	Furnace Room	Gray Boiler Bed Concrete Block
0924JB12B	Furnace Room	Gray Boiler Bed Concrete Block
0924JB13A	Furnace Room	Gray Boiler Bed Concrete Block Grout
0924JB13B	Furnace Room	Gray Boiler Bed Concrete Block Grout
0924JB14A	Furnace Room	Gray/Blue Floor Paint
0924JB14B	Furnace Room	Gray/Blue Floor Paint
0924JB14C	Basement	Gray/Blue Floor Paint

Analysis Method: ☒ PLM ☐ TEM ☐ Other _____ Turnaround Time: 24 Hours

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____ Please call EnviroScience if analyses will not be completed for requested TAT at (203) 374 - 3748.

RECEIVED EMSL CINNAMINSON, NJ SEP 29 AM 10:53

Email Results to: Kmccarthy@fando.com Do Not Mail Hard Copy Report Total # of Samples: 48
FAX Results to: 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. If NOB group samples are all negative by PLM, analyze only "A" group sample (as noted by asterisk [*] above) by TEM NOB, per group.

Samples collected by: JBlm

Samples Sent by: JBlm Date: 9-25-14 Time: 1700

Samples Received by: _____ Date: _____ Time: _____

Shipped To: ☒ EMSL State NJ ☐ Other _____

Method of Shipment: ☒ FedEx ☐ Lab Drop Off ☐ Other _____

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ASBESTOS BULK SAMPLE CHAIN OF CUSTODY FORM

Sheet _3_ of _4_

Project Name: QA- Storm Sandy Project No. 20140277.D5E Date: 9/25/2014

Site Address: 24 Coolridge Road, Milford Project Manager: Kevin McCarthy

Sample ID	Sample Location	Type of Material
0924JB15A	Basement	Gray Concrete Floor Slab
0924JB15B	Furnace	Gray Concrete Floor Slab
0924JB16A	Exterior	White Exterior Window Caulking Compound
0924JB16B	Exterior	White Exterior Window Caulking Compound
0924JB16C	Exterior	White Exterior Window Caulking Compound
0924JB17A	Exterior	Black Roofing Basesheet
0924JB17B	Exterior	Black Roofing Basesheet
0924JB17C	Exterior	Black Roofing Basesheet
0924JB18A	Exterior	Black Asphalt Roof Shingle
0924JB18B	Exterior	Black Asphalt Roof Shingle
0924JB18C	Exterior	Black Asphalt Roof Shingle
0924JB19A	Exterior – Behind Vinyl Siding/Foam Insulation	Gray Transite Siding
0924JB19B	Exterior – Behind Vinyl Siding/Foam Insulation	Gray Transite Siding
0924JB19C	Exterior – Behind Vinyl Siding/Foam Insulation	Gray Transite Siding
0924JB20A	Exterior	Gray Foundation Concrete Block

RECEIVED
EMSL
CINNAMINSON NJ
SEP 26 AM 9:53

Analysis Method: ☒ PLM ☐ TEM ☐ Other _____ Turnaround Time: 24 Hours

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____ Please call EnviroScience if analyses will not be completed for requested TAT at (203) 374 - 3748.

Email Results to: Kmccarthy@fando.com Do Not Mail Hard Copy Report Total # of Samples: 48
FAX Results to: 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. If NOB group samples are all negative by PLM, analyze only "A" group sample (as noted by asterisk [*] above) by TEM NOB, per group.

Samples collected by: JBlum

Samples Sent by: JBlum Date: 9-25-14 Time: 1700

Samples Received by: _____ Date: _____ Time: _____

Shipped To: ☒ EMSL State NJ ☐ Other _____

Method of Shipment: ☒ FedEx ☐ Lab Drop Off ☐ Other _____

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OrderID: 041428333

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ASBESTOS BULK SAMPLE CHAIN OF CUSTODY FORM

Sheet _4_ of _4_

Project Name: QA- Storm Sandy Project No. 20140277.D5E Date: 9/25/2014

Site Address: 24 Coolridge Road, Milford Project Manager: Kevin McCarthy

Sample ID	Sample Location	Type of Material
0924JB20B	Exterior	Gray Foundation Concrete Block
0924JB21A	Exterior	Gray Foundation Concrete Block Grout
0924JB21B	Exterior	Gray Foundation Concrete Block Grout

RECEIVED EMSL CINNAMINSON, NJ 14 SEP 26 AM 10: 53

Analysis Method: ☒ PLM ☐ TEM ☐ Other _____ Turnaround Time: 24 Hours

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____ Please call EnviroScience if analyses will not be completed for requested TAT at (203) 374 - 3748.

Email Results to: Kmccarthy@fando.com **Do Not Mail Hard Copy Report** **Total # of Samples:** 48
FAX Results to: 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. If NOB group samples are all negative by PLM, analyze only "A" group sample (as noted by asterisk [*] above) by TEM NOB, per group.

Samples collected by: JBlm

Samples Sent by: JBlm **Date:** 9-25-14 **Time:** 1700

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

Shipped To: ☒ EMSL State NJ ☐ Other _____

Method of Shipment: ☒ FedEx ☐ Lab Drop Off ☐ Other _____

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Appendix C

Lead Paint Testing Procedures and Equipment

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

Testing Procedures and Equipment

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

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

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

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

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

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

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

Radiation Monitoring Device LPA Analyzer 1

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

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

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

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

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

Lead Dust Wipe Sampling Protocol

Data Collection

A. A description of the sample location is recorded.

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

C. Surface area measurements are recorded.

Wipe Sampling Method

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

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

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

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

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

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

Appendix D

Lead Testing Field Data Sheets

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

LEAD INSPECTION COVER SHEET

Inspector's Information

Inspector's Name: James Blum

License Number: 002256

XRF Model: LPA-1A

Serial Number: 1377

Date of Inspection: September 24, 2014

Project Number: 20140277.D5E

Property Information

Building Address: 24 Coolridge Road (Street)

Milford (City) CT (State) Age of Property: Unknown

Describe Structure: The structure is constructed of exterior vinyl siding with vinyl/wood/metal window and door systems. The interior walls and ceiling are constructed mostly of sheetrock with wood floors.

Are there lead hazards present? ☐ Yes ☒ No

Were lead dust wipes taken? ☒ Yes ☐ No

Were soil samples collected? ☐ Yes ☒ No

Were drinking water samples collected? ☒ Yes ☐ No

Single Family Dwelling ☒

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

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

Multiple Family Dwelling ☐

Number of units in building: _____

Number of units tested: _____

Is there an EBL child present in the building? ☐ Yes ☐ No ☐ Unknown

If EBL child, which unit(s)? _____

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

If child under six, which unit(s)? _____

XRF Calibration Check

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

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

	Hour	First Reading	Second Reading	Third Reading	Average
First Check	1500	1.0	1.0	1.1	1.03
Second Check	1800	1.2	1.0	1.0	1.06
Third Check					
Fourth Check					

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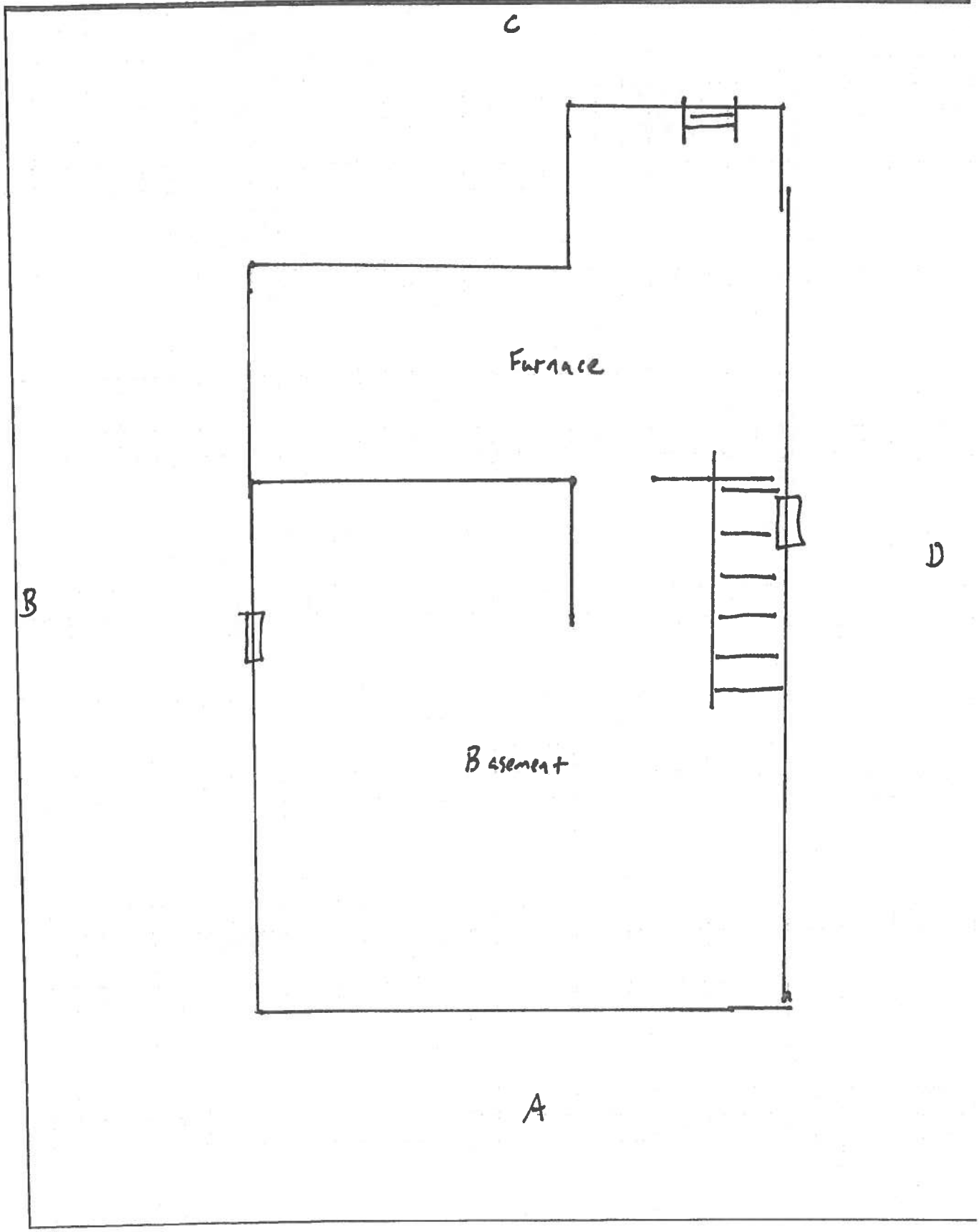
Prepared By	Date	Checked By	Date	Project No

Sheet No
of



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Prepared By	Date	Checked By	Date	Project No

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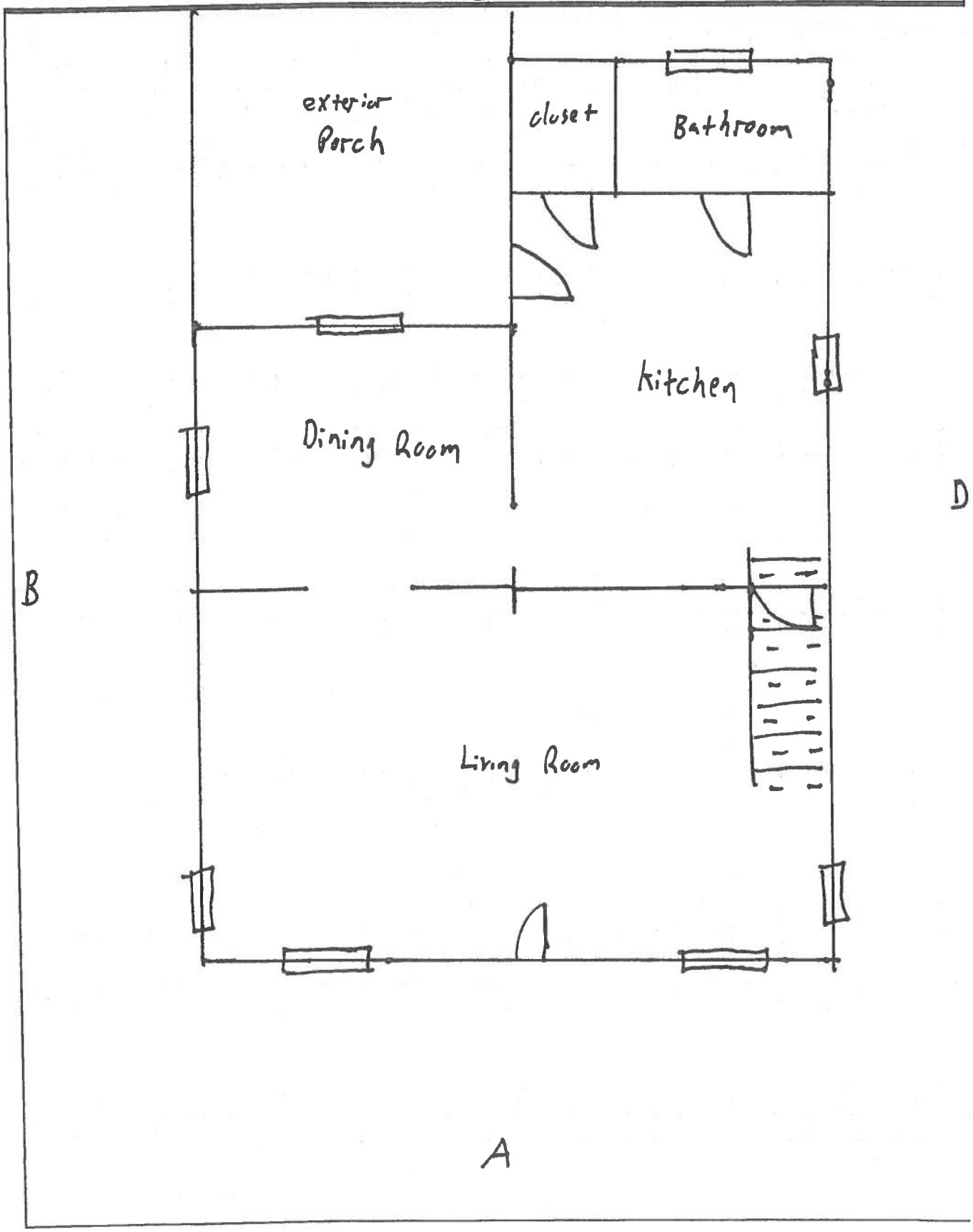

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Prepared By	Date	Checked By	Date	Project No

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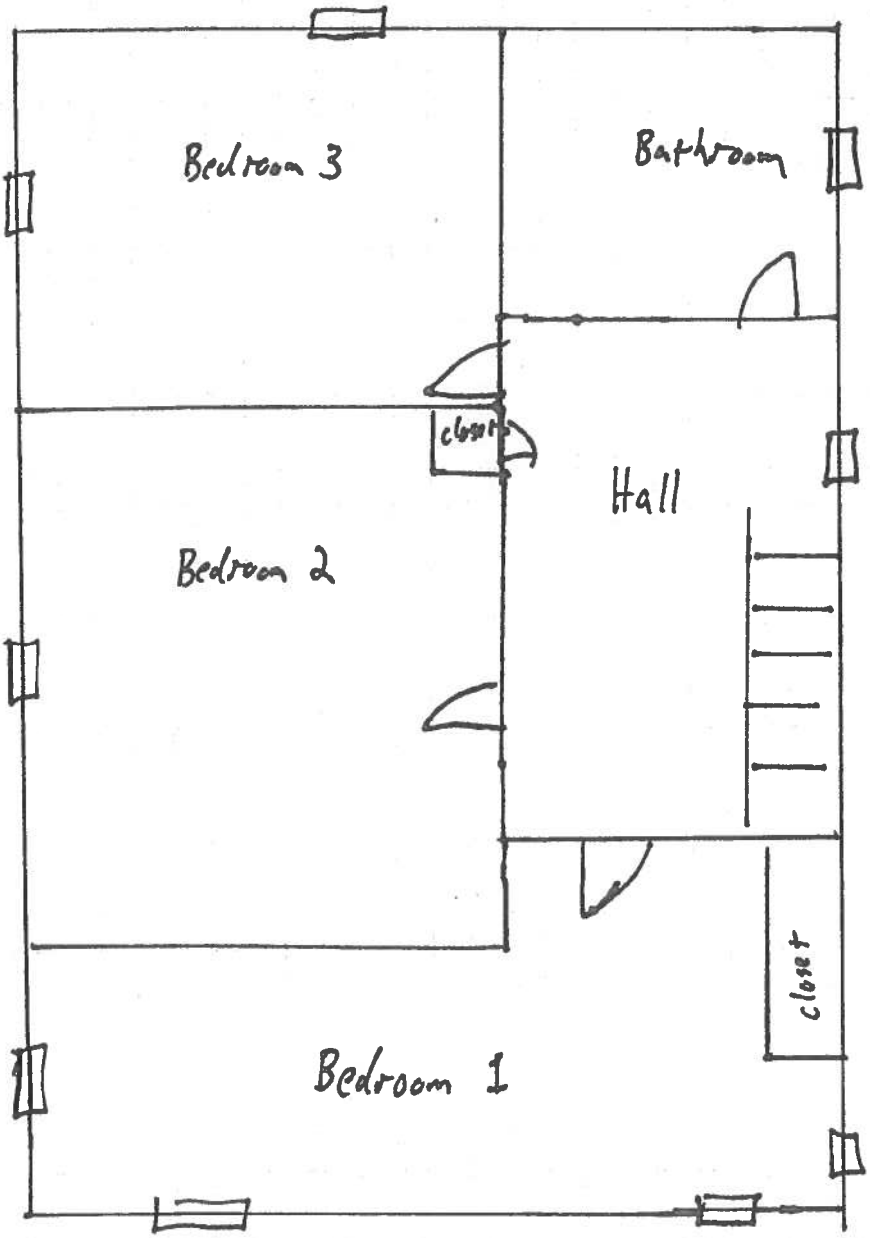

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 241 Coolridge Road **Apt. #:**
Floor: 2nd **Room:** Bedroom 1 **Page** 1 **of** 15
Project Name: QA Storm Sandy **Project Number:** 20140277 DSE
Project Manager: Kevin McCarthy (If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Color	Defective	Chewable	Friction	Impact	Comments
	Floor	N/C		Wood	/					Bare wood
	Baseboards	0.2	N	Wood	White					
A	Wall	0.0	N	S	Tan					
B	Wall	0.1	N	S	Tan					
C	Wall	-0.0	N	S	Tan					
D	Wall	0.2	N	S	Tan					
	Chair rail									
	Ceiling	-0.1	N	S						
	Crown Molding									
	Door	-0.1	N	W	White					Door to Hall
	Casing	0.3	N	W	White					1
	Jamb	0.1	N	W	White					
	Door	-0.1	N	W	White					Closet door
	Casing	0.2	N	W	White					
	Jamb	-0.0	N	W	White					
	Window Trim	7.1	Y	W	White	N				
	Sill	0.8	N	W	White					
	Sash	0.3	N	W	White					
	Well	-0.1	N	W	White					
	Cabinet Base									
	Door Exterior									
	Door Interior									
	Walls									
	Shelves									
	Shelf Supports									
	Closet Shelf	N/C	–	Wood	/					Bare wood
	Shelf Supports	-0.2	N	Wood	White					
	Radiator	0.5	N	M	White					
	Wall Molding									

* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B
N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 24 Coolridge Road, Milford **Apt. #:**

Floor: 2 **Room:** Bed room 2 **Page** 2 **of** 15

Project Name: CT - Storm Sandy **Project Number:** 20140277.D5E

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

Side	Surface	XRF Readings	POS	Substrate	Color	Defective	Chewable	Friction	Impact	Comments
	Floor	0.1	N	W	—					
	Baseboards	-0.0	N	W	White					
A	Wall	-0.0	N	S	Tan					
B	Wall	0.4	N	S	Tan					
C	Wall	-0.0	N	S	Tan					
D	Wall	-0.0	N	S	Tan					
	Chair rail									
	Ceiling	0.0	N	S	White					
	Crown Molding									
	Door	-0.1	N	W	White					
	Casing	0.1	N	W	White					
	Jamb	0.0	N	W	White					
	Door	0.1	N	W	White					
	Casing	0.0	N	W	White					
	Jamb	0.2	N	W	White					
	Window Trim	0.4	N	W	White					
	Sill	0.1	N	W	White					
	Sash	0.0	N	V	White					
	Well	0.1	N	V	White					
	Cabinet Base									
	Door Exterior									
	Door Interior									
	Walls									
	Shelves									
	Shelf Supports									
	Closet Shelf									
	Shelf Supports	0.1	N	W	White					
	Radiator	2.0	Y	M	White					
	Wall Molding									

* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B
N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 24 Coolridge Road, Milford **Apt. #:** _____

Floor: 2nd **Room:** Bedroom 3 **Page** 3 **of** 15

Project Name: QA - Storm Sandy **Project Number:** 20140277.D5E

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

Side	Surface	XRF Readings	POS	Substrate	Color	Defective	Chewable	Friction	Impact	Comments
	Floor	N/C	.	W	—					Bare wood
	Baseboards	0.0	N	W	White					
A	Wall	0.1	N	S	Tan					
B	Wall	-0.2	N	S	Tan					
C	Wall	0.0	N	S	Tan					
D	Wall	-0.0	N	S	Tan					
	Chair rail									
	Ceiling	-0.0	N	S	White					
	Crown Molding									
	Door	-0.1	N	W	White					Door to Hall
	Casing	0.1	N	W	White					1
	Jamb	0.2	N	W	White					
	Door	0.0	N	W	White					Door to closet
	Casing	0.4	N	W	White					1
	Jamb	0.2	N	W	White					
	Window Trim	0.1	N	W	White					New style
	Sill	0.2	N	W	White					
	Sash	-0.1	N	W	White					
	Well	0.2	N	W	White					
	Cabinet Base									
	Door Exterior									
	Door Interior									
	Walls									
	Shelves									
	Shelf Supports									
	Closet Shelf	0.0	N	W	White					
	Shelf Supports	0.1	N	W	White					
	Radiator	1.8	Y	M	White	N				
	Wall Molding									

* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B
N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

Notes: _____

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 24 Coolridge Road, Milford CT **Apt. #:**

Floor: 2nd **Room:** Bathroom **Page** 4 **of** 15

Project Name: QA - Storm Sandy **Project Number:** 20140277.05E

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

Side	Surface	XRF Readings	POS	Substrate	Color	Defective	Chewable	Friction	Impact	Comments
	Floor	-0.0	N	Ceramic Tile	White					
	Baseboards	-0.0	N	W	White					
A	Wall	-0.0	N	S	Tan					
B	Wall	-0.1	N	Ceramic Tile	White					
C	Wall	0.0	N	S	Tan					
D	Wall	0.0	N	S	Tan					
	Chair rail	—								
	Ceiling	0.0	N	S	White					
	Crown Molding	—								
	Door	-0.2	N	W	White					Door to hall
	Casing	0.4	N	W	White					
	Jamb	-0.0	N	W	White					
	Door	—								
	Casing	—								
	Jamb	—								
	Window Trim	-0.1	N	W	White					New Style window
	Sill	0.2	N	W	White					
	Sash	-0.0	N	V	White					
	Well	-0.0	N	V	White					
	Cabinet Base	0.0	N	W	—					
	Door Exterior	0.0	N	W	—					
	Door Interior	0.1	N	W	—					
	Walls	-0.1	N	W	—					
	Shelves	~~White~~		~~Brown~~						
	Shelf Supports	~~White~~		~~Brown~~						
	Closet Shelf	—								
	Shelf Supports	—								
	Radiator	2.0	Y	M	Brown					
	Wall Molding	—								

* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B
N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 24 Coolridge Road Milford CT **Apt. #:**

Floor: 2 **Room:** Hall **Page** 5 **of** 15

Project Name: ~~[illegible]~~ QA-Stara Sandy **Project Number:** 20140277.05F

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

Side	Surface	XRF Readings	POS	Substrate	Color	Defective	Chewable	Friction	Impact	Comments
	Floor	0.0	N	W	—					
	Baseboards	0.0	N	W	white					
A	Wall	-0.1	N	W	—					
B	Wall	0.0	N	S	Tan					
C	Wall	-0.0	N	S	Tan					
D	Wall	-0.0	N	W	—					
	Chair rail									
	Ceiling	0.0	N	S	white					
	Crown Molding									
	Door	-0.0	N	W	white					
	Casing	0.3	N	W	White					
	Jamb	0.0	N	W	White					
	Door									
	Casing									
	Jamb									
	Window Trim	8.2	Y	W	White					
	Sill	5.1	Y	W	White					
	Sash	0.3	N	V	white					
	Well	-0.1	N	V	White					
	Cabinet Base									
	Door Exterior									
	Door Interior									
	Walls									
	Shelves									
	Shelf Supports									
	Closet Shelf	N/C		Bare wood						
	Shelf Supports	N/C		Bare wood						
	Radiator									
	Wall Molding									

* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B
N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 74 Coolridge Road, Milford **Apt. #:**

Floor: 1st **Room:** Bathroom **Page** 6 **of** 15

Project Name: QA - Storm Sandy **Project Number:** 20140277.DSE

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

Side	Surface	XRF Readings	POS	Substrate	Color	Defective	Chewable	Friction	Impact	Comments
	Floor	-0.1	N	V Tile	Brown					
	Baseboards	0.1	N	M	White					
A	Wall	0.1	N	S	Tan					
B	Wall	0.0	N	S	Tan					
C	Wall	0.2	N	S	Tan					
D	Wall	-0.1	N	S	Tan					
	Chair rail	—	—	—	—					
	Ceiling	0.1	N	S	White					
	Crown Molding	—	—	—	—					
	Door	-0.1	N	W	White					
	Casing	0.4	N	W	White					
	Jamb	0.1	N	W	White					
	Door	—	—	—	—					
	Casing	—	—	—	—					
	Jamb	—	—	—	—					
	Window Trim	0.0	N	W	White					
	Sill	-0.1	N	W	White					
	Sash	1.6	Y	M	White	N				
	Well	—	—	—	—					
	Cabinet Base	N/C			Bare W					
	Door Exterior	N/C			Bare W					
	Door Interior	N/C			Bare W					
	Walls	N/C			Bare W					
	Shelves	~~N/C~~								
	Shelf Supports	~~N/C~~								
	Closet Shelf	—	—	—	—					
	Shelf Supports	—	—	—	—					
	Radiator	—	—	—	—					
	Wall Molding	—	—	—	—					
	Window Shutters	0.0	N	V	White					

* 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

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 34 Coolridge Road, Milford **Apt. #:** _____

Floor: 1st **Room:** Kitchen **Page** 7 **of** 15

Project Name: QA storm Sandy **Project Number:** 20140277.D5E

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

Side	Surface	XRF Readings	POS	Substrate	Color	Defective	Chewable	Friction	Impact	Comments
	Floor	0.0	N	V Tile	Brown					
	Baseboards	N/C		Bare W	—					
A	Wall	-0.1	N	S	Tan					
B	Wall	-0.2	N	S	Tan					
C	Wall	-0.2	N	S	Tan					
D	Wall	0.1	N	S	Tan					
	Chair rail									
	Ceiling	-0.0	N	S	White					
	Crown Molding	N/C	N	W	—					
	Door	-0.1	N	W	White					To outside
	Casing	0.3	N	W	White					
	Jamb	0.2	N	W	White					
	Door	0.0	N	W	White					To Basement
	Casing	-0.0	N	W	White					
	Jamb	0.1	N	W	White					
	Window Trim	-0.2	N	W	White					
	Sill	0.1	N	W	White					
	Sash	0.3	N	W	White					Vinyl
	Well	0.0	N	W	White					Window
	Cabinet Base	NC	—	W	—					
	Door Exterior	NC	—	W	—					
	Door Interior	NC	—	W	—					
	Walls	NC	—	W	—					
	Shelves	NC	—	W	—					
	Shelf Supports	NC	—	M	—					
	Closet Shelf	0.4	N	M	White					
	Shelf Supports	0.4	N	M	White					
	Radiator	1.1	Y	M	White	N				Inconclusive
	Wall Molding									
	Window Shutter	0.0	N	W	White					

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N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 24 Coolridge Road, Milford

Apt. #:

Floor: 1st

Room: Dining Room

Page 8 of 15

Project Name: Q4 Storm Sandy

Project Number: 20140277.05E

Project Manager: Kevin McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Color	Defective	Chewable	Friction	Impact	Comments
	Floor	NC	N	W	—					Bare wood
	Baseboards	0.2	N	W	White					
A	Wall	-0.1	N	S	Tan					
B	Wall	0.2	N	S	Tan					
C	Wall	0.0	N	S	Tan					
D	Wall	0.0	N	S	Tan					
	Chair rail	—	—	—	—					
	Ceiling	0.0	N	S	White					
	Crown Molding	—	—	—	—					
	Door	—	—	—	—					Opening to Kitchen
	Casing	0.3	N	W	White					
	Jamb	0.1	N	W	White					
	Door	-0.0	N	W	White					Closet
	Casing	0.4	N	W	White					
	Jamb	0.6	N	W	White					
	Window Trim	0.5	N	W	White					Side C
	Sill	0.3	N	W	White					
	Sash	0.0	N	V	White					
	Well	0.0	N	V	White					
	Cabinet Base	—	—	—	—					
	Door Exterior	—	—	—	—					
	Door Interior	—	—	—	—					
	Walls	—	—	—	—					
	Shelves	—	—	—	—					
	Shelf Supports	—	—	—	—					
	Closet Shelf	NC	N	Plastic	Black					
	Shelf Supports	NC	N	Wood	—					Bare Wood
	Radiator	0.5	N	M	White					
	Wall Molding	—	—	—	—					

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 24 Coolridge Road, Milford **Apt. #:**

Floor: 1st **Room:** Living Room **Page** 9 **of** 15

Project Name: QA Storm Sandy **Project Number:** 20140277.DSE

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

Side	Surface	XRF Readings	POS	Substrate	Color	Defective	Chewable	Friction	Impact	Comments
	Floor	N/C	N	Wood	—					Bare Wood
	Baseboards	0.2	N	W	Tan					
A	Wall	0.1	N	S	~~Tan~~ White					
B	Wall	0.2	N	S	White					
C	Wall	-0.0	N	S	White					
D	Wall	0.2	N	S	White					
	Chair rail									
	Ceiling	-0.0	N	S	White					
	Crown Molding									
	Door	0.5	N	M	White					Front Door
	Casing	0.3	N	Wood	Tan					
	Jamb	0.0	N	Wood	Tan					
	Door									Opening to Dining
	Casing	0.2	N	W	Brown					
	Jamb	0.1	N	W	Brown					
	Window Trim	0.0	N	W	Brown					
	Sill	0.2	N	W	Brown					
	Sash	0.0	N	V	White					
	Well	0.0	N	V	White					
	Cabinet Base									
	Door Exterior									
	Door Interior									
	Walls									
	Shelves									
	Shelf Supports									
	Closet Shelf									
	Shelf Supports									
	Radiator	~~0.1~~ N/A		~~W~~	~~Brown~~					
	Wall Molding									
	Radiator Cover	0.1	N	Wood	Brown					

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N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 24 Coldridge Road

Apt. #:

Floor: lower level

Room: Basement

Page 10 of 15

Project Name: CT Storm Sandy

Project Number: 20140277.DSE

Project Manager: Kevin McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Color	Defective	Chewable	Friction	Impact	Comments
	Floor	0.0		C	Blue					
	Baseboards	—		—	—					
A	Wall	-0.1		S	white					
B	Wall	0.1		S	white					
C	Wall	0.1		S	white					
D	Wall	-0.1		S	white					
	Chair rail	—								
	Ceiling	0.2		S	White					
	Crown Molding	—								
	Door	-0.1		W	white					
	Casing	-0.1		W	White					
	Jamb	N/A		—	—					
	Door									
	Casing									
	Jamb									
	Window Trim	0.0		W	White					
	Sill	~~0.1~~		~~W~~	~~White~~					← Correct
	Sash	-0.2		W	white					
	Well	~~N~~		—	—	N/A				
	Cabinet Base									
	Door Exterior									
	Door Interior									
	Walls									
	Shelves									
	Shelf Supports									
	Closet Shelf									
	Shelf Supports									
	Radiator									
	~~Wall Molding~~ Column									
	Trend	-0.0		W	Grey					
	Riser	0.1		W	~~Grey~~					
	~~Basement~~			~~bt~~	~~Grey~~					

* 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

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 24 Coolridge Road, Milford

Apt. #:

Floor: lower level

Room: furnace Room

Page 11 of 15

Project Name: Oct storm Sandy

Project Number: 20140277.05E

Project Manager: Kevin McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Color	Defective	Chewable	Friction	Impact	Comments
	Floor	-0.1		C	Grey					
	Baseboards									
A	Wall	0.4	N	W	White					
B	Wall	0.1	N	~~Grey~~	Grey					
C	Wall	0.4	N	C	Grey					
D	Wall	0.3	N	C	Grey					
	Chair rail									
	Ceiling									
	Crown Molding									
	Door	NC	N	W	—					Bare
	Casing	0.1	N	W	Pink					~~Bare~~
	Jamb	NC	N	W	—					Bare
	Door									
	Casing									
	Jamb									
	Window Trim									
	Sill									
	Sash									
	Well									
	Cabinet Base									
	Door Exterior									
	Door Interior									
	Walls									
	Shelves									
	Shelf Supports									
	Closet Shelf									
	Shelf Supports									
	Radiator									
	Wall Molding									
	Support Column	1.9	Y	Metal	White	N				

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N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

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XRF FIELD DATA SHEET – EXTERIOR OF SIDE A

Address: 24 Coolridge Road, Milford

Page 12 **of** 15

Project Name: QA Storm Sandy

Project Number: 20140272.05E

Project Manager: Kevin McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Color	Defective	Chewable	Friction	Impact	Comments
	Foundation	N/C		C						
	Skirt Board	~~N/A~~								
	Corner Boards	0.1	N	V	~~Grey~~					
	Siding	0.1	N	V	~~Grey~~					
	Upper Trim	0.1	N	V	Grey					
	Door	0.7	N	M	Red					
	Casing	0.1	N	V	White					
	Jamb	0.2	N	W	White					
	Threshold	N/C		M						
	Kick Board	~~N/A~~								~~Not Applicable~~
	Storm Door	0.0	N	M	White					
	Window Sill	~~N/A~~								
	Trim	0.1	N	V	White					
	Sash	0.1	N	V	White					
	Blind Stops									
	Storm Window									
	Basement Sash									
	Frame									
	Bulkhead									
	Downspouts									
	Porch Floor	-0.2	N	~~W~~	Grey					
	Ceiling Joist									
	Lower Trim									
	Lower Railing									
	Balusters									
	Railing Cap									
	Ceiling									
	Lattice	0.1	N	V	White					
	Lattice Frame									
	Support Columns									
	Column Base									
	Brackets									
	Hand Rails	-0.2	N	V	Grey					
	Treads	0.2	N	W	Grey					
	Risers	-0.2	N	W	Grey					
	Stringers	-0.2	N	W	Grey					

~~N/A Not Applicable~~

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XRF FIELD DATA SHEET – EXTERIOR OF SIDE B

Address: 24 Coolridge Road
Page 13 of 15
Project Name: DA Storm Sandy
Project Number: 20140277.05E
Project Manager: Kevin McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Color	Defective	Chewable	Friction	Impact	Comments
B	Foundation									
	Skirt Board									
	Corner Boards	0.1	N	V	Gray					
	Siding	0.2	N	V	Gray					
	Upper Trim	0.1	N	V	Gray					
	Door									
	Casing									
	Jamb									
	Threshold									
	Kick Board									
	Storm Door									
	Window Sill	-0.1	N	V	white					
	Trim	-0.2	N	V	white					
	Sash	0.1	N	V	white					
	Blind Stops									
	Storm Window									
	Basement Sash	-0.1	N	V	white					
	Frame									
	Bulkhead									
	Downspouts	0.2	N	V	Gray					
	Porch Floor									
	Ceiling Joist									
	Lower Trim									
	Lower Railing									
	Balusters									
	Railing Cap									
	Ceiling									
	Lattice									
	Lattice Frame									
	Support Columns									
	Column Base									
	Brackets									
	Hand Rails									
	Treads									
	Risers									
	Stringers									

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XRF FIELD DATA SHEET – EXTERIOR OF SIDE X

Address: 24 Coolridge Road, Milford
Page 14 of 15
Project Name: QA Storm Sandy
Project Number: 20140277.D5E
Project Manager: Kevin McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Color	Defective	Chewable	Friction	Impact	Comments
	Foundation	N/C	—							
	Skirt Board	—								
	Corner Boards	-0.1	N	V	White					
	Siding	-0.2	N	V						
	Upper Trim	0.1	N	V	White					
	Door	-0.0		W	Red					
	Casing	—								
	Jamb	-0.0	N	V						
	Threshold	0.2	N	W	Dk Brown					
	Kick Board	-0.2	N	W	Grey					
	Storm Door	-0.0	N	M	Red					
	Window Sill	-0.1	N	V	White					
	Trim	-0.2	N	V	White					
	Sash	1.1	Y	M	White	Y		✓		
	Blind Stops	—								
	Storm Window	—								
	Basement Sash	—								
	Frame	—								
	Bulkhead	-0.1	N	M	Red					
	Downspouts									
	Porch Floor	-0.1	N	W	Grey					
	Ceiling Joist	—								
	Lower Trim	—								
	Lower Railing	—								
	Balusters	—								
	Railing Cap	—								
	Ceiling	—								
	Lattice	—								
	Lattice Frame	—								
	Support Columns	—								
	Column Base	—								
	Brackets	—								
	Hand Rails	-0.1	N	W	Grey					
	Treads	0.1	N	W	Grey					
	Risers	-0.0	N	W	Grey					
	Stringers	-0.1	N	W	Grey					

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XRF FIELD DATA SHEET – EXTERIOR OF SIDE D

Address: 24 Coolridge Road, Milford

Page 15 of 15

Project Name: QA Storm Sandy

Project Number: 20140277.05E

Project Manager: Kevin McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Color	Defective	Chewable	Friction	Impact	Comments
	Foundation	N/C								
	Skirt Board									
	Corner Boards	-0.0	N	V	White					
	Siding	-0.1	N	V	Grey					
	Upper Trim	0.0	N	V	White					
	Door									
	Casing									
	Jamb									
	Threshold									
	Kick Board									
	Storm Door									
	Window Sill	-0.1		V	White					
	Trim	-0.0		V	White					
	Sash	0.0		V	White					
	Blind Stops									
	Storm Window									
	Basement Sash	9.8	Y	W	Blue	N				
	Frame	1.1	Y	W	Blue	Y				
	Bulkhead									
	Downspouts	-0.1	N	V	Grey					
	Porch Floor									
	Ceiling Joist									
	Lower Trim									
	Lower Railing									
	Balusters									
	Railing Cap									
	Ceiling									
	Lattice									
	Lattice Frame									
	Support Columns									
	Column Base									
	Brackets									
	Hand Rails									
	Treads									
	Risers									
	Stringers									

Appendix E

Lead in Dust Sample Results and Chain-of-Custody Form

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

EMSL Order:	201414183
CustomerID:	ENVI54
CustomerPO:	20140277.D5E
ProjectID:	

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

Phone: (860) 646-2469
Fax: (888) 838-1160
Received: 09/26/14 10:58 AM
Collected:

Project: **20140277.D5E / QA-Storm Sandy / 24 Coolridge Road, Milford**

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Area Sampled*	*Lead Concentration*
0924JB-01	*201414183-0001* Site: Bedroom #1		9/26/2014	36 in²	230 µg/ft²
0924JB-02	*201414183-0002* Site: Bedroom #1		9/26/2014	144 in²	<10 µg/ft²
0924JB-03	*201414183-0003* Site: Bathroom #1		9/26/2014	36 in²	210 µg/ft²
0924JB-04	*201414183-0004* Site: Bathroom #1		9/26/2014	144 in²	<10 µg/ft²
0924JB-05	*201414183-0005* Site: Kitchen		9/26/2014	36 in²	<40 µg/ft²
0924JB-06	*201414183-0006* Site: Kitchen		9/26/2014	144 in²	<10 µg/ft²
0924JB-07	*201414183-0007* Site: Dining Room		9/26/2014	36 in²	<40 µg/ft²
0924JB-08	*201414183-0008* Site: Dining Room		9/26/2014	144 in²	<10 µg/ft²
0924JB-09	*201414183-0009* Site: Living Room		9/26/2014	36 in²	<40 µg/ft²
0924JB-10	*201414183-0010* Site: Living Room		9/26/2014	144 in²	<10 µg/ft²
0924JB-11	*201414183-0011* Site: Blank		9/26/2014	n/a	<10 µg/wipe
0924JB-12	*201414183-0012* Site: Blank		9/26/2014	n/a	<10 µg/wipe

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

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 09/27/2014 10:32:19

OrderID: 201414183

20141183

FUSS & O'NEILL
EnviroScience, LLC

www.fando.com

146 Hartford Road, Manchester, CT 06040

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

SAMPLE LOG FOR LEAD WIPES

Sheet No. 1 of 1

Project Name: QA – Storm Sandy
Building: 24 Coolndge Road, Milford

Project Number: 20140277.D5E
Project Manager: Kevin McCarthy

Sample ID Number	Sample Location/Building	Surface Component	Surface Sq. In	Result (ug/ft)	Lab Number
0924JB-01	Bedroom #1	Sill	36		
0924JB-02	Bedroom #1	Floor	144		
0924JB-03	Bathroom #1	Well	36		
0924JB-04	Bathroom #1	Floor	144		
0924JB-05	Kitchen	Sill	36		
0924JB-06	Kitchen	Floor	144		
0924JB-07	Dining Room	Sill	36		
0924JB-08	Dining Room	Floor	144		
0924JB-09	Living Room	Sill	36		
0924JB-10	Living Room	Floor	144		
0924JB-11	Blank	/	/		
0924JB-12	Blank	/	/		

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

Turnaround Time 24 Hour

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

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

Special Instructions:

Samples Collected By: JB/[illegible] Date: 9-24-14 Time: 1700
Samples Rec'd/Sent By: JB/[illegible] Date: 9-25-14 Time: 1700
Samples Received By: [illegible] Date: 9/26/14 Time: 1050 [illegible]

Shipped To: ☒ EMSL (State) NJ ☐ Other

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

I:\Storm Sandy\20140277.D5E\Lab Data\Lead_Wipe_COC_2014-0925.docx

FUSS & O'NEILL
EnviroScience.m

Appendix F

Lead in Drinking Water Results and Chain-of-Custody Form

Date Samples Received: 09/26/14

Client Name : Fuss & O'Neill EnviroScience	CTL Lab No. : 0914501
Report Date : 09/29/14	PO/ Job No. : 20140277.D5E

RESULTS OF ANALYSIS

EPA Method 200.9

Matrix Type :		W	W		
CTL Sample No.:		14586	14587		
Field ID :		1st Draw 20140924JB-01	Flush 20140924JB-02		
Parameters	RL				Date Analyzed
Total Lead-mg/L	0.005	ND	ND		09/29/14

RL= Reporting Limit ND= Not Detected

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

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

FUSS & O'NEILL
(860) 646-2469 · www.FandO.com
☐ 146 Hartford Road, Manchester, CT 06040
☒ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other 0914507

CHAIN-OF-CUSTODY RECORD 32262

Turnaround Time Requested (TAT)
☐ 24-Hour* ☒ 72-Hour* ☐ Other ____ (days)
☒ 48-Hour* ☐ Standard (____ days) *Surcharge Applies

Project Name	Project Location	Project Number	Laboratory
QA - Storm Sandy	24 Coolridge Road, Milford	20140277.D5E	Connecticut Testing Lab

Report To: Kevin McCarthy / Karren Redfield
Invoice To: Sarah Owens
P.O. No.: 20140277.D5E
Sampler's Signature: [signature] Date: 9-25-14

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

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	Lead in Water	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water ☐ Na_2SO_4	Glass Soil Container ( ) oz	Other:	Other:	Water VOA Vial, ☐ As Ik ☐ HCl	Glass Amber ( ) ml ☐ As Ik ☐ H_2SO_4	Plastic - As Ik, ☐ 250 ml ☐ 500 ml ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
1	✓				20140924JB-01	PW	9-24-14	1630	✓		14586							1			1st Flush
2	✓				" -02	"	"	1638	✓		87							1			2nd Flush

Transfer Number	Relinquished By	Accepted By	Date	Time
1	JBlum	F to Fridge	9-24-14	1500
2	F to Fridge	[signature]	9/26/14	11:44
3	[signature]	[signature]	9/26/14	
4				

Charge Exceptions: ☐ CT Tax Exempt ☐ QA/QC ☐ Other ____
____ Duplicates ____ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☐ RCP Deliverables ☐ MCP CAM Cert.
Temp = 6.8°
Additional Comments: Collected in kitchen / Email results to JBlum@FandO.com

FUSS & O'NEILL
EnviroScience.m

Appendix G

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

RTCA RADON TESTING CORPORATION OF AMERICA

PC1409290007

Site Radon Inspection Report

Date :09/29/2014

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

Client: 20140277D5E

Test Location 241 Coolridge Road
Milford, CT 06460-

Individual Canister Results

Canister ID# :	2313964	Test Start :	09/24/2014 @ 15:10
Canister Type :	Charcoal Canister 3 inch	Test Stop :	09/28/2014 @ 15:10
Location :	Dining Rm	Received:	09/29/2014 @ 09:34
Radon Level :	**1.4 pCi/L**	Analyzed:	09/29/2014 @ 11:21

Radon concentration is estimated due to missing stop date.

Error for Measurement is: ± 0.2 pCi/L

Canister ID# :	2343167	Test Start :	09/24/2014 @ 15:10
Canister Type :	Charcoal Canister 3 inch	Test Stop :	09/28/2014 @ 15:10
Location :	Dining Rm-B	Received:	09/29/2014 @ 09:34
Radon Level :	**0.1 pCi/L**	Analyzed:	09/29/2014 @ 11:21

Radon concentration is estimated due to missing stop date.

Error for Measurement is: ± 0.2 pCi/L

Canister ID# :	2343331	Test Start :	09/24/2014 @ 15:05
Canister Type :	Charcoal Canister 3 inch	Test Stop :	09/28/2014 @ 15:05
Location :	Basement	Received:	09/29/2014 @ 09:34
Radon Level :	**2.2 pCi/L**	Analyzed:	09/29/2014 @ 11:21

Radon concentration is estimated due to missing stop date.

Error for Measurement is: ± 0.2 pCi/L

Canister ID# :	2343258	Test Start :	09/24/2014 @ 15:05
Canister Type :	Charcoal Canister 3 inch	Test Stop :	09/28/2014 @ 15:05
Location :	Basement-D	Received:	09/29/2014 @ 09:34
Radon Level :	**2.1 pCi/L**	Analyzed:	09/29/2014 @ 11:21

Radon concentration is estimated due to missing stop date.

Error for Measurement is: ± 0.2 pCi/L

National Radon Safety Board NRSB Certified Radon Professionals

Andreas C. George
Radon Measurement Specialist
NJ MES 11089

Dante Galan
Laboratory Director

NRSB ARL0001
NYS ELAP ID: 10806
PADEP ID: 0346
NJDEP ID: NY933
NJ MEB 90036
FL DOH RB1609
IL RNL2000201

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

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

FUSS & O'NEILL
EnviroScience, LLC

Received
9-29-2014

Radon Testing Summary Sheet

Contact/Phone #: James Blum/203-374-3748 x3541
Project #: 20140277 D5E
Building: 24 Coolidge Road
Address: Milford, CT

Placed by: JBlum
Retrieved by: JBlum
Start Date: 9-24-14
Stop Date:
Weather at Placement: Sunny 70°

email results to jblum@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 provided for that detector (room #, location in room, etc.). Use additional sheets as necessary. Please mark clearly if any detector is missing or damaged at

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2343331

Start Time: 1505
Stop Time: 1505
Identifier:
Basement

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2343258

REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS
2343258

Client
RADON TESTING CORP. OF AMERICA

Start Time: 1505
Stop Time: 1505
Identifier:
Basement-D

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2313964

REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS
2313964

Client
RADON TESTING CORP. OF AMERICA

Start Time: 1510
Stop Time: 1510
Identifier:
Dining Rm

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2343167

REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS
2343167

Client
RADON TESTING CORP. OF AMERICA

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

Start Time:
Stop Time:
Identifier:

Start Time:
Stop Time:
Identifier:

Start Time:
Stop Time:
Identifier:

Start Time:
Stop Time:
Identifier:

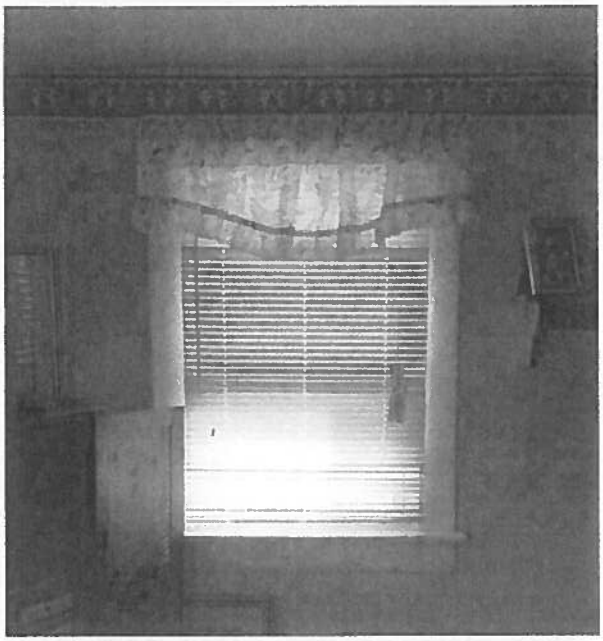
Start Time:
Stop Time:
Identifier:

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

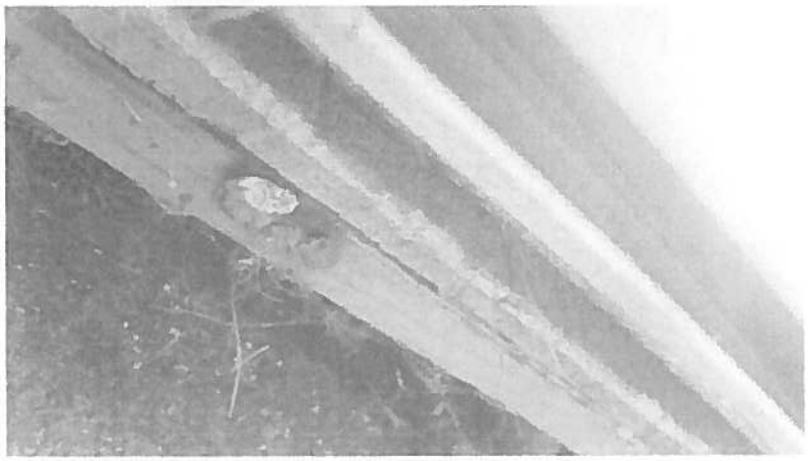
Connecticut
Massachusetts
New York
Rhode Island
South Carolina

Appendix H

Site Photographs

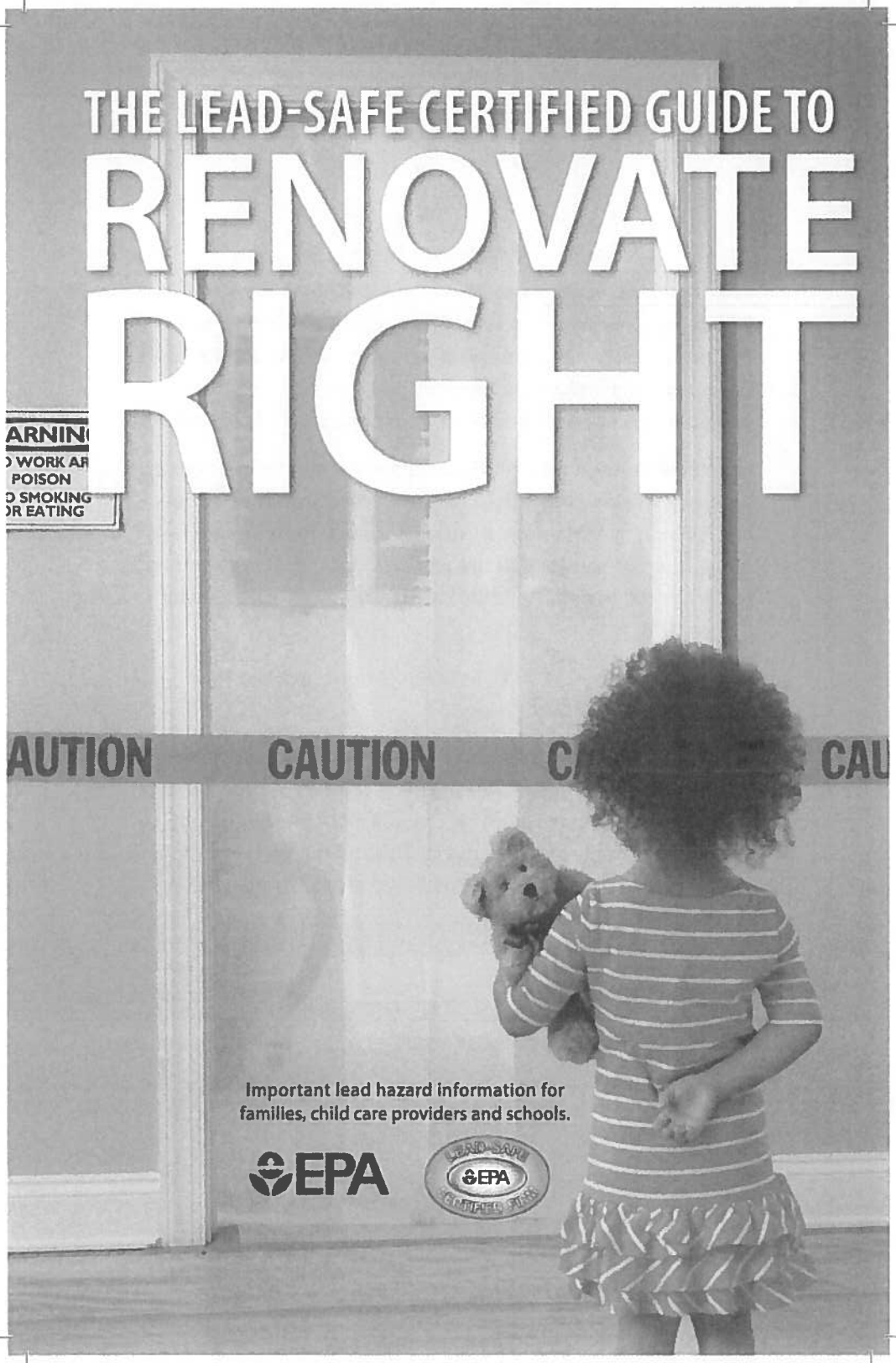


Lead-Based Paint on Interior Window Sill



Exterior Transite® Panel Beneath Vinyl Siding

THE LEAD-SAFE CERTIFIED GUIDE TO RENOVATE RIGHT



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

EPA

IT'S THE LAW!

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

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

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

WHO SHOULD READ THIS PAMPHLET?

This pamphlet is for you if you:

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

You will learn:

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

This pamphlet is not for:

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

RENOVATING, REPAIRING, OR PAINTING?

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

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

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

The Facts About Lead

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

LEAD AND YOUR HEALTH

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

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

- Reduced IQ and learning disabilities.
- Behavior problems.

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

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

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

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

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

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

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

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

WHERE DOES THE LEAD COME FROM?

Dust is the main problem.

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

Home renovation creates dust.

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

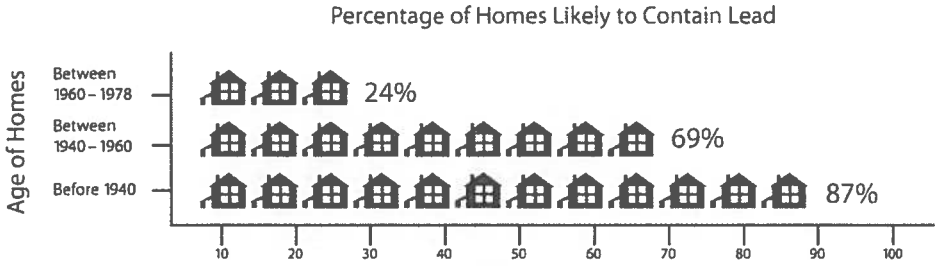
Proper work practices protect you from the dust.

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

Other sources of lead.

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

CHECKING YOUR HOME FOR LEAD-BASED PAINT



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

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

You have the following options:

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

You can hire a certified professional to check for lead-based paint. These professionals are certified risk assessors or inspectors, and can determine if your home has lead or lead hazards.

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

You may also have a certified renovator test the surfaces or components being disturbed for lead by using a lead test kit or by taking paint chip samples and sending them to an EPA-recognized testing laboratory. Test kits must be EPA-recognized and are available at hardware stores. They include detailed instructions for their use.

FOR PROPERTY OWNERS

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

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

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

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

- You can verify that a contractor is certified by checking EPA's website at epa.gov/getleadsafe or by calling the National Lead Information Center at **1-800-424-LEAD (5323)**. You can also ask to see a copy of the contractor's firm certification.
- Ask if the contractor is trained to perform lead-safe work practices and to see a copy of their training certificate.
- Ask them what lead-safe methods they will use to set up and perform the job in your home, child care facility or school.
- Ask for references from at least three recent jobs involving homes built before 1978, and speak to each personally.

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

- Share the results of any previous lead tests with the contractor.
- You should specify in the contract that they follow the work practices described on pages 9 and 10 of this brochure.
- The contract should specify which parts of your home are part of the work area and specify which lead-safe work practices will be used in those areas. Remember, your contractor should confine dust and debris to the work area and should minimize spreading that dust to other areas of the home.
- The contract should also specify that the contractor will clean the work area, verify that it was cleaned adequately, and re-clean it if necessary.

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

- Direct the contractor to comply with regulatory and contract requirements.
- Call your local health or building department, or
- Call EPA's hotline **1-800-424-LEAD (5323)**.

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

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

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

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

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

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

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

- Contact your landlord.
- Call your local health or building department, or
- Call EPA's hotline 1-800-424-LEAD (5323).

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

PREPARING FOR A RENOVATION

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

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

You may need:

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

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

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

DURING THE WORK

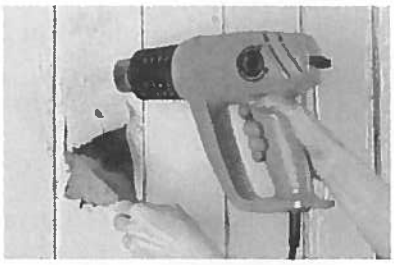
Federal law requires contractors that are hired to perform renovation, repair and painting projects in homes, child care facilities, and schools built before 1978 that disturb painted surfaces to be certified and follow specific work practices to prevent lead contamination.

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

1. **Contain the work area.** The area must be contained so that dust and debris do not escape from that area. Warning signs must be put up and plastic or other impermeable material and tape must be used as appropriate to:
   - Cover the floors and any furniture that cannot be moved.
   - Seal off doors and heating and cooling system vents.
   - For exterior renovations, cover the ground and, in some instances, erect vertical containment or equivalent extra precautions in containing the work area.

These work practices will help prevent dust or debris from getting outside the work area.

2. **Avoid renovation methods that generate large amounts of lead-contaminated dust.** Some methods generate so much lead-contaminated dust that their use is prohibited. They are:
   - Open flame burning or torching.
   - Sanding, grinding, planing, needle gunning, or blasting with power tools and equipment not equipped with a shroud and HEPA vacuum attachment.
   - Using a heat gun at temperatures greater than 1100°F.



There work places will eliminate dust, but some renovation methods make less dust than others. Contractors may choose to use various methods to minimize dust generation, including using water to mist areas before sanding or scraping; scoring paint before separating components; and prying and pulling apart components instead of breaking them.

3. **Clean up thoroughly.** The work area should be cleaned up daily to keep it as clean as possible. When all the work is done, the area must be cleaned up using special cleaning methods before taking down any plastic that isolates the work area from the rest of the home. The special cleaning methods should include:
   - Using a HEPA vacuum to clean up dust and debris on all surfaces, followed by
   - Wet wiping and wet mopping with plenty of rinse water.

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

FOR PROPERTY OWNERS: AFTER THE WORK IS DONE

When all the work is finished, you will want to know if your home, child care facility, or school where children under six attend has been cleaned up properly.

EPA Requires Cleaning Verification.

In addition to using allowable work practices and working in a lead-safe manner, EPA's RRP rule requires contractors to follow a specific cleaning protocol. The protocol requires the contractor to use disposable cleaning cloths to wipe the floor and other surfaces of the work area and compare these cloths to an EPA-provided cleaning verification card to determine if the work area was adequately cleaned. EPA research has shown that following the use of lead-safe work practices with the cleaning verification protocol will effectively reduce lead-dust hazards.

Lead-Dust Testing.

EPA believes that if you use a certified and trained renovation contractor who follows the LRRP rule by using lead-safe work practices and the cleaning protocol after the job is finished, lead-dust hazards will be effectively reduced. If, however, you are interested in having lead-dust testing done at the completion of your job, outlined below is some helpful information.

What is a lead-dust test?

- Lead-dust tests are wipe samples sent to a laboratory for analysis. You will get a report specifying the levels of lead found after your specific job.

How and when should I ask my contractor about lead-dust testing?

- Contractors are not required by EPA to conduct lead-dust testing. However, if you want testing, EPA recommends testing be conducted by a lead professional. To locate a lead professional who will perform an evaluation near you, visit EPA's website at epa.gov/lead/pubs/locate or contact the National Lead Information Center at **1-800-424-LEAD (5323).**
- If you decide that you want lead-dust testing, it is a good idea to specify in your contract, before the start of the job, that a lead-dust test is to be done for your job and who will do the testing, as well as whether re-cleaning will be required based on the results of the test.
- You may do the testing yourself. If you choose to do the testing, some EPA-recognized lead laboratories will send you a kit that allows you to collect samples and send them back to the laboratory for analysis. Contact the National Lead Information Center for lists of EPA-recognized testing laboratories.

FOR ADDITIONAL INFORMATION

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

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

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

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

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

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

EPA CONTACTS

EPA Regional Offices

EPA addresses residential lead hazards through several different regulations. EPA requires training and certification for conducting abatement and renovations, education about hazards associated with renovations, disclosure about known lead paint and lead hazards in housing, and sets lead-paint hazard standards.

Your Regional EPA Office can provide further information regarding lead safety and lead protection programs at epa.gov/lead.

Region 1
(Connecticut, Massachusetts, Maine, New Hampshire, Rhode Island, Vermont)
Regional Lead Contact
U.S. EPA Region 1
Suite 1100
One Congress Street
Boston, MA 02114-2023
(888) 372-7341

Region 2
(New Jersey, New York, Puerto Rico, Virgin Islands)
Regional Lead Contact
U.S. EPA Region 2
2890 Woodbridge Avenue
Building 205, Mail Stop 225
Edison, NJ 08837-3679
(732) 321-6671

Region 3
(Delaware, Maryland, Pennsylvania, Virginia, Washington, DC, West Virginia)
Regional Lead Contact
U.S. EPA Region 3
1650 Arch Street
Philadelphia, PA
19103-2029
(215) 814-5000

Region 4
(Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee)
Regional Lead Contact
U.S. EPA Region 4
61 Forsyth Street, SW
Atlanta, GA 30303-8960
(404) 562-9900

Region 5
(Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin)
Regional Lead Contact
U.S. EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604-3507
(312) 886-6003

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

Region 7
(Iowa, Kansas, Missouri, Nebraska)
Regional Lead Contact
U.S. EPA Region 7
901 N. 5th Street
Kansas City, KS 66101
(913) 551-7003

Region 8
(Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming)
Regional Lead Contact
U.S. EPA Region 8
1595 Wynkoop Street
Denver, CO 80202
(303) 312-6312

Region 9
(Arizona, California, Hawaii, Nevada)
Regional Lead Contact
U.S. Region 9
75 Hawthorne Street
San Francisco, CA 94105
(415) 947-8021

Region 10
(Alaska, Idaho, Oregon, Washington)
Regional Lead Contact
U.S. EPA Region 10
1200 Sixth Avenue
Seattle, WA 98101-1128
(206) 553-1200

OTHER FEDERAL AGENCIES

CPSC

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

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

CDC Childhood Lead Poisoning Prevention Branch

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

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

HUD Office of Healthy Homes and Lead Hazard Control

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

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

SAMPLE PRE-RENOVATION FORM

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

Occupant Confirmation

Pamphlet Receipt

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

_____

Printed Name of Owner-occupant

_____ _____

Signature of Owner-occupant Signature Date

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

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

❑ Declined – I certify that I have made a good faith effort to deliver the lead hazard information pamphlet to the rental dwelling unit listed below at the date and time indicated and that the occupant declined to sign the confirmation of receipt. I further certify that I have left a copy of the pamphlet at the unit with the occupant.

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

_____ _____

Printed Name of Person Certifying Delivery Attempted Delivery Date

_____

Signature of Person Certifying Lead Pamphlet Delivery

_____

_____

_____

Unit Address

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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CAUTION CAUTION CAUTION CAU

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

EPA

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

EPA-740-K-10-001
Revised September 2011

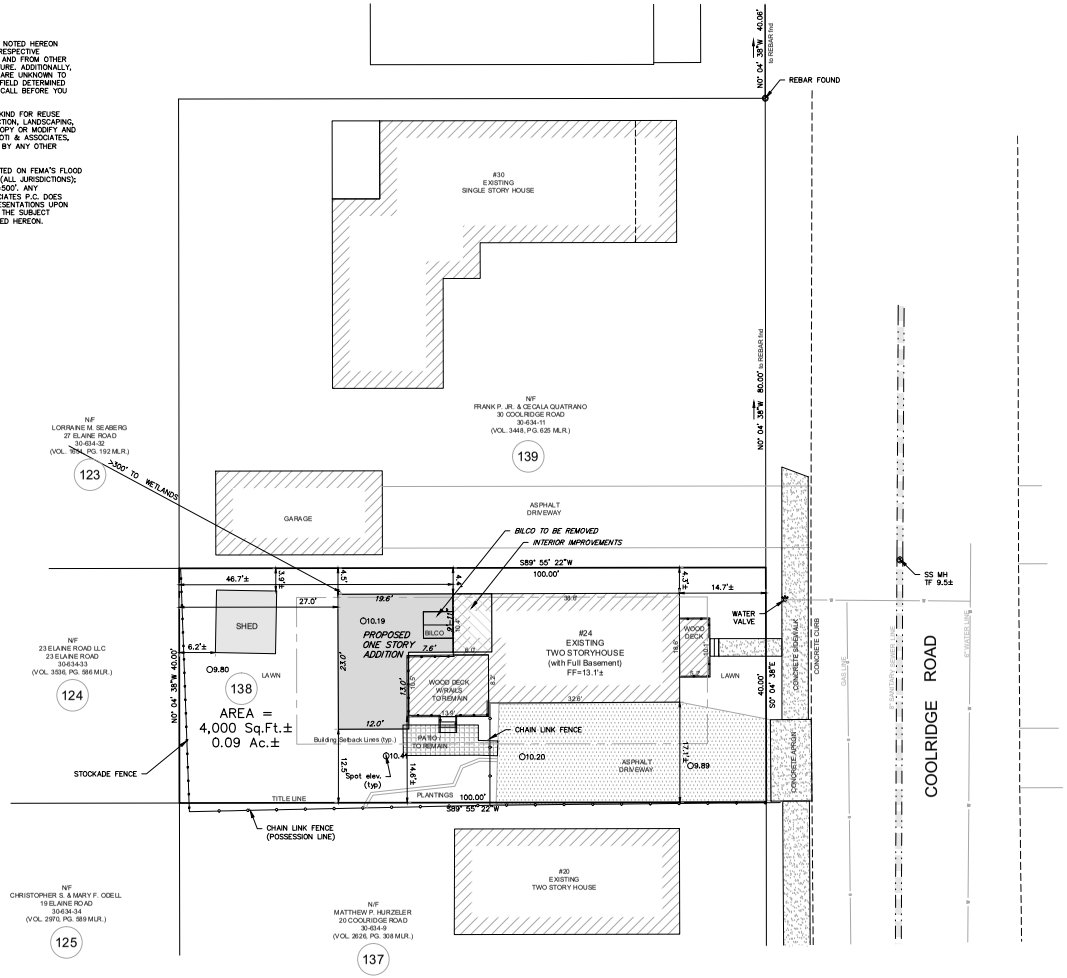
This document may be purchased through the **U.S. Government Printing Office** online at bookstore.gpo.gov or by phone (toll-free); 1-866-512-1800.

MAP REFERENCES:

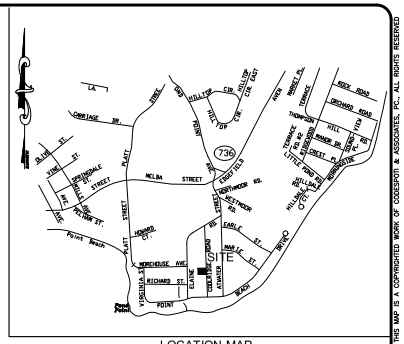
1. "POINT BEACH GEORGE E. HASKINS SECTION MILFORD, CONN." FEB. 15, 1928 1" = 80' MAP #R-31 MLR.
2. "PROPERTY SURVEY PREPARED FOR GREGG BRODRICK 32 & 36 COOLRIDGE ROAD MILFORD, CT." JUNE 2007 1"=10' BY SCOTT MUNDY. MAP AB3181 MLR.
3. "PROPERTY SURVEY PREPARED FOR ANDREW KOPCHAK 30 COOLRIDGE ROAD MILFORD, CT." OCT. 2007 1"=10' BY SCOTT MUNDY.
4. "MAP OF 23 ELAINE ROAD MILFORD, CT." BY DeNICOLO

NOTES:

1. UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES OR GOVERNMENTAL AGENCIES, FROM PAROLE TESTIMONY AND FROM OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE. THE EXISTENCE OF WHICH ARE UNKNOWN TO US. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG 1-800-922-4455.
2. THIS SURVEY SHALL NOT BE USED WITH AN AFFIDAVIT OR LETTER OF ANY KIND FOR REUSE INCLUDING, BUT NOT LIMITED TO, FUTURE CLOSINGS, PLOT PLANS, CONSTRUCTION, LANDSCAPING, PERMITTING, ETC... IT IS A VIOLATION OF THE FEDERAL COPYRIGHT ACT TO COPY OR MODIFY AND REUSE THIS SURVEY BEYOND THE DATE AND SCOPE NOTED HEREIN. CODESPOTI & ASSOCIATES, P.C., AND/OR ITS AGENTS SHALL NOT BE LIABLE FOR USE OF THIS SURVEY BY ANY OTHER ENTITIES OR PERSONS FOR ANY PURPOSE BEYOND THE DATE & SCOPE.
3. THE SUBJECT PARCEL APPEARS TO LIE WITHIN FLOOD ZONE AE12 AS DEPICTED ON FEMA'S FLOOD INSURANCE RATE MAP (FIRM), ENTITLED NEW HAVEN COUNTY, CONNECTICUT (ALL JURISDICTIONS); PANEL NO. 534 OF 635. MAP NO.09009C0534J EFFECTIVE JULY 8, 2013 1"=500'. ANY FEMA FLOODPLAIN AND/OR FLOODWAY INFORMATION BY CODESPOTI & ASSOCIATES P.C. DOES NOT WARRANT THE ACCURACY OF THIS INFORMATION, AND MAKES NO REPRESENTATIONS UPON WHICH THE CLIENT SHOULD RELY IN CONNECTION WITH THE FLOOD ZONE OF THE SUBJECT PARCEL OR ANY FEMA FLOODPLAIN AND/OR FLOODWAY INFORMATION DEPICTED HEREON.
4. ELEVATIONS ARE BASED ON NAVD 1988 DATUM (GPS DERIVED)
5. THE PARCEL LIES WITHIN THE CAM ZONE
6. THERE ARE NO TIDAL WETLANDS ON SITE.



NAD 83 GPS DERIVED



LOCATION MAP
SCALE: 1" = 800'

SEC. 3.1.4.1. MINIMUM LOT AND BUILDING REQUIREMENTS			
ZONING DATA R-5	REQUIRED	EXISTING	PROPOSED
TOTAL SITE AREA	5,000 Sq.Ft	4,000 Sq.Ft.±	4,000 Sq.Ft.±
LOT WIDTH	50'	40.00'	40.00'
LOT DEPTH	70'	100.00'	100.00'
FRONT YARD SETBACK	10'	14.7'±	14.7'±
SIDE YARD	5'/10'	4.3'/17.1'±	4.4'/12.3'±
REAR YARD	20'	46.7'±	27.0'±
ACCESSORY STRUCTURE:			
SIDE YARD	4'	3.9'±	3.9'±
REAR YARD	5'	6.2'±	6.2'±
BUILDING:			
HEIGHT (Stories/Height)	3/35'	2	2
BUILDING AREA AS % OF LOT	45%	19.5% (778 sf)	28.2% (1,129 sf)
LOT COVERAGE (max)	65%	46.4% (1,858 sf)	54.7% (2,188 sf)
*Pre-existing non-conforming			

SEC. 3.1.4.1 VARIANCE REQUESTED FOR:
SIDE YARD SETBACK FROM 5.0' TO 4.4'

TOTAL PARCEL AREA: 4,000 SQ.FT.±
0.09 AC.±

ASSESSORS MAP 30, BLOCK 634, LOT 10.
(VOLUME 2632, PAGE 334 MLR)
PARCEL IS IN ZONE: R-5

THIS MAP IS VALID AND AUTHORIZED BY THE BELOW SIGNATORY WHEN AND ONLY WHEN ACCOMPANIED WITH A RED LIVE SIGNATURE, A STAMPED SEAL IN BLUE INK AND A LIVE EMBOSSED SEAL OVER THE SIGNATURE'S NAME. ANY OTHER REPRODUCTIONS SHALL BE CONSIDERED UNAUTHORIZED.

NOTES:

1. THIS MAP AND SURVEY HAS BEEN PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20-300B-1 THRU 20-300B-20, THE MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT ENDORSED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC.:
   A) THE HORIZONTAL ACCURACY CONFORMS TO CLASS "A-2"
   B) THE BOUNDARY DETERMINATION CATEGORY IS A "DEPENDENT RESURVEY". BASED ON MAP REFERENCE #1.
   C) THE TYPE OF SURVEY IS A "ZONING LOCATION SURVEY". THE PURPOSE OF THIS SURVEY IS TO DEPICT EXISTING HOUSE TO THE SETBACK LINES. NO OTHER USE IS INTENDED OR AUTHORIZED.

TO MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

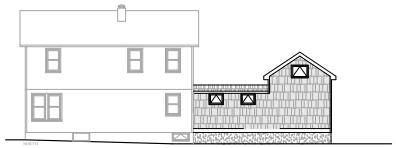
PRELIMINARY

JOSEPH M. CODESPOTI DATE L.S.#70177

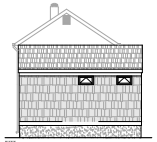
THIS MAP IS NOT VALID WITHOUT A LIVE SIGNATURE AND SEAL.

LEGEND

- EXISTING TELEPHONE MANHOLE
- EXISTING STORM MANHOLE
- EXISTING SANITARY MANHOLE
- EXISTING CATCH BASIN
- EXISTING SANITARY LINE
- EXISTING STORM LINE
- EXISTING GUTTER LINE
- EASEMENT LINE
- FENCE
- GUARD RAIL
- UTILITY POLE
- WATER VALVE
- WATER GATE
- STONE WALL
- TREE LINE
- MONUMENT FOUND
- EXISTING LAMP POST
- HYDRANT
- x43.41 EXISTING SPOT ELEVATION
- IRON PIPE
- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- UNDERGROUND WATER
- UNDERGROUND GAS
- UNDERGROUND FOOTING DRAIN
- UNDERGROUND SANITARY LATERAL



SIDE ELEVATION



REAR ELEVATION

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

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REVISIONS	BY
NOV. 24, 2014 PROPOSED ADDITION REV. 1: CORRECTED AND CLEAN NOTES	

CODESPOTI & ASSOCIATES P.C.
SITE PLANNERS
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERS
SURVEYORS
504 BOSTON POST ROAD, SUITE 202
ORANGE, CONNECTICUT 06477
TEL: 203-799-1400
FAX: 203-799-0211

ZONING LOCATION SURVEY
24 COOLRIDGE ROAD
LOT 138 "PLAN"
KOPCHACK
MILFORD, CONNECTICUT

DWG #	CHECKED
04137	
CAD FILE	CAD VER
4176	C3D2012
DATE	
9/1/09	
SCALE	
1"=10'	
JOB NO.	
4176	
SHEET	