APPENDIX "A"

ENVIRONMENTAL REVIEW REPORT

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

Applicant #1479

94 Longdean Road
Fairfield, Connecticut

May 27, 2015

Prepared for:

Quisenberry Arcari Architects, LLC
318 Main Street
Farmington, Connecticut

Prepared by:

Stephen Ball
294 White Deer Rocks Road
Woodbury, Connecticut

94 LONGDEAN ROAD

Location	94 LONGDEAN ROAD	**Assessment**	$284,760
Mblu	183/ 265/ / /	**Appraisal**	$406,800
Acct#	17638	**PID**	16765
Owner	SWEENEY ANNE C	**Building Count**	1

Current Value

Appraisal	
Valuation Year	**Total**
2013	$406,800
Assessment	
Valuation Year	**Total**
2013	$284,760

Owner of Record

Owner	SWEENEY ANNE C	**Sale Price**	$0
Co-Owner		**Book & Page**	2119/ 156
Address	94 LONGDEAN ROAD FAIRFIELD, CT 06824-6551	**Sale Date**	05/24/2000

Ownership History

Ownership History			
Owner	**Sale Price**	**Book & Page**	**Sale Date**
SWEENEY EDWARD & ANNE C	$0	507/ 576	01/01/1900

Building Information

Building 1 : Section 1

Year Built: 1958
Living Area: 1120

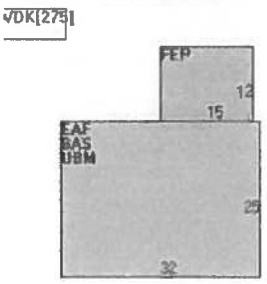
Building Photo

Building Attributes	
Field	**Description**
Style	Cape
Stories:	1 1/4 Stories
Occupancy	1
Exterior Wall 1	Vinyl Siding
Exterior Wall 2	
Roof Structure:	Gable/Hip
Roof Cover	Asphalt
Interior Wall 1	Drywall

Interior Wall 2	
Interior Flr 1	Hardwood
Interior Flr 2	Carpet
Heat Fuel	Oil
Heat Type:	Hot Water
AC Type:	None
Total Bedrooms:	3 Bedrooms
Total Bthrms:	1
Total Half Baths:	0
Total Xtra Fixtrs:	
Total Rooms:	6 Rooms
Bath Style:	Average
Kitchen Style:	Average

(http://images.vgsi.com/photos/FairfieldCTPhotos//\02\03\09/67.jpg)

Building Layout



Building Sub-Areas			
Code	Description	Gross Area	Living Area
BAS	First Floor	800	800
EAF	Attic, Expansion, Finished	800	320
FEP	Porch, Enclosed, Finished	180	0
UBM	Basement, Unfinished	800	0
WDK	Deck, Wood	275	0
		2855	1120

Extra Features

Extra Features
No Data for Extra Features

Land

Land Use

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

Land Line Valuation

Size (Acres)	0.14
Depth	0

Category

Outbuildings

Outbuildings	Legend
No Data for Outbuildings	

Valuation History

Appraisal	
Valuation Year	**Total**
2012	$412,700
2011	$412,700
2010	$412,700

Assessment	
Valuation Year	**Total**
2012	$288,890
2011	$288,890
2010	$288,890

Print

YAHOO! MAPS

94 Longdean Rd, Fairfield, CT 06824-6551

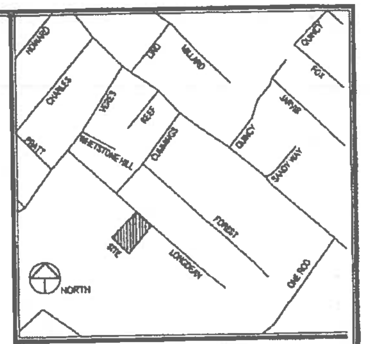
Enter notes here

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

STANDARD	MINIMUM/REQUIRED MAXIMUM/ALLOWED	EXISTING CONDITIONS	PROPOSED	AS-BUILT
Minimum Lot Area (lot area)	6,000	6,000	6,000	
Minimum Square on Lot	60	60	60	
Minimum Lot Frontage	20	60	60	
Minimum Setback Street Line	20	28.25'	N/A	
Min. Setback From Street Line Corner Lot	12/17	N/A	N/A	
Min. Setback From One Side Property Line	5	10.52'	13.10'	
Minimum Setback From Side Property Lines	15/20	27.54'	23.62'	
Minimum Rear Setback	20	32.47'	32.47'	
Minimum Floor Area	750/1000	1591	N/A	
Maximum Height for a Building or Structure	32'	18 ±	N/A	
Maximum Number of Stories Per Building	3	2	N/A	
Maximum Building Lot Coverage as a Percentage of Lot Area	30%	19.6%	24.2%	
Minimum First Floor Elevation	11.0	11.9	N/A	
Maximum Floor Area as a Percentage of Lot Area	50%	26.5%	N/A	

BUILDING ZONE: B



LOCATION MAP
(Approx. Scale: 1"=500)

FLOOR ELEVATIONS

1. First Floor Elev. = 11.9
2. Basement Elev. = 5.6

GENERAL NOTES

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

2. This Survey conforms to Class A-2.

3. The Type of survey performed is a Limited Property / Boundary Survey, and is intended to be Existing Building Location Survey.

4. Boundary determination is based upon a Dependent Resurvey (see MAP REFERENCES and Record Deeds.)

5. North Arrow is based on Map Reference # 1.

6. This map is NOT VALID without a LIVE SIGNATURE and EMBOSSED SEAL.

7. This map is NOT VALID if altered or used by any party other than the one depicted in title block of this map.

8. Property Lines Established According to Record Deeds as exist

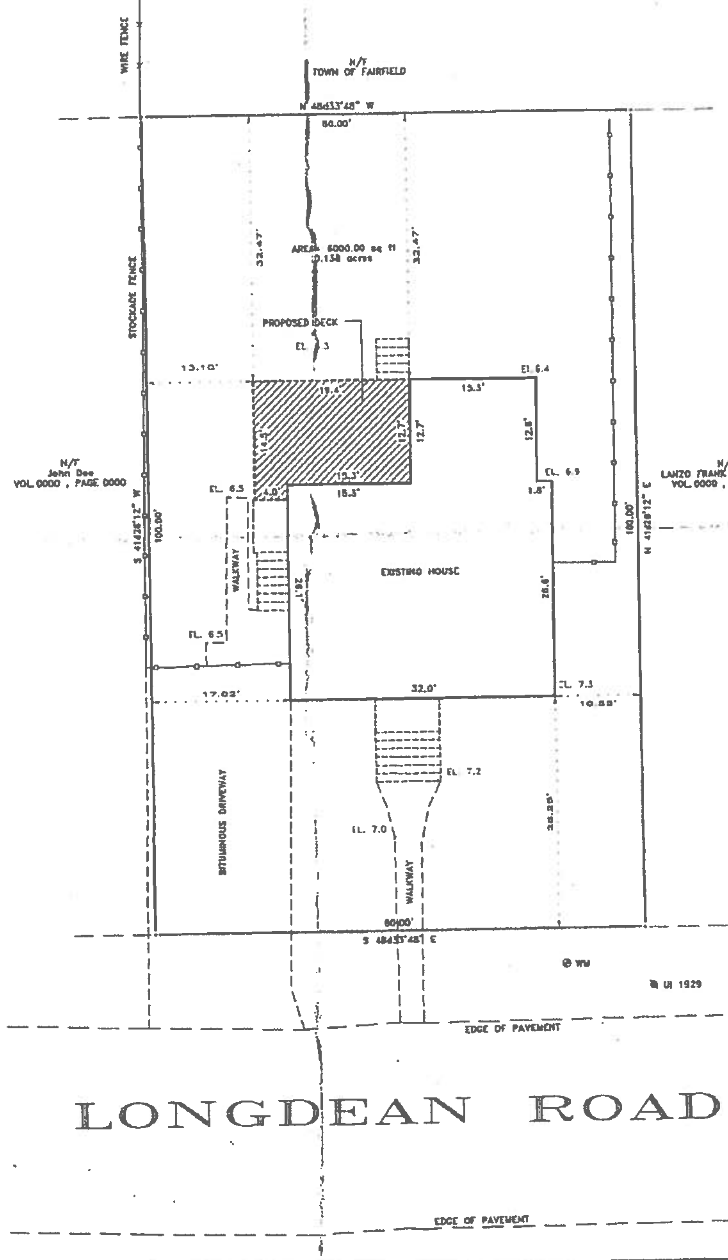
9. Physical Features Such as Stone Walls, Wire Fences, Monuments, Iron Pins or Pipes, Etc. taken under consideration to establish current deed lines.

10. 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 government 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 this firm. 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.

11. Entire Subject Property Under Zone: AE (EL. 11) per Flood Insurance Rate Map, Community-Panel Number 090007 0009 C Panel 9 of 11, Rev. Oct. 6, 1998.

12. Bench Mark Provided by Fairfield Engineering Department.

13. Elevations are based on N.G.V.D. Datum.



MAP REFERENCES

1. RECORD MAP # 4476.
2. RECORD MAP # 937.
3. RECORD MAP # 1936.
4. RECORD MAP # 1947.

COASTAL AREA MANAGEMENT RESOURCE USE POLICY IDENTIFICATION

I. ADJACENT COASTAL RESOURCES
   - A. General Resources
   - H. Coastal Hazard Areas

II. IMPACTED COASTAL RESOURCES
   - F. Tidal Flatlands
   - M. Nearshore Coastal Water
   - O. Estuarine Embayment

III. APPLICABLE COASTAL POLICIES
   - A. General Development
   - B. Sewer & Water Line
   - C. Water Dependent Uses

LAND SURVEYING SERVICES, LLC
135 FAIRCHILD AVENUE
FAIRFIELD, CONNECTICUT 06825
TEL. (203) 522-4177
FAX. (203) 615-0123
EMAIL: info@nealjain.com

RES:KK | SKT:UJ | PL:NJ | MAP:AM | DWG: 2007203

TITLE BLOCK

ASSESSORS MAP # 183 , PARCEL # 285 ZONE: B
APPLICANT: ANNE C. SWEENEY
94 LONGDEAN ROAD
FAIRFIELD
203-334-1500
DESCRIPTIVE TITLE: Proposed Deck
To the best of my knowledge and belief this map is substantially correct as noted hereon.

NEAL K. JAIN L.S. # 18138

DATE:	DESCRIPTION

REVISIONS

MAP OF PROPERTY
OWNED BY
ANNE C. SWEENEY
94, LONGDEAN ROAD, FAIRFIELD, CONNECTICUT

10 0 10 20
SCALE: 1"= 10'
DATE: JUNE. 26, 2007

1479 JO

Department of Economic and Community Development

Connecticut
still revolutionary

April 17, 2014

received
4-23-2014

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

Subject: Department of Housing Superstorm Sandy Reviews
94 Longdean Avenue
Fairfield, Connecticut

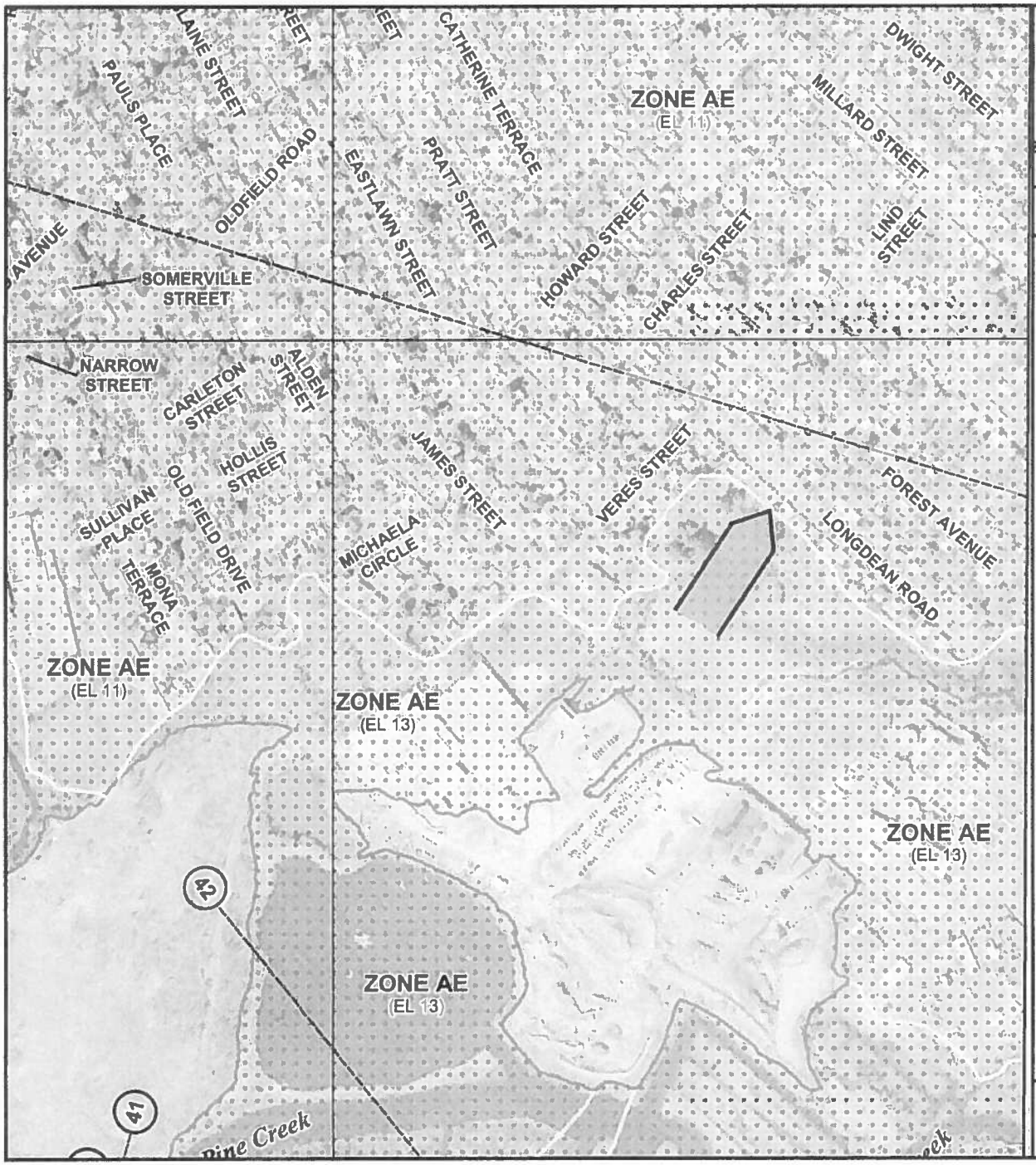
Dear Ms. Delaire:

The State Historic Preservation Office has reviewed the information submitted for the above-named pursuant to the provisions of Section 106 of the National Historic Preservation Act of 1966, as amended. It is the opinion of this office that the property located at 94 Longdean Avenue does not appear to be eligible for listing on the National Register of Historic Places. Based on the information provided to this office, no historic properties will be affected by the proposed structural repairs.

This office appreciates the opportunity to review and comment upon this project. For additional information, please contact Catherine Labadia, Environmental Reviewer, at (860) 256-2764 or catherine.labadia@ct.gov.

Sincerely,

Daniel T. Forrest
State Historic Preservation Officer



MAP SCALE 1" = 500'

250 0 500 1000 FEET

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0419G

FIRM

FLOOD INSURANCE RATE MAP

FAIRFIELD COUNTY, CONNECTICUT (ALL JURISDICTIONS)

PANEL 419 OF 626

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
FAIRFIELD, TOWN OF	090007	0419	G

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

MAP NUMBER
09001C0419G

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

U.S. Fish and Wildlife Service
National Wetlands Inventory

94 Longdean Ave.
Fairfield, CT

Oct 5, 2014

Wetlands

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

User Remarks:

COASTAL BOUNDARY
FAIRFIELD, CONNECTICUT

LEGEND

Coastal Boundary

EXPLANATION

The coastal boundary map shows the extent of lands and coastal waters as defined by Connecticut General Statutes within Commissioner's coastal area. The coastal boundary is a continuous line delineated on the landward side by the interior contour elevation of the one hundred year frequency coastal flood zone, as defined and determined by the National Flood Insurance Act, or a line measured from Local datum 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 program and coastal site plan review etc., site plans submitted to zoning commission, subdivision or resubdivision plans submitted to planning commission, applications for special permit or exception to the zoning or planning commissioners 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

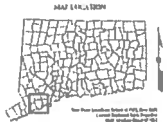
COASTAL BOUNDARY DATA - The original boundary maps were created in 1979 on stable mylar overlay using the 1:24,000-scale US Geological Survey topographic quadrangle maps (mylar film format). The source for tidal wetland maps were the legal 1:24,000 maps (mylar format) adopted by the Commissioner of DEP and transformed 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.

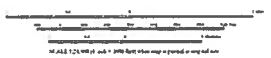
BASE MAP DATA - Based on data digitally from 1:24,000-scale USGS 7.5 minute topographic quadrangle maps published between 1969 and 1992. It includes political boundaries, railroads, airports, hydrography, geographic names and geographic places. Streets and street names are from Tele Atlas® copyrighted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

RELATED INFORMATION

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

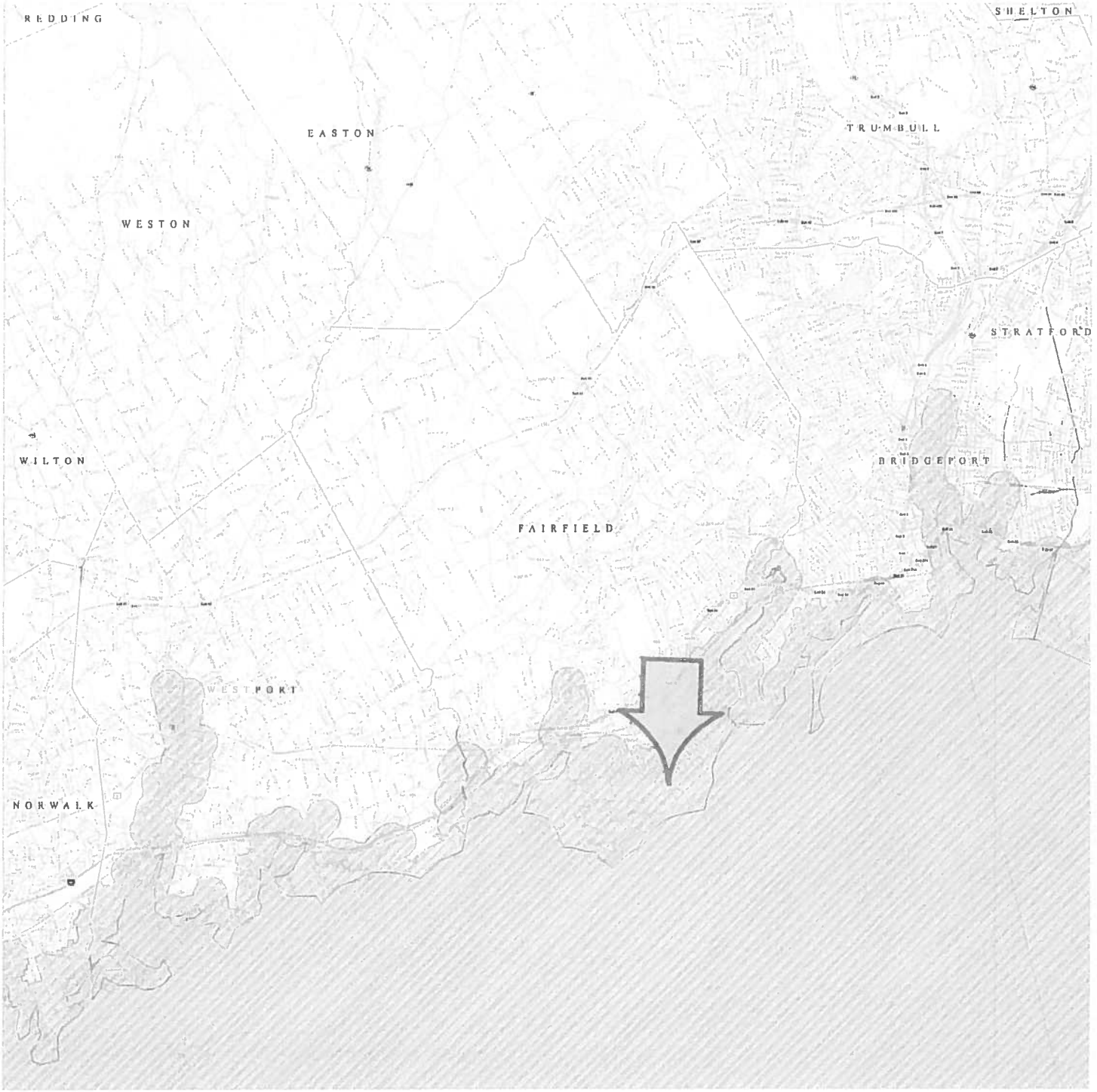
MAPS AND DIGITAL DATA - Go to the CT LCO website for this map and a variety of others. Go to the DEP website for the digital spatial data shown on this map.





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

Map created by DEP
January 2013



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-0011 October 03, 2014
Project Name: Sweeney Residence

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

To Whom It May Concern:

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

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

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

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

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

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

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

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

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

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

Attachment

United States Department of Interior
Fish and Wildlife Service

Project name: Sweeney Residence

Official Species List

Provided by:

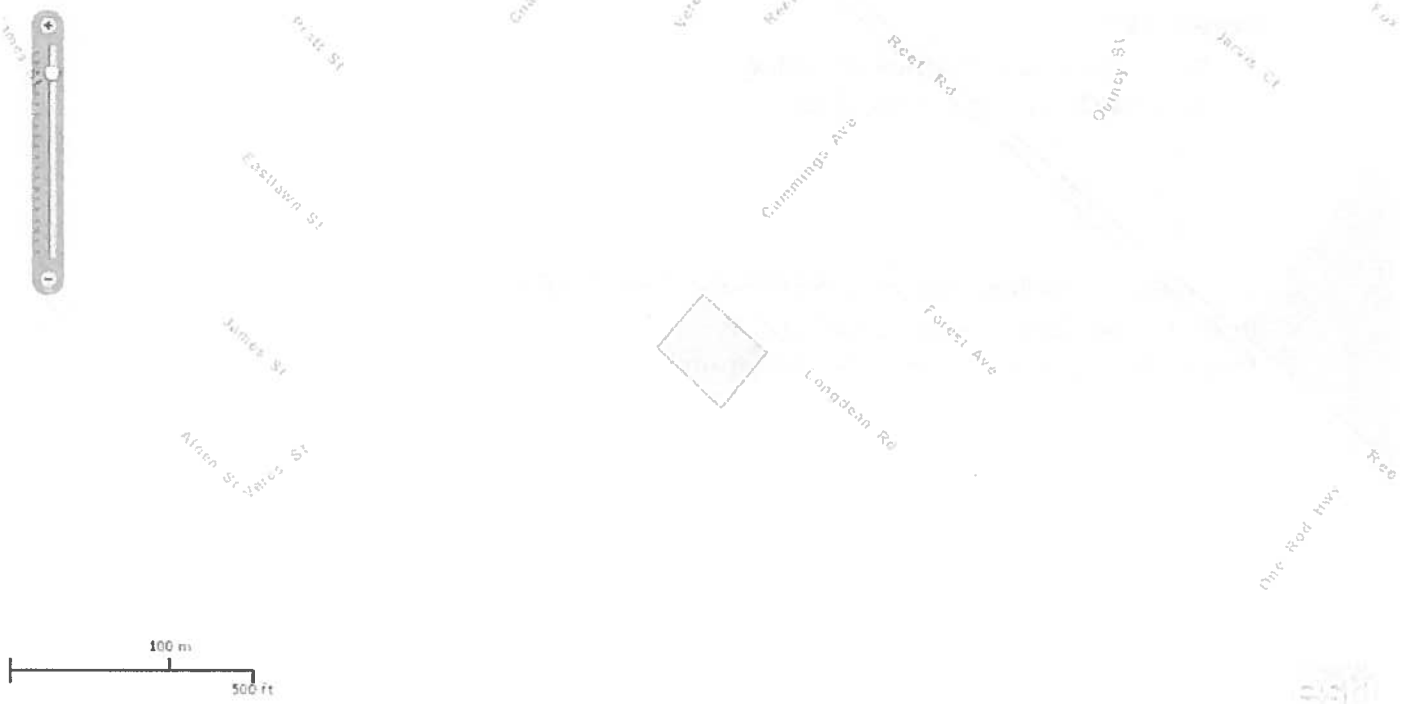
New England Ecological Services Field Office
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 3301
(603) 223-2541
http://www.fws.gov/newengland

Consultation Tracking Number: 05E1NE00-2015-SLI-0011
Project Type: Federal Grant / Loan Related
Project Description: Superstorm Sandy Repairs

United States Department of Interior
Fish and Wildlife Service

Project name: Sweeney Residence

Project Location Map:



Project Coordinates: MULTIPOLYGON (((-73.2528497 41.1327857, -73.2523675 41.1324624, -73.2527108 41.1321473, -73.2531936 41.1324867, -73.2528497 41.1327857)))

Project Counties: Fairfield, CT

United States Department of Interior
Fish and Wildlife Service

Project name: Sweeney Residence

Endangered Species Act Species List

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

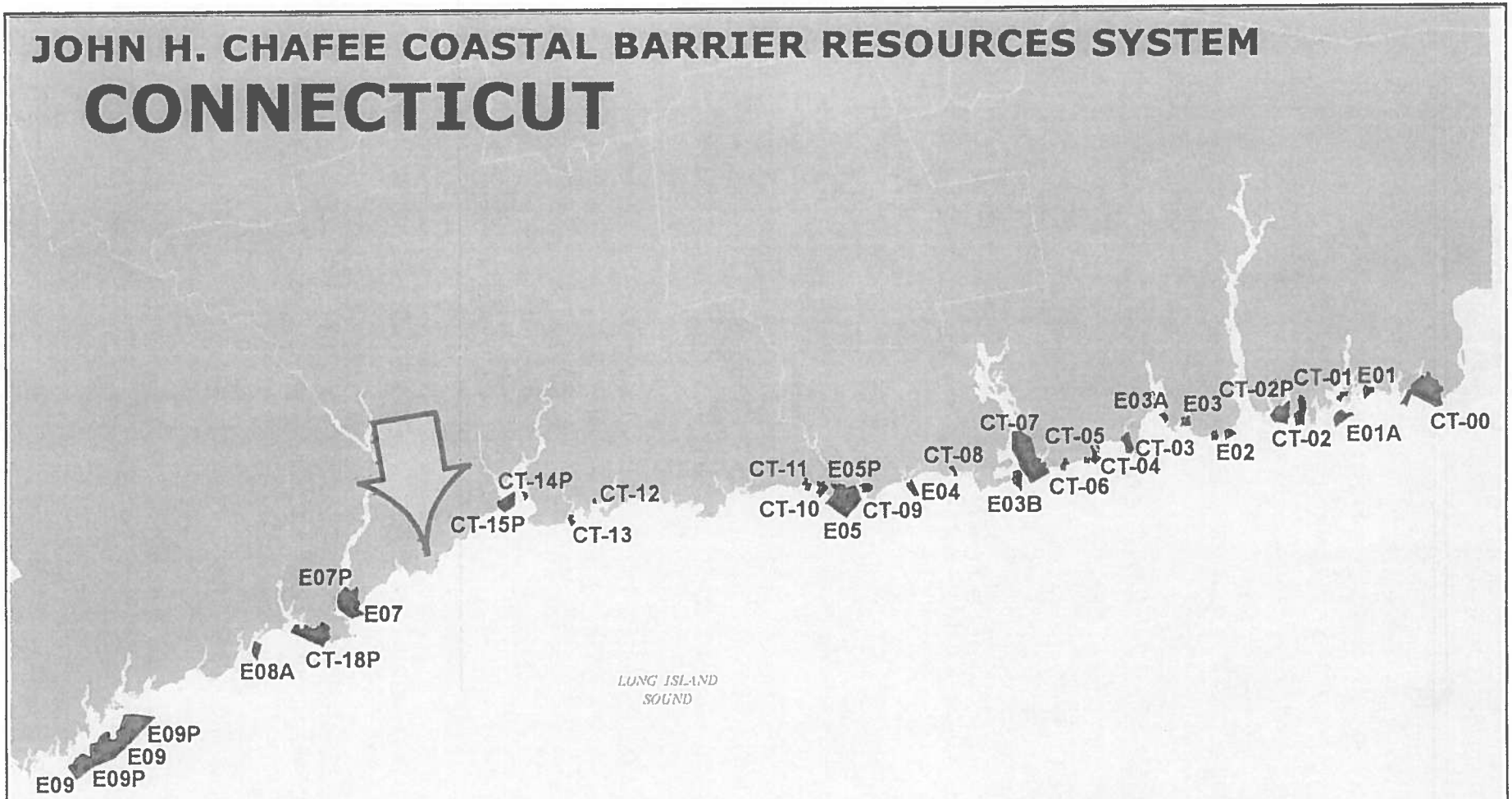
There are no listed species identified for the vicinity of your project.

Critical habitats that lie within your project area

There are no critical habitats within your project area.

JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

CONNECTICUT



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

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

Limited Hazardous Materials Building Inspection Report

Storm Sandy Residential Rehabilitation Project
94 Longdean Road
Fairfield, Connecticut

Quisenberry Arcari Architects, LLC

Farmington, Connecticut

April 2014
Revised May 2014

FUSS & O'NEILL

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

Project No. 20140277.B2E

FUSS & O'NEILL
EnviroScience, LLC

April 29, 2014
Revised May 27, 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
94 Longdean Road, Fairfield, Connecticut
Fuss & O'Neill EnviroScience Project No. 20140277.B2E
Quisenberry Arcari Project No. 1346-17

Dear Mr. Arcari:

Enclosed is the report for the limited hazardous materials building inspection performed at 94 Longdean Road in Fairfield, Connecticut.

The initial inspection was performed on April 14, 2014 by Fuss & O'Neill EnviroScience, LLC state-licensed inspectors and included an asbestos inspection, testing for lead-based paint, airborne radon assessment, mold assessment, and assessments for PCB-containing ballasts and mercury hazards.

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

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

Sincerely,

Kevin McCarthy
Project Manager

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

Enclosure

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

www.fando.com

Connecticut
Massachusetts
Rhode Island
South Carolina

FUSS & O'NEILL
EnviroScience, LLC

Table of Contents

Limited Hazardous Materials Building Inspection Report
Quisenberry Arcari Architects LLC
94 Longdean Road, Fairfield, Connecticut

Appendices

1 Introduction

On April 14, 2014, Fuss & O'Neill EnviroScience, LLC (EnviroScience) Environmental Technician, Mr. Robert Hobbins, performed a limited hazardous materials building inspection of the residential structure located at 94 Longdean Road in Fairfield, Connecticut. Mr. Hobbins is a State of Connecticut-licensed Asbestos Consultant - Inspector and Certified Lead Paint Inspector. The residential structure was occupied at the time and date of the inspection. Refer to *Appendix A* for the EnviroScience inspector state license, certification and accreditation.

This inspection was performed in response to the planned renovations to damaged or impacted areas of the building caused by Superstorm Sandy as identified in the *Draft Residence Rehabilitation Letter* dated March 21, 2014, provided by Quisenberry Arcari Architects. The limited inspection consisted of the following:

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

2 Asbestos Inspection

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

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

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

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

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

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

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

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

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

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

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

2.1 Results

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

Table 1
Asbestos-Containing Materials

Location	Material Type	Asbestos Content	Estimated Quantity	Sample No.
Basement	Black Floor Mastic	5% Chrysotile	700 SF	0414BH04A
2nd Floor Bedroom	Brown Self-Stick Floor Tile	5% Chrysotile	150 SF	0414BH06A
Basement	Chimney Flue Cement	5% Chrysotile	2 SF	0414BH07A
Exterior Roof	Roof Flashing	Assumed	10 SF	N/A

Note: **SF**=Square Feet

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

Table 2
Non-Asbestos-Containing Materials

Location	Material Type	Sample No.
Basement	Sheetrock & Taping/Joint Compound	0414BH01A-B, 02A[1]-B
	Pink Concrete Floor Leveling Compound	0414BH05A-C[2]
	Stairwell Concrete Wall & Yellow Glue	0414BH08A-B, 09A-B
	Concrete Block and Grout	0414BH10A-B, 11A-B
	Brick & Grout	0414BH12A-B, 12A-B
	Paper Backing on Fiberglass Batting Insulation	0414BH13A-B
Exterior of Building	Exterior Window Caulking	0414BH15A-B
	Silver Paper Backing on Fiberglass Insulation behind Siding	0414BH16A-B
	Concrete Foundation	0414BH17A-B
	Concrete Stairs	0414BH18A-B
Exterior Roof	Top & Bottom (Base Sheet) Roof Shingles	0414BH19A-B, 20A-B

Note: 1. See *Section 2.2 Discussion* for Point Count Analysis
2. To be disposed of as contaminated waste

2.2 Discussion

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

Table 3
Analysis Results using Point-Counting

Sample No.	Location	Material	Asbestos Content	Verified ACM?
0414BH02A	Basement	Taping/Joint Compound	1% Chrysotile	No

2.3 Conclusion

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

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

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

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

DISCLAIMER: This limited asbestos inspection only involved the samples of the materials observed and at the locations previously-mentioned within this report. No other locations or materials were included in the limited sampling.

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

3 Lead-Based Paint Testing

EnviroScience conducted comprehensive testing for lead-based paint (LBP) within the residential structure located at 94 Longdean Road in Fairfield, Connecticut. The testing was performed by EnviroScience's Environmental Technicians Mr. Hobbins on April 14, 2014. The purpose of the testing was for compliance with EPA's Renovation, Repair, and Painting Rule (RRP) located at Title 40 CFR, Parts 745.80 through 92, and the United States (US) Department of Housing and Urban Development (HUD) Lead-Safe Housing Rule (Title 24 CFR, Part 35, Subparts B-R).

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

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

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

3.1 XRF Testing Results

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

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

3.2 Conclusion

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

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

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

Those surfaces which do not contain lead paint are not subject to the RRP requirements. If a specific component or surface is not identified as having been previously tested, it should be presumed to contain lead paint unless tested and identified as non-LBP-coated. Contractors should be aware that the threshold limit of 1.0 mg/cm^2 for purposes of RRP requirements is not recognized by OSHA; worker exposures are still subject to the Lead in Construction regulation (Title 29 CFR, Part 1926.62).

4 Assessment of PCB-Containing Fluorescent Ballasts

Fluorescent light ballasts manufactured prior to 1979 may contain capacitors that contain PCBs. Ballasts installed as late as 1985 may contain PCB capacitors. Fluorescent light ballasts that are not labeled as "No-PCBs" must be assumed to contain PCBs, unless proven otherwise by quantitative analytical testing. Capacitors in fluorescent light ballasts labeled as non-PCB-containing may contain 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 April 14, 2014, EnviroScience representative Mr. Hobbins performed a visual inspection of representative fluorescent light fixtures to identify possible PCB-containing ballasts. The inspection involved visually inspecting labels on representative light ballasts to identify dates of manufacture and labels indicating "No PCB's". Ballasts manufactured after 1991 were not listed as a PCB or DEHP-containing ballast and not quantified for disposal. Ballasts without a label indicating "No PCB's" are presumed to be PCB waste, and must be segregated for proper removal, packaging, transport and disposal as PCB waste. Ballasts with date labels indicating manufacture prior to 1991 that indicate "No PCB's" are presumed to contain DEHP and must be segregated for proper removal, packaging, transport, and disposal as non-PCB hazardous waste. The disposal requirements are slightly varied, and costs are slightly less for DEHP than PCB-containing light ballasts.

4.1 Results

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

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

4.2 Conclusion

Nearly all fluorescent light ballasts manufactured prior to 1979 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 DEHP. If the renovation activities will disturb the materials, the light ballasts without a "No PCBs" label should properly disposed as PCBs. The remaining ballasts labeled "No PCBs" should be properly recycled as assumed DEHP-containing.

5 Assessment of Mercury-Containing Devices

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

On April 14, 2014, EnviroScience's representative Mr. Robert Hobbins performed a visual inventory of mercury lamps, thermostats, and mercury switches. These fixtures were inventoried in-place.

5.1 Results

It is estimated that approximately 10 fluorescent bulbs/tubes exist within the structure. No thermostats, switches, or gauges were observed within the structure.

5.2 Conclusion

If the renovation activities will disturb the materials, the mercury-containing light bulbs/tubes should be properly recycled.

6 Mold Visual Assessment

On April 14, 2014, EnviroScience representative Mr. Robert Hobbins performed a visual assessment for the presence of suspect mold and water intrusion.

6.1 Observations

No suspected mold growth was identified on any building materials within the residence at the time and date of the inspection.

7 Airborne Radon Information, Sampling and Procedure

7.1 Radon Facts and Health Effects

Radon is a naturally-occurring radioactive gas produced by the natural breakdown (decay) of uranium which is found in soil and rock throughout the US. Radon 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 that can damage lung tissue and lead to lung cancer over the course of a person's lifespan.

EPA studies have found that radon gas concentrations in outdoor air average approximately 0.4 picoCuries per liter of air (pCi/L). However, radon and its decay products can accumulate to a much higher concentration inside a building. The EPA has adopted an 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 with the building.

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

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

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

7.2 Airborne Radon Sampling

From April 14, 2014 to April 16, 2014, an EnviroScience representative deployed passive radon detection canisters in limited areas within the subject property and then retrieved the same canisters 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 is performed by RTCA and results are included in *Appendix F*.

7.3 Airborne Radon Quality Assurance Procedure

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

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

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

7.4 Airborne Radon Analytical Results

Four canisters, including one duplicate and one blank, were placed in target locations within the structure during sampling that was performed from April 14, 2014 to April 16 2014. The concentrations of radon in the samples during the assessment ranged from 0.2 pCi/L to 0.4 pCi/L. The EPA threshold for radon is 4.0 pCi/L.

In *Table 4* below, the locations and results of quality control duplicate tests are listed for April 14, 2014 to April 16, 2014:

Table 4
Duplicate Samples Results – April 14, 2014 – April 16, 2014

Location	Canister Numbers	Radon Concentration (pCi/Liter)			Relative Percent Difference (RPD, %)
		Sample	Sample Duplicate	Sample Average	
Dining Room	2314617 &2314094	0.4	0.2	0.3	Percent Difference Not Needed (No Concentrations Above 4.0 pCi/Liter)

Note Duplicate testing results were satisfactory.

In *Table 5* below, the locations and results of quality control blank tests are listed for April 14, 2014 to April 16, 2014:

Table 5
Blank Samples Results – April 14, 2014 – April 16, 2014

Location	Canister Numbers	Radon Concentration (pCi/Liter)
Basement	2314685	0.2

Note Blank testing results were satisfactory

In *Table 6* below, the locations, canister numbers, and radon concentrations are listed for the airborne radon assessment conducted from April 14, 2014 to April 16, 2014:.

Table 6
Radon Sampling Results – April 14, 2014 – April 16, 2014

Location	Canister Numbers	Radon Concentration (pCi/Liter)
Dining Room	2314617	0.4
Basement	2314627	0.3

7.5 Conclusion

During the course of the initial radon measurement assessment, four sampling canisters, including one duplicate and one blank, were placed in targeted locations within 94 Longdean in Fairfield, Connecticut. The analytical results of each of the four samples analyzed indicate radon gas concentrations below the EPA recommended action level of 4.0 pCi/L.

Site photographs are provided in *Appendix G*.

Report prepared by Environmental Technician Robert Hobbins and revised by Environmental Technician James Blum.

Reviewed by:

Kevin McCarthy
Project Manager

Timothy M. Downey.
Senior Project Manager

Appendix A

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

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

Dear Licensed/Certified Professional,

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

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

Sincerely,

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

INSTRUCTIONS:

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

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

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

ASBESTOS CONSULTANT-INSPECTOR

JOHN R. HOBBINS

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

SIGNATURE COMMISSIONER

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JOHN R. HOBBINS

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

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JOHN R. HOBBINS

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

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE COMMISSIONER

Fuss & O'Neill EnviroScience, LLC

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

This is to certify that

John Robert Hobbins

XXX-XX-6853

has successfully completed the

4 Hr. Asbestos Inspector Refresher

Asbestos Accreditation under TSCA Title II

40 CFR Part 763

John Rowinski, Principal Instructor

Robert L. May Jr. Training Manager

September 4, 2013

Date of Course

AI-R-09/13-6

Certificate Number

September 4, 2013; B-

Examination Date & Grade

September 4, 2014

Expiration Date

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

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

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http://www.dph.state.ct.us

Sincerely,

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

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

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

John R. Hobbins

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

SIGNATURE

COMMISSIONER

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
John R. Hobbins

VALIDATION NO.
DUPLICATE

CERTIFICATION NO.
2156

CURRENT THROUGH
01/31/2015

PROFESSION
Lead Inspector

SIGNATURE

COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
John R. Hobbins

VALIDATION NO.
DUPLICATE

CERTIFICATION NO.
2156

CURRENT THROUGH
01/31/2015

PROFESSION
Lead Inspector

SIGNATURE

COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

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

has successfully completed the

INSPECTOR REFRESHER

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

Neal B. Freuden
Principal Instructor: Neal Freuden

January 30, 2014
Date of Course

January 30, 2014
Exam Date

CTLIR-205
Certificate Number

January 30, 2015
Expiration Date

Gregory J. Morsch
Training Manager: Gregory Morsch

Training received complies with the requirements of the Connecticut Department of Public Health pursuant to Section 20-477 of the Connecticut General Statutes.

Appendix B

Asbestos Sample Results and Chain of Custody Forms

0414105 00.

FUSS & O'NEILL
EnviroScience, LLC

www.fando.com

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

SAMPLE LOG FOR ASBESTOS BULKS

Sheet 1 of 3

Project Name: QA Residential Rehab–94 Longdean Road, Fairfield, CT Project No. 20140277.B2E

Building: 94 Longdean Road Project Manager: K. McCarthy

Sample ID	Sample Location	Material	Result (%)
0414BH01A	Basement	Sheetrock	None Detected
0414BH01B	Basement	Sheetrock	–
0414BH02A	Basement	Taping/Joint Compound	~~None D~~ 1% chrysotile
0414BH02B	Rear Porch off Basement	Taping/Joint Compound	None Detected
0414BH03	Rear Porch off Basement	Sheetrock & Taping/Joint Compound Composite	None Detected
0414BH04A	Basement	Black Floor Mastic	5% chrysotile
0414BH04B	Basement	Black Floor Mastic	SP
0414BH04C	Basement	Black Floor Mastic	SP
0414BH05A	Basement	Pink Concrete Floor Leveler	None Detected
0414BH05B	Basement	Pink Concrete Floor Leveler	SP
0414BH05C	Basement	Pink Concrete Floor Leveler	SP
0414BH06A	2nd Floor Bedroom	Brown Self-Stick Floor Tile	5% chrysotile
0414BH06B	2nd Floor Bedroom	Brown Self-Stick Floor Tile	SP
0414BH07A	Basement	Chimney Flue Cement	5% chrysotile
0414BH07B	Basement	Chimney Flue Cement	SP

2014 APR 19 A 8:51 CINNAMINSON, NJ EMSL

Analysis Method: ☒ PLM ☐ Other Turnaround Time 24 hour

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

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

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

Samples collected by: R. Hobbins **Date:** 4-14-14 **Time:** _____

Samples [Rec'd] [Sent by] [BH] [_____] **Date:** [4-18-14] [_____] **Time:** _____

Samples Received by: FedEx **Date:** 4-19-14 **Time:** 10A

Shipped To: ☒ EMSL State NJ ☐ Other _____

Method of Shipment: ☒ FedEx ☐ Other _____

F:\P2014\0277\B2E\lab data\COC_BH_2014-0418.doc

42

041410560.

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EnviroScience, LLC

www.fando.com

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

SAMPLE LOG FOR ASBESTOS BULKS

Project Name: QA Residential Rehab–94 Longdean Road, Fairfield, CT Project No. 20140277.B2E

Building: 94 Longdean Road Project Manager: K. McCarthy

Sample ID	Sample Location	Material	Result (%)
0414BH07C	Basement	Chimney Flue Cement	5% chrysotile
0414BH08A	Basement	Basement Stairwell Concrete Wall	None Detected
0414BH08B	Basement	Basement Stairwell Concrete Wall	
0414BH09A	Basement	Yellow Glue on Basement Stairwell Concrete Wall	
0414BH09B	Basement	Yellow Glue on Basement Stairwell Concrete Wall	
0414BH10A	Basement	Concrete Block	
0414BH10B	Basement	Concrete Block	
0414BH11A	Basement	Concrete Block Grout	
0414BH11B	Basement	Concrete Block Grout	
0414BH12A	Basement	Brick	
0414BH12B	Basement	Brick	
0414BH13A	Basement	Brick Grout	
0414BH13B	Basement	Brick Grout	
0414BH14A	Basement	Paper Backing on Fiberglass Batt Insulation	
0414BH14B	Basement	Paper Backing on Fiberglass Batt Insulation	

RECEIVED EMSL CINNAMINSON, N.J. 2014 APR 19 A 9:51

Analysis Method: ☒ PLM ☐ Other Turnaround Time 24 hour

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

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

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

Samples collected by: B. Hobbins **Date:** 4-14-14 **Time:** _____

Samples [Rec'd] [Sent by] [BH] [_____] **Date:** [4-18] [_____] **Time:** _____

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

Shipped To: ☒ EMSL State NJ ☐ Other _____

Method of Shipment: ☒ FedEx ☐ Other _____

0414105 60

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EnviroScience, LLC

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

SAMPLE LOG FOR ASBESTOS BULKS

Sheet 2 of 3

Project Name: QA Residential Rehab–94 Longdean Road, Fairfield, CT Project No. 20140277.B2E

Building: 94 Longdean Road Project Manager: K. McCarthy

Sample ID	Sample Location	Material	Result (%)
0414BH15A	Exterior of Building	Exterior Basement Window Caulking Compounds	None Detected
0414BH15B	Exterior of Building	Exterior Basement Window Caulking Compounds	
0414BH16A	Exterior of Building	Silver Paper Backing on Fiberglass Insulation behind Siding	
0414BH16B	Exterior of Building	Silver Paper Backing on Fiberglass Insulation behind Siding	
0414BH17A	Exterior of Building	Concrete Foundation	
0414BH17B	Exterior of Building	Concrete Foundation	
0414BH18A	Exterior of Building	Concrete Stairs	
0414BH18B	Exterior of Building	Concrete Stairs	
0414BH19A	Exterior Rear Porch Roof	Top Shingle	
0414BH19B	Exterior Rear Porch Roof	Top Shingle	
0414BH20A	Exterior Rear Porch Roof	Bottom Shingle/Base Sheet	
0414BH20B	Exterior Rear Porch Roof	Bottom Shingle/Base Sheet	

RECEIVED EMSL CINNAMINSON, N.J. 2014 APR 19 A 8:57

Analysis Method: ☒ PLM ☐ Other Turnaround Time 24 hour

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

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

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

Samples collected by: R. Hobbins **Date:** 4-14-14 **Time:** _____

Samples [Rec'd][Sent by] [BH][ ] **Date:** [4-18][ ] **Time:** _____

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

Shipped To: ☒ EMSL State NJ ☐ Other _____

Method of Shipment: ☒ FedEx ☐ Other _____

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200 Route 130 North Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
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EMSL Order ID:	041410560
Customer ID:	ENVI54
Customer PO:	20140277.B2E
Project ID:	

Attn:	Kevin McCarthy	Phone:	(860) 646-2469
	Fuss & O'Neill EnviroScience, LLC	Fax:	(888) 838-1160
	146 Hartford Road	Collected:	4/14/2014
	Manchester, CT 06040	Received:	4/19/2014
		Analyzed:	4/21/2014

Proj: QA Residential Rehab- 94 Longdean Road Fairfield, CT/ 20140277.B2E

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

Client Sample ID: 0414BH01A **Lab Sample ID:** 041410560-0001

Sample Description: Basement/Sheetrock

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/19/2014	White	15%	85%	None Detected	

Client Sample ID: 0414BH01B **Lab Sample ID:** 041410560-0002

Sample Description: Basement/Sheetrock

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/21/2014	Brown/White	20%	80%	None Detected	

Client Sample ID: 0414BH02A-Tape **Lab Sample ID:** 041410560-0003

Sample Description: Basement/Taping/ Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/19/2014	Beige	95%	5%	None Detected	

Client Sample ID: 0414BH02A-Joint Compound **Lab Sample ID:** 041410560-0003A

Sample Description: Basement/Taping/ Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
400 PLM Pt Ct	4/19/2014	Tan	0%	99.00%	1.00% Chrysotile	

Client Sample ID: 0414BH02B **Lab Sample ID:** 041410560-0004

Sample Description: Rear Porch off Basement/Taping/ Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/21/2014	White	0%	100%	None Detected	The sample group is not homogeneous. No Tape present.

Client Sample ID: 0414BH03-Composite **Lab Sample ID:** 041410560-0005

Sample Description: Rear Porch off Basement/Sheetrock & Taping/ Joint Compound Composite

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/21/2014	Brown/White	20%	80%	None Detected	

Client Sample ID: 0414BH04A **Lab Sample ID:** 041410560-0006

Sample Description: Basement/Black Floor Mastic

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/19/2014	Black	0%	95%	5% Chrysotile	

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Project ID:	

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

Client Sample ID: 0414BH04B — ***Lab Sample ID:*** 041410560-0007

Sample Description: Basement/Black Floor Mastic

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/19/2014				Stop Positive (Not Analyzed)	

Client Sample ID: 0414BH04C — ***Lab Sample ID:*** 041410560-0008

Sample Description: Basement/Black Floor Mastic

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/19/2014				Stop Positive (Not Analyzed)	

Client Sample ID: 0414BH05A — ***Lab Sample ID:*** 041410560-0009

Sample Description: Basement/Pink Concrete Floor Leveler

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/19/2014	Pink	0%	100%	None Detected	

Client Sample ID: 0414BH05B — ***Lab Sample ID:*** 041410560-0010

Sample Description: Basement/Pink Concrete Floor Leveler

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/19/2014	Pink	0%	100%	None Detected	

Client Sample ID: 0414BH05C — ***Lab Sample ID:*** 041410560-0011

Sample Description: Basement/Pink Concrete Floor Leveler

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/21/2014	Pink	0%	100%	None Detected	

Client Sample ID: 0414BH06A — ***Lab Sample ID:*** 041410560-0012

Sample Description: 2nd Floor Bedroom/Brown Self-Stick Floor Tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/19/2014	Brown	0%	95%	5% Chrysotile	

Client Sample ID: 0414BH06B — ***Lab Sample ID:*** 041410560-0013

Sample Description: 2nd Floor Bedroom/Brown Self-Stick Floor Tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/19/2014				Stop Positive (Not Analyzed)	

Client Sample ID: 0414BH07A — ***Lab Sample ID:*** 041410560-0014

Sample Description: Basement/Chimney Flue Cement

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/19/2014	Gray	0%	95%	5% Chrysotile	

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Customer PO:	20140277.B2E
Project ID:	

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

Client Sample ID: 0414BH07B — ***Lab Sample ID:*** 041410560-0015

Sample Description: Basement/Chimney Flue Cement

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/19/2014			Stop Positive (Not Analyzed)		

Client Sample ID: 0414BH07C — ***Lab Sample ID:*** 041410560-0016

Sample Description: Basement/Chimney Flue Cement

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/19/2014			Stop Positive (Not Analyzed)		

Client Sample ID: 0414BH08A — ***Lab Sample ID:*** 041410560-0017

Sample Description: Basement/Basement Stairwell Concrete Wall

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/19/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0414BH08B — ***Lab Sample ID:*** 041410560-0018

Sample Description: Basement/Basement Stairwell Concrete Wall

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/21/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0414BH09A — ***Lab Sample ID:*** 041410560-0019

Sample Description: Basement/Yellow Glue on Basement Stairwell Concrete Wall

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/19/2014	Yellow	0%	100%	None Detected	

Client Sample ID: 0414BH09B — ***Lab Sample ID:*** 041410560-0020

Sample Description: Basement/Yellow Glue on Basement Stairwell Concrete Wall

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/21/2014	Tan/Yellow	0%	100%	None Detected	

Client Sample ID: 0414BH10A — ***Lab Sample ID:*** 041410560-0021

Sample Description: Basement/Concrete Block

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/19/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0414BH10B — ***Lab Sample ID:*** 041410560-0022

Sample Description: Basement/Concrete Block

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/21/2014	Gray	0%	100%	None Detected	

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

Client Sample ID: 0414BH11A ***Lab Sample ID:*** 041410560-0023

Sample Description: Basement/Concrete Block Grout

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/19/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0414BH11B ***Lab Sample ID:*** 041410560-0024

Sample Description: Basement/Concrete Block Grout

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/21/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0414BH12A ***Lab Sample ID:*** 041410560-0025

Sample Description: Basement/Brick

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/19/2014	Red	0%	100%	None Detected	

Client Sample ID: 0414BH12B ***Lab Sample ID:*** 041410560-0026

Sample Description: Basement/Brick

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/21/2014	Red	0%	100%	None Detected	

Client Sample ID: 0414BH13A ***Lab Sample ID:*** 041410560-0027

Sample Description: Basement/Brick Grout

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/19/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0414BH13B ***Lab Sample ID:*** 041410560-0028

Sample Description: Basement/Brick Grout

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/21/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0414BH14A ***Lab Sample ID:*** 041410560-0029

Sample Description: Basement/Paper Backing on Fiberglass Batt Insulation

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/19/2014	Brown	90%	10%	None Detected	

Client Sample ID: 0414BH14B ***Lab Sample ID:*** 041410560-0030

Sample Description: Basement/Paper Backing on Fiberglass Batt Insulation

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/21/2014	Brown/Black/Yellow	95%	5%	None Detected	

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Project ID:	

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

Client Sample ID: 0414BH15A ***Lab Sample ID:*** 041410560-0031

Sample Description: Exterior of Building/Exterior Basement Window Caulking Compounds

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/19/2014	White	0%	100%	None Detected	

Client Sample ID: 0414BH15B ***Lab Sample ID:*** 041410560-0032

Sample Description: Exterior of Building/Exterior Basement Window Caulking Compounds

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/21/2014	Brown/White	0%	100%	None Detected	

Client Sample ID: 0414BH16A ***Lab Sample ID:*** 041410560-0033

Sample Description: Exterior of Building/Silver Paper Backing on Fiberglass Insulation Behind Siding

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/19/2014	Silver	0%	100%	None Detected	

Client Sample ID: 0414BH16B ***Lab Sample ID:*** 041410560-0034

Sample Description: Exterior of Building/Silver Paper Backing on Fiberglass Insulation Behind Siding

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/21/2014	Silver	0%	100%	None Detected	

Client Sample ID: 0414BH17A ***Lab Sample ID:*** 041410560-0035

Sample Description: Exterior of Building/Concrete Foundation

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/19/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0414BH17B ***Lab Sample ID:*** 041410560-0036

Sample Description: Exterior of Building/Concrete Foundation

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/21/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0414BH18A ***Lab Sample ID:*** 041410560-0037

Sample Description: Exterior of Building/Concrete Stairs

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/19/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0414BH18B ***Lab Sample ID:*** 041410560-0038

Sample Description: Exterior of Building/Concrete Stairs

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/21/2014	Gray	0%	100%	None Detected	

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Project ID:	

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

Client Sample ID: 0414BH19A ***Lab Sample ID:*** 041410560-0039

Sample Description: Exterior Rear Porch Roof/Top Shingle

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	4/19/2014	Black	16%	84%	None Detected	

Client Sample ID: 0414BH19B ***Lab Sample ID:*** 041410560-0040

Sample Description: Exterior Rear Porch Roof/Top Shingle

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	4/21/2014	Black	25%	75%	None Detected	

Client Sample ID: 0414BH20A ***Lab Sample ID:*** 041410560-0041

Sample Description: Exterior Rear Porch Roof/Bottom Shingle/ Base Sheet

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	4/19/2014	Black	16%	84%	None Detected	

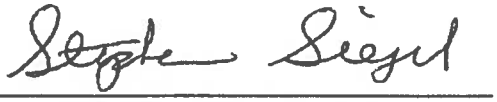
Client Sample ID: 0414BH20B ***Lab Sample ID:*** 041410560-0042

Sample Description: Exterior Rear Porch Roof/Bottom Shingle/ Base Sheet

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	4/21/2014	Black	25%	75%	None Detected	

Analyst(s)

Adam Gart	PLM	(17)
Michael Garrity	PLM	(20)
	400 PLM Pt Ct	(1)



Stephen Siegel, CIH, Laboratory Manager
or other Approved Signatory

Any questions please contact Steve Siegel.

Initial report from: 04/21/201417:33:00

Appendix C

Lead Paint Testing Procedures and Equipment

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

Testing Procedures and Equipment

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

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

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

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

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

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

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

Radiation Monitoring Device LPA Analyzer 1

30-Second Standard Mode Reading Description	Substrate	Threshold (mg/cm²)
Results corrected for substrate bias on metal substrate only.	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	0.9
	Plaster	1.0
	Wood	1.0

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

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

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

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

Appendix D

Lead Testing Field Data Sheets

FUSS & O'NEILL
EnviroScience, LLC

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LEAD INSPECTION COVER SHEET

Inspector's Information

Inspector's Name: Robert Hobbins **License Number:** 2156
XRF Model: LPA – 1B **Serial Number:** 1377
Date of Inspection: April 14, 2014 **Project Number:** 20140277.B2E

Property Information

Building Address: 94 Longdean Street (Street)
Fairfield (City) CT (State) Age of Property: N/A

Describe Structure:
Sheetrock ceilings and walls with wood /metal window and door systems and wood floors
Exterior vinyl replacement over wood siding and concrete foundation

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

Single Family Dwelling ☒

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

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

Multiple Family Dwelling ☐

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

XRF Calibration Check

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

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

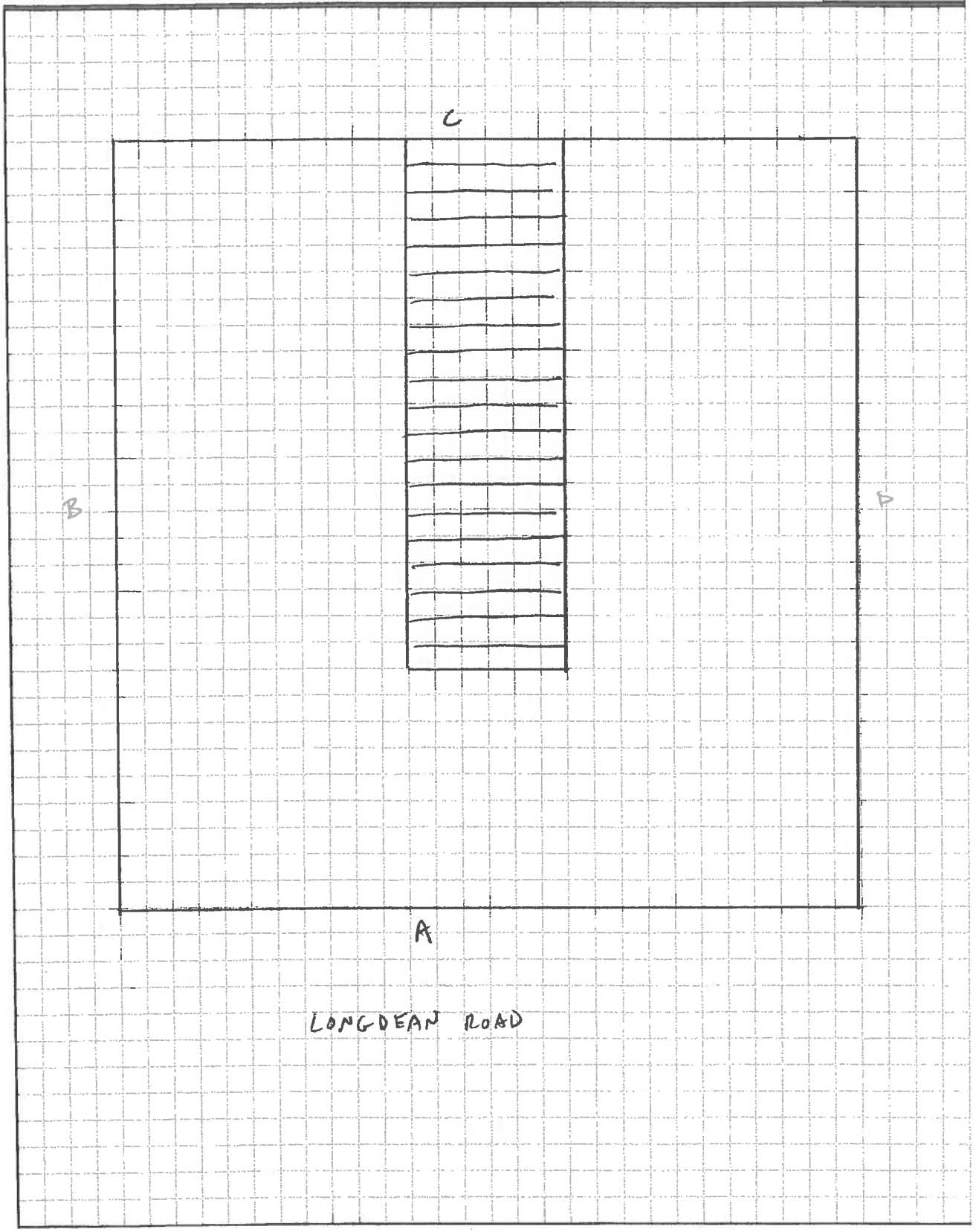
	Hour	First Reading	Second Reading	Third Reading	Average
First Check	0930	0.9	1.0	1.2	1.03
Second Check	1200	1.1	1.1	1.0	1.06
Third Check	1400	1.0	1.1	1.0	1.03
Fourth Check					

FUSS&O'NEILL

Prepared By	Date	Checked By	Date	Project No

Sheet No
of

BASEMENT



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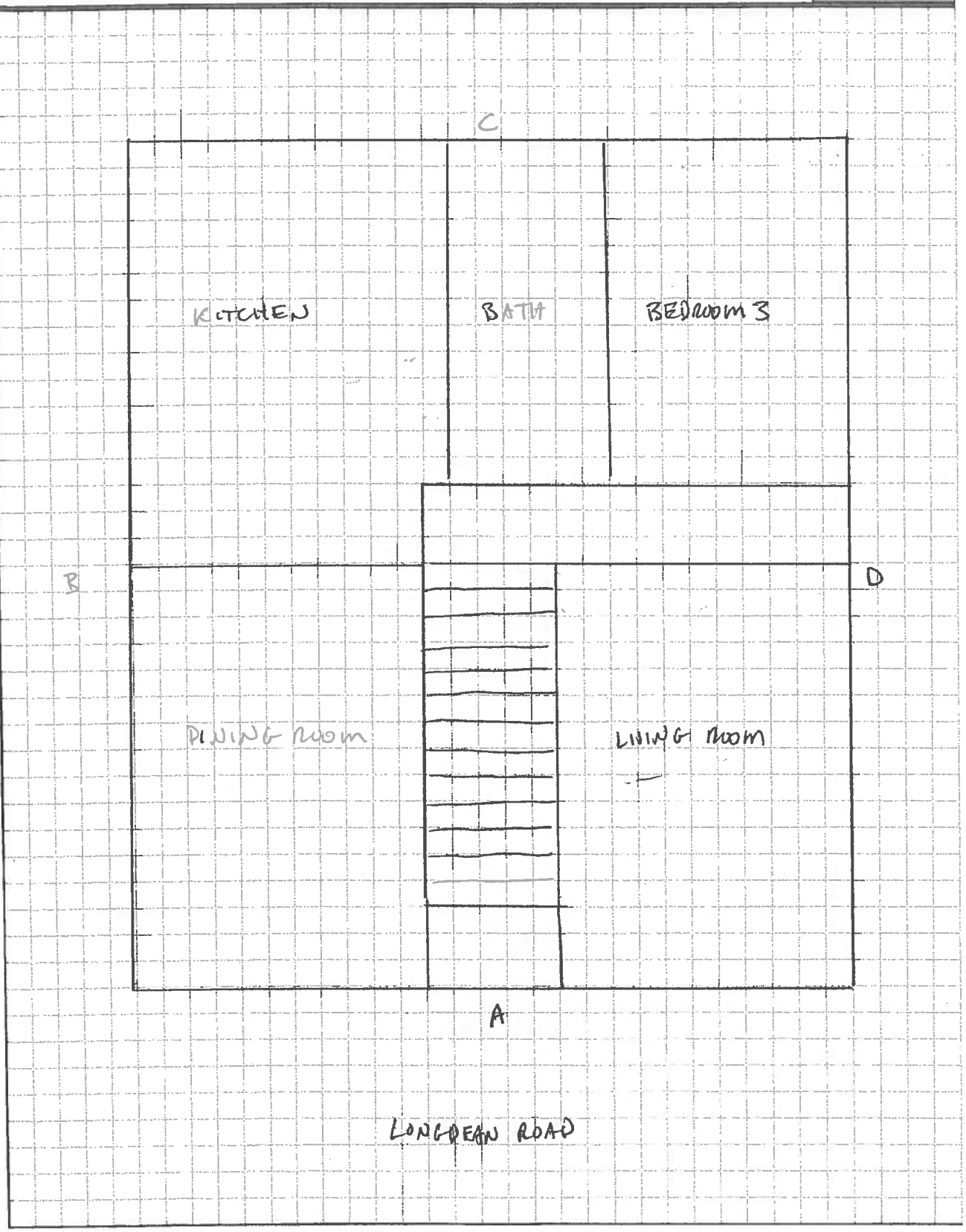
Prepared By	Date	Checked By	Date	Project No

Sheet No of

Main FLOOR



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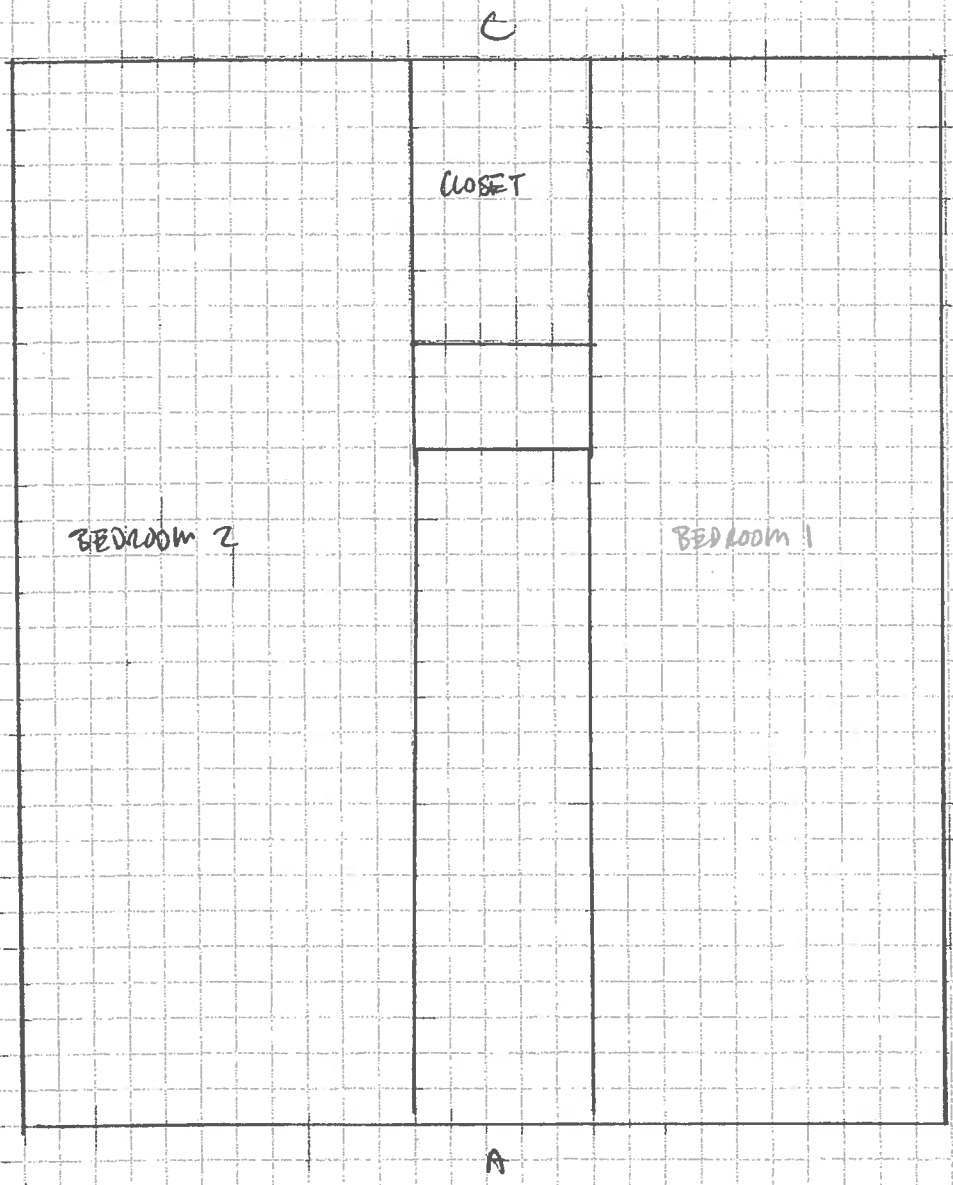
Prepared By	Date	Checked By	Date	Project No

2ND FLOOR

Sheet No of



LONG DEAN ROAD

FUSS & O'NEILL
EnviroScience, LLC

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

XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 94 Longdean Road, Fairfield, CT **Apt. #:**

Floor: 2nd **Room:** BDR 2 **Page** 1 **of** 12

Project Name: 94 Longdean Road **Project Number:**

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

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

* 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: 94 Longdean Road, Fairfield, CT **Apt. #:**

Floor: 1st **Room:** BDRM 1 **Page** 2 **of** 12

Project Name: 94 Longdean Road **Project Number:**

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

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

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

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 94 Longdean Road, Fairfield, CT **Apt. #:**

Floor: 1ST **Room:** KITCHEN **Page** 3 **of** 12

Project Name: 94 Longdean Road **Project Number:**

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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards								
A	Wall	0.1		SR					
B	Wall	0.1							
C	Wall	0.0							
D	Wall	0.0							
	Chair rail								
	Ceiling	0.1		SR					
	Crown Molding								
	Door	0.4		M					
	Casing NP	~~0.0~~							
	Jamb NP	0.0							
	Door								
	Casing								
	Jamb								
	Window Trim NP								
	Sill								
	Sash								
	Well								
	Cabinet Base NP								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf								
	Shelf Supports								
	Radiator	0.1		M					
	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: 94 Longdean Road, Fairfield, CT **Apt. #:**

Floor: 1st **Room:** Dining Room **Page** 4 **of** 12

Project Name: 94 Longdean Road **Project Number:**

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

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

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

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 94 Longdean Road, Fairfield, CT **Apt. #:**

Floor: 1ST **Room:** Dining Room **Page** 4 **of** 12

Project Name: 94 Longdean Road **Project Number:**

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

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

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

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 94 Longdean Road, Fairfield, CT **Apt. #:**

Floor: 1ST **Room:** Bath **Page** 5 **of** 12

Project Name: 94 Longdean Road **Project Number:**

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

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

* 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: 94 Longdean Road, Fairfield, CT **Apt. #:**

Floor: 1st **Room:** BDR 3 **Page** 6 **of** 12

Project Name: 94 Longdean Road **Project Number:**

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

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

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

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 94 Longdean Road, Fairfield, CT **Apt. #:**

Floor: 1ST **Room:** Living Rm **Page** 7 **of** 12

Project Name: 94 Longdean Road **Project Number:**

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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards	-0.1		W					
A	Wall	-0.0		[redacted] SR					
B	Wall	0.1		W					
C	Wall	0.1		W					
D	Wall	-0.0		SR					
	Chair rail								
	Ceiling								
	Crown Molding								
	Door	-0.0		W					
	Casing	0.1		W					
	Jamb	-0.0		W					
	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								
	Stair - Stringer	-0.1		W					

* 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: 94 Longdean Road, Fairfield, CT **Apt. #:**

Floor: Basement **Room:**

Project Name: 94 Longdean Road **Project Number:**

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

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

* 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 – EXTERIOR OF SIDE A

Address: 94 Longdean Road, Fairfield, CT **Page** 9 **of** 12

Project Name: 94 Longdean Road **Project Number:**

Project Manager: K. McCarthy

(If Positive - Check All That Apply)

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

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XRF FIELD DATA SHEET – EXTERIOR OF SIDE 15

Address: 94 Longdean Road, Fairfield, CT **Page** 10 **of** 12

Project Name: 94 Longdean Road **Project Number:** _____

Project Manager: K. McCarthy

(If Positive - Check All That Apply)

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

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XRF FIELD DATA SHEET – EXTERIOR OF SIDE C

Address: 94 Longdean Road, Fairfield, CT **Page** 11 **of** 12

Project Name: 94 Longdean Road **Project Number:**

Project Manager: K. McCarthy

(If Positive - Check All That Apply)

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

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XRF FIELD DATA SHEET – EXTERIOR OF SIDE D

Address: 94 Longdean Road, Fairfield, CT **Page** 12 **of** 12

Project Name: 94 Longdean Road **Project Number:**

Project Manager: K. McCarthy

(If Positive - Check All That Apply)

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

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Appendix E

Airborne Radon Gas Assessment Results and Chain of Custody Forms

FUSS & O'NEILL
EnviroScience, LLC

4/17/14
ENV111
DE

Radon Testing Summary Sheet

Contact/Phone #: Bob Hobbins/203-374-3748 x3526
Placed by: B. Hobbins

Project #: 20140277.A4E
Retrieved by: BH

Building: 94 Longdean Road
Start Date: 4-14-14

Address: 94 Longdean Road
Stop Date: 4-16-14

Fairfield, CT 06824
Weather at Placement: Sunny - 60°

email results to kmccarthy@fando.com ✓

Instructions: Tear off center bar coded label from canister and affix to sheet in spaces provided. Please make sure top bar coded label is left on detector. Identify test location for each detector in space provided for that detector (room #, location in room, ...). Use additional sheets as necessary. Please detector is missing or damaged a

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2314617
REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS
2314617
Client
RADON TESTING CORP. OF AMERICA

Start Time: 12:58
Stop Time: 13:10
Identifier:
Dining Room

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2314627
REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS
2314627
Client
RADON TESTING CORP. OF AMERICA

Start Time: 13:00
Stop Time: 13:12
Identifier:
Basement

Start Time:
Stop Time:
Identifier:

Start Time:
Stop Time:
Identifier:

Start Time:
Stop Time:
Identifier:

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2314084
REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS
2314084
Client
RADON TESTING CORP. OF AMERICA

Start Time: 12:58
Stop Time: 13:10
Identifier:
Dining Room - D

Start Time:
Stop Time:
Identifier:
Basement - B

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

RTCA RADON TESTING CORPORATION OF AMERICA

Site Radon Inspection Report

Date : 4/17/2014

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

Client: Project #: 20140277.A4E
Test Location 94 Longdean Road
Fairfield, CT 06824-

Individual Canister Results

Canister ID# : 2314094-D
Canister Type : Charcoal Canister 3 inch
Location : Dining room
Radon Level : **0.2 pCi/L**
Error for Measurement Is: ± 0.2 pCi/L

Test Start : 04/14/2014 @ 12:58
Test Stop : 04/16/2014 @ 13:10
Received: 04/17/2014 @ 10:03
Analyzed: 04/17/2014 @ 10:41

Canister ID# : 2314617
Canister Type : Charcoal Canister 3 inch
Location : Dining room
Radon Level : **0.4 pCi/L**
Error for Measurement is: ± 0.2 pCi/L

Test Start : 04/14/2014 @ 12:58
Test Stop : 04/16/2014 @ 13:10
Received: 04/17/2014 @ 10:03
Analyzed: 04/17/2014 @ 10:41

Canister ID# : 2314627
Canister Type : Charcoal Canister 3 inch
Location : Basement
Radon Level : **0.3 pCi/L**
Error for Measurement is: ± 0.2 pCi/L

Test Start : 04/14/2014 @ 13:00
Test Stop : 04/16/2014 @ 13:12
Received: 04/17/2014 @ 10:03
Analyzed: 04/17/2014 @ 10:41

Canister ID# : 2314685
Canister Type : Charcoal Canister 3 inch
Location : Basement - B
Radon Level : **0.2 pCi/L**
Error for Measurement is: ± 0.2 pCi/L

Test Start : 04/14/2014 @ 13:00
Test Stop : 04/16/2014 @ 13:12
Received: 04/17/2014 @ 10:03
Analyzed: 04/17/2014 @ 10:41

NRSB National Radon Safety Board Certified Radon Professionals

Andreas C. George
Radon Measurement Specialist
NJ MES 11089

Dante Galan
Laboratory Director

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

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

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

RTCA RADON TESTING CORPORATION OF AMERICA

Site Radon Inspection Report

Date : 4/17/2014

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

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

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

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

PLEDGE OF ASSURED QUALITY

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

National Radon Safety Board NRSB Certified Radon Professionals

Andreas C. George
Radon Measurement Specialist
NJ MES 11089

Dante Galan
Laboratory Director

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

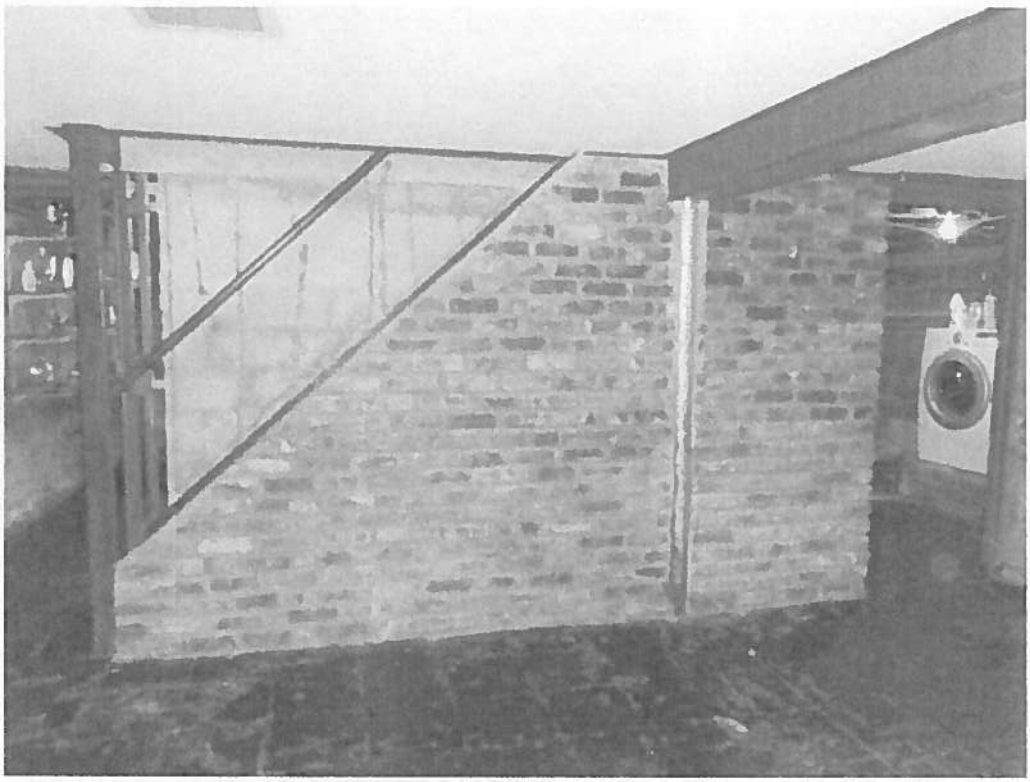
(914)345-3380
FAX (914)345-8546

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

FUSS & O'NEILL
EnviroScience, LLC

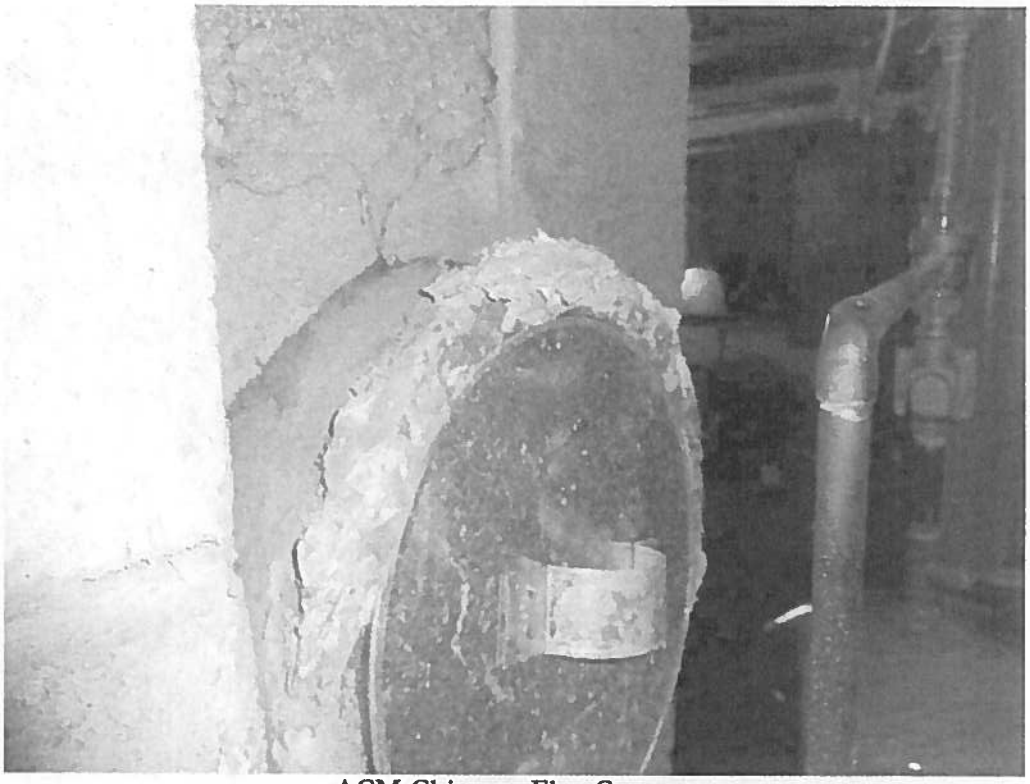
Appendix F

Site Photographs



Basement ACM Black Floor Mastic

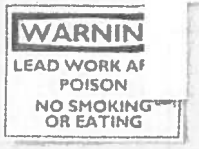
Basement ACM Black Floor Mastic



ACM Chimney Flue Cement

2nd Floor ACM Brown Self-Stick Floor Tile

THE LEAD-SAFE CERTIFIED GUIDE TO RENOVATE RIGHT



AUTION CAUTION CAUTION CAUTION CAUTION C CA

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

EPA

1-800-424-LEAD (5323)
www.epa.gov/getleadsafe
EPA-740-K-10-001
April 2010

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

EPA

EPA CERTIFIED FIRM

IT'S THE LAW!

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

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

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

WHO SHOULD READ THIS PAMPHLET?

This pamphlet is for you if you:

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

You will learn:

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

This pamphlet is not for:

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

RENOVATING, REPAIRING, OR PAINTING?

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

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

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

The Facts About Lead

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

LEAD AND YOUR HEALTH

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

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

- Reduced IQ and learning disabilities.
- Behavior problems.

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

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

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

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

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

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

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

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

WHERE DOES THE LEAD COME FROM?

Dust is the main problem.

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

Home renovation creates dust.

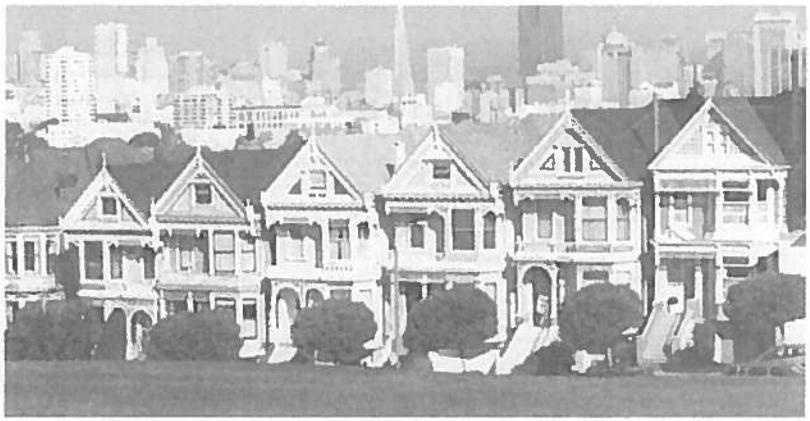
Common renovation activities like sanding, cutting, and demolition can create hazardous lead dust and chips.

Proper work practices protect you from the dust.

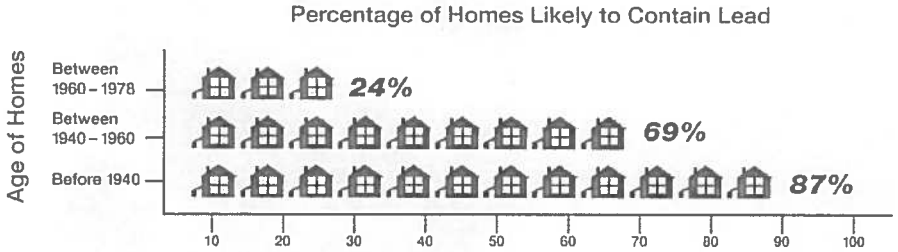
The key to protecting yourself and your family during a renovation, repair or painting job is to use lead-safe work practices such as containing dust inside the work area, using dust-minimizing work methods, and conducting a careful cleanup, as described in this pamphlet.

Other sources of lead.

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



CHECKING YOUR HOME FOR LEAD-BASED PAINT



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

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

You have the following options:

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

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

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

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

FOR PROPERTY OWNERS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

PREPARING FOR A RENOVATION

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

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

You may need:

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

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

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

DURING THE WORK

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

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

1. **Contain the work area.** The area must be contained so that dust and debris do not escape from that area. Warning signs must be put up and plastic or other impermeable material and tape must be used as appropriate to:
   - Cover the floors and any furniture that cannot be moved.
   - Seal off doors and heating and cooling system vents.

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

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

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

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

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

FOR PROPERTY OWNERS: AFTER THE WORK IS DONE

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

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

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

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

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

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

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

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

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

FOR ADDITIONAL INFORMATION

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

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

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

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

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

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

EPA CONTACTS

EPA Regional Offices

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

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

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

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

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

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

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

Region 6
(Arkansas, Louisiana, New Mexico, Oklahoma, Texas)
Regional Lead Contact
U.S. EPA Region 6
1445 Ross Avenue,
12th Floor
Dallas, TX 75202-2733
(214) 665-6444

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

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

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

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

OTHER FEDERAL AGENCIES

CPSC

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

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

CDC Childhood Lead Poisoning Prevention Branch

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

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

HUD Office of Healthy Homes and Lead Hazard Control

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

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

SAMPLE PRE-RENOVATION FORM

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

Occupant Confirmation

Pamphlet Receipt

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

_____

Printed Name of Owner-occupant

_____ _____

Signature of Owner-occupant Signature Date

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

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

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

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

_____ _____

Printed Name of Person Certifying Delivery Attempted Delivery Date

_____

Signature of Person Certifying Lead Pamphlet Delivery

_____

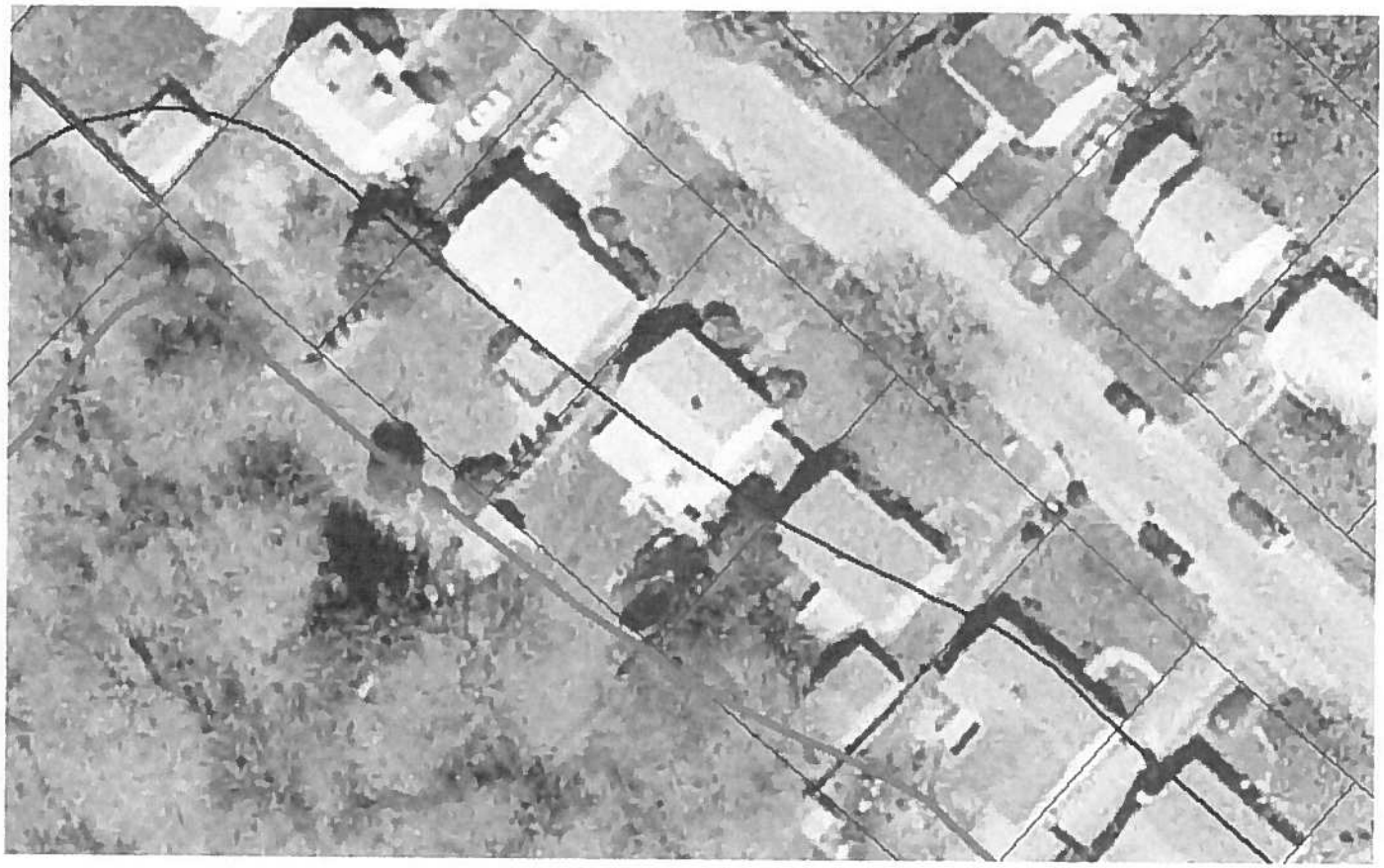
_____

_____

Unit Address

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

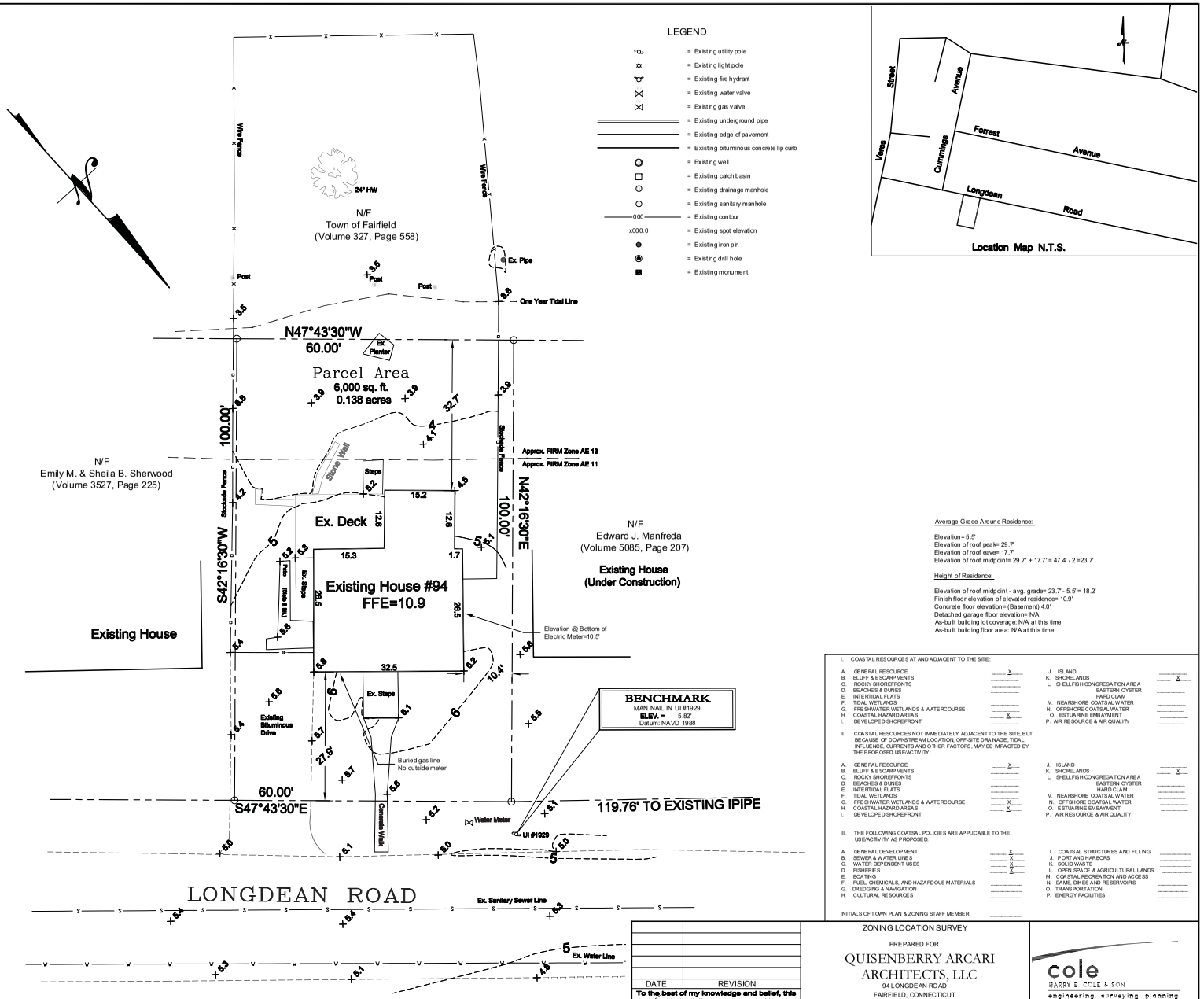
Property 1832650000 at 94 LONGDEAN ROAD



ZONING DATA

Zoning Information -- Zone "A" Residential

STATUS				
ITEM	REQUIRED	EXISTING CONDITION	PROPOSED	AS - BUILT CONDITION
MINIMUM LOT AREA	9,375 S.F.	6,000 S.F.		
MIN. SQUARE ON LOT	75'	50'		
MINIMUM LOT FRONTAGE	20'	50'		
DENSITY: MIN. LOT AREA PER DWELLING UNIT				
ONE FAMILY	9,375 S.F.	6,000 S.F.		
TWO FAMILY				
THREE FAMILY				
FOUR FAMILY				
EACH ADDITIONAL UNIT				
MINIMUM SETBACKS:				
FROM STREET LINE	30'	27.9'		
SIDE PROPERTY LINES (MORE THAN ONE STORY)	20'	10.4'		
	20'			
ONE SIDE PROPERTY LINE	30'			
REAR PROPERTY LINE	30'	32.7'		
ONE STREET LINE ON COR. (ONE STORY)	17'			
(MORE THAN ONE STORY)	22'			
MINIMUM FLOOR AREA:				
ONE STORY BUILDING	750 S.F.			
SPLIT LEVEL BUILDING	1,000 S.F.			
TWO OR MORE STORY BLDG TOTAL FLOOR AREA	1,000 S.F.	1,053 S.F.		
GROUND FLOOR AREA	650 S.F.			
FLOOR AREA PER APARTMENT	500 S.F.			
MAX. HEIGHT FOR BUILDING	32'	24.2'		
MAX. NO. STORIES FOR BUILDING	2-1/2			
MAX. BLDG LOT COVERAGE (% OF LOT AREA)	20%	23%		
MAX. BLDG FLOOR AREA (% OF LOT AREA)	40%			
MINIMUM FIRST FLOOR ELEVATION	FIRM BFE= 11'	FFE= 8.7		



SURVEY NOTES:

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

2. Type of survey performed: Zoning Location Survey

3. Boundary determination category: Dependent Resurvey

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

5. The intent of this map is to depict the position horizontally and where required vertically, between particular existing or proposed improvements with respect to the applicable municipal or statutory requirements.

6. Map References:

   a) Map of Property of Anne C. Sweeny, 94 Longdean Road, Fairfield, Connecticut, Scale: 1"=20', Dated: June 26, 2007, By Neal K. Jain L.S. #18139, Land Surveying Services LLC, 135 Fairfield Avenue, Fairfield, Connecticut
   b) Map of Fairfield Manor, Fairfield, Conn., Layout of Longdean Road and Cummings Ave. from Longdean easterly 150' adopted by Town Plan Commission, August 1, 1939, by Frank B. Jaynes

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

8. Zone: B

9. Total area: 6,000 S.F. / 0.138 Ac.

10. Anne C. Sweeney

11. Town of Fairfield Assessors Map #183 Lot #265

12. Filed in Volume 2119, Page 156 of the Town Clerk's office.

13. Contours are established from field topography.

14. Vertical Datum is NAVD 1988 and based on the CGS Mon LX 0935 .

15. There are no wetlands located on the property. There is Phragmites Marsh located approximately 250' to the Southwest corner of the property. There are no tidal wetlands located on the subject property.

16. The subject property is situated in Zone "AE", (Elevation 11.0') which is a "Special Flood Hazard Area" subject to inundation by 1% annual-chance flood event determined by FEMA. The 500 Year Flood Event elevation is 13.75'.(Firm Map 09001C Panel 419 Suffix "G", Revised date of July 8, 2013). The subject property is located in the Coastal Area Management (CAM).

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

Average Grade Around Residence:

Elevation = 5.5'
Elevation of roof peak= 29.7'
Elevation of roof eave= 17.7'
Elevation of roof midpoint= 29.7' + 17.7' = 47.4' / 2 =23.7'

Height of Residence:

Elevation of roof midpoint - avg. grade= 23.7' - 5.5' = 18.2'
Finish floor elevation of elevated residence= 10.9'
Concrete floor elevation= (Basement) 4.0'
Detached garage floor elevation= N/A
As-built building lot coverage: N/A at this time
As-built building floor area: N/A at this time

I. COASTAL RESOURCES AT AND ADJACENT TO THE SITE:			
A. GENERAL RESOURCE	X	J. ISLAND	
B. BLUFF & ESCARPMENTS		K. SHORELANDS	X
C. ROCKY SHOREFRONTS		L. SHELLFISH CONGREGATION AREA	
D. BEACHES & DUNES		EASTERN OYSTER	
E. INTERTIDAL FLATS		HARD CLAM	
F. TIDAL WETLANDS		M. NEARSHORE COASTAL WATER	
G. FRESHWATER WETLANDS & WATERCOURSE		N. OFFSHORE COASTAL WATER	
H. COASTAL HAZARD AREAS	X	O. ESTUARINE EMBAYMENT	
I. DEVELOPED SHOREFRONT		P. AIR RESOURCE & AIR QUALITY	
II. COASTAL RESOURCES NOT IMMEDIATELY ADJACENT TO THE SITE, BUT BECAUSE OF DOWNSTREAM LOCATION, OFF-SITE DRAINAGE, TIDAL INFLUENCE, CURRENTS AND OTHER FACTORS, MAY BE IMPACTED BY THE PROPOSED USE/ACTIVITY:			
A. GENERAL RESOURCE	X	J. ISLAND	
B. BLUFF & ESCARPMENTS		K. SHORELANDS	X
C. ROCKY SHOREFRONTS		L. SHELLFISH CONGREGATION AREA	
D. BEACHES & DUNES		EASTERN OYSTER	
E. INTERTIDAL FLATS		HARD CLAM	
F. TIDAL WETLANDS		M. NEARSHORE COASTAL WATER	
G. FRESHWATER WETLANDS & WATERCOURSE	X	N. OFFSHORE COASTAL WATER	
H. COASTAL HAZARD AREAS	X	O. ESTUARINE EMBAYMENT	
I. DEVELOPED SHOREFRONT		P. AIR RESOURCE & AIR QUALITY	
III. THE FOLLOWING COASTAL POLICIES ARE APPLICABLE TO THE USE/ACTIVITY AS PROPOSED:			
A. GENERAL DEVELOPMENT	X	I. COASTAL STRUCTURES AND FILLING	
B. SEWER & WATER LINES	X	J. PORT AND HARBORS	
C. WATER DEPENDENT USES	X	K. SOLID WASTE	
D. FISHERIES	X	L. OPEN SPACE & AGRICULTURAL LANDS	
E. BOATING		M. COASTAL RECREATION AND ACCESS	
F. FUEL, CHEMICALS, AND HAZARDOUS MATERIALS		N. DAMS, DIKES AND RESERVOIRS	
G. DREDGING & NAVIGATION		O. TRANSPORTATION	
H. CULTURAL RESOURCES		P. ENERGY FACILITIES	

INITIALS OF TOWN PLAN & ZONING STAFF MEMBER: _____

DATE	REVISION

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

#70145
Reg. No.
Stephen M. Giudice, L.S.
NOT VALID UNLESS EMBOSSED SEAL IS AFFIXED HERETO

ZONING LOCATION SURVEY

PREPARED FOR

QUISENBERRY ARCARI ARCHITECTS, LLC

94 LONGDEAN ROAD

FAIRFIELD, CONNECTICUT

AUGUST 15, 2014 SCALE: 1"=10'

PROJECT #: 1197 F.B. #: 477 DWG. #: D

cole
HARRY E. COLE & SON
engineering. surveying. planning.
876 South Main Street
P.O. Box 44
Plantsville, CT 06479 - 0044
Tel: (860) 628-4484
Fax: (860) 620-0196
www.harrycole.com