APPENDIX "A"

ENVIRONMENTAL REVIEW REPORT

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

Applicant # 1398

91 Longdean Road
Fairfield, Connecticut

January 8, 2018

Prepared for:

QuisenberryArcariMalik, LLC
195 Scott Swamp Road
Farmington, Connecticut

Prepared by:

Stephen Ball
294 White Deer Rocks Road
Woodbury, Connecticut

STATUTORY CHECKLIST [§58.35(a) activities]

for Categorical Exclusions and Environmental Assessments

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

Project Name and Identification/Location: Foley Residence / #1398
91 Longdean Ave. Fairfield, Connecicut

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
Document Laws and authorities listed at 24 CFR Sec. 58.5							
1. Historic Properties [58.5(a)] [Section 106 of NHPA]	☐	☒	☐	☐	☐	☐	Consulted with SHPO; Building built in 1958. SHPO determined the property located at 91 Longdean Road does not appear to be eligible for listing on the National Listing of Historic Places. No Historic properties will be affected. See attached SHPO letter dated10/20/17..
2. Floodplain Management [58.5(b)] [EO 11988] [24 CFR 55]	☐	☒	☒	☐	☐	☐	Located in Flood Zone AE based on FEMA – Map Number 09001C0419G Revised July 8, 2013. See attached FIRMLET.
3. Wetland Protection [58.5 (b)]	☒	☐	☐	☐	☐	☐	Anticipated impacts on wetlands minimal due to majority of activities limited to pre-storm building footprint. Consulted Town of Fairfield Inland Wetlands. No mapped wetlands. See attached survey prepared by Harry E. Cole & Sons dated 5/8/17.
4. Coastal Zone Management [58.5(c)] [CGS 22a-100(b)]	☐	☒	☒	☐	☐	☐	Site is located within the Coastal Boundary as mapped by DEEP.
5. Water Quality – Aquifers [58.5(d)] [40 CFR 149] Clean Water Act 1977 Safe Drinking Water Act 1974	☒	☐	☐	☐	☐	☐	Water Quality – N/A Project does not involving on-site water and sewer facilities nor is it in a sole source acquifer zone.
6. Endangered Species [58.5(e)] [16 U.S.C. 1531 et seq.] [CGS 26-310]	☒	☐	☐	☐	☐	☐	NOT LOCATED AT WATERFRONT PROPERTIES WITH SANDY BEACHES - consulted with Department of Interior Fish and Wildlife Database – No critical habitats within the project area. See attached Department of Interior Fish and Wildlife report dated February 20, 2017.
7. Wild and Scenic Rivers [58.5 (f)] [16 U.S.C. 1271 et seq.]	☒	☐	☐	☐	☐	☐	Eightmile River is only designated wild & scenic river within program area running through Lyme, Salem and East Haddam, CT (rivers.gov; November 2012)

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
8. Air Quality [58.5(g)] [42 U.S.C. 7401 et seq.]	☒	☐	☐	☐	☐	☐	Clean Air Act, State Implementation Plan, HUD & EPA Regulations; in general, residential rehabilitation exempted w/no quantifiable increase in air pollution.
9. Farmland Protection [58.5(h)]	☒	☐	☐	☐	☐	☐	Agricultural land use conversion not anticipated. Adverse effects to agricultural resources are not anticipated; clearly defined urban areas . Location not considered protected farmland
Manmade Hazards: 10 A. Thermal Explosive [58.5(i)]	☒	☐	☐	☐	☐	☐	N/A for projects that do not add density
10 B. Noise [58.5(i)]	☒	☐	☐	☐	☐	☐	Not applicable to project – restoration of structure substantially as it existed prior to Super Storm Sandy.
10 C. Airport Clear Zones [58.5 (i)]	☒	☐	☐	☐	☐	☐	Not applicable - Two (2) FAA designated Commercial Service airports in program area: Tweed New Haven Regional and Groton-New London. This property is not located in an Airport Clear Zone. Property does not involve the purchase or sale of an existing property in an airport zone.
10 D. Toxic Sites [58.5 (i)(2)(i)]	☒	☐	☐	☐	☐	☐	The site has no known toxic history based on the attached Toxix Site Certification. The site: 1) is not listed on EPA Superfund National Priorityies or CERCLA list. 2) is not located within 3,000ft of a toxic or solid waste landfill. 3) is not known to have an undergroud storage tank (which is not an undergroud storage fuel tank). 4) is not known or suspected to be contaminated by radioactive chemicals or radioactive materials.
11. Environmental Justice [58.5(j)]	☒	☐	☐	☐	☐	☐	Executive Order 12898 Program activities do not anticipate high & adverse human health and environmental effects on minority or low-income populations;
Document Laws and authorities listed at Sec. 58.6 and other potential environmental concerns							
12 A. Flood Insurance [58.6(a) & (b)]	☐	☒	☒	☐	☐	☐	Located in Zone AE – Map Number 09001C0419G Revised July 8, 2013. See attached FIRMLET Flood insurance required.
12 B. Coastal Barriers [58.6(c)]	☒	☐	☐	☐	☐	☐	Property is not located in a Coastal Barrier Resource Zone. See attach map.

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
12 C. Airport Clear Zone Notification [58.6(d)]	☒	☐	☐	☐	☐	☐	Not applicable - Two (2) FAA designated Commercial Service airports in program area: Tweed New Haven Regional and Groton-New London. This property is not located in an Airport Clear Zone. Property does not involve the purchase or sale of an existing property in an airport zone.
13. A Solid Waste Disposal [42 U.S.C. S3251 et seq.] and [42 U.S.C. 6901-6987 eq seq.]	☒	☐	☐	☐	☐	☐	Resource Conservation and Recovery Act and Solid Waste Disposal Act; Residential Exemption
13 B. Fish and Wildlife [U.S.C. 661-666c]	☒	☐	☐	☐	☐	☐	Fish and Wildlife Coordination Act: Program activities will not result in impounding, diverting, deepening, channelizing or modification of any stream or body of water; not a water control project.
13 C. Lead-Based Paint [24 CFR Part 35] and [40 CFR 745.80 Subpart E]	☒	☒	☐	☐	☐	☐	No Lead paint found - See attached Limited Hazardous Materials Inspection Report from Tighe & Bond dated May 18, 2017. Give tenant Notice about Lead.
13 D. Asbestos	☐	☒	☒	☒	☐	☐	Asbestos found – See attached Limited Hazardous Materials Inspection Report from Tighe & Bond dated May 18, 2017. Compliance will include measures to minimize risk of exposure and when necessary abate any hazardous materials.
13 E. Radon [50.3 (i) 1]	☒	☐	☐	☐	☐	☐	Radon concentration less than 4 picocuries per liter of air. See attached Limited Hazardous Materials Inspection Report from Tighe & Bond dated May 18, 2017. No action required.
13 F. Mold	☒	☐	☐	☐	☐	☐	No Mold Found - See attached Limited Hazardous Materials Inspection Report from Tighe & Bond dated May 18, 2017.
Other: State or Local 14 A. Flood Management Certification [CGS 25-68]	☐	☒	☒	☐	☐	☐	Property inside Flood Zone AE on FEMA map 09001C0419G Revised July 8, 2013. Certification through the General Permit for CDBG-DR activities with DEEP required. See appendix B Certification form and required documents. Property is in compliance with NHIP and is not substantially damaged.
14 B. Structures, Dredging & Fill Act [CGS 22a-359 through 22a-363f]	☒	☐	☐	☐	☐	☐	Not applicable – this project is not waterward of the Coastal Jurisdiction Line.
14 C. Tidal Wetlands Act [CGS 22a-28 through 22a-35]	☒	☐	☐	☐	☐	☐	Not located in Tidal wetland area.
14 D. Local inland wetlands/watercourses [CGS 22a-42]	☒	☐	☐	☐	☐	☐	Not located in wetlands - see attached survey prepared by Harry E. Cole & Sons dated 5/8/17.
14 E. Various Municipal Zoning Approvals	☐	☒	☐	☐	☐	☐	Approvals required by Planning/Zoning Commission or ZBA. If any work outside original building footprint.

DETERMINATION:

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

☒ This project cannot convert to Exempt because one or more statutes/authories requires consultation or litigation. Complete consultation/mitigation requirements, publish NOI/RROF and obtain Authority to Use Grant Funds (HUD 7015.16) per §58.70 and 58.71 before drawing down funds; OR

☐ The unusual circumstances of this project may reasult in a significant environmental impact. This project requires preparation of an Environmental Assessment (EA). Prepare the EA according to 24 CFR Part 58 Subpart E.

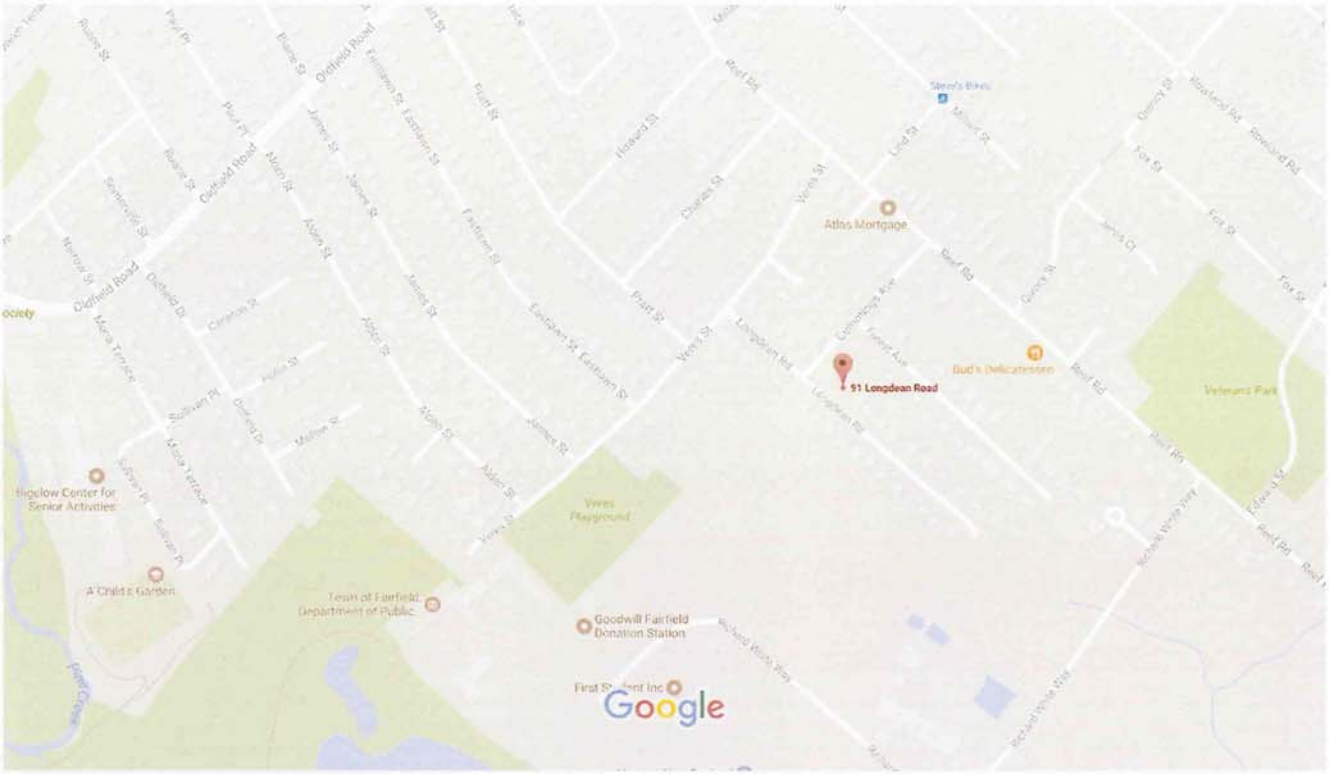
Prepared by:

Name: Stephen Ball — 10/24/17 Date

Responsible Entity or designee Signature:

Hermia Delaire, CDBG-DR Program Manager — 1/8/2018 Date

Google Maps 91 Longdean Rd



Map data ©2017 Google United States 200 ft

91 Longdean Rd
Fairfield, CT 06824

91 LONGDEAN ROAD

Location 91 LONGDEAN ROAD **Mblu** 183/ 207/ / /

Acct# 13014 **Owner** FOLEY MATTHEW K &

Assessment $299,040 **Appraisal** $427,200

PID 16712 **Building Count** 1

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2016	$111,900	$315,300	$427,200
Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2016	$78,330	$220,710	$299,040

Owner of Record

Owner FOLEY MATTHEW K &
Co-Owner JAIME L (SV)
Address 91 LONGDEAN ROAD
FAIRFIELD, CT 06824-6533

Sale Price $400,000
Certificate
Book & Page 4513/ 327
Sale Date 10/07/2010
Instrument 00

Ownership History

Ownership History					
Owner	**Sale Price**	**Certificate**	**Book & Page**	**Instrument**	**Sale Date**
FOLEY MATTHEW K &	$400,000		4513/ 327	00	10/07/2010
NORRIS LINDA 1/5 & ETAL	$0		4485/ 235	02	08/13/2010
NEVILLE RICHARD/EST & HELEN C	$0		4324/ 105	02	07/21/2009
NEVILLE RICHARD C & HELEN C	$0		413/ 59		08/31/1960

Building Information

Building 1 : Section 1

Year Built: 1958
Living Area: 1,416
Replacement Cost: $157,835
Building Percent Good: 70
Replacement Cost Less Depreciation: $110,500

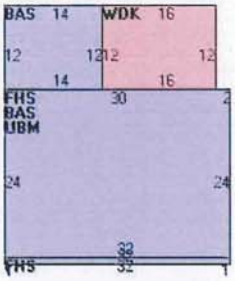
Building Attributes

Building Photo

Field	Description
Style	Cape
Stories:	1 1/2 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	Plastered
Interior Flr 1	Hardwood
Interior Flr 2	
Heat Fuel	Gas
Heat Type:	Forced Air-Duc
AC Type:	None
Total Bedrooms:	3 Bedrooms
Total Bthrms:	2
Total Half Baths:	0
Total Xtra Fixtrs:	
Total Rooms:	6 Rooms
Bath Style:	Average
Kitchen Style:	Average
FCPZ	

(http://images.vgsi.com/photos/FairfieldCTPhotos//\02\01\37/85.jpg)

Building Layout



Building Sub-Areas (sq ft)			
Code	Description	Gross Area	Living Area
BAS	First Floor	936	936
FHS	Half Story, Finished	800	480
UBM	Basement, Unfinished	768	0
WDK	Deck, Wood	192	0
		2,696	1,416

Extra Features

Extra Features
No Data for Extra Features

Land

Land Use

Use Code	1010
Description	Single Fam MDL-01
Zone	B
Neighborhood	0067
Alt Land Appr	No

Land Line Valuation

Size (Acres)	0.12
Depth	0
Assessed Value	$220,710
Appraised Value	$315,300

Category

Outbuildings

Outbuildings						Legend
Code	**Description**	**Sub Code**	**Sub Description**	**Size**	**Value**	**Bldg #**
SHD1	SHED FRAME			96 S.F.	$1,400	1

Valuation History

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2016	$111,900	$315,300	$427,200
2015	$111,900	$315,300	$427,200
2014	$98,700	$350,400	$449,100

Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2016	$78,330	$220,710	$299,040
2015	$78,330	$220,710	$299,040
2014	$69,090	$245,280	$314,370

QUISENBERRY ARCARI
ARCHITECTS LLC

Residence Rehabilitation
91 Longdean Road
Fairfield, CT

Projected Scope & Magnitude of Cost — January 30, 2017

Scope of Work — ***Magnitude of Cost***

Relocate lower level Mechanical, electrical, Utility/Laundry spaces to main level (accessibility)

The existing first floor of the home is above the existing flood plain. — *$ 135,000.00*

Provide new approximate 10' x 15' addition at the second level to accommodate the relocation of mechanical/utility space from the basement (within the flood zone) to a level (above the flood plain). Relocate existing bathroom if necessary. Measures are to be taken to maintain the existing access to the crawlspace. Relocate existing laundry, electrical service, hot water heater, and all mechanical equipment to the main level and/or second story. Repipe as required. Abate all asbestos contaminated ductwork within basement and main/second story. Remove abandoned vents; patch and repaint as required. Cut hydrostatic relief zones into existing floor slab, install filter fabric and fill with gravel to a level that meets FEMA/NFPI requirements. Install flood vents in accordance with FEMA/NFPI requirements. Patch and repair all areas impacted by construction with matching materials (ex: concrete, roofing, siding).

Miscellaneous Corresponding Improvements

Provide miscellaneous support work required to accommodate the above mentioned improvements — *$ 15,000.00*

Total Projected Magnitude of Cost — $ 150,000.00

Construction estimates are based on a 2017 construction start.
There is no allowance for cost escalation to future years

Clarifications:

This approach will be more cost effective than raising the entire home above the flood zone elevation, providing new foundations and three floors of exterior envelope.

Note:

This project will require updated survey, municipal / zoning approval, wetlands approval, hazardous materials assessment and potential abatement/remediation.

Statement:

Please be advised it is our team's professional assessment that the above mentioned work is required for the execution of repairs corresponding to the storm event and for the provision of a code complaint residence and the prevention of similar damage caused by future storm conditions.

This assessment was prepared by Mr. Jeff Jahnke, AIA.
If you have any questions, concerns, or require additional clarification regarding this matter, please do not hesitate to call me or email me at jjahnke@qa-architects.com

Photo Documentation

318 Main Street
Farmington, CT 06032

860 677.4594
860 677.8534 Fax

318 Main Street
Farmington, CT 06032

860 677.4594
860 677.8534 Fax

318 Main Street
Farmington, CT 06032

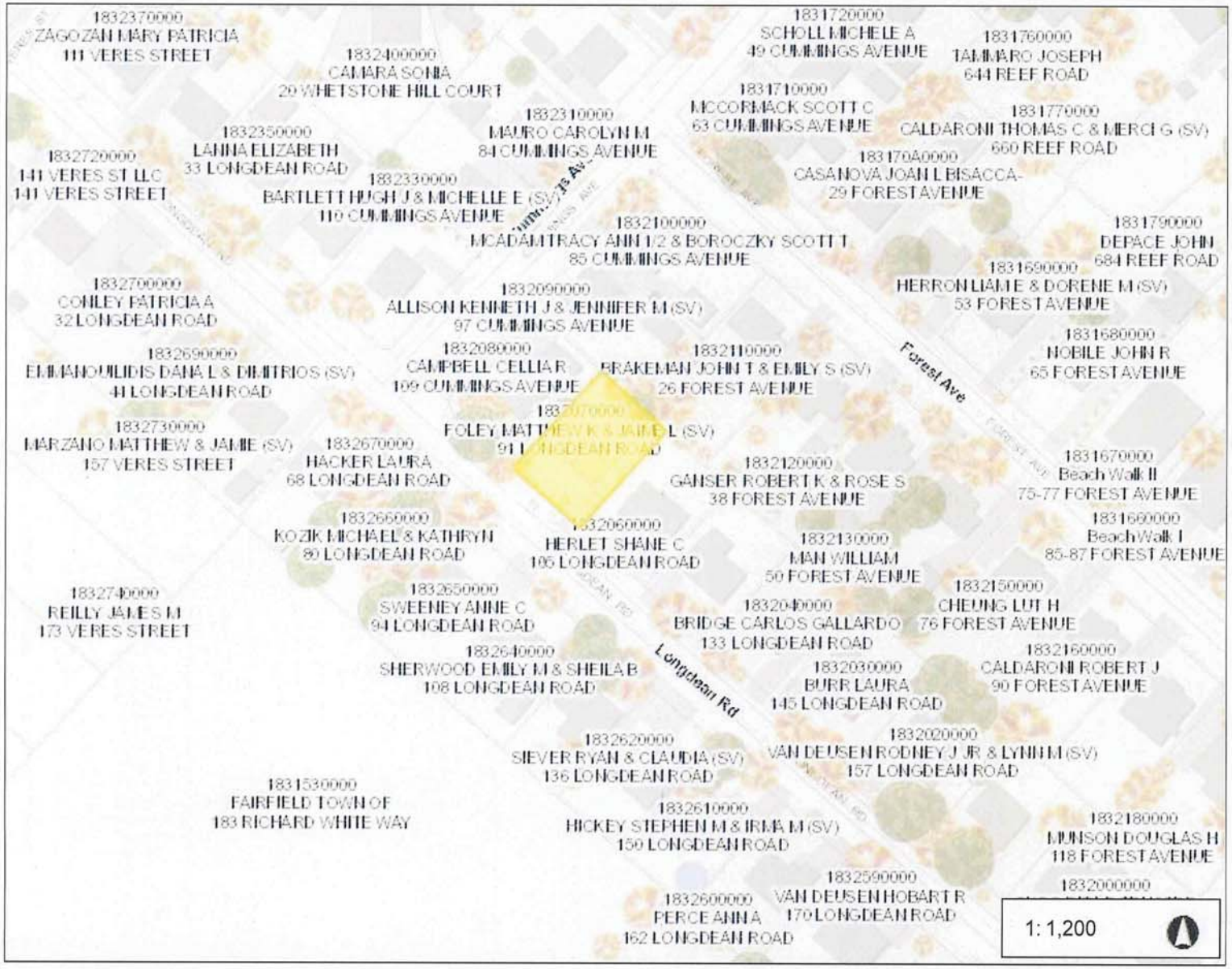
860 677.4594
860 677.8534 Fax

318 Main Street
Farmington, CT 06032

860 677.4594
860 677.8534 Fax

Town of Fairfield

91 Longdean Road



Legend

- Parcels
- Streetname
- Roadways
  - Local
  - Collector
  - Minor Collector
  - Minor Arterial
  - Major Collector
  - PA Other
  - PA Other Expwy
  - PA Interstate

200.0 0 100.00 200.0 Feet

WGS_1984_Web_Mercator_Auxiliary_Sphere
Created by Greater Bridgeport Regional Council

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.
THIS MAP IS NOT TO BE USED FOR NAVIGATION

METROCOG

1398
EE

Department of Economic and Community Development

Connecticut
still revolutionary

October 20, 2017

received
10-24-17

Ms. Erma Esangbedo
CDBG - Sandy Disaster Recovery Program
Department of Housing
505 Hudson Street
Hartford, CT 06106

Subject: 91 Longdean Road
Fairfield, CT

Dear Ms. Esangbedo:

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

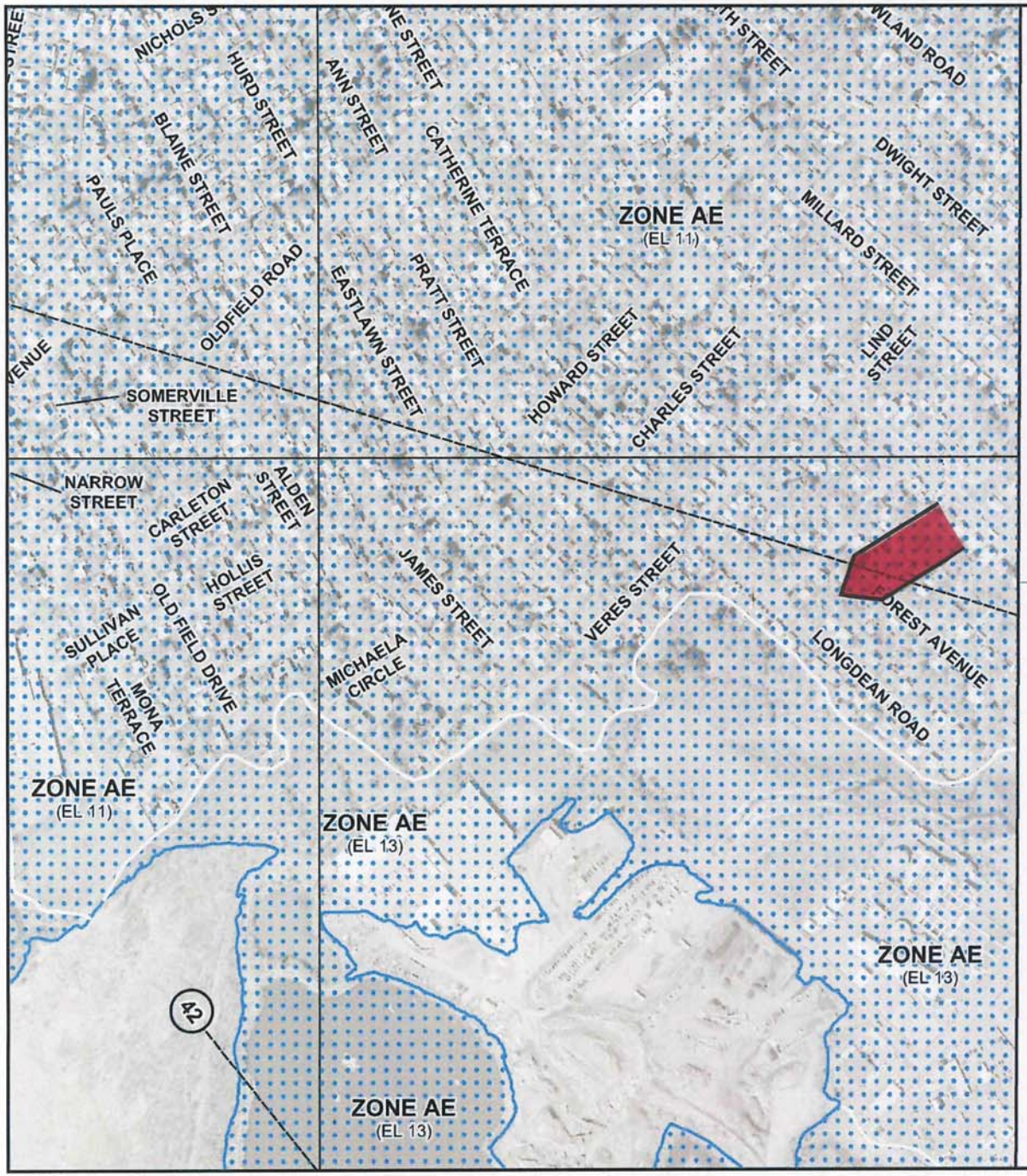
It is our opinion that the property located at 1 Longdean Road does not appear to be eligible for listing on the National Register of Historic Places. Based on the information provided to this office, no historic properties will be affected.

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

Sincerely,

Mary B. Dunne

Mary B. Dunne
Deputy State Historic Preservation Officer



MAP SCALE 1" = 500'

250 0 500 1000

FEET

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


Wh/StW/Aq
WELCH TERR
PAUL PL
HOWARD ST
PRATT ST
EAST LAWN ST
CHARLES ST
MILLARD ST
ROWLAND RD
LALLEY BLVD
REEF RD
LIND ST
REEF CT
WHETSTONE HL
CUMMINGS AVE
JARVIS CT
FOX ST
EDWARD ST
Aq
Aq
PENFIELD PL
GOULD AVE
SOMERVILLE ST
NARROW ST
CARLTON ST
HOLLIS ST
JAMES ST
ALDEN ST
VERES ST
SANDY WAY
FOREST AVE
LONGDEAN RD
MOANA TERR
MELLOW ST
MICHAELA CIR
Wh/StW/Aq
Wh/StW/Aq
Wh/StW/Aq
We/StW/Aq
MEADOW RD
Aq
FAIRFIELD BEACH RD
LIGHTHOUSE PT
We/Aq
We/Aq
We/StW
W/Aq/Wd

COASTAL BOUNDARY
FAIRFIELD, CONNECTICUT

LEGEND

Coastal Boundary

EXPLANATION

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

Any regulated activity conducted within the coastal boundary by a municipal agency (i.e., plans of development, zoning regulations, municipal coastal programs and coastal site plan review i.e., site plans submitted to zoning commission, subdivision or resubdivision plans submitted to planning commissions, application for special permit or exception to the zoning or planning commission 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 most wetland maps were the layer 1:24,000 maps (mylar format) adopted by the Commissioner of DEP and staff; some 1:24,000 mylar-scale maps by the Office of Policy and Management (OPM) using an accurate pantograph. OPM similarly corrected 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 Tidewaters and Freshwaters in Connecticut, December 1979 prepared by the State of Connecticut, Department of Environmental Protection, Coastal Area Management Program.

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

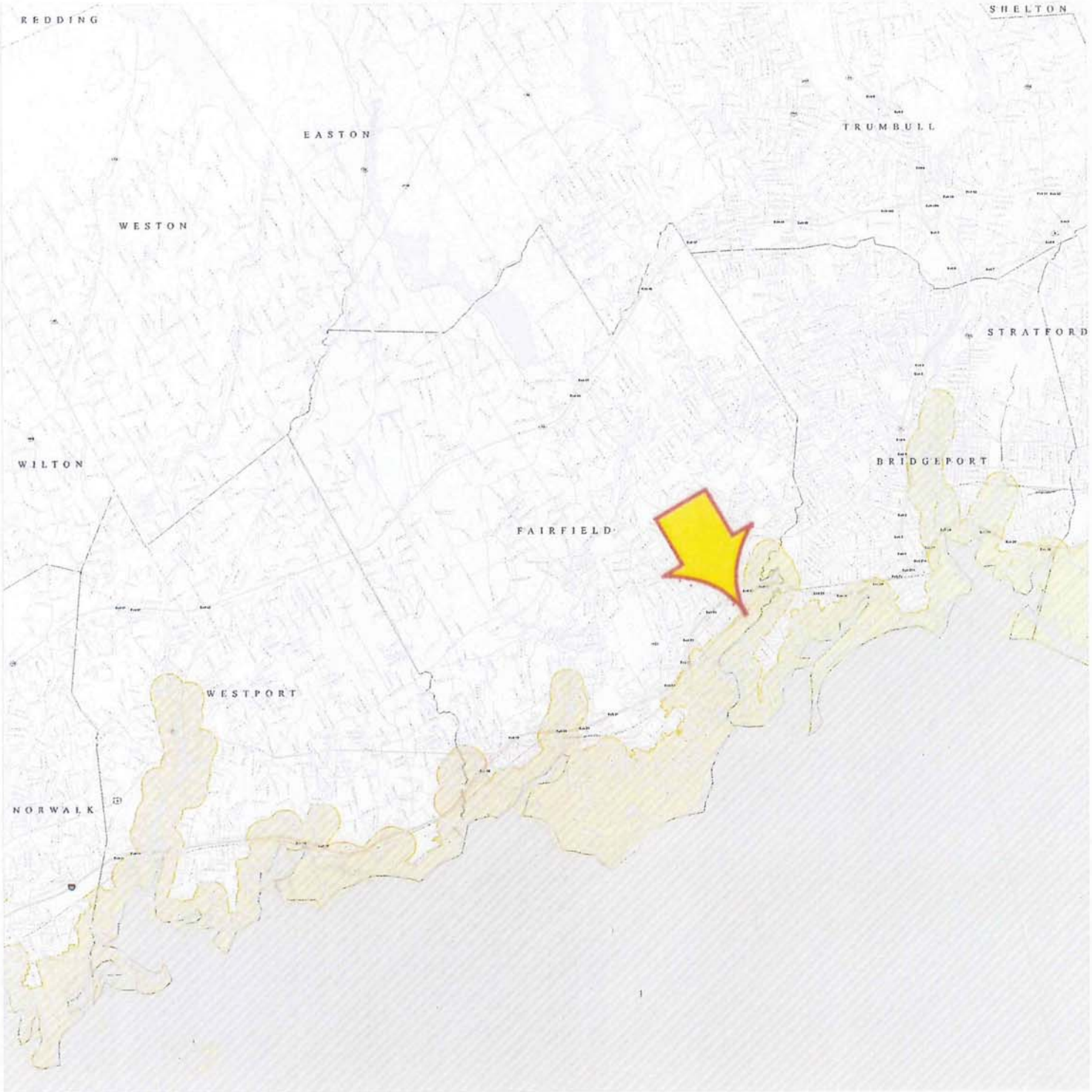
RELATED INFORMATION

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

MAPS AND DIGITAL DATA - Go to the CT ECO website for this map and a variety of others. Go to the DEEP 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 DEEP
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 03301
PHONE: (603)223-2541 FAX: (603)223-0104
URL: www.fws.gov/newengland

Consultation Code: 05E1NE00-2017-SLI-0872 February 20, 2017
Event Code: 05E1NE00-2017-E-01554
Project Name: Foley - 91 Longdean Road

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: Foley - 91 Longdean Road

Official Species List

Provided by:

New England Ecological Services Field Office
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 03301
(603) 223-2541
http://www.fws.gov/newengland

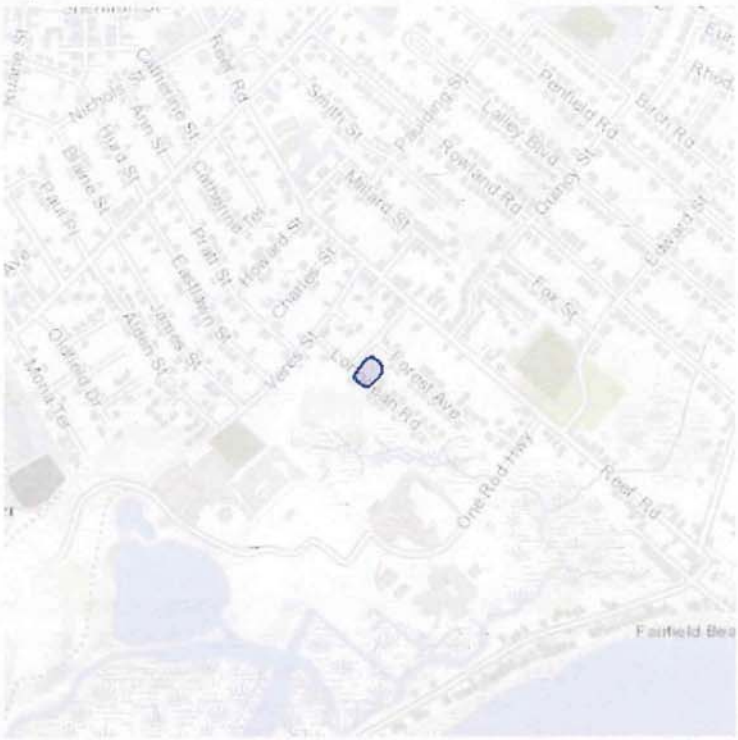
Consultation Code: 05E1NE00-2017-SLI-0872
Event Code: 05E1NE00-2017-E-01554

Project Type: Federal Grant / Loan Related

Project Name: Foley - 91 Longdean Road
Project Description: Relocating the mechanicals out of the basement and the filling it in / installing flood vents

Please Note: The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.

Project Location Map:



Project Coordinates: MULTIPOLYGON (((-73.25238768723385 41.13248899994844, -73.25245837516022 41.132489460308555, -73.25266385184993 41.13259426150621, -73.25270906378005 41.132657844960875, -73.25271229580099 41.132735797051104, -73.25240428164669 41.13305139005033, -73.2522855642649 41.133085550340404, -73.25204059130557 41.13294009046885, -73.25199786256567 41.132822932449194, -73.25204630709885 41.13273416806414, -73.25230379916428 41.13252002613447, -73.25238768723385 41.13248899994844)))

Project Counties: Fairfield, CT

United States Department of Interior
Fish and Wildlife Service

Project name: Foley - 91 Longdean Road

Endangered Species Act Species List

There are a total of 2 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.

Birds	Status	Has Critical Habitat	Condition(s)
Red Knot *(Calidris canutus rufa)* Population: Wherever found	Threatened		
Mammals			
Northern long-eared Bat *(Myotis septentrionalis)* Population: Wherever found	Threatened		

Critical habitats that lie within your project area

There are no critical habitats within your project area.

Quisenberry Arcari Architects LLC

Residence Rehabilitation
91 Longdean Road
Fairfield, CT

Projected Scope & Magnitude of Cost — January 30, 2017

Scope of Work — ***Magnitude of Cost***

Relocate lower level Mechanical, electrical, Utility/Laundry spaces to main level (accessibility)

The existing first floor of the home is above the existing flood plain. — *$ 135,000.00*

Provide new approximate 10' x 15' addition at the second level to accommodate the relocation of mechanical/utility space from the basement (within the flood zone) to a level (above the flood plain). Relocate existing bathroom if necessary. Measures are to be taken to maintain the existing access to the crawlspace. Relocate existing laundry, electrical service, hot water heater, and all mechanical equipment to the main level and/or second story. Repipe as required. Abate all asbestos contaminated ductwork within basement and main/second story. Remove abandoned vents; patch and repaint as required. Cut hydrostatic relief zones into existing floor slab, install filter fabric and fill with gravel to a level that meets FEMA/NFPI requirements. Install flood vents in accordance with FEMA/NFPI requirements. Patch and repair all areas impacted by construction with matching materials (ex: concrete, roofing, siding).

Miscellaneous Corresponding Improvements

Provide miscellaneous support work required to accommodate the above mentioned improvements — *$ 15,000.00*

Total Projected Magnitude of Cost — $ 150,000.00

Construction estimates are based on a 2017 construction start.
There is no allowance for cost escalation to future years

Clarifications:

This approach will be more cost effective than raising the entire home above the flood zone elevation, providing new foundations and three floors of exterior envelope.

Note:

This project will require updated survey, municipal / zoning approval, wetlands approval, hazardous materials assessment and potential abatement/remediation.

Statement:

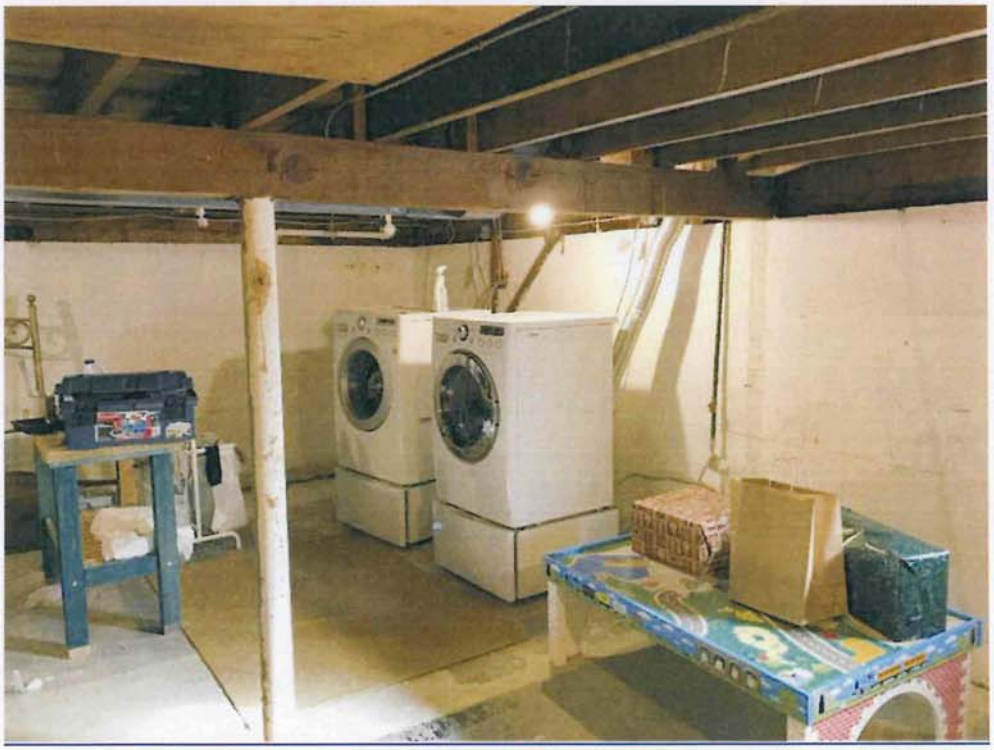
Please be advised it is our team's professional assessment that the above mentioned work is required for the execution of repairs corresponding to the storm event and for the provision of a code complaint residence and the prevention of similar damage caused by future storm conditions.

This assessment was prepared by Mr. Jeff Jahnke, AIA.
If you have any questions, concerns, or require additional clarification regarding this matter, please do not hesitate to call me or email me at jjahnke@qa-architects.com

Photo Documentation

318 Main Street
Farmington, CT 06032

860 677.4594
860 677.8534 Fax



318 Main Street
Farmington, CT 06032

860 677.4594
860 677.8534 Fax

318 Main Street
Farmington, CT 06032

860 677.4594
860 677.8534 Fax

318 Main Street
Farmington, CT 06032

860 677.4594
860 677.8534 Fax

Tighe&Bond
Engineers | Environmental Specialists

12-5015-001
June 27, 2017

Mr. Jeff Jahnke
Senior Project Manager
Quisenberry Arcari Architects, LLC
318 Main Street
Farmington, CT 06032

Re: **Hazardous Building Materials Assessment**
91 Longdean Road, Fairfield, Connecticut

Dear Mr. Jahnke:

In accordance with our agreement dated May 18, 2017, and revised May 25, 2017, with Quisenberry Arcari Architects, LLC (the "Client"), Tighe & Bond, Inc. (Tighe & Bond) has completed a Hazardous Materials Building Materials Assessment (HBMA) at 91 Longdean Road in Fairfield, Connecticut (the "site").

Assessment Summary

The HBMA was conducted in response to the proposed renovation project at the site being conducted through the State of Connecticut Department of Housing (CTDOH) Owner Occupied Rehabilitation and Rebuilding Program. The HBMA was performed in accordance with CTDOH environmental requirements.

The site is a residential structure reportedly constructed in 1958 and consists of approximately 1,416 square feet (SF) of floor space. The Client provided construction drawings indicating the proposed renovation project included an expansion of the 2nd and 3rd floor as well as basement renovations.

The HMBA included the following:

- Asbestos-Containing Materials (ACM) sampling;
- Lead-based paint (LBP) determination;
- Airborne radon gas sampling;
- PCB-containing light ballasts assessment;
- Mercury-containing devices assessment; and
- Mold-contaminated building materials assessment.

Field work was conducted by Tighe & Bond representative, Mr. Philip Hutter, a State of Connecticut-licensed Asbestos Consultant – Inspector and Certified Lead-Paint Inspector/Risk Assessor. See Appendix A for State Licenses/Certifications and United States Environmental Protection Agency (EPA) Accreditations.

The sections below provide a description of field activities conducted by Tighe & Bond, as well as findings and summary and recommendations.

Sampling Protocols

Suspect Asbestos-Containing Material Sampling

In accordance with EPA National Emissions Standard for Hazardous Air Pollutants (NESHAP) regulations (Title 40 CFR, Part 61, Subpart M) for a thorough inspection prior to building renovation, sampling of visible and accessible suspect asbestos-containing materials (ACM) anticipated to be impacted by the proposed renovation were conducted.

The sampling conducted at the site did not include selective exploratory demolition to access and observe concealed areas suspected to contain suspect ACM. Selective exploratory demolition was not performed due to destructive sampling methods required. Typical inaccessible locations not inspected during the HBMA include the following:

- Void spaces within walls;
- Void spaces above fixed ceilings;
- Areas below ceramic tile;
- Areas below hardwood flooring;
- Areas behind exterior wood siding;
- Subsurface suspect cementitious pipe,
- Subsurface foundation dampproofing, and;
- Under slab vapor barrier and/or dampproofing.

The EPA recommends collecting suspect ACM samples in a manner sufficient to determine asbestos content and to segregate each suspect type of homogenous (similar in color, texture, and date of application) material. The EPA NESHAP regulation does not specifically identify a minimum number of samples to be collected for each homogeneous material, but the NESHAP regulation does recommend the use of sampling protocols outlined in the EPA Asbestos Hazard Emergency Response Act (AHERA) (Title 40 CFR, Part 763, Subpart E). Up to seven samples were collected of each suspect homogeneous material observed during the supplemental inspection in accordance with EPA requirements for asbestos identification.

Materials sampled were logged on proper chain-of-custody forms for transmission of the bulk samples to EMSL Analytical Inc. (EMSL), of Wallingford, Connecticut, for analysis. EMSL is a Connecticut-licensed and American Industrial Hygiene Association (AIHA)-accredited asbestos laboratory. Initial asbestos sample analysis was conducted using the EPA Interim Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116) via Polarized Light Microscopy with Dispersion Staining (PLM/DS) in accordance with the accreditation of the National Institute of Standards and Technology (NIST). Additionally, in accordance with EPA guidance documents, non-friable organically bound materials (NOB) (e.g., asphaltic-based materials, adhesives, etc.) were further analyzed by Transmission Electron Microscopy (TEM) to confirm PLM analysis.

The EPA, the Occupational Safety and Health Administration (OSHA), and the State of Connecticut Department of Public Health (CTDPH) define a material that contains >1% asbestos, utilizing PLM/DS, as being an ACM. Materials that are identified as "none detected" are specified as not containing asbestos. Materials containing <1% asbestos are regulated by OSHA related to work practices, worker exposure, and waste containerization.

During the asbestos portion of the HBMA, the sample locations, types of material, and quantities were recorded. Additionally, homogenous materials were noted when observed.

Lead-Based Paint Determination

Tighe & Bond conducted comprehensive testing of surfaces at the site. The testing was conducted as required for compliance with the following regulations:

- EPA's Renovation, Repair, and Painting Rule (RRP; Title 40 CFR, Parts 745.80 through 92);
- United States Department of Housing and Urban Development (HUD) Lead-Safe Housing Rule (Title 24 CFR, Part 35, Subparts B-R); and
- CTDPH Lead Poisoning Prevention and Control regulations (19a-111-1 through 19a-111-11).

A direct reading X-ray fluorescence (XRF) analyzer, Olympus Innov-X Delta Model (Serial Number 500788), was used to perform the testing in accordance with generally accepted industry practices and procedures. Calibration of the instrument was checked prior to use, as detailed by the manufacturer and the Performance Characteristic Sheet (PCS) developed for the instruments.

For the purpose of this testing, representative interior and exterior building components were systematically evaluated on a room-by-room basis in accordance with EPA, HUD, and CTDPH requirements. As required, each interior wall surface per room was evaluated.

The building is a two-story structure, with interior construction consisting primarily of wood flooring, plaster and gypsum board walls and ceilings, with wood doors and wood/vinyl replacement window systems. The exterior is vinyl siding over wood shingle siding, with asphalt roof shingles and concrete foundation. The building was occupied at the time of the testing and occupied by two children under the age of six.

Airborne Radon Gas Sampling

Passive radon collection was conducted within the residential structure. The canisters were retrieved at least 48-hours, but not later than 96-hours after the initiation of the sampling. Radon Testing Corporation of America (RTCA) of Elmsford, New York, supplied the canisters.

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. To the best of Tighe & Bond's knowledge, canisters were not exposed to direct sunlight, covered, or otherwise disturbed during the sampling period.

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

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 analysis in a

duplicate pairing is above the EPA recommended action level of 4.0 pCi/L the relative percent difference (RPD) between the two tests must be determined. If the allowable difference is exceeded, the test is determined to be invalid and a new duplicate test must be conducted. If both canister results are below the EPA standard, then the RPD is not calculated since, despite any disparity, both results are below the EPA standard.

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

Sample analysis was performed by Radon Testing Corporation of America (RTCA) of Elmsford, NY.

Polychlorinated Biphenyl-Containing Fluorescent Light Ballasts Assessment

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 EPA 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.

A visual inspection of representative fluorescent light fixtures to identify possible PCB-containing ballasts was conducted at the site. The inspection involved visually inspecting labels on representative light ballasts to identify dates of manufacture and labels indicating "No PCB's".

Ballasts without a label indicating "No PCBs" are presumed to be PCB waste, and must be segregated for proper removal, packaging, transport and disposal as PCB waste. Ballasts with date labels indicating manufacture prior to 1991 that indicate "No PCB's" are presumed to contain DEHP and must be segregated for proper removal, packaging, transport, and disposal as non-PCB hazardous waste. The disposal requirements are slightly varied, and costs are slightly less for DEHP than for PCB-containing light ballasts.

Ballasts with labels indicating manufacturing dates after 1991, were not quantified for disposal, as ballasts manufactured after 1991, do not contain PCB and/or DEHP.

Mercury-Containing Devices Assessment

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

A visual in-place inventory of mercury lamps/tubes, thermostats, and mercury switches was performed at the site.

Mold-Contaminated Building Materials Assessment

A visual assessment for the presence of suspect mold growth and/or water intrusion within the residential structure was conducted by Tighe & Bond.

Findings

Asbestos-Containing Material Sampling Results

During the sampling conducted, samples of suspect ACM anticipated to be impacted by the proposed renovation project were collected. Materials observed to be homogeneous within several rooms (i.e. gypsum wallboard, floor tile, concrete, etc.) were sampled as sets in accordance with EPA regulations and analyzed by PLM based on the "stop on first positive" request to the laboratory. NOB materials determined to be negative by PLM analysis were analyzed by the NOB TEM method to confirm PLM analysis.

In accordance with EPA sampling protocols, the following materials were determined to be ACM:

- Black Chimney Flue Cement;
- Black Duct Penetration Sealant;
- Gray Soft Door Frame Caulking
- Beige 12" x 12" Floor Tile; and
- Gray Cloth Duct Wrap.

Refer to Table 1 (Appendix B) for a summary of ACM and Table 2 for a summary of sampled materials found to be non-ACM. The laboratory analytical report and chain-of-custody forms for asbestos sampling conducted by Tighe & Bond are in Appendix C. A photographic log of certain ACM is provided in Appendix D.

Lead-Based Paint Determination Results

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

Refer to Table 3 for a summary of LBP XRF results. A copy of the required CTDPH Lead Inspection and Testing Summary Form submitted to CTDPH is provided in Appendix E.

Airborne Radon Gas Sampling Results

Utilizing the afore-mentioned sampling protocol and criteria of 4.0 pCi/L, elevated concentrations of airborne radon gas were not identified in the locations tested.

Refer to the attached Table 4 for a summary of airborne radon gas sampling locations, canister numbers, and airborne radon gas concentrations. The laboratory analytical report and chain-of-custody forms for airborne radon sampling conducted by Tighe & Bond are provided in Appendix F.

PCB/DEHP-Containing Light Ballast and Mercury-Containing Devices

No light ballasts suspected of containing PCBs and/or DEHP were observed during the HBMA. A total of four compact fluorescent light (CFL) bulbs were identified during the HBMA.

Mold-Contaminated Building Materials Assessment Results

Suspect mold growth and/or water intrusion were not identified within areas of the site assessed.

Summary and Recommendations

Asbestos-Containing Material

ACM was identified at the site building. Interior ACM must be abated by a CTDPH-licensed Asbestos Abatement Contractor prior to building demolition in accordance with the CTDPH Standards for Asbestos Abatement (19a-332-1 through 19a-332-16).

The asbestos-containing duct wrap observed within the second-floor crawlspace was significantly damaged. A CTDPH-Licensed-Asbestos Abatement Contractor should be retained to clean up/abate the ACM in accordance with CTDPH Standards for Asbestos Abatement (19a-332-1 through 19a-332-16) prior to renovation work in the area. This is recommended to be conducted regardless if renovation work in the area is anticipated to disturb the ACM.

Note this asbestos inspection was limited to visible and accessible materials only. Tighe & Bond recommends conducting a supplemental inspection of hidden and inaccessible areas (behind walls/beneath fixed floors, etc.) prior to the renovation activities once construction documents are finalized and scope of selective demolition to access inaccessible can be clearly identified.

Tighe & Bond recommends that a comprehensive scope of work and technical specification for asbestos abatement be developed as part of demolition plans for the site.

Suspect materials encountered during renovation that are not identified in this report as being non-ACM should be presumed to be ACM until sample collection and laboratory analysis indicate otherwise.

Lead-Based Paint

LBP testing indicated consistent painting trends throughout the building interior and exterior. LBP was not identified during the HBMA. Since LBP was not identified at the site, lead in soil, lead in dust, and lead in water sampling and analysis was not conducted, nor required per HUD and CTDPH regulations.

This assessment was performed as a comprehensive assessment 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.

Contractors must be made aware that OSHA has not established a level of lead in a material below which Title 29 CFR, Part 1926.62 does not apply. Contractors shall comply with exposure assessment criteria, interim worker protection, and other requirements of the regulation as necessary to protect workers during demolition work that will impact lead paint.

Airborne Radon Gas

During the initial airborne radon gas sampling, four sampling canisters, including one duplicate and one blank, were placed in targeted locations within the residential structure. The analytical results of the samples were below EPA recommended action level of 4.0 pCi/L. No further action regarding radon gas is required at this time.

Tighe & Bond recommends airborne radon gas sampling be conducted following completion of renovation activities at the site if proposed renovations alter the building envelope, slab, and/or HVAC system. Alteration of building envelopes, slabs, and/or HVAC systems can have an impact on airborne radon gas concentrations.

PCB/DEHP-Containing Light Ballast and Mercury-Containing Devices

PCB and/or DEHP-containing light ballasts were not identified at the site. No further action regarding light ballasts is required at the site.

Mercury-containing bulbs were identified at the site. Prior to renovation activities, the bulbs should be properly removed, packaged, and disposed as Universal Waste, if renovation work is anticipated to disturb the bulbs.

Tighe & Bond recommends that a comprehensive scope of work and technical specification for removal and disposal of the above-mentioned items be developed as part of renovation plans for the site.

Mold-Contaminated Building Materials

Suspect mold growth and/or water intrusion were not identified within areas of the site assessed.

If suspect mold growth is encountered during construction activities, the building materials to remain in areas of visible suspect mold growth should be cleaned and have a mold inhibitor directly applied to the affected areas, if possible. Prior to disturbance, visible suspect mold growth remediation and water-damaged building materials removal should be performed within a negative pressure enclosure, using properly trained and protected workers. Removal should comply with EPA and the Institute of Inspection, Cleaning and Restoration Certification (IICRC) guidance.

Limitations

This report is not intended to be utilized as a bidding document or as a project specification document. The report is designed to the building owner, architect, construction manager, general contractor, demolition contractor, and abatement contractor in locating identified hazardous building materials at the site.

If you have any questions regarding this letter report please contact us.

Very truly yours,

TIGHE & BOND, INC.

Kevin J. McCarthy
Project Manager
(860) 704-4785
kmccarthy@tighebond.com

James T. Olsen, LEP
Vice President
(860) 704-4761
jtolsen@tighebond.com

Enclosures:
- Appendix A — CTDPH Licenses and EPA Accreditations
- Appendix B — Table 1. Summary of Asbestos-Containing Materials
  - Table 2. Summary of Non-Asbestos Containing Materials
  - Table 3. Summary of Lead-Based Paint XRF Results
  - Table 4. Summary of Airborne Radon Gas Results
- Appendix C — Asbestos Laboratory Analytical Reports and Chain-of-Custody Forms

Appendix D	Photographic Log
Appendix E	CTDPH Lead Inspection and Testing Summary Form
Appendix F	Airborne Radon Gas Laboratory Analytical Reports and Chain-of-Custody Forms

Tighe&Bond

APPENDIX A


WALLET CARD
STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
NAME
PHILIP C HUTTER
VALIDATION NO
03-579501
CERTIFICATE NO
000916
CURRENT THROUGH
03/31/18
PROFESSION
ASBESTOS CONSULTANT-INSPECTOR
SIGNATURE
COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

Phillip Hutter

has successfully completed the

4 Hour Asbestos Site Inspector Refresher Training
Asbestos Accreditation Under TSCA Title II
40 CFR Part 763

conducted by

ATC Group Services, LLC
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Gregory Morsch

Principal Instructor: Gregory Morsch

December 15, 2016
Date of Course

December 15, 2017
Expiration Date

Gregory Morsch

Regional Training Manager: Gregory Morsch

SIAR - 5610
Certificate Number

December 15, 2016
Examination Date

WALLET CARD
STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
PHILIP C HUTTER

VALIDATION NO
03-579502

CERTIFICATE NO
002264

CURRENT THROUGH
03/31/18

PROFESSION
LEAD INSPECTOR RISK ASSESSOR

SIGNATURE

COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

Philip Hutter

3 William Street, Middlefield, CT 06455

has successfully completed the

EPA Model Lead Risk Assessor Refresher Training

745.225 (c) (8) (i)

conducted by
ATC Group Services LLC
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Neal B. Freuden

Principal Instructor: Neal Freuden

December 9, 2016

Date of Course

December 9, 2016

Exam Date

Gregory Morsch

Regional Training Director: Gregory Morsch

ELIRAR-676

Certificate Number

Tighe&Bond

APPENDIX B

TABLE 1
Summary of Asbestos-Containing Materials
91 Longdean Road
Fairfield, Connecticut

Asbestos Sampling Date: May 23, 2017

Sample ID	Material	Color	Homogeneous Location(s)	Approximate Quantity	Result	Description/ Comment
052317-PCH-01	Chimney Flue Packing/Cement	Black	Basement	2 LF	7% Chrysotile	
052317-PCH-19	Duct Penetration Sealant	Black	Basement	12 LF	25% Chrysotile	
052317-PCH-31	Soft Door Frame Caulking	Gray	Basement	12 LF	4% Chrysotile	
052317-PCH-61	12" x 12" Floor Tile	Beige	Basement	4 SF	4% Chrysotile	
052317-PCH-58	Cloth Duct Wrap	Gray	2nd Floor Crawlspace	8 SF (Visible)	65% Chrysotile	Material Assumed to be Located Throughout Residential Structure within Inaccessible Areas (Appears to have been Abated/Removed in Basement). Material in Crawlspace is Significantly Damaged.

LEGEND
Asbestos-Containing Material = > 1% Asbestos
LF = Linear Foot
SF= Square Foot

TABLE 2
Summary of Non-Asbestos Containing Materials
91 Longdean Road
Fairfield, Connecticut

Asbestos Sampling Date: May 23, 2017

Sample ID	Material	Color	Location(s)	Result	Description/ Comment
052317-PCH-04	Floor Tile Mastic	Black	Basement - Center	ND (PLM)/ ND (TEM)	
052317-PCH-05	Floor Tile Mastic	Black	Basement - By HVAC	ND	
052317-PCH-06	Floor Tile Mastic	Black	Basement - South	ND	
052317-PCH-07	Textured Ceiling Material	White	Basement - Southwest	ND	
052317-PCH-08	Textured Ceiling Material	White	Basement - Southwest	ND	Associated with Gypsum Board
052317-PCH-09	Textured Ceiling Material	White	Basement - Southwest	ND	
052317-PCH-10	Joint Compound	White	Basement - Southwest	ND	
052317-PCH-11	Joint Compound	White	Basement - Southwest	ND	Associated with Gypsum Board
052317-PCH-12	Joint Compound	White	Basement - Southwest	ND	
052317-PCH-13	Ceiling Gypsum Board	White	Basement - Southwest	ND	
052317-PCH-14	Ceiling Gypsum Board	White	Basement - Southwest	ND	
052317-PCH-15	Ceiling Gypsum Board	White	Basement - Southwest	ND	
052317-PCH-16-Composite	Gypsum Board/Joint Compound Composite	White	Basement - Southwest	ND	
052317-PCH-17-Composite	Gypsum Board/Joint Compound Composite	White	Basement - Southwest	ND	
052317-PCH-18-Composite	Gypsum Board/Joint Compound Composite	White	Basement - Southwest	ND	

TABLE 2
Summary of Non-Asbestos Containing Materials
91 Longdean Road
Fairfield, Connecticut

Sample ID	Material	Color	Location(s)	Result	Description/ Comment
052317-PCH-22	Concrete Slab	Gray	Basement - Northeast	ND	
052317-PCH-23	Concrete Slab	Gray	Basement - Northeast	ND	
052317-PCH-24	Concrete Slab	Gray	Basement - Northeast	ND	
052317-PCH-25	Concrete Masonry Unit (CMU)	Gray	Basement - South	ND	
052317-PCH-26	Concrete Masonry Unit (CMU)	Gray	Basement - West	ND	
052317-PCH-27	Concrete Masonry Unit (CMU)	Gray	Basement - Northwest	ND	
052317-PCH-28	CMU Mortar	Gray	Basement - South	ND	
052317-PCH-29	CMU Mortar	Gray	Basement - West	ND	
052317-PCH-30	CMU Mortar	Gray	Basement - Northwest	ND	
052317-PCH-34	Plaster Skim Coat	White	2nd Floor - Master Bedroom	ND	
052317-PCH-35	Plaster Skim Coat	White	2nd Floor - Master Bedroom	ND	
052317-PCH-36	Plaster Skim Coat	White	2nd Floor - Bedroom #2	ND	
052317-PCH-37	Plaster Rough Coat	Brown	2nd Floor - Master Bedroom	ND	
052317-PCH-38	Plaster Rough Coat	Brown	2nd Floor - Master Bedroom	ND	
052317-PCH-39	Plaster Rough Coat	Brown	2nd Floor - Bedroom #2	ND	

TABLE 2
Summary of Non-Asbestos Containing Materials
91 Longdean Road
Fairfield, Connecticut

Sample ID	Material	Color	Location(s)	Result	Description/ Comment
052317-PCH-40	Gypsum Board Panel	White	2nd Floor - Master Bedroom	ND	
052317-PCH-41	Gypsum Board Panel	White	2nd Floor - Master Bedroom	ND	Located Behind Plaster
052317-PCH-42	Gypsum Board Panel	White	2nd Floor - Master Bedroom	ND	
052317-PCH-43	Joint Compound	White	2nd Floor - Top Stair Landing	ND	
052317-PCH-44	Joint Compound	White	2nd Floor - Master Bedroom Closet	ND	Associated with Gypsum Board
052317-PCH-45	Joint Compound	White	2nd Floor - Bedroom #2 Closet	ND	
052317-PCH-46	Gypsum Board	White	2nd Floor - Top Stair Landing	ND	
052317-PCH-47	Gypsum Board	White	2nd Floor - Master Bedroom Closet	ND	
052317-PCH-48	Gypsum Board	White	2nd Floor - Bedroom #2 Closet	ND	
052317-PCH-49-Composite	Gypsum Board/Joint Compound Composite	White	2nd Floor - Top Stair Landing	ND	
052317-PCH-50-Composite	Gypsum Board/Joint Compound Composite	White	2nd Floor - Master Bedroom Closet	ND	
052317-PCH-51-Composite	Gypsum Board/Joint Compound Composite	White	2nd Floor - Bedroom #2 Closet	ND	
052317-PCH-52	Asphalt Roof Shingle	Black	Roof - North (Top Layer)	ND (PLM)/ ND (TEM)	
052317-PCH-53	Asphalt Roof Shingle	Black	Roof - North (Top Layer)	ND	
052317-PCH-54	Asphalt Roof Shingle	Black	Roof - North (Top Layer)	ND	
052317-PCH-55	Asphalt Roof Shingle	Black	Roof - North (Bottom Layer)	ND (PLM)/ ND (TEM)	
052317-PCH-56	Asphalt Roof Shingle	Black	Roof - North (Bottom Layer)	ND	
052317-PCH-57	Asphalt Roof Shingle	Black	Roof - North (Bottom Layer)	ND	

TABLE 3
Summary of Lead-Based Paint XRF Results
91 Longdean Road
Fairfield, Connecticut

		Calibration #1	Calibration #2	Calibration #3	Average
Calibration	**1st Check**	**1.04**	**1.04**	**1.04**	**1.04**
	2nd Check	**1.04**	**1.03**	**1.03**	**1.03**
	3rd Check				
	4th Check				

Component	Room	Side	Paint Color	Substrate	XRF Result (mg/cm²)
Door	2nd Floor Bath	A	Brown Stain	Wood	0.00
Door Frame		A	White	Wood	0.00
Door Jamb		A	White	Wood	0.00
Wall		A	White	Gypsum Board	0.00
Wall		B	White	Gypsum Board	0.00
Wall		C	White	Gypsum Board	0.00
Wall		D	White	Gypsum Board	0.00
Ceiling			White	Gypsum Board	0.00
Baseboard			White	Wood	0.00
Window Sill		C	White	Wood	0.00
Window Casing		C	White	Wood	0.00
Window Apron		C	White	Wood	0.00
Window Sash		C	White	Wood	0.00
Window Trough		C	White	Wood	0.00
Door	2nd Floor Bedroom #2	B	Brown Stain	Wood	0.00
Door Frame		B	White	Wood	0.00
Door Jamb		B	White	Wood	0.02
Wall		A	Light Gray	Gypsum Board	0.00
Wall		B	Light Gray	Gypsum Board	0.00
Wall		C	Light Gray	Plaster	0.00
Wall		D	Light Gray	Gypsum Board	0.00
Ceiling			White	Gypsum Board	0.00
Baseboard		B	White	Wood	0.00

TABLE 3
Summary of Lead-Based Paint XRF Results
91 Longdean Road
Fairfield, Connecticut

Component	Room	Side	Paint Color	Substrate	XRF Result (mg/cm^2)
Closet Door	2nd Floor Bedroom #2	B	White	Wood	0.00
Closet Door Frame		B	White	Wood	0.00
Shelf		B	White	Wood	0.00
Crawlspace Door		C	White	Wood	0.00
Crawlspace Door Frame		C	White	Wood	0.00
Window Sash		D	White	Vinyl	0.00
Window Sill		D	White	Wood	0.00
Window Casing		D	White	Wood	0.00
Window Apron		D	White	Wood	0.00
Window Trough		D	White	Metal	0.00
Door	2nd Floor Master Bedroom	D	Brown Stain	Wood	0.00
Door Frame		D	White	Wood	0.00
Door Jamb		D	White	Wood	0.02
Wall		A	White	Gypsum Board	0.74
Wall		B	White	Gypsum Board	0.00
Wall		C	White	Plaster	0.00
Wall		D	White	Gypsum Board	0.22
Ceiling			White	Gypsum Board	0.00
Closet Door		D	White	Wood	0.00
Closet Door Frame		D	White	Wood	0.00
Shelf			White	Wood	0.00
Window Sill		A	White	Wood	0.00
Window Sash		A	White	Vinyl	0.00
Window Casing		A	White	Wood	0.00
Window Apron		A	White	Wood	0.00
Window Trough		A	White	Metal	0.00
Baseboard		B	White	Wood	0.02
Crawlspace		C	White	Wood	0.02
Crawlspace Door Frame		C	White	Wood	0.03

TABLE 3
Summary of Lead-Based Paint XRF Results
91 Longdean Road
Fairfield, Connecticut

Component	Room	Side	Paint Color	Substrate	XRF Result (mg/cm²)
Wall	Foyer/Stairwell	A	White	Gypsum Board	0.00
Wall		B	White	Gypsum Board	0.00
Wall		C	White	Gypsum Board	0.00
Wall		D	White	Gypsum Board	0.00
Ceiling			White	Gypsum Board	0.00
Stair Riser			White	Wood	0.00
Stair Stringer			White	Wood	0.02
Hand Rail			Brown Stain	Wood	0.00
Spindle			White	Wood	0.03
Wall	Living Room	A	White	Gypsum Board	0.00
Wall		B	White	Gypsum Board	0.00
Wall		C	White	Gypsum Board	0.00
Wall		D	White	Gypsum Board	0.00
Door Frame		C	White	Wood	0.00
Window Sill		A	White	Wood	0.07
Window Apron		A	White	Wood	0.00
Window Casing		A	White	Wood	0.00
Window Mullion		A	White	Wood	0.07
Window Sash		A	White	Vinyl	0.00
Window Trough		A	White	Metal	0.00
Baseboard		A	White	Wood	0.00
Wall	Hallway	A	White	Gypsum Board	0.00
Wall		B	White	Gypsum Board	0.00
Wall		C	White	Gypsum Board	0.00
Wall		D	White	Gypsum Board	0.00
Wainscot Panel		C	White	Wood	0.00
Door Jamb		D	White	Wood	0.02

TABLE 3
Summary of Lead-Based Paint XRF Results
91 Longdean Road
Fairfield, Connecticut

Component	Room	Side	Paint Color	Substrate	XRF Result (mg/cm^2)
Door		A	White	Wood	0.00
Door Frame		A	White	Wood	0.00
Door Jamb		A	White	Gypsum Board	0.02
Wall		A	White	Gypsum Board	0.00
Wall		B	White	Gypsum Board	0.00
Wall		C	White	Gypsum Board	0.00
Wall		D	White	Gypsum Board	0.00
Ceiling	1st Floor Bathroom		White	Wood	0.00
Baseboard		A	White	Wood	0.00
Crown Molding			White	Wood	0.00
Window Sill		C	White	Wood	0.00
Window Casing		C	White	Wood	0.00
Window Apron		C	White	Wood	0.00
Window Sash		C	White	Vinyl	0.00
Window Trough		C	White	Metal	0.00
Door Frame		B	White	Wood	0.00
Door Jamb		B	White	Wood	0.00
Wall		A	Light Gray	Gypsum Board	0.09
Wall		B	Light Gray	Gypsum Board	0.02
Wall		C	Light Gray	Gypsum Board	0.00
Wall		D	Light Gray	Gypsum Board	0.09
Ceiling	Dining Room		White	Gypsum Board	0.00
Baseboard			White	Wood	0.00
Window Sill		C	White	Wood	0.00
Window Sash		C	White	Vinyl	0.00
Window Casing		C	White	Wood	0.00
Window Apron		C	White	Wood	0.00
Window Trough		C	White	Metal	0.00

TABLE 3
Summary of Lead-Based Paint XRF Results
91 Longdean Road
Fairfield, Connecticut

Component	Room	Side	Paint Color	Substrate	XRF Result (mg/cm²)
Wall	Kitchen	A	White	Gypsum Board	0.00
Wall		B	White	Gypsum Board	0.00
Wall		C	White	Gypsum Board	0.00
Wall		D	White	Gypsum Board	0.00
Baseboard			White	Wood	0.00
Cabinet - Upper			Gray	Wood	0.00
Cabinet - Lower			Gray	Wood	0.00
Door		C	White	Wood	0.07
Door Frame		C	White	Wood	0.83
Door Jamb		C	White	Wood	0.03
Window Sash		C	White	Vinyl	0.00
Window Apron		C	White	Wood	0.00
Window Casing		C	White	Wood	0.00
Window Trough		C	White	Metal	0.00
Window Sill		C	White	Wood	0.00
Ceiling			White	Gypsum Board	0.00
Door	Family Room	D	White	Wood	0.00
Door Frame		D	White	Wood	0.00
Door Jamb		D	White	Wood	0.02
Wall		A	White	Gypsum Board	0.00
Wall		B	White	Gypsum Board	0.00
Wall		C	White	Gypsum Board	0.00
Wall		D	White	Gypsum Board	0.00
Ceiling			White	Gypsum Board	0.00
Baseboard		B	White	Wood	0.00
Window Sill		B	White	Wood	0.00
Window Sash		B	White	Wood	0.00
Window Casing		B	White	Wood	0.00
Window Apron		B	White	Wood	0.00
Window Trough		B	White	Wood	0.00

TABLE 3
Summary of Lead-Based Paint XRF Results
91 Longdean Road
Fairfield, Connecticut

Component	Room	Side	Paint Color	Substrate	XRF Result (mg/cm²)
Step	Basement		White	Wood	0.00
Stair Stringer			White	Wood	0.02
Pole			White	Metal	0.03
Floor			Gray	Concrete	0.00
Wall		A	White	CMU	0.00
Wall		B	White	CMU	0.00
Wall		C	White	CMU	0.00
Wall		D	White	CMU	0.00
Chimney			White	CMU	0.00
Slab			White	Concrete	0.00
Door		B	White	Wood	0.00
Door Frame		B	White	Wood	0.00
Door	Exterior	A	Black	Wood	0.00
Door Frame		A	White	Wood	0.00
Step		A	Gray	Concrete	0.00
Handrail		A	Black	Metal	0.00
Foundation		D	Gray	Concrete	0.00
Window Casing		A	White	Metal	0.00
Deck Step		D	Gray	Wood	0.00
Stair Riser		D	White	Wood	0.00
Deck		C	Gray	Wood	0.00
Lattice		B	White	Wood	0.00
Lattice Framing		B	White	Wood	0.00
Siding (Behind Vinyl)		C	White	Wood	0.25

LEGEND
Bolded Result = Paint considered "Lead-based" (≥ 1.0 mg/cm²)
XRF = X-ray Fluorescence Analyzer

TABLE 4
Summary of Airborne Radon Gas Results
91 Longdean Road
Fairfield, Connecticut

Airborne Radon Sampling Date: May 23, 2017 - May 26, 2017

Canister ID	Canister Location	Result (pCi/L)
2540188	Blank	0.5
2540249	First Floor - Dining Room	0.1
2540256	Basement (Duplicate Sample)	1.0
2540288	Basement	0.8

LEGEND
Bolded result indicates a level over the EPA Action Level of 4.0 pCi/L
pCi/L = picoCuries per Liter

Tighe&Bond

APPENDIX C

EMSL Analytical, Inc.

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

EMSL Order ID:	041714939
Customer ID:	TIGH62
Customer PO:	
Project ID:	

Attn:	Kevin McCarthy Tighe & Bond 213 Court Street Suite 1100 Middletown, CT 06457	Phone: Fax: Collected: Received: Analyzed:	(860) 704-4760 (860) 704-4775 5/23/2017 5/25/2017 6/07/2017
Proj:	91 Longdean Road, Fairfield, CT / Q-0048-5		

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

Client Sample ID: 052317-PCH-01 ***Lab Sample ID:*** **041714939-0001**

Sample Description: Basement - Chimney/Black Flue Packing

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Black	0%	93%	**7% Chrysotile**	

Client Sample ID: 052317-PCH-02 ***Lab Sample ID:*** **041714939-0002**

Sample Description: Basement - Chimney/Black Flue Packing

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017				Positive Stop (Not Analyzed)	

Client Sample ID: 052317-PCH-03 ***Lab Sample ID:*** **041714939-0003**

Sample Description: Basement - Chimney/Black Flue Packing

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017				Positive Stop (Not Analyzed)	

Client Sample ID: 052317-PCH-04 ***Lab Sample ID:*** **041714939-0004**

Sample Description: Basement - Center/Black Floor Tile Mastic

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Black	0%	100%	None Detected	
TEM Grav. Reduction	6/07/2017	Black	0.0%	100%	None Detected	

Client Sample ID: 052317-PCH-05 ***Lab Sample ID:*** **041714939-0005**

Sample Description: Basement - By HVAC/Black Floor Tile Mastic

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Black	0%	100%	None Detected	

Client Sample ID: 052317-PCH-06 ***Lab Sample ID:*** **041714939-0006**

Sample Description: Basement - South/Black Floor Tile Mastic

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Black	0%	100%	None Detected	

Client Sample ID: 052317-PCH-07 ***Lab Sample ID:*** **041714939-0007**

Sample Description: Basement - Southwest a/w Gyp. Bd./White Textured Ceiling Material

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	White	0%	100%	None Detected	

EMSL Analytical, Inc.

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

EMSL Order ID:	041714939
Customer ID:	TIGH62
Customer PO:	
Project ID:	

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

Client Sample ID: 052317-PCH-08 ***Lab Sample ID:*** **041714939-0008**

Sample Description: Basement - Southwest a/w Gyp. Bd./White Textured Ceiling Material

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	White	0%	100%	None Detected	

Client Sample ID: 052317-PCH-09 ***Lab Sample ID:*** **041714939-0009**

Sample Description: Basement - Southwest a/w Gyp. Bd./White Textured Ceiling Material

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	White	0%	100%	None Detected	

Client Sample ID: 052317-PCH-10 ***Lab Sample ID:*** **041714939-0010**

Sample Description: Basement - Southwest a/w Gyp. Bd./White Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	White	0%	100%	None Detected	

Client Sample ID: 052317-PCH-11 ***Lab Sample ID:*** **041714939-0011**

Sample Description: Basement - Southwest a/w Gyp. Bd./White Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	White	0%	100%	None Detected	

Client Sample ID: 052317-PCH-12 ***Lab Sample ID:*** **041714939-0012**

Sample Description: Basement - Southwest a/w Gyp. Bd./White Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	White	0%	100%	None Detected	

Client Sample ID: 052317-PCH-13 ***Lab Sample ID:*** **041714939-0013**

Sample Description: Basement - Southwest/White Ceiling Gypsum Board

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Brown/White	15%	85%	None Detected	

Client Sample ID: 052317-PCH-14 ***Lab Sample ID:*** **041714939-0014**

Sample Description: Basement - Southwest/White Ceiling Gypsum Board

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Brown/White	15%	85%	None Detected	

Client Sample ID: 052317-PCH-15 ***Lab Sample ID:*** **041714939-0015**

Sample Description: Basement - Southwest/White Ceiling Gypsum Board

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Brown/White	15%	85%	None Detected	

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

EMSL Order ID: 041714939
Customer ID: TIGH62
Customer PO:
Project ID:

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

Client Sample ID: 052317-PCH-16-Composite **Lab Sample ID:** 041714939-0016
Sample Description: Basement - Southwest/Gyp. Bd./ Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Brown/White	12%	88%	None Detected	

Client Sample ID: 052317-PCH-17-Composite **Lab Sample ID:** 041714939-0017
Sample Description: Basement - Southwest/Gyp. Bd./ Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Brown/White	12%	88%	None Detected	

Client Sample ID: 052317-PCH-18-Composite **Lab Sample ID:** 041714939-0018
Sample Description: Basement - Southwest/Gyp. Bd./ Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Brown/White	10%	90%	None Detected	

Client Sample ID: 052317-PCH-19 **Lab Sample ID:** 041714939-0019
Sample Description: Basement - North Center/Black Duct Penetration Sealant

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Gray	0%	75%	**25% Chrysotile**	

Client Sample ID: 052317-PCH-20 **Lab Sample ID:** 041714939-0020
Sample Description: Basement - Northwest/Black Duct Penetration Sealant

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017				Positive Stop (Not Analyzed)	

Client Sample ID: 052317-PCH-21 **Lab Sample ID:** 041714939-0021
Sample Description: Basement - East Center/Black Duct Penetration Sealant

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017				Positive Stop (Not Analyzed)	

Client Sample ID: 052317-PCH-22 **Lab Sample ID:** 041714939-0022
Sample Description: Basement - Northeast/Gray Concrete Slab

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Gray	0%	100%	None Detected	

Client Sample ID: 052317-PCH-23 **Lab Sample ID:** 041714939-0023
Sample Description: Basement - Northeast/Gray Concrete Slab

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Gray	0%	100%	None Detected	

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

EMSL Order ID: 041714939
Customer ID: TIGH62
Customer PO:
Project ID:

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

Client Sample ID: 052317-PCH-24 ***Lab Sample ID:*** **041714939-0024**
Sample Description: Basement - Northeast/Gray Concrete Slab

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Gray	0%	100%	None Detected	

Client Sample ID: 052317-PCH-25 ***Lab Sample ID:*** **041714939-0025**
Sample Description: Basement - South/Gray Concrete Masonry Unit (CMU)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Gray	0%	100%	None Detected	

Client Sample ID: 052317-PCH-26 ***Lab Sample ID:*** **041714939-0026**
Sample Description: Basement - West/Gray Concrete Masonry Unit (CMU)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Gray	0%	100%	None Detected	

Client Sample ID: 052317-PCH-27 ***Lab Sample ID:*** **041714939-0027**
Sample Description: Basement - Northwest/Gray Concrete Masonry Unit (CMU)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Gray	0%	100%	None Detected	

Client Sample ID: 052317-PCH-28 ***Lab Sample ID:*** **041714939-0028**
Sample Description: Basement - South/Gray CMU Mortar

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Gray	0%	100%	None Detected	

Client Sample ID: 052317-PCH-29 ***Lab Sample ID:*** **041714939-0029**
Sample Description: Basement - West/Gray CMU Mortar

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Gray	0%	100%	None Detected	

Client Sample ID: 052317-PCH-30 ***Lab Sample ID:*** **041714939-0030**
Sample Description: Basement - Northwest/Gray CMU Mortar

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Gray	0%	100%	None Detected	

Client Sample ID: 052317-PCH-31 ***Lab Sample ID:*** **041714939-0031**
Sample Description: Basement - NW Panel/Gray Soft Door Frame Caulking

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Gray	0%	96%	**4% Chrysotile**	

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

EMSL Order ID:	041714939
Customer ID:	TIGH62
Customer PO:	
Project ID:	

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

Client Sample ID: 052317-PCH-32 ***Lab Sample ID:*** **041714939-0032**
Sample Description: Basement - NW Panel/Gray Soft Door Frame Caulking

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	6/01/2017				Positive Stop (Not Analyzed)	

Client Sample ID: 052317-PCH-33 ***Lab Sample ID:*** **041714939-0033**
Sample Description: Basement - NW Panel/Gray Soft Door Frame Caulking

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	6/01/2017				Positive Stop (Not Analyzed)	

Client Sample ID: 052317-PCH-34 ***Lab Sample ID:*** **041714939-0034**
Sample Description: 2nd Floor - Master Bedroom/White Plaster Skim Coat

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	White	0%	100%	None Detected	

Client Sample ID: 052317-PCH-35 ***Lab Sample ID:*** **041714939-0035**
Sample Description: 2nd Floor - Master Bedroom/White Plaster Skim Coat

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	White	0%	100%	None Detected	

Client Sample ID: 052317-PCH-36 ***Lab Sample ID:*** **041714939-0036**
Sample Description: 2nd Floor - Bedroom #2/White Plaster Skim Coat

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	White	0%	100%	None Detected	

Client Sample ID: 052317-PCH-37 ***Lab Sample ID:*** **041714939-0037**
Sample Description: 2nd Floor - Master Bedroom/Brown Plaster Rough Coat

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Brown	0%	100%	None Detected	

Client Sample ID: 052317-PCH-38 ***Lab Sample ID:*** **041714939-0038**
Sample Description: 2nd Floor - Master Bedroom/Brown Plaster Rough Coat

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Brown	0%	100%	None Detected	

Client Sample ID: 052317-PCH-39 ***Lab Sample ID:*** **041714939-0039**
Sample Description: 2nd Floor - Bedroom #2/Brown Plaster Rough Coat

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Brown	0%	100%	None Detected	

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

EMSL Order ID: 041714939
Customer ID: TIGH62
Customer PO:
Project ID:

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

Client Sample ID: 052317-PCH-40 ***Lab Sample ID:*** **041714939-0040**
Sample Description: 2nd Floor - Master Bedroom behind Plaster/White Gypsum Board Panel

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Brown/White	15%	85%	None Detected	

Client Sample ID: 052317-PCH-41 ***Lab Sample ID:*** **041714939-0041**
Sample Description: 2nd Floor - Master Bedroom behind Plaster/White Gypsum Board Panel

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Brown/White	0%	100%	None Detected	

Client Sample ID: 052317-PCH-42 ***Lab Sample ID:*** **041714939-0042**
Sample Description: 2nd Floor - Bedroom #2 behind Plaster/White Gypsum Board Panel

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Brown/Gray	20%	80%	None Detected	

Client Sample ID: 052317-PCH-43 ***Lab Sample ID:*** **041714939-0043**
Sample Description: 2nd Floor - Top Stair Landing/White Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	White	0%	100%	None Detected	

Client Sample ID: 052317-PCH-44 ***Lab Sample ID:*** **041714939-0044**
Sample Description: 2nd Floor - Master Bedroom Closet/White Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	White	0%	100%	None Detected	

Client Sample ID: 052317-PCH-45 ***Lab Sample ID:*** **041714939-0045**
Sample Description: 2nd Floor - Bedroom #2 Closet/White Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	White	0%	100%	None Detected	

Client Sample ID: 052317-PCH-46 ***Lab Sample ID:*** **041714939-0046**
Sample Description: 2nd Floor - Top Stair Landing/White Gypsum Board

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Brown	0%	100%	None Detected	Sample appears to be base coat.

Client Sample ID: 052317-PCH-47 ***Lab Sample ID:*** **041714939-0047**
Sample Description: 2nd Floor - Master Bedroom Closet/White Gypsum Board

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Brown	0%	100%	None Detected	Sample appears to be base coat.

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

EMSL Order ID: 041714939
Customer ID: TIGH62
Customer PO:
Project ID:

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

Client Sample ID: 052317-PCH-48 ***Lab Sample ID:*** **041714939-0048**
Sample Description: 2nd Floor - Bedroom #2 Closet/White Gypsum Board

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Brown	0%	100%	None Detected	Sample appears to be base coat

Client Sample ID: 052317-PCH-49-Composite ***Lab Sample ID:*** **041714939-0049**
Sample Description: 2nd Floor - Top Stair Landing/Gyp. Bd./ Joint Comp.

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Brown/White	0%	100%	None Detected	Sample appears to be skim/base coat.

Client Sample ID: 052317-PCH-50-Composite ***Lab Sample ID:*** **041714939-0050**
Sample Description: 2nd Floor - Master Bedroom Closet/Gyp. Bd./ Joint Comp.

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Brown/White	0%	100%	None Detected	Sample appears to be skim/base coat.

Client Sample ID: 052317-PCH-51-Composite ***Lab Sample ID:*** **041714939-0051**
Sample Description: 2nd Floor - Bedroom #2 Closet/Gyp. Bd./ Joint Comp.

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Brown/White	0%	100%	None Detected	Sample appears to be skim/base coat

Client Sample ID: 052317-PCH-52 ***Lab Sample ID:*** **041714939-0052**
Sample Description: Roof - North (Top Layer)/Black Asphalt Roof Shingle

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Black	30%	70%	None Detected	
TEM Grav. Reduction	6/07/2017	Black	0.0%	100%	None Detected	

Client Sample ID: 052317-PCH-53 ***Lab Sample ID:*** **041714939-0053**
Sample Description: Roof - North (Top Layer)/Black Asphalt Roof Shingle

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Black	30%	70%	None Detected	

Client Sample ID: 052317-PCH-54 ***Lab Sample ID:*** **041714939-0054**
Sample Description: Roof - North (Top Layer)/Black Asphalt Roof Shingle

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Black	30%	70%	None Detected	

Client Sample ID: 052317-PCH-55 ***Lab Sample ID:*** **041714939-0055**
Sample Description: Roof - North (Bottom Layer)/Black Asphalt Roof Shingle

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Black	30%	70%	None Detected	
TEM Grav. Reduction	6/07/2017	Black	0.0%	100%	None Detected	

EMSL Analytical, Inc.

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

EMSL Order ID: 041714939
Customer ID: TIGH62
Customer PO:
Project ID:

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

Client Sample ID: 052317-PCH-56 ***Lab Sample ID:*** **041714939-0056**
Sample Description: Roof - North (Bottom Layer)/Black Asphalt Roof Shingle

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Black	30%	70%	None Detected	

Client Sample ID: 052317-PCH-57 ***Lab Sample ID:*** **041714939-0057**
Sample Description: Roof - North (Bottom Layer)/Black Asphalt Roof Shingle

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Black	25%	75%	None Detected	

Client Sample ID: 052317-PCH-58 ***Lab Sample ID:*** **041714939-0058**
Sample Description: 2nd Floor - Crawlspace behind Master Bedroom/White Duct Wrap

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	White	0%	35%	**65% Chrysotile**	

Client Sample ID: 052317-PCH-59 ***Lab Sample ID:*** **041714939-0059**
Sample Description: 2nd Floor - Crawlspace behind Master Bedroom/White Duct Wrap

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017				Positive Stop (Not Analyzed)	

Client Sample ID: 052317-PCH-60 ***Lab Sample ID:*** **041714939-0060**
Sample Description: 2nd Floor - Crawlspace behind Master Bedroom/White Duct Wrap

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017				Positive Stop (Not Analyzed)	

Client Sample ID: 052317-PCH-61 ***Lab Sample ID:*** **041714939-0061**
Sample Description: Basement - Center/Beige 12"x12" Vinyl Floor Tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017	Beige	0%	96%	**4% Chrysotile**	

Client Sample ID: 052317-PCH-62 ***Lab Sample ID:*** **041714939-0062**
Sample Description: Basement - Center/Beige 12"x12" Vinyl Floor Tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017				Positive Stop (Not Analyzed)	

Client Sample ID: 052317-PCH-63 ***Lab Sample ID:*** **041714939-0063**
Sample Description: Basement - Center/Beige 12"x12" Vinyl Floor Tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	6/01/2017				Positive Stop (Not Analyzed)	

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

EMSL Order ID:	041714939
Customer ID:	TIGH62
Customer PO:	
Project ID:	

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

Analyst(s):

Daniel Fricker	PLM (16)
Debbie Little	TEM Grav. Reduction (3)
Rebecca Siegel	PLM (37)

Reviewed and approved by:

Benjamin Ellis, Laboratory Manager
or Other Approved Signatory

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

Initial report from: 06/01/201714:46:04

OrderID: 041714939

041714939

Tighe&Bond
Engineers | Environmental Specialists

CINNAMINSON, N.J.
2017 MAY 25 A 6:12

213 Court Street, Suite 1100, Middletown, CT 06457 Phone 860-704-4760

SAMPLE LOG FOR ASBESTOS BULKS

Project Name: 91 Longdean Road, Fairfield, CT Project No. Q-0048-5

Building: _____ Project Manager: K. McCarthy

Sample ID	Sample Location	Material
052317-PCH-01	Basement - Chimney	Black Flue Packing
052317-PCH-02	Basement - Chimney	Black Flue Packing
052317-PCH-03	Basement - Chimney	Black Flue Packing
052317-PCH-04	Basement - Center	Black Floor Tile Mastic
052317-PCH-05	Basement – By HVAC	Black Floor Tile Mastic
052317-PCH-06	Basement - South	Black Floor Tile Mastic
052317-PCH-07	Basement – Southwest associated with Gyp. Bd.	White Textured Ceiling Material
052317-PCH-08	Basement – Southwest associated with Gyp. Bd.	White Textured Ceiling Material
052317-PCH-09	Basement – Southwest associated with Gyp. Bd.	White Textured Ceiling Material
052317-PCH-10	Basement – Southwest associated with Gyp. Bd.	White Joint Compound
052317-PCH-11	Basement – Southwest associated with Gyp. Bd.	White Joint Compound
052317-PCH-12	Basement – Southwest associated with Gyp. Bd.	White Joint Compound
052317-PCH-13	Basement - Southwest	White Ceiling Gypsum Board
052317-PCH-14	Basement - Southwest	White Ceiling Gypsum Board
052317-PCH-15	Basement - Southwest	White Ceiling Gypsum Board

Analysis Method: ☒ PLM ☐ Other Turnaround Time 5 day

Based on the turnaround time indicated above, analyses are due to Tighe & Bond, Inc. on or before this date: _____ Please call the office if analyses will be late at 860-704-4760.

Email Results to: kmccarthy@tighebond.com **Do Not Mail Hard Copy Report** **Total # of Samples:** 63

Special Instructions: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated.

Samples collected by: Philip C. Hutter Philip C Hutter **Date:** 5/23/17 **Time:** _____

Samples [Rec'd][Sent by] [ ][PCH] **Date:** [5/24/17][ ] **Time:** _____

Samples Received by: LA FX Fmail **Date:** 5-25-17 **Time:** 9:45am

Shipped To: ☒ EMSL State _____ ☐ Other _____

Method of Shipment: ☒ Fed Ex ☐ Other _____

U3

OrderID: 041714939

Tighe&Bond

041714939

Engineers | Environmental Specialists

213 Court Street, Suite 1100, Middletown, CT 06457 Phone 860-704-4760

CINNAMINSON, NJ

2017 MAY 25 A 10:12

SAMPLE LOG FOR ASBESTOS BULKS

Project Name: 91 Longdean Road, Fairfield, CT Project No. Q-0048-5

Building: _____ Project Manager: K. McCarthy

Sample ID	Sample Location	Material
052317-PCH-16	Basement - Southwest	Composite Gyp. Bd./Joint Comp.
052317-PCH-17	Basement - Southwest	Composite Gyp. Bd./Joint Comp.
052317-PCH-18	Basement - Southwest	Composite Gyp. Bd./Joint Comp.
052317-PCH-19	Basement – North Center	Black Duct Penetration Sealant
052317-PCH-20	Basement – Northwest	Black Duct Penetration Sealant
052317-PCH-21	Basement – East Center	Black Duct Penetration Sealant
052317-PCH-22	Basement - Northeast	Gray Concrete Slab
052317-PCH-23	Basement - Northeast	Gray Concrete Slab
052317-PCH-24	Basement - Northeast	Gray Concrete Slab
052317-PCH-25	Basement - South	Gray Concrete Masonry Unit (CMU)
052317-PCH-26	Basement – West	Gray Concrete Masonry Unit (CMU)
052317-PCH-27	Basement - Northwest	Gray Concrete Masonry Unit (CMU)
052317-PCH-28	Basement - South	Gray CMU Mortar
052317-PCH-29	Basement – West	Gray CMU Mortar
052317-PCH-30	Basement - Northwest	Gray CMU Mortar

Analysis Method: ☒ PLM ☐ Other Turnaround Time _____

Based on the turnaround time indicated above, analyses are due to Tighe & Bond, Inc. on or before this date: _____ Please call the office if analyses will be late at 860-704-4760.

Email Results to: kmccarthy@tighebond.com **Do Not Mail Hard Copy Report** **Total # of Samples:** 63

Special Instructions: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated.

Samples collected by: Philip C. Hutter Phil C Hutter **Date:** 5/23/17 **Time:** _____

Samples [Rec'd][Sent by] [ ][PCH] **Date:** [ ][5/24/17] **Time:** _____

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

Shipped To: ☒ EMSL State _____ ☐ Other _____

Method of Shipment: ☒ Fed Ex ☐ Other _____

OrderID: 041714939

041714939

CINNAMINSON, N.J.
2017 MAY 25 A 10:12

Tighe&Bond
Engineers | Environmental Specialists

213 Court Street, Suite 1100, Middletown, CT 06457 Phone 860-704-4760

SAMPLE LOG FOR ASBESTOS BULKS

Project Name: 91 Longdean Road, Fairfield, CT Project No. Q-0048-5

Building: _____ Project Manager: K. McCarthy

Sample ID	Sample Location	Material
052317-PCH-31	Basement – NW Panel	Gray Soft Door Frame Caulking
052317-PCH-32	Basement – NW Panel	Gray Soft Door Frame Caulking
052317-PCH-33	Basement – NW Panel	Gray Soft Door Frame Caulking
052317-PCH-34	2nd Floor – Master Bedroom	White Plaster Skim Coat
052317-PCH-35	2nd Floor – Master Bedroom	White Plaster Skim Coat
052317-PCH-36	2nd Floor – Bedroom #2	White Plaster Skim Coat
052317-PCH-37	2nd Floor – Master Bedroom	Brown Plaster Rough Coat
052317-PCH-38	2nd Floor – Master Bedroom	Brown Plaster Rough Coat
052317-PCH-39	2nd Floor – Bedroom #2	Brown Plaster Rough Coat
052317-PCH-40	2nd Floor – Master Bedroom Behind Plaster	White Gypsum Board Panel
052317-PCH-41	2nd Floor – Master Bedroom Behind Plaster	White Gypsum Board Panel
052317-PCH-42	2nd Floor – Bedroom #2 Behind Plaster	White Gypsum Board Panel
052317-PCH-43	2nd Floor – Top Stair Landing	White Joint Compound
052317-PCH-44	2nd Floor – Master Bedroom Closet	White Joint Compound
052317-PCH-45	2nd Floor – Bedroom #2 Closet	White Joint Compound

Analysis Method: ☒ PLM ☐ Other Turnaround Time _____

Based on the turnaround time indicated above, analyses are due to Tighe & Bond, Inc. on or before this date: _____
_____ Please call the office if analyses will be late at 860-704-4760.

Email Results to: kmccarthy@tighebond.com **Do Not Mail Hard Copy Report** **Total # of Samples:** 63

Special Instructions: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated.

Samples collected by: Philip C. Hutter Phil C Hutter **Date:** 5/23/17 **Time:** _____

Samples [Rec'd][Sent by] [ ][PCH] **Date:** [ ][5/24/17] **Time:** _____

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

Shipped To: ☒ EMSL State _____ ☐ Other _____

Method of Shipment: ☒ Fed Ex ☐ Other _____

OrderID: 041714939

041714939

Tighe&Bond
Engineers | Environmental Specialists

213 Court Street, Suite 1100, Middletown, CT 06457 Phone 860-704-4760

CINNAMINSON, N.J.
2017 MAY 25 A 10:12

SAMPLE LOG FOR ASBESTOS BULKS

Project Name: 91 Longdean Road, Fairfield, CT Project No. Q-0048-5

Building: _____ Project Manager: K. McCarthy

Sample ID	Sample Location	Material
052317-PCH-46	2nd Floor – Top Stair Landing	White Gypsum Board
052317-PCH-47	2nd Floor – Master Bedroom Closet	White Gypsum Board
052317-PCH-48	2nd Floor – Bedroom #2 Closet	White Gypsum Board
052317-PCH-49	2nd Floor – Top Stair Landing	Composite Gyp. Bd. / Joint Comp.
052317-PCH-50	2nd Floor – Master Bedroom Closet	Composite Gyp. Bd. / Joint Comp.
052317-PCH-51	2nd Floor – Bedroom #2 Closet	Composite Gyp. Bd. / Joint Comp.
052317-PCH-52	Roof – North (Top Layer)	Black Asphalt Roof Shingle
052317-PCH-53	Roof – North (Top Layer)	Black Asphalt Roof Shingle
052317-PCH-54	Roof – North (Top Layer)	Black Asphalt Roof Shingle
052317-PCH-55	Roof – North (Bottom Layer)	Black Asphalt Roof Shingle
052317-PCH-56	Roof – North (Bottom Layer)	Black Asphalt Roof Shingle
052317-PCH-57	Roof – North (Bottom Layer)	Black Asphalt Roof Shingle
052317-PCH-58	2nd Floor – Crawlspace behind Master Bedroom	White Duct Wrap
052317-PCH-59	2nd Floor – Crawlspace behind Master Bedroom	White Duct Wrap
052317-PCH-60	2nd Floor – Crawlspace behind Master Bedroom	White Duct Wrap

Analysis Method: ☒ PLM ☐ Other Turnaround Time _____

Based on the turnaround time indicated above, analyses are due to Tighe & Bond, Inc. on or before this date: _____
_____ Please call the office if analyses will be late at 860-704-4760.

Email Results to: kmccarthy@tighebond.com **Do Not Mail Hard Copy Report** **Total # of Samples:** 63

Special Instructions: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated.

Samples collected by: Philip C. Hutter Philip C. Hutter **Date:** 5/23/17 **Time:** _____

Samples [Rec'd][Sent by] [ ][PCH] **Date:** [ ][5/24/17] **Time:** _____

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

Shipped To: ☒ EMSL State _____ ☐ Other _____

Method of Shipment: ☒ Fed Ex ☐ Other _____

OrderID: 041714939

041714939

Tighe&Bond
Engineers | Environmental Specialists

213 Court Street, Suite 1100, Middletown, CT 06457 Phone 860-704-4760

CINNAMINSON, NJ

2017 MAY 26 A 10:18

SAMPLE LOG FOR ASBESTOS BULKS

Project Name: 91 Longdean Road, Fairfield, CT Project No. Q-0048-5

Building: _____ Project Manager: K. McCarthy

Sample ID	Sample Location	Material
052317-PCH-61	Basement – Center	Beige 12"x12" Vinyl Floor Tile
052317-PCH-62	Basement – Center	Beige 12"x12" Vinyl Floor Tile
052317-PCH-63	Basement – Center	Beige 12"x12" Vinyl Floor Tile

Analysis Method: ☒ PLM ☐ Other Turnaround Time _____

Based on the turnaround time indicated above, analyses are due to Tighe & Bond, Inc. on or before this date: _____ Please call the office if analyses will be late at 860-704-4760.

Email Results to: kmccarthy@tighebond.com **Do Not Mail Hard Copy Report** **Total # of Samples:** 63

Special Instructions: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated.

Samples collected by: Philip C. Hutter Philip Hutter **Date:** 5/23/17 **Time:** _____

Samples [Rec'd][Sent by] [ ][PCH] **Date:** [ ][5/24/17] **Time:** _____

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

Shipped To: ☒ EMSL State _____ ☐ Other _____

Method of Shipment: ☒ Fed Ex ☐ Other _____

Christy, Sherry 041714939

From: Philip C. Hutter <PCHutter@tighebond.com>
Sent: Wednesday, June 7, 2017 9:42 AM
To: Christy, Sherry
Subject: 91 Longdean TEM-NOB request
Attachments: Asbestos Results.pdf

Sherri,

Can you put in the following request for me?

We need the following samples analyzed via TEM-NOB EPA 600/R-93/116 (24 hr TAT) from the attached lab report (041714939) :

- 052317-PCH-04
- 052317-PCH-52
- 052317-PCH-55

Should I contact you or someone else for future requests? I am accustomed to our local lab in Wallingford and not sure of contacts there.

Thank you.

Philip C. Hutter | Project Compliance Specialist
Tighe & Bond | 213 Court Street Suite 1100 | Middletown, CT, 06457 | 860.852.5205 (Direct)| 860.414.4647 (Mobile)
www.tighebond.com | Follow us on: Twitter Facebook LinkedIn

Tighe&Bond

Tighe&Bond

APPENDIX D

Appendix D — Photographic Log

Tighe&Bond
Engineers | Environmental Specialists

Client: Quisenberry Acari Architects, LLC **Job Number:** 12-5015-1

Site: 91 Longdean Road, Fairfield, CT

Photograph No.: 1	**Date:** 5/23/17

Description: Basement—Asbestos-containing Flue Packing

Photograph No.: 2	**Date:** 5/23/17

Description: Basement—Asbestos-containing Duct Penetration Sealant

Client: Quisenberry Acari Architects, LLC **Job Number:** 12-5015-1

Site: 91 Longdean Road, Fairfield, CT

Photograph No.: 3	**Date:** 5/23/17

Description: Basement—Asbestos-containing Door Frame Caulking

Photograph No.: 4	**Date:** 5/23/17

Description: 2nd Floor—Crawlspace—Residual Asbestos-containing Duct Wrap

Tighe&Bond

APPENDIX E

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

LEAD INSPECTION AND TESTING SUMMARY FORM

The Department of Public Health *Lead Inspection and Testing Summary Form* must be completed and sent within two working days following completion of the inspection to the property owner, local director of health, and the Commissioner of the Department of Public Health in accordance with Section 19a-111-3(d) of the Regulations of Connecticut State Agencies (RCSA) concerning Lead Poisoning Prevention and Control.

PROPERTY INSPECTED/TESTED

(Check): ☑ Residence ☐ Family Day Care Home - Name: _____

(Check One): Comprehensive Lead Inspection ☑ *(includes representative painted/coated surfaces, dust, soil, water)* Limited Testing ☐ *(less than a comprehensive lead inspection)*

Street Address: 91 Londean Road Apt.#_____ Floor: _____

City/Town: Fairfield, CT Zip Code: 06824 Telephone: 203-292-6156

If Apartment, Number of Units: _____ Year Property Built: 1958

PROPERTY OWNER

Name: Matt and Jamie Foley

Street Address: 91 Longdean Road City: Fairfield

State: CT Zip Code: 06824 Telephone: 203-292-6156

INSPECTING ENTITY

A. If Consultant Contractor:

Name: Tighe & Bond, Inc.

Street Address: 213 Court Street, Suite 1100

City: Middletown State: CT Zip Code: 06457

Consultant License Number: 2094

Inspector's Name: Philip Hutter Telephone: 860-704-4805

Inspector's Certification Number: 2264

B. If Code Enforcement Agency:

Department Name: _____

Street Address: _____

City: _____ State: _____ Zip Code: _____

Inspector's Name: _____ Telephone: _____

Date of Inspector's Initial Training: 1 / 29 / 2016 Date of Latest Refresher Training: 12 / 9 / 2016

INSPECTION INFORMATION **Date(s) of Inspection:** 5 / 23 / 2017 & / / /

For each day that the inspection was conducted consent was given by an adult occupant of the dwelling unit to enter and inspect all areas of the dwelling that are under the control of that individual or to which that individual has legitimate access. ☐ Yes ☐ No

Name of person 18 years of age or older who granted consent: Jamie Foley Age: 18+ Date: 5/23/2017
Name of person 18 years of age or older who granted consent: _____ Age: ____ Date: _____

A. Were Lead-Based Surfaces Identified? (Check One) ☐ Yes ☑ No
If yes, place an X in the tables below. (Information in tables may not represent all identified lead-based components and surfaces found during inspection.)

EXTERIOR Lead-Based Surfaces	Foundation	Siding &/or Trim	Stairs &/or Stair Components	Porch &/or Porch Components	Doors &/or Trim	Windows &/or Trim	Garage &/or Garage Components
Deteriorated	☐	☐	☐	☐	☐	☐	☐
Intact	☐	☐	☐	☐	☐	☐	☐

INTERIOR Lead-Based Surfaces	Floors	Baseboards	Walls	Ceilings	Stairs &/or Stair Components	Doors &/or Trim	Windows &/or Trim	Closet/ Cabinet Components
Deteriorated	☐	☐	☐	☐	☐	☐	☐	☐
Intact	☐	☐	☐	☐	☐	☐	☐	☐

(X = positive location)

B. Indicate Peak Values of Sampled Media:

(Check All That Apply)
Was dust tested for lead?
☐ Yes ☑ No
Was soil tested for lead?
☐ Yes ☑ No
☐ No bare soil ☐ Ground frozen
Was drinking water tested for lead?
☐ Yes ☑ No

Lead Hazard Locations	Floors	Window Sills	Window Wells	Soil	Water	Paint (XRF)	Paint Chip
(Enter highest result for each)							

⇧
⇦ If yes was checked for any of the questions to the left complete the table above.

C. Were any rooms, areas or components inaccessible during inspection? (Check One) ☐ Yes ☑ No
If yes, list the inaccessible locations: _____

Per section 19a-111-4(a) and 19a-111-2(e) of the Lead Poisoning Prevention and Control Regulations:

A lead abatement plan is required for this property: ☐ Yes ☑ No

A lead management plan is required for this property: ☐ Yes ☑ No

Inspector's Signature: _____ Date: 6 / 9 / 2017

The federal Residential Lead-Based Paint Hazard Reduction Act, 42 U.S.C. 4852d, requires sellers and landlords of most residential housing built before 1978 to disclose all available records and reports concerning lead-based paint and/or lead-based paint hazards, including the test results contained or referenced in this notice, to purchasers and tenants at the time of sale or lease or upon lease renewal. This disclosure must occur even if hazard reduction or abatement has been completed. Failure to disclose these test results is a violation of the U.S. Department of Housing and Urban Development and the U.S. Environmental Protection Agency regulations at 24 CFR Part 35 and 40 CFR Part 745 and can result in a fine of up to $11,000 per violation. To find out more information about your obligations under federal lead-based paint requirements, call 1-800-424-LEAD.

Email To:
DPH.LeadReports@ct.gov

OR

Mail To:
State of Connecticut - Department of Public Health
Environmental Health Section
P.O. Box 340308, MS# 51LED
Hartford, CT 06134-030

Tighe&Bond

APPENDIX F

PC1705300188

RTCA RADON TESTING CORPORATION OF AMERICA

Site Radon Inspection Report

Date : 05/30/2017

Mr Kevin McCarthy
TIGHE & BOND
213 Court Street
Suite 1100
Middletown, CT 06457-

Client: Residence
Test Location: 91 Longdean Road
Fairfield, CT 06824-
Individual Canister Results

Canister ID# :	2540188	Test Start :	05/23/2017 @ 10:25
Canister Type :	Charcoal Canister 3 inch	Test Stop :	05/26/2017 @ 07:56
Location :	First Floor- Dining Room- (B) Bl	Received:	05/30/2017 @ 14:03
Radon Level :	0.5 pCi/L	Analyzed:	05/31/2017 @ 10:35
Error for Measurement is: ±	0.3 pCi/L		

Canister ID# :	2540249	Test Start :	05/23/2017 @ 10:25
Canister Type :	Charcoal Canister 3 inch	Test Stop :	05/26/2017 @ 07:56
Location :	First Floor- Dining Room	Received:	05/30/2017 @ 14:03
Radon Level :	0.1 pCi/L	Analyzed:	05/31/2017 @ 10:35
Error for Measurement is: ±	0.4 pCi/L		

Canister ID# :	2540256	Test Start :	05/23/2017 @ 10:22
Canister Type :	Charcoal Canister 3 inch	Test Stop :	05/26/2017 @ 07:54
Location :	Basement-D	Received:	05/30/2017 @ 14:03
Radon Level :	1.0 pCi/L	Analyzed:	05/31/2017 @ 10:35
Error for Measurement is: ±	0.4 pCi/L		

Canister ID# :	2540288	Test Start :	05/23/2017 @ 10:22
Canister Type :	Charcoal Canister 3 inch	Test Stop :	05/26/2017 @ 07:54
Location :	Basement	Received:	05/30/2017 @ 14:03
Radon Level :	0.8 pCi/L	Analyzed:	05/31/2017 @ 10:35
Error for Measurement is: ±	0.3 pCi/L		

National Radon Safety Board NRSB Certified Radon Professionals

Andreas C. George
Radon Measurement Specialist
NJ MES 11089

Dante Galan
Laboratory Director

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

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

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

RTCA RADON TESTING CORPORATION OF AMERICA

PC1705300188

Site Radon Inspection Report

Date : 05/30/2017

Mr Kevin McCarthy
TIGHE & BOND
213 Court Street
Suite 1100
Middletown, CT 06457-

Client: Residence
Test Location: 91 Longdean Road
Fairfield, CT 06824-
Individual Canister Results

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/citguide.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
IL RNL2000201

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

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

Page 1 of 1

Instructions: Tear off center bar coded label from detector and affix to sheet in spaces provided. Please make sure top bar code label is left on detector. Record start & stop time, identify test location and indicate if QA measurement for each detector. Use additional sheets as necessary. Please mark clearly if any detector is missing or damaged at retrieval.

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2540288

REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS
2540288

Client
RADON TESTING CORP. OF AMERICA

Start Time: 1022 Stop Time: 754

Room # or other identifier: Basement Floor: _____

Please circle if QA Measurement: Blank Duplicate

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2540256

REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS
2540256

Client
RADON TESTING CORP. OF AMERICA

Start Time: 1022 Stop Time: 754

Room # or other identifier: Basement - D Floor: _____

Please circle if QA Measurement: Blank Duplicate

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2540249

Start Time: 1025 Stop Time: 756

Room # or other identifier: Dining Room Floor: 1st

Please circle if QA Measurement: Blank Duplicate

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2540188

Start Time: 1025 Stop Time: 756

Room # or other identifier: Dining Room-B Floor: 1st

Please circle if QA Measurement: (Blank) Duplicate

Start Time: _____ Stop Time: _____

Room # or other identifier: _____ Floor: _____

Please circle if QA Measurement: Blank Duplicate

Start Time: _____ Stop Time: _____

Room # or other identifier: _____ Floor: _____

Please circle if QA Measurement: Blank Duplicate

Quisenberry Arcari Architects LLC

Residence Rehabilitation
91 Longdean Road
Fairfield, CT

Projected Scope & Magnitude of Cost — January 30, 2017

Scope of Work — ***Magnitude of Cost***

Relocate lower level Mechanical, electrical, Utility/Laundry spaces to main level (accessibility)

The existing first floor of the home is above the existing flood plain. — *$ 135,000.00*

Provide new approximate 10' x 15' addition at the second level to accommodate the relocation of mechanical/utility space from the basement (within the flood zone) to a level (above the flood plain). Relocate existing bathroom if necessary. Measures are to be taken to maintain the existing access to the crawlspace. Relocate existing laundry, electrical service, hot water heater, and all mechanical equipment to the main level and/or second story. Repipe as required. Abate all asbestos contaminated ductwork within basement and main/second story. Remove abandoned vents; patch and repaint as required. Cut hydrostatic relief zones into existing floor slab, install filter fabric and fill with gravel to a level that meets FEMA/NFPI requirements. Install flood vents in accordance with FEMA/NFPI requirements. Patch and repair all areas impacted by construction with matching materials (ex: concrete, roofing, siding).

Miscellaneous Corresponding Improvements

Provide miscellaneous support work required to accommodate the above mentioned improvements — *$ 15,000.00*

Total Projected Magnitude of Cost — $ 150,000.00

Construction estimates are based on a 2017 construction start.
There is no allowance for cost escalation to future years

Clarifications:

This approach will be more cost effective than raising the entire home above the flood zone elevation, providing new foundations and three floors of exterior envelope.

Note:

This project will require updated survey, municipal / zoning approval, wetlands approval, hazardous materials assessment and potential abatement/remediation.

Statement:

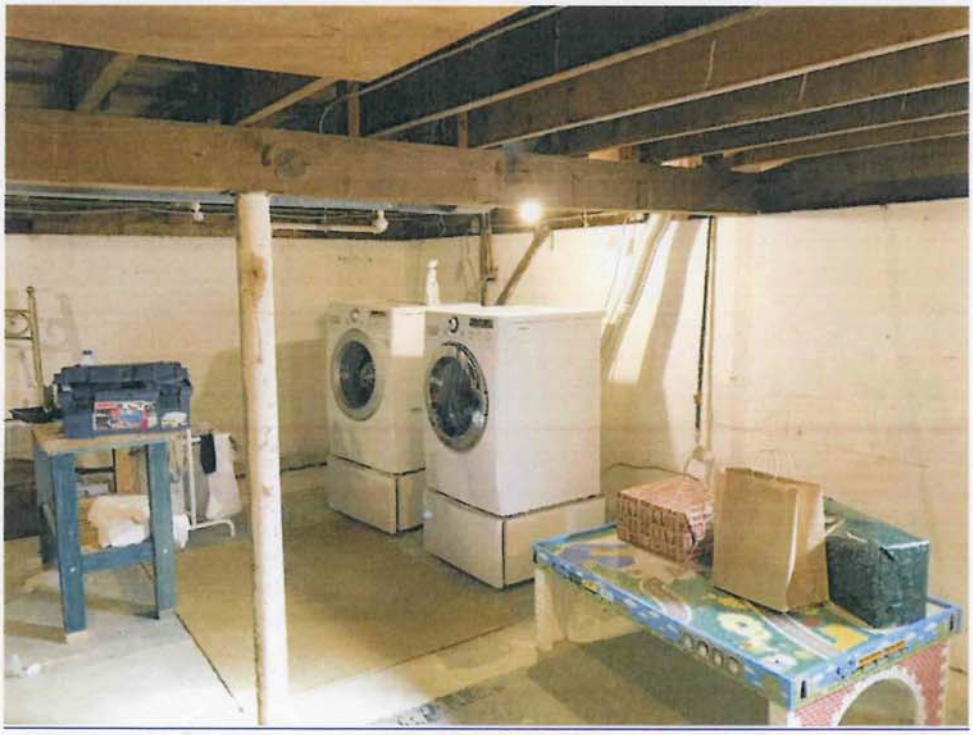
Please be advised it is our team's professional assessment that the above mentioned work is required for the execution of repairs corresponding to the storm event and for the provision of a code complaint residence and the prevention of similar damage caused by future storm conditions.

This assessment was prepared by Mr. Jeff Jahnke, AIA.
If you have any questions, concerns, or require additional clarification regarding this matter, please do not hesitate to call me or email me at jjahnke@qa-architects.com

Photo Documentation

318 Main Street
Farmington, CT 06032

860 677.4594
860 677.8534 Fax



318 Main Street
Farmington, CT 06032

860 677.4594
860 677.8534 Fax

318 Main Street
Farmington, CT 06032

860 677.4594
860 677.8534 Fax

318 Main Street
Farmington, CT 06032

860 677.4594
860 677.8534 Fax

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.

ZONING DATA

Zoning Information -- Zone "B" Residential

STATUS				
ITEM	REQUIRED	EXISTING CONDITION	PROPOSED	AS - BUILT CONDITION
MINIMUM LOT AREA	6,000 S.F.	5,385 S.F.		
MIN. SQUARE ON LOT	60'	60'		
MINIMUM LOT FRONTAGE	60'	60'		
DENSITY- MIN. LOT AREA PER DWELLING UNIT				
ONE FAMILY	6,000 S.F.	5,385 S.F.		
TWO FAMILY				
THREE FAMILY				
FOUR FAMILY				
EACH ADDITIONAL UNIT				
MINIMUM SETBACKS:				
FROM STREET LINE	20'	25.6'		
SIDE PROPERTY LINES	15'	10.6'		
(MORE THAN ONE STORY)	20'	27.2'		
ONE SIDE PROPERTY LINE	5'			
REAR PROPERTY LINE	20'	26.2'		
ONE STREET LINE ON COR. (ONE STORY)	12'			
(MORE THAN ONE STORY)	17'			
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.	1,972 S.F.		
GROUND FLOOR AREA	650 S.F.	986 S.F.		
FLOOR AREA PER APARTMENT	500 S.F.			
MAX. HEIGHT FOR BUILDING	3Z	<3Z		
MAX. NO. STORIES FOR BUILDING	2-1/2	2		
MAX. BLDG LOT COVERAGE (% OF LOT AREA)	20%	18.3%		
MAX. BLDG FLOOR AREA (% OF LOT AREA)	40%	36.8%		
MINIMUM FIRST FLOOR ELEVATION	FIRM FFE= 11'	FFE= 10.7'		

LEGEND

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

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	

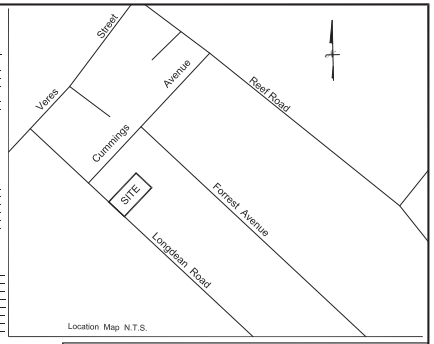
II. COASTAL RESOURCES NOT IMMEDIATELY ADJACENT TO THE SITE, BUT BECAUSE OF DOWNSTREAM LOCATION, OFF-SITE DRAINAGE, TIDAL INFLUENCE, CURRENTS AND OTHER FACTORS, MAY BE IMPACTED BY THE PROPOSED USE/ACTIVITY:

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	

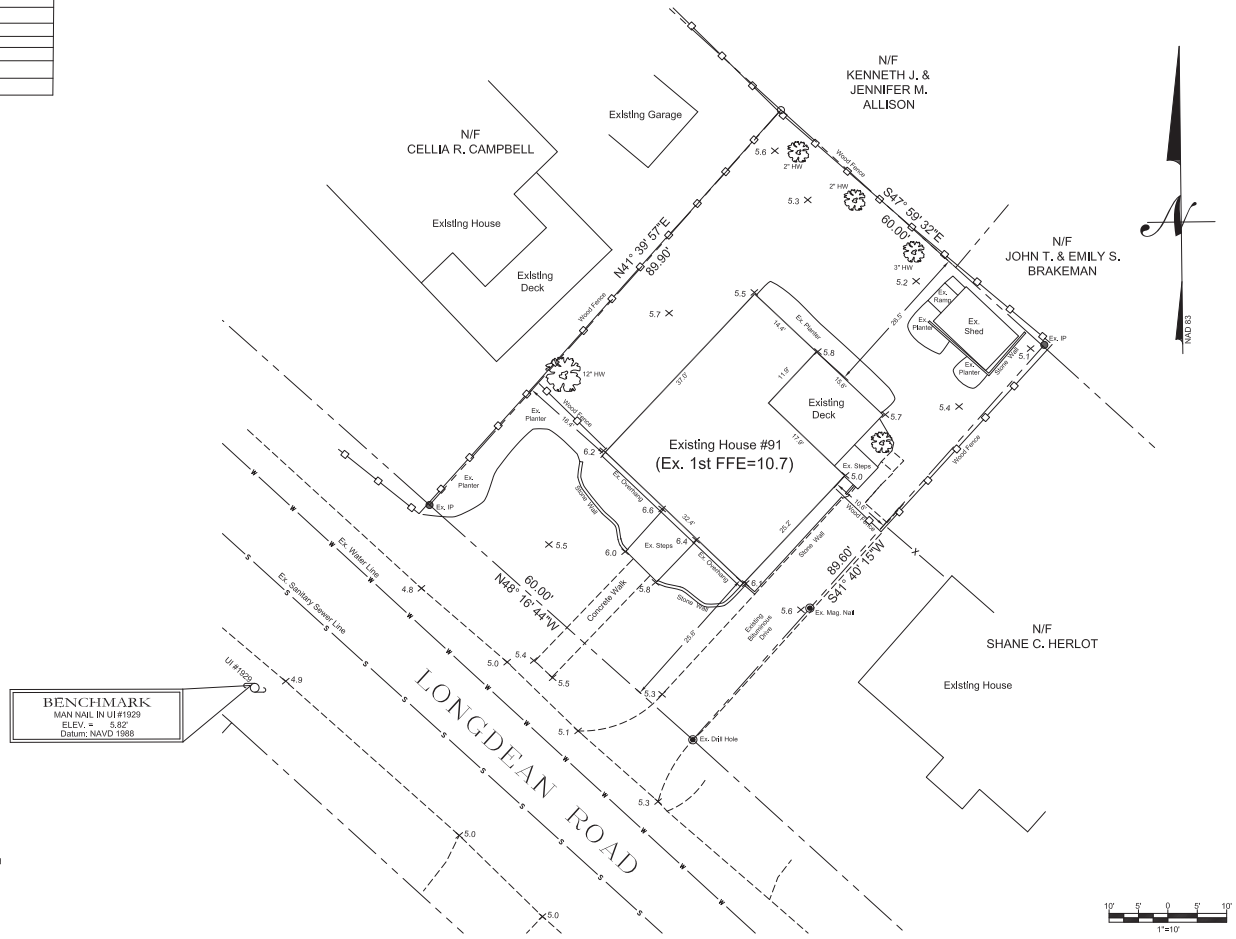
III. THE FOLLOWING COASTAL POLICIES ARE APPLICABLE TO THE USE/ACTIVITY AS PROPOSED:

A. GENERAL DEVELOPMENT	X	I. COATSAL 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



Location Map N.T.S.



10' 5' 0 5' 10'
1"=10'

SURVEY NOTES:

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

2. Type of survey performed: Existing Conditions Survey

3. Boundary determination category: Dependent Resurvey

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

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

6. Map References:

a) 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: 5,385 S.F. / 0.12 Ac.

10. Owner: Matthew K. & Jaime L. Foley

11. Town of Fairfield Assessors Map #183 Lot #207

12. Filed in Volume 4513, Page 327 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 within 250' of the boundaries to the Southwest corner of the property..

16. The subject property is situated in Zone "AE", (Elevation 11.0') which is a "Special Flood Hazard Area" subject to inundation by 1% annual-chance flood event determined by FEMA. The 500 Year Flood Event elevation is 16.25'.(Firm Map 09001C Panel 419 Suffix g/ Effective date of July 8, 2013)

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.

TITLE BLOCK

F.E.M.A. STANDARDS - ONLY IF IN FLOOD HAZARD AREAS

ZONING COMPLIANCE PREDICATED ON A. B. C. & D.

A. All new construction and substantial improvements shall:

1. Be designed or modified and adequately anchored to prevent flotation, collapse, or lateral movement of the structure resulting from hydrodynamic and hydrostatic loads, including effects of buoyancy.
2. Be constructed with materials resistant to flood damage.
3. Be constructed by methods and practice that minimized flood damage.
4. Be constructed with electrical, heating, ventilation, plumbing and air-conditioning equipment and other services facilities that are designed and/or located so as to prevent water from entering or accumulating within the components during conditions of flooding.

B. New and replacement water supply systems shall be designed to minimize or eliminate infiltration of flood waters into the system.

C. New and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of flood waters into the systems and discharges from the system into flood waters and on-site waste disposal systems shall be located and constructed to avoid impairment to them or contamination from them during flooding.

D. All new construction and substantial improvements shall have the lowest floor, including the basement elevated to or above the base flood level and if constructed with a fully enclosed area below this lowest floor shall be designed to automatically equalize hydrostatic flood forces on exterior walls by allowing for entry and exit of flood waters.

TITLE BLOCK

1. STREET ADDRESS: #91 LONGDEAN ROAD

2. ASSESSORS MAP # 183, PARCEL # 207

3. MAP: "B" RESIDENCE DISTRICT

4. APPLICANT: MATTHEW K. & JAIME L. FOLEY
91 LONGDEAN ROAD
FAIRFIELD, CONNECTICUT 06824

5. OWNER: MATTHEW K. & JAIME L. FOLEY
91 LONGDEAN ROAD
FAIRFIELD, CONNECTICUT 06824

6. DESCRIPTIVE TITLE: RENOVATING AN EXISTING TWO STORY ONE FAMILY DWELLING WITH ASSOCIATED STAIRS

7. ORIGINAL DATE OF PLANS AND ANY SUBSEQUENT REVISION DATES LABELED FIRST, SECOND, ETC., AND NOTE THE PURPOSE AND LOCATION OF THE REVISION:
MAY 8, 2017

8. PREPARED BY: JEREMY LOVATO
HARRY E. COLE & SON
876 SOUTH MAIN STREET
PLANTSVILLE, CONNECTICUT 06479
(860) 628-4484

9. To the best of my knowledge and belief these drawings are substantially correct as noted heron.

Stephen M. Giudice, Reg. L.S. #70145