



Department of Economic and
Community Development

Connecticut
still revolutionary

August 11, 2014

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

Subject: 17 Orland Street
Milford, CT

Dear Ms. Delaire:

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

The property located at 17 Orland Street appears to be eligible for listing on the National Register of Historic Places as a contributing resource to a potential historic district.

Your work plan dated 3/25/14, and drawings and specifications dated July 14, 2014 includes repair of the exterior siding and replacement in-kind where necessary, removal and replacement of the rear deck, and elevation of the structure onto piers.

The SHPO has determined that the undertaking as proposed will constitute no adverse effects to historic resources.

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

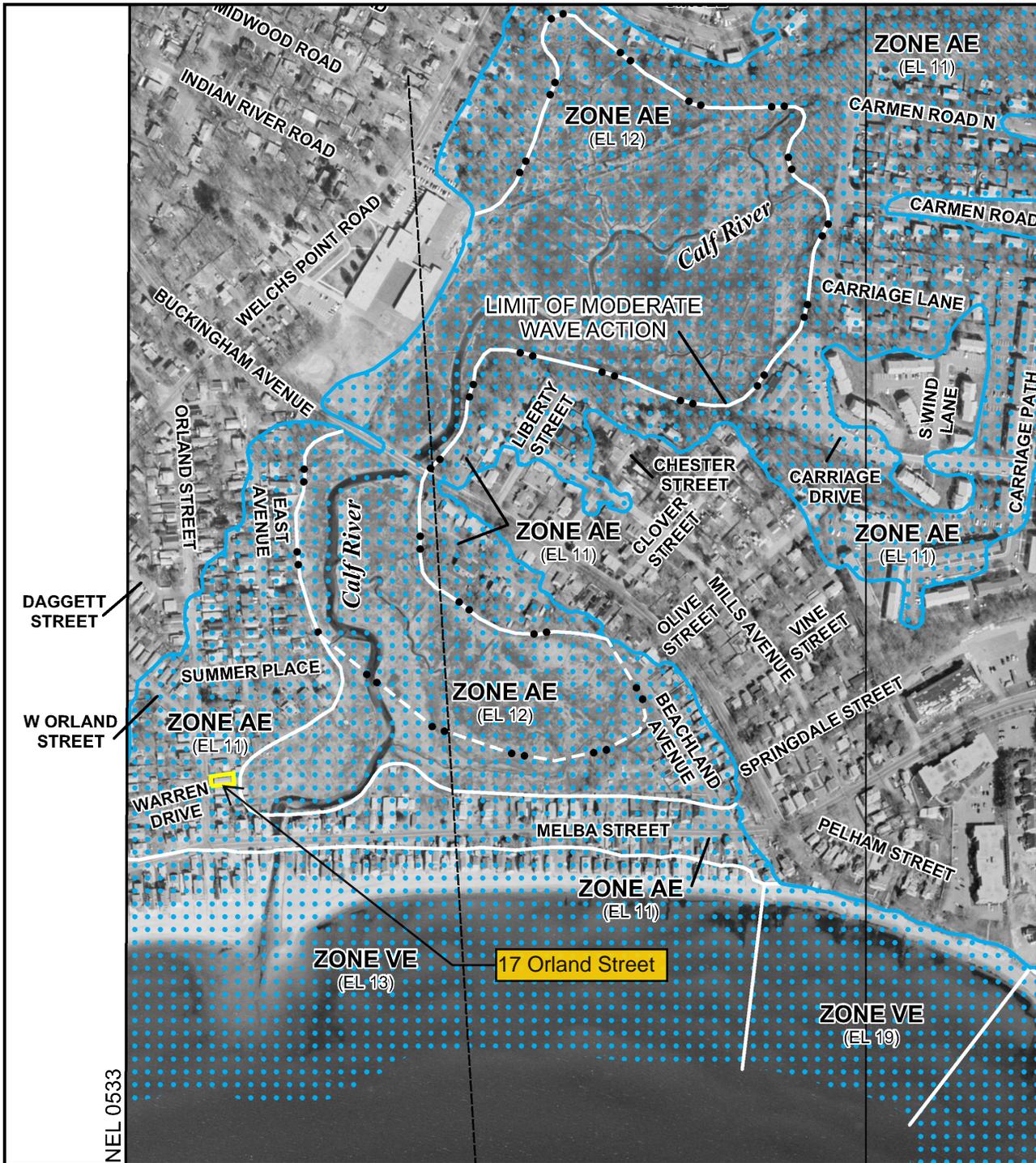
Sincerely,

Mary B. Dunne
Deputy State Historic Preservation Officer

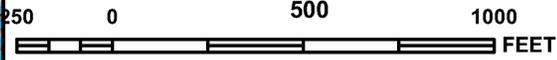
State Historic Preservation Office

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

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MAP SCALE 1" = 500'



PANEL 0534J

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

PANEL 534 OF 635
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
MILFORD, CITY OF	090082	0534	J

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



MAP NUMBER
 09009C0534J
MAP REVISED
 JULY 8, 2013

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



MINIMAL FLOOD HAZARD ZONING



REFERENCE LAYERS

- NFHL Data Available
- FIRM Panel Boundary
- LOMR Boundary

SPECIAL FLOOD HAZARD AREAS

- 1% Annual Chance Flood Hazard Zone A, AE, AH, AO, AP, AR, AS, & VE
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to levee Zone X
- Areas Outside the 0.2% Annual Chance Floodplain Zone X
- Areas of Undetermined Flood Hazard Zone D

NO SCREENS

CROSS SECTIONS & BFES

- M-2 Cross Sections with 1% Annual Chance Water Surface Elevation
- S Coastal Transect
- P Profile Baseline
- W-2 Base Flood Elevation

SUPPORTING INFORMATION

- Limit of Study
- Jurisdictional Boundary

Zone AE (EL 12 Feet)

Zone AE (EL 11 Feet)

Zone VE (EL 13 Feet)

17 Orland St, Milford, CT 06460, USA

478 ft

©2013 Google

Google earth



U.S. Fish and Wildlife Service
National Wetlands Inventory

17 Orland Street,
Milford CT

May 7, 2014

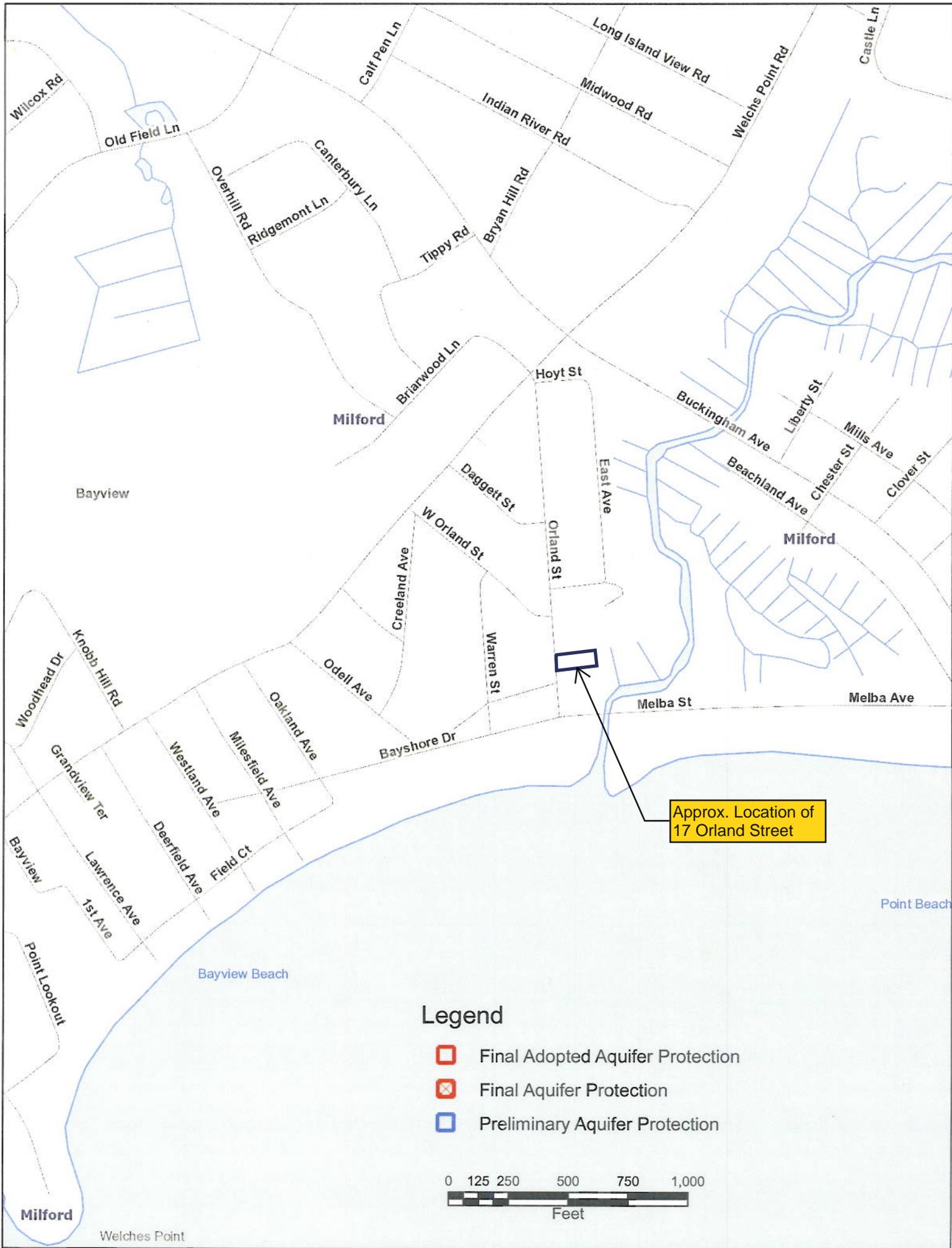


Wetlands

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

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

User Remarks:





United States Department of the Interior



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

Consultation Tracking Number: 05E1NE00-2014-SLI-0379

June 05, 2014

Project Name: DOH 1065

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: DOH 1065

Official Species List

Provided by:

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

Consultation Tracking Number: 05E1NE00-2014-SLI-0379

Project Type: ** Other **

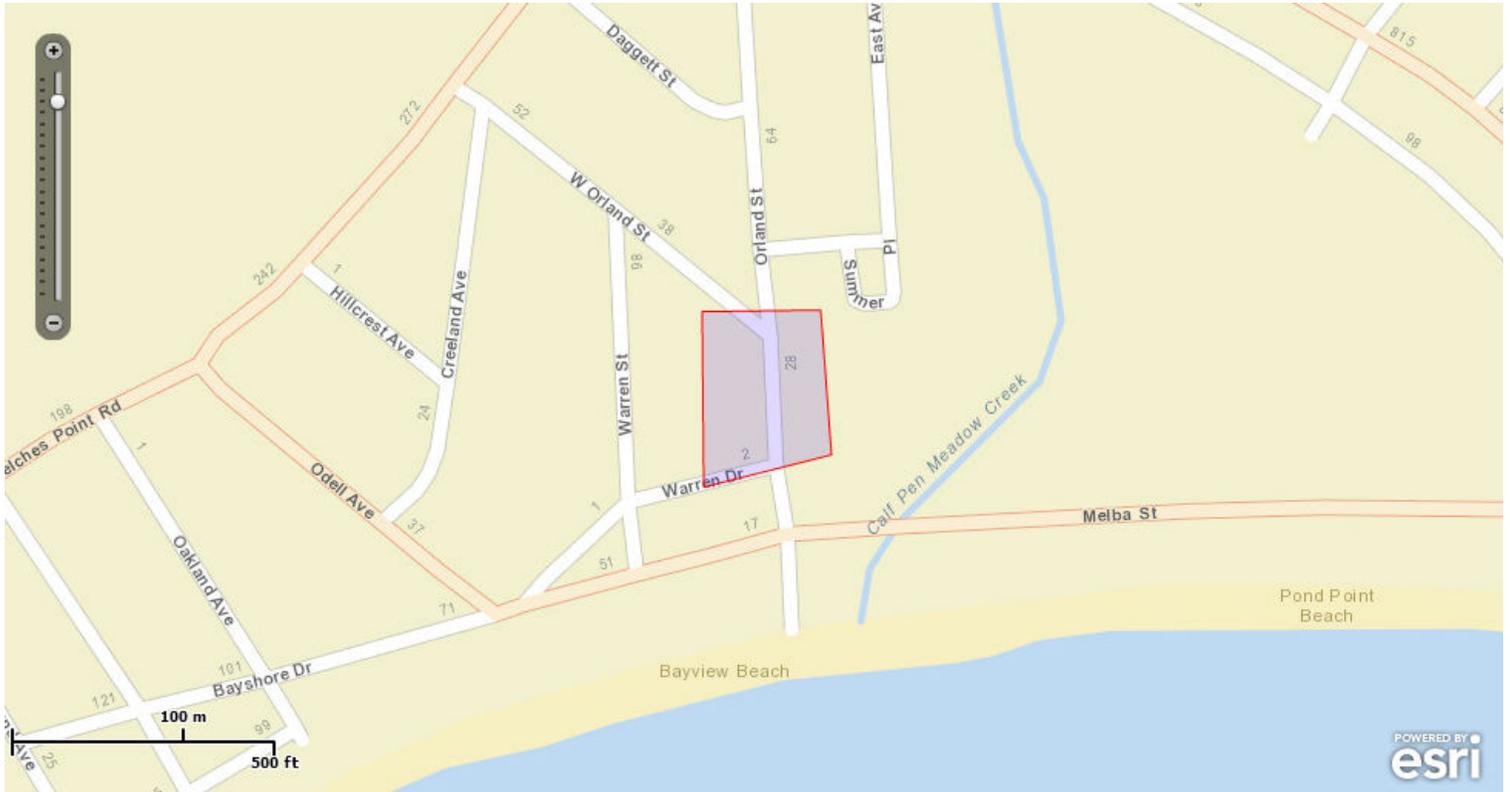
Project Description: 17 Orland Street
Milford Ct



United States Department of Interior
Fish and Wildlife Service

Project name: DOH 1065

Project Location Map:



Project Coordinates: MULTIPOLYGON (((-73.0308357 41.2082371, -73.0308464 41.2091576, -73.0300203 41.2091657, -73.0299452 41.208407, -73.0308357 41.2082371)))

Project Counties: New Haven, CT



United States Department of Interior
Fish and Wildlife Service

Project name: DOH 1065

Endangered Species Act Species List

There are a total of 1 threatened, endangered, or candidate species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed on the **Has Critical Habitat** lines may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Roseate tern (*Sterna dougallii dougallii*)

Population: northeast U.S. nesting pop.

Listing Status: Endangered



United States Department of Interior
Fish and Wildlife Service

Project name: DOH 1065

Critical habitats that lie within your project area

There are no critical habitats within your project area.



United States Department of the Interior



FISH AND WILDLIFE SERVICE

New England Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5087
<http://www.fws.gov/newengland>

January 7, 2014

To Whom It May Concern:

This project was reviewed for the presence of federally listed or proposed, threatened or endangered species or critical habitat per instructions provided on the U.S. Fish and Wildlife Service's New England Field Office website:

<http://www.fws.gov/newengland/EndangeredSpec-Consultation.htm>

Based on information currently available to us, no federally listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation with us under section 7 of the Endangered Species Act is not required. No further Endangered Species Act coordination is necessary for a period of one year from the date of this letter, unless additional information on listed or proposed species becomes available.

Thank you for your cooperation. Please contact Maria Tur of this office at 603-223-2541 if we can be of further assistance.

Sincerely yours,

Thomas R. Chapman
Supervisor
New England Field Office



Milford Fire Rescue

EMS/Safety/Hazmat



**To: Thomas Ivers, CDBG Coordinator
Community Development**

From: Captain Christopher Waiksnoris

Date: April 28, 2014

Subject: Thermal/Explosive/Toxic Hazards

Mr. Ivers,

A review of Milford Fire Department record and site review indicate there are no conditions present that would subject the above listed property to any foreseeable Thermal/Explosive/Toxic Hazard.

This information is provided only for the propose of the United States Department of Housing and Development to approve and fund a Community Development Block Grant application for the property listed as 17 Orland St. This information may not be relied upon by any other person or organizations other than the United States Department of Housing and Urban Development.

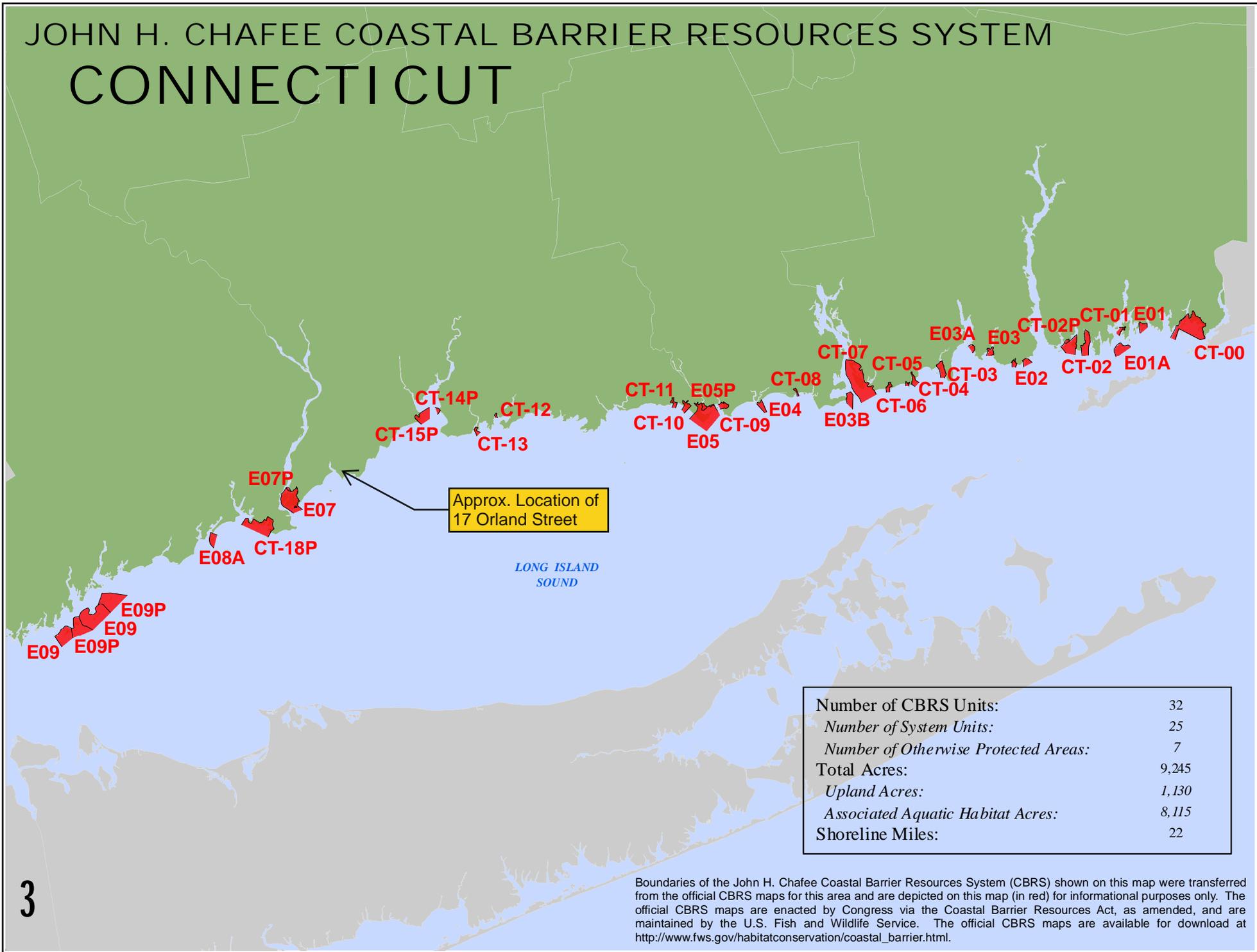
If you have any questions please feel free to contact me.

Thank You

Captain Waiksnoris

Milford Fire Department
EMS HAZMAT SAFETY OFFICER
72 New Haven Ave
Milford Ct 06460
(203)783-3750
(203)996-2148

JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM CONNECTICUT





April 1, 2014

**Amaya Architects
284 Racebrook Rd
Orange, CT 06477**

Attn: Rafael Amaya

RE: Hazardous Building Materials Survey for Proposed Renovations
Location: 17 Orland St, Milford, CT
LEA Comm. No. 01MH4.03

Dear Mr. Amaya:

In accordance with our proposal, Loureiro Engineering Associates, Inc (LEA) conducted bulk material sampling and analysis of accessible suspect asbestos-containing materials (ACM's), lead-based paint testing and mold inspection in the dwelling located at 17 Orland St, Milford, Connecticut. The purpose of the bulk sampling and analysis was to sample suspect materials prior to the proposed renovation of the site structure.

Please refer to Appendix A through D for analytical results and chain of custody forms.

If you have any questions as you review the report, please contact me at 860-410-2945.

Sincerely,

LOUREIRO ENGINEERING ASSOCIATES, INC.

A handwritten signature in black ink, appearing to read "Brett Nicholas".

Brett Nicholas
Industrial Hygienist

A handwritten signature in black ink, appearing to read "Jamie Roche".

Jamie Roche
Director, Environmental Services

Enclosures:

- Appendix A Asbestos Laboratory Analysis Data
- Appendix B Mold Laboratory Results
- Appendix C Staff and Laboratory Certifications
- Appendix D Pertinent Site Photos

1.00 INTRODUCTION

1.1 Purpose

LEA was retained by Amaya Architects to conduct bulk material sampling and analysis of accessible suspect asbestos-containing materials (ACM's), test surfaces for lead-based paint and conduct mold testing in the dwelling as needed that may be impacted by the proposed renovation of said dwelling. The Asbestos inspection was completed in accordance with the Environmental Protection Agency (EPA) National Emissions Standards for Hazardous Air Pollutants (NESHAPS) 40 CFR part 61.

1.2 Special Terms and Conditions

LEA was contracted to perform an investigative survey of all accessible interior and exterior spaces. These areas included the living spaces, attic, basement, porches, exterior areas and roof. Inaccessible areas were generally identified as above or behind documented finish materials. Estimated quantities and approximate locations of ACM's as presented were based on the visual observations at the time of the survey. Visual observations were made to determine ACM quantities. Every attempt was made to locate all suspect materials. However, additional materials may be discovered above hard ceilings or behind walls during demolition or renovation. LEA performed limited destructive investigation for verification of any additional suspect materials.

2.0 ASBESTOS INVESTIGATIVE SURVEY

2.1 General Summary

The following asbestos survey section presents the survey results, methods, and conclusions based on survey findings. A summary of material descriptions, locations and quantities are presented in Table 1, below. Laboratory results are found in Appendix A.

2.2 Methodology

As required by the U.S. Occupational Safety & Health Administration (OSHA), the U.S. Environmental Protection Agency (EPA), and the State of Connecticut Department of Public Health (DPH), sampling was performed by an EPA AHERA-accredited and DPH-certified asbestos inspector (see Appendix C). Sampling was done in a manner to prevent airborne fiber release. Samples were placed in appropriately labeled containers that were sealed and submitted to the laboratory for analysis. The samples were submitted for petrographic analysis using the EPA-endorsed Polarized Light Microscopy with Dispersion Staining (PLM/DS) method. The percentage of asbestos present in each sample was determined by the visual area estimation technique.

Samples were collected using a wet technique to prevent airborne fiber release. Each suspect material was sampled using a knife to cut through its entire thickness to ensure that a complete cross section was obtained. The sample was then placed in an appropriately labeled container, which was sealed and submitted to the laboratory for analysis.

Samples were submitted for petrography analysis using the EPA-endorsed Polarized Light Microscopy with Dispersion Staining (PLM/DS) method. The percentage of asbestos present in each sample was determined by the visual area estimation technique.

2.3 Results of Sampling and Analysis for Asbestos

The table below illustrates each type of suspect asbestos-containing material identified, whether the materials are classified as ACM or not ACM based upon the analytical results and the bulk sample chain of custody forms:

Table 1 – ACM Summary

Sample	Description	Location	Quantity	Results
1a,b,c	Sheetrock	1 st Floor	N/A	Non-Detect
2a,b,c	Joint Compound	1 st Floor	N/A	Non-Detect
3a,b,c	Door Window Glazing	Front Entry Door	N/A	Non-Detect
4a,b,c	Mastic on Hardwood Floor	East Bedroom	N/A	Non-Detect
5a,b,c	Hexagonal Ceramic Tile Grout	Bathroom	N/A	Non-Detect
6a,b,c	Tar Paper Backing on Fiberglass Batting	Attic	N/A	Non-Detect
7a,b,c	Tar Paper	East Attic Wall	N/A	Non-Detect
8a,b,c	Fiberboard Paneling	Front Room	N/A	Non-Detect
9a,b,c	Sheetrock Joint Tape	1 st Floor	N/A	Non-Detect
10a,b,c	Light Grey Asphalt Roof Shingle (Top)	Roof	N/A	Non-Detect
11a,b,c	Dark Grey Asphalt Roof Shingle (Bottom)	Roof	N/A	Non-Detect
12a,b,c	Original Basement Window Glazing	Basement	N/A	Non-Detect

Please refer to the Appendices specific to each building on the site. Laboratory results and chain of custody forms are included.

3.0 LEAD-BASED PAINT SURVEY

The Lead-based paint survey was conducted with an XRF direct reading instrument in accordance with the Department of Housing & Urban Development (HUD) testing guidelines. These protocols were developed for residential or day care facilities and were adopted by the Connecticut Childhood Lead Poisoning Prevention Regulations (CLPPR). The Lead-paint reports were prepared using the CLPPR threshold of 1 mg/cm². Although most surface paints are reported as below the threshold of 1.0 mg/cm², the instrument recorded a result that indicates lead was present in limited locations but below the CLPPR threshold of 1.0. mg/cm².

The State of Connecticut and the U.S. Department of Housing and Urban Development (HUD) have developed technical guidelines for testing, abatement, cleanup, and disposal of lead-based paint in specific types of buildings such as public and Indian housing, and locations where children below the age of six years old reside. These guidelines define the regulated level of lead paint (Toxic Level of Lead) as paint containing greater than 1.0 milligrams lead per square centimeter (mg/cm^2) of surface as measured on-site by an X-ray fluorescent analyzer or more than 0.50 percent lead by dry weight as measured by Atomic Absorption Spectrometry (AAS).

For the purposes of this report, all paints containing detectable amounts of lead are considered lead-based paints. This action is taken because OSHA regulates lead in construction based on airborne exposures and it cannot be ensured that lead paint with concentrations of lead less than $1.0 \text{ mg}/\text{cm}^2$ or 0.50% mass will not result in exposures exceeding the OSHA standard.

The table 2 illustrates confirmed locations with detectable amounts of lead:

Table 2 – Lead Paint - XRF Results

Room / Area	Component	Side	Paint Color	Substrate (Condition)	Results (mg/cm^2)
Front Room	Wall	North	Beige	Paneling (Warped)	0.0
Front Room	Wall	South	Beige	Paneling (Warped)	0.0
Front Room	Wall	East	Beige	Paneling (Warped)	0.0
Front Room	Wall	West	Beige	Paneling (Warped)	0.0
Front Room	Ceiling	North	White	Wood (Intact)	0.68
Front Room	Window Trim / Sill	North	White	Wood (Intact)	3.3
Front Room	Window Trim / Sill	South	White	Wood (Intact)	2.87
Front Room	Entry Door	Interior	White	Wood (Intact)	0.0
Front Room	Entry Door	Exterior	Aquamarine	Wood (Intact)	0.0
Front Room	Entry Door Jamb	-	White	Wood (Intact)	0.0
Front Room	Ceiling	-	White	Wood (Intact)	0.68

Front Room	Baseboard	North	White	Wood (Intact)	0.0
Front Room	Baseboard	West	White	Wood (Intact)	0.0
Front Room	Baseboard	South	White	Wood (Intact)	0.0
Front Room	Baseboard	East	White	Wood (Intact)	0.0
Dining Room	Wall	North	Green	Sheetrock (Intact)	0.0
Dining Room	Wall	South	Green	Sheetrock (Intact)	0.0
Dining Room	Baseboard	North	White	Wood (Intact)	0.0
Dining Room	Baseboard	South	White	Wood (Intact)	0.0
Dining Room	Window Frame	South	White	Wood (Intact)	3.83
Dining Room	Window Sill	South	White	Wood (Intact)	2.51
Dining Room	Ceiling	-	White	Wood (Intact)	0.81
Dining Room	Bead Board Wall (at Electrical Panel)	South	Green	Paneling (Warped)	0.36
North Bedroom	Wall	North	Blue	Sheetrock (Intact)	0.0
North Bedroom	Wall	West	Blue	Sheetrock (Intact)	0.0
North Bedroom	Wall	South	Blue	Sheetrock (Intact)	0.0
North Bedroom	Wall	East	Blue	Sheetrock (Intact)	0.0
North Bedroom	Baseboard	North	White	Wood (Intact)	0.0
North Bedroom	Baseboard	West	White	Wood (Intact)	0.0
North Bedroom	Baseboard	South	White	Wood (Intact)	0.0
North Bedroom	Baseboard	East	White	Wood (Intact)	0.0

North Bedroom	Ceiling	-	White	Wood (Intact)	1.16
North Bedroom	Window Frame	North	White	Wood (Intact)	1.46
North Bedroom	Window Sill	North	White	Wood (Intact)	2.47
North Bedroom	Closet Door	East	White	Wood (Intact)	0.0
North Bedroom	Closet Door Frame	East	White	Wood (Intact)	0.0
North Bedroom	Entry Door	South	White	Wood (Intact)	0.0
North Bedroom	Entry Door Jamb	South	White	Wood (Intact)	0.0
Northeast Bedroom	Wall	North	Grey	Sheetrock (Intact)	0.0
Northeast Bedroom	Wall	West	Grey	Sheetrock (Intact)	0.0
Northeast Bedroom	Wall	South	Grey	Sheetrock (Intact)	0.0
Northeast Bedroom	Wall	East	Grey	Sheetrock (Intact)	0.0
Northeast Bedroom	Baseboard	North	White	Wood (Intact)	0.0
Northeast Bedroom	Baseboard	West	White	Wood (Intact)	0.0
Northeast Bedroom	Baseboard	South	White	Wood (Intact)	0.0
Northeast Bedroom	Baseboard	East	White	Wood (Intact)	0.0
Northeast Bedroom	Ceiling	-	White	Wood (Intact)	1.06
Northeast Bedroom	Window Frame	North	White	Wood (Intact)	1.74
Northeast Bedroom	Window Sill	North	White	Wood (Intact)	1.91
Northeast Bedroom	Window Frame	East	White	Wood (Intact)	1.78
Northeast Bedroom	Window Sill	East	White	Wood (Intact)	2.27

Northeast Bedroom	Closet Frame	West	White	Wood (Intact)	0.0
Northeast Bedroom	Entry Door	South	White	Wood (Intact)	0.0
Northeast Bedroom	Entry Door Jamb	South	White	Wood (Intact)	0.0
Bathroom	Wall	North	Grey	Sheetrock (Intact)	0.0
Bathroom	Wall	West	Grey	Sheetrock (Intact)	0.0
Bathroom	Wall	South	Grey	Sheetrock (Intact)	0.0
Bathroom	Wall	East	Grey	Sheetrock (Intact)	0.0
Bathroom	Wainscoting	-	White	Wood (Intact)	0.0
Bathroom	Door	North	White	Wood (Intact)	0.0
Bathroom	Door Jamb	North	White	Wood (Intact)	0.0
Bathroom	Ceiling	-	White	Wood (Intact)	1.78
Kitchen & Rear Hallway	Wall	North	Beige	Sheetrock (Intact)	0.0
Kitchen & Rear Hallway	Wall	West	Beige	Sheetrock (Intact)	0.0
Kitchen & Rear Hallway	Wall	South	Beige	Sheetrock (Intact)	0.0
Kitchen & Rear Hallway	Wall	East	Beige	Sheetrock (Intact)	0.0
Kitchen & Rear Hallway	Wainscoting	-	White	Wood (Intact)	0.0
Kitchen & Rear Hallway	Ceiling	-	White	Wood (Intact)	1.27
Kitchen & Rear Hallway	Baseboard	North	White	Wood (Intact)	0.0
Kitchen & Rear Hallway	Baseboard	West	White	Wood (Intact)	0.0
Kitchen & Rear Hallway	Baseboard	South	White	Wood (Intact)	0.0

Kitchen & Rear Hallway	Baseboard	East	White	Wood (Intact)	0.0
Kitchen & Rear Hallway	Rear French Door	-	White	Wood (Intact)	0.0
Kitchen & Rear Hallway	Window Frame	-	White	Wood (Intact)	0.0
Rear Porch	Floor	-	Grey	Concrete (Intact)	0.0
Rear Porch	Panel Wall	-	White	Wood (Intact)	0.0
Rear Porch	OSB Wall	-	White	Wood (Intact)	0.0
Rear Porch	Ceiling	-	White	Wood (Intact)	>4.78
Rear Porch	Entry Door Jamb	-	White	Wood (Intact)	>5
Rear Porch	Steps	-	Grey	Concrete (Intact)	0.0
Rear Porch	Siding	West	White	Wood (Intact)	>5
Front Porch	Bead Board	-	White	Wood (Intact)	>5
Front Porch	Columns	-	White	Wood (Intact)	2.42
Front Porch	Headers	-	White	Wood (Intact)	>5
Front Porch	Siding	-	Grey	Wood (Intact)	>5
Front Porch	Shutters	-	Blue / Green	Wood (Intact)	0.0
Front Porch	Ceiling	-	Light Blue	Wood (Intact)	>3.12
Front Porch	Rail	North	White	Wood (Intact)	0.0
Front Porch	Rail	South	White	Wood (Intact)	0.0
Front Porch	Eaves	-	White	Wood (Intact)	>5
Front Porch	Steps	-	Grey	Concrete (Intact)	0.0

Exterior	Siding	East	Grey	Wood (Intact)	>5
Exterior	Trim	East	White	Wood (Intact)	>3.12
Exterior	Siding	West	Grey	Wood (Intact)	>5
Exterior	Trim	West	White	Wood (Intact)	>4.42

4.0 MOLD

LEA observed water damage and mold growths on the wall paneling of the front room, kitchen cabinets and floor joists in the basement of the dwelling. The visually impacted surfaces were swab sampled and analyzed via direct microscopic examination in order to determine mold type and relative concentration of the mold. The samples were labeled and delivered with a Chain of Custody to EMSL, which is located in Cinnaminson, NJ. The samples were analyzed by direct examination optical microscopy for mold species identification and quantification. EMSL is an AIHA approved Laboratory.

Laboratory testing confirmed the presence of *Penicillium* and *Cladosporium* molds ranging from low to high concentrations on surfaces. Hyphal or fruiting structures were also present indicating active mold colonies. These mold types along with the presence of hyphal structures, indicates that continued mold growth is likely. *Cladosporium* molds have been reported to cause infections of the skin, as well as sinusitis and pulmonary infections. *Penicillium* type mold is often associated with buildings having water or moisture problems. Microbiological growth can produce offensive odors and can produce upper respiratory allergy-like symptoms if it is disturbed and the spores inhaled.

REPORT LIMITATIONS CRITERIA

Information contained in this report is based on site observations, sample results relevant to the scope of work for this survey. Conclusions of this report are based on the survey, study, and/or investigation. This is not to be interpreted as a complete compilation of all existing information pertaining to the site conditions.

It should be noted that site conditions observed during this investigation may change based on any number of influencing factors and/or environmental variables such as fluctuations in indoor and outdoor temperatures, humidity and seasonal changes in sunlight. These factors can influence the spread and concentration of molds as they change. The attached report and analytical data materials are not intended to guarantee that the investigated site is, or is not, free from conditions, which could pose a threat or hazard to human health or safety. Should further research on the site be conducted, any additional data should be submitted to LEA for review and revisions as necessary.

This report is intended for the sole use of the Client, and may not be used or relied upon by others without the written consent of the Client. The scope of work conducted in performing this service for the Client may not be appropriate to satisfy the needs of other Parties, and the use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user.

The criteria used to evaluate the survey results includes, but is not limited to, guidelines recommended by the:

- American Conference of Governmental Industrial; Hygienists (ACGIH);
- The American Society for Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE);
- The U.S. Environmental Protection Agency (EPA);
- The American Industrial Hygiene Association (AIHA);
- The American Indoor Air Quality Council (AIAQC);
- Indoor Environmental Standards Organization (IESO);
- The Institute of Inspection Cleaning and Restoration Certification (IICRC);
- The National Air Duct Cleaners Association (NADCA);
- The New York City Department of Health; and,

Any comments and/or questions in regards this report should be directed to Loureiro Engineering.

Table 4 – Mold Summary Results

Sample No. / Location	Fungi Detected	Fungi Concentration	Comments
Sample 1 Front Room	Penicillium Cladosporium	Low High	*Active Colonies *Active Colonies
Sample 2 Kitchen Cabinets	Penicillium Cladosporium	High High	*Active Colonies *Active Colonies
Sample 3 Basement Floor Joists	Penicillium Cladosporium	Medium High	*Active Colonies *Active Colonies

7.0 RECOMMENDATIONS

In accordance with the OSHA regulations (29 CFR Part 1926.1101 and 1910.1001), all potential contractors bidding on work must first be informed of the results of this survey. In addition, notification regarding the presence of the ACM must be provided to all employees and tenants who occupy an area containing ACM.

All materials identified as negative for asbestos may be removed at will and disposed of as standard construction debris as long as they do not impact or disturb identified asbestos materials.

Per the HUD and Connecticut regulations Toxic Levels of lead-paint (>1.0 mg/cm²) were identified in the dwelling tested. Measurable levels of lead were detected in painted surfaces. OSHA regulations prohibit dry scraping or sanding that may generate lead emissions. Loureiro recommends wet sanding or the use of local exhaust ventilation with High Efficiency Particulate Air (HEPA) filtration during preparation procedures prior to repainting.

Lead-Painted Components	Quantity	Per unit abatement cost estimate	Total Abatement Cost
Ceiling	940 S.F.	\$5 / S.F.	\$4,700
Siding	780 S.F.	\$6 / S.F.	\$4,680
Front Porch Components	200 S.F.	\$6 / S.F.	\$1,200
Window & Door Trim / Units	14	\$100 each	\$1,400
Consulting Fees			\$1,200
		TOTAL	\$13,180

LEA recommends contracting a qualified mold remediation contractor to remove all mold affected surfaces and treatment of structural studs, joists, headers, etc. prior to renovations.

Mold Contaminated Components	Quantity	Per unit abatement cost estimate	Total Abatement Cost
Basement (Floor Joists)	940 S.F.	\$8	\$7,520
Kitchen Cabinets	50 S.F.	\$8	\$400
Wall Paneling	400 S.F.	\$8	\$3,200
Consulting Fees at 20%			\$2,224
		TOTAL	\$13,344

Appendix A

Asbestos Laboratory Analysis Data

**EMSL Analytical, Inc.**

29 North Plains Highway, Unit # 4, Wallingford, CT 06492

Phone/Fax: 203-284-5948 / (203) 284-5978

<http://www.EMSL.com>wallingfordlab@emsl.com

EMSL Order:	241400900
CustomerID:	LOUR62
CustomerPO:	
ProjectID:	

Attn: **Jamie Roche**
Loureiro Engineering Associates, Inc.
100 Northwest Drive
Plainville, CT 06062

Phone: (860) 747-6181
 Fax: (860) 747-8822
 Received: 03/14/14 10:30 AM
 Analysis Date: 3/19/2014
 Collected: 3/13/2014

Project: **01MH4.03 (17 ORLAND)**

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
031314-1A 241400900-0001	1st floor - sheetrock	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
031314-1B 241400900-0002	1st floor - sheetrock	Gray Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (other)	None Detected
031314-1C 241400900-0003	1st floor - sheetrock	Gray Fibrous Homogeneous	2% Cellulose	20% Gypsum 78% Non-fibrous (other)	None Detected
031314-2A 241400900-0004	1st floor - joint compound	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
031314-2B 241400900-0005	1st floor - joint compound	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
031314-2C 241400900-0006	1st floor - joint compound	White Non-Fibrous Homogeneous	<1% Cellulose	35% Ca Carbonate 65% Non-fibrous (other)	None Detected
031314-3A 241400900-0007	1st floor- front entry door - door window glazing	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
031314-3B 241400900-0008	1st floor- front entry door - door window glazing	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Edward Leary (13)

Renaldo Drakes (11)

Kristin Lopez (12)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0.

Initial report from 03/19/2014 12:09:46



EMSL Analytical, Inc.

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EMSL Order: 241400900
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Phone: (860) 747-6181
Fax: (860) 747-8822
Received: 03/14/14 10:30 AM
Analysis Date: 3/19/2014
Collected: 3/13/2014

Project: **01MH4.03 (17 ORLAND)**

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
031314-3C 241400900-0009	1st floor- front entry door - door window glazing	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
031314-4A 241400900-0010	East bedroom - mastic on hardwood floor	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
031314-4B 241400900-0011	East bedroom - mastic on hardwood floor	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
031314-4C 241400900-0012	East bedroom - mastic on hardwood floor	Brown Non-Fibrous Homogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	None Detected
031314-5A 241400900-0013	Bathroom - hexagonal ceramic tile grout	Gray Non-Fibrous Homogeneous		20% Quartz 15% Ca Carbonate 65% Non-fibrous (other)	None Detected
031314-5B 241400900-0014	Bathroom - hexagonal ceramic tile grout	Gray Non-Fibrous Homogeneous		30% Quartz 15% Ca Carbonate 55% Non-fibrous (other)	None Detected
031314-5C 241400900-0015	Bathroom - hexagonal ceramic tile grout	Gray Non-Fibrous Homogeneous		45% Quartz 30% Ca Carbonate 25% Non-fibrous (other)	None Detected
031314-6A 241400900-0016	Attic - tar paper backing on fiberglass batting	Brown/Black Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected

Analyst(s)
Edward Leary (13) Renaldo Drakes (11)
Kristin Lopez (12)


Gloria V. Oriol, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0.

Initial report from 03/19/2014 12:09:46

**EMSL Analytical, Inc.**

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EMSL Order: 241400900

CustomerID: LOUR62

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Attn: **Jamie Roche**
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100 Northwest Drive
Plainville, CT 06062

Phone: (860) 747-6181
 Fax: (860) 747-8822
 Received: 03/14/14 10:30 AM
 Analysis Date: 3/19/2014
 Collected: 3/13/2014

Project: **01MH4.03 (17 ORLAND)**

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
031314-6B 241400900-0017	Attic - tar paper backing on fiberglass batting	Brown/Black Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (other)	None Detected
031314-6C 241400900-0018	Attic - tar paper backing on fiberglass batting	Brown/Black Fibrous Homogeneous	85% Cellulose <1% Glass	15% Non-fibrous (other)	None Detected
031314-7A 241400900-0019	East attic wall - tar paper	Black Fibrous Homogeneous	55% Cellulose	45% Non-fibrous (other)	None Detected
031314-7B 241400900-0020	East attic wall - tar paper	Black Fibrous Homogeneous	45% Cellulose	55% Non-fibrous (other)	None Detected
031314-7C 241400900-0021	East attic wall - tar paper	Black Non-Fibrous Homogeneous	65% Cellulose <1% Glass	35% Non-fibrous (other)	None Detected
031314-8A 241400900-0022	1st floor front room - fiberboard paneling	Tan Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (other)	None Detected
031314-8B 241400900-0023	1st floor front room - fiberboard paneling	Tan Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (other)	None Detected
031314-8C 241400900-0024	1st floor front room - fiberboard paneling	Brown Non-Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (other)	None Detected

Analyst(s)

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Renaldo Drakes (11)

Kristin Lopez (12)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0.

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Phone: (860) 747-6181
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 Received: 03/14/14 10:30 AM
 Analysis Date: 3/19/2014
 Collected: 3/13/2014

Project: **01MH4.03 (17 ORLAND)**

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
031314-9A 241400900-0025	1st floor - sheetrock joint tape	White Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (other)	None Detected
031314-9B 241400900-0026	1st floor - sheetrock joint tape	White Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (other)	None Detected
031314-9C 241400900-0027	1st floor - sheetrock joint tape	White Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (other)	None Detected
031314-10A 241400900-0028	Roof - light grey asphalt shingle (top)	Gray/Black Fibrous Homogeneous	12% Glass	15% Ca Carbonate 73% Non-fibrous (other)	None Detected
031314-10B 241400900-0029	Roof - light grey asphalt shingle (top)	Gray/Black Fibrous Homogeneous	13% Glass <1% Cellulose	15% Ca Carbonate 72% Non-fibrous (other)	None Detected
031314-10C 241400900-0030	Roof - light grey asphalt shingle (top)	Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (other)	None Detected
031314-11A 241400900-0031	Roof - dark grey asphalt shingle (bottom)	Black Fibrous Homogeneous	10% Glass	5% Quartz 10% Ca Carbonate 75% Non-fibrous (other)	None Detected
031314-11B 241400900-0032	Roof - dark grey asphalt shingle (bottom)	Black Fibrous Homogeneous	12% Glass	5% Quartz 10% Ca Carbonate 73% Non-fibrous (other)	None Detected

Analyst(s)

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Gloria V. Oriol, Laboratory Manager
or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0.

Initial report from 03/19/2014 12:09:46

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<http://www.EMSL.com> wallingfordlab@emsl.com

EMSL Order: 241400900
 CustomerID: LOUR62
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 ProjectID:

Attn: **Jamie Roche**
Loureiro Engineering Associates, Inc.
100 Northwest Drive
Plainville, CT 06062

Phone: (860) 747-6181
 Fax: (860) 747-8822
 Received: 03/14/14 10:30 AM
 Analysis Date: 3/19/2014
 Collected: 3/13/2014

Project: **01MH4.03 (17 ORLAND)**

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
031314-11C 241400900-0033	Roof - dark grey asphalt shingle (bottom)	Gray/Black Fibrous Homogeneous	10% Glass	15% Ca Carbonate 75% Non-fibrous (other)	None Detected
031314-12A 241400900-0034	Basement - original basement window glazing	Tan Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
031314-12B 241400900-0035	Basement - original basement window glazing	Tan Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (other)	None Detected
031314-12C 241400900-0036	Basement - original basement window glazing	Tan Non-Fibrous Homogeneous	<1% Cellulose	15% Ca Carbonate 85% Non-fibrous (other)	None Detected

Analyst(s)
 Edward Leary (13) Renaldo Drakes (11)
 Kristin Lopez (12)


 Gloria V. Oriol, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0.

Initial report from 03/19/2014 12:09:46



EMSL ANALYTICAL, INC.
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Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

241400900

EMSL ANALYTICAL, INC.
4 FAIRFIELD BLVD
WALLINGFORD, CT 06492
PHONE: (203) 284-5948
FAX: (203) 284-5978

Company : Loureiro Engineering Associates, Inc		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 100 Northwest Dr		Third Party Billing requires written authorization from third party	
City: Plainville	State/Province: CT	Zip/Postal Code: 06062	Country: US
Report To (Name): Jamie Roche		Telephone #: 860-410-2945	
Email Address: jaroche@Loureiro.com		Fax #: 860-747-8822	Purchase Order:
Project Name/Number: OIM#4.03 (17 Orland)		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
U.S. State Samples Taken: CT		CT Samples: <input type="checkbox"/> Commercial/Taxable <input checked="" type="checkbox"/> Residential/Tax Exempt	

Turnaround Time (TAT) Options* - Please Check

3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PLM - Bulk (reporting limit)	TEM - Bulk
<input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)	<input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1
<input type="checkbox"/> PLM EPA NOB (<1%)	<input type="checkbox"/> NY ELAP Method 198.4 (TEM)
Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	<input type="checkbox"/> Chatfield Protocol (semi-quantitative)
Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	<input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2
<input type="checkbox"/> NIOSH 9002 (<1%)	<input type="checkbox"/> TEM Qualitative via Filtration Prep Technique
<input type="checkbox"/> NY ELAP Method 198.1 (friable in NY)	<input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique
<input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY)	<u>Other</u>
<input type="checkbox"/> OSHA ID-191 Modified	<input type="checkbox"/>
<input type="checkbox"/> Standard Addition Method	

Check For Positive Stop - Clearly Identify Homogenous Group Date Sampled: 3-13-14

Samplers Name: Brett Nicholes Samplers Signature: [Signature]

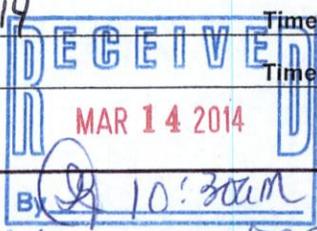
Sample #	HA #	Sample Location	Material Description
031314-1A		1st Floor	Sheet rock
r-1B		↓	↓
s-1C		↓	↓
r-2A		↓	Joint Compound
r-2B		↓	↓
r-2C		↓	↓
r-3A		1st Floor - Front Entry Door	Door Window Glazing
r-3B		↓	↓
r-3C		↓	↓

Client Sample # (s): 1A - 12C Total # of Samples: 36

Relinquished (Client): [Signature] Date: 3-13-14 Time: FedEx

Received (Lab): Date: Time:

Comments/Special Instructions:



BY [Signature] 10:30am
BX 804124523241



EMSL ANALYTICAL, INC.
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Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

241400900

EMSL ANALYTICAL, INC.
4 FAIRFIELD BLVD
WALLINGFORD, CT 06492
PHONE: (203) 284-5948
FAX: (203) 284-5948

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Location/Area (Air) HA # (Bulk)	Date/Time Sampled
031314-4A	Mastic on Hardwood Floor	East Bedroom	3-13-14
"-4B	↓	↓	↓
"-4C	↓	↓	↓
"-5A	Hexagonal Ceramic Tile Grout	Bathroom	
"-5B	↓	↓	
"-5C	↓	↓	
"-6A	Tar Paper Backing on Fiberglass Batting	Attic	
"-6B	↓	↓	
"-6C	↓	↓	
"-7A	Tar Paper	East Attic Wall	
"-7B	↓	↓	
"-7C	↓	↓	
"-8A	Fiberboard Paneling	1 st Floor Front Room	
"-8B	↓	↓	
"-8C	↓	↓	
"-9A	Sheetrock Joint Tape	1 st Floor	
"-9B	↓	↓	
"-9C	↓	↓	
"-10A	Light Grey Asphalt Shingle (Top)	Roof	
"-10B	↓	↓	
"-10C	↓	↓	
"-11A	Dark Grey Asphalt Shingle (Bottom)	Roof	
"-11B	↓	↓	
"-11C	↓	↓	
*Comments/Special Instructions:			

RECEIVED
MAR 14 2014
By: JA 10:30

Appendix B

Mold Laboratory Results



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-0262
<http://www.EMSL.com> / cinnmicrolab@emsl.com

Order ID: 371403326
Customer ID: LOUR62
Customer PO:
Project ID:

Attn: Jamie Roche
Loureiro Engineering Associates, Inc.
100 Northwest Drive
Plainville, CT 06062

Phone: (860) 747-6181
Fax: (860) 747-8822
Collected: 03/13/2014
Received: 03/14/2014
Analyzed: 03/18/2014

Proj: 01MH4.03 (17 Orland)

Test Report: Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, and Other Particulates from Swab Samples (EMSL Method: M041)

Lab Sample Number: Client Sample ID: Sample Location:	371403326-0001 Swab-031314-1 Front Room (North Wall)	371403326-0002 Swab-031314-2 Cabinets (Kitchen)	371403326-0003 Swab-031314-3 Floor Joist (Basement)		
Spore Types	Category	Category	Category	-	-
Agrocybe/Coprinus	-	-	-		
Alternaria	-	-	-		
Ascospores	-	-	-		
Aspergillus/Penicillium	-	-	-		
Basidiospores	-	-	-		
Bipolaris++	-	-	-		
Chaetomium	-	-	-		
Cladosporium	*Low*	*High*	*Medium*		
Curvularia	-	-	-		
Epicoccum	-	-	-		
Fusarium	-	-	-		
Ganoderma	-	-	-		
Myxomycetes++	-	-	-		
Paecilomyces	-	-	-		
Rust	-	-	-		
Scopulariopsis	-	-	-		
Stachybotrys	-	-	-		
Torula	-	-	-		
Ulocladium	-	-	-		
Unidentifiable Spores	-	-	-		
Zygomycetes	-	-	-		
Penicillium	*High*	*High*	*High*		
Fibrous Particulate	-	-	-		
Hyphal Fragment	-	-	-		
Insect Fragment	-	-	-		
Pollen	-	-	-		

Category: Count/per area analyzed
Rare: 1 to 10 Low: 11 to 100 Medium: 101 to 1000 High: >1000
Bipolaris++ = Bipolaris/Dreschlera/Exserohilum Myxomycetes++ = Myxomycetes/Periconia/Smut
* = Sample contains fruiting structures and/or hyphae associated with the spores.


Farbod Nekouei, M.S., Laboratory Manager
or Other Approved Signatory

No discernable field blank was submitted with this group of samples.

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation of the data contained in this report is the responsibility of the client. *- denotes not detected. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--EMLAP Accredited #100194

Initial report from: 03/18/2014 10:40:19

For Information on the fungi listed in this report please visit the Resources section at www.emsl.com

3714033260



Microbiology Laboratory Chain of Custody
EMSL Order Number (Lab Use Only):

Wallingford, CT
4 Fairfield Blvd
Wallingford, CT 06492
PHONE (203) 264-5948
FAX (203) 264-5978

Company: Loureiro Engineering Associates, Inc
Street: 100 Northwest Dr
City/State/Zip: Plainville, CT 06062

EMSL-Bill to: Same Different
If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

Report To (Name): Jamie Roche Fax: 860-747-8822
Telephone: 860-747-6181 Email Address: jaroche@loureiro.com

Project Name/Number: OIMH4.03 (17 Orland)

Please Provide Results: Email Purchase Order: State Samples Taken: CT Connecticut Samples: Commercial Residential

Turnaround Time (TAT) Options* - Please Check

3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements

Non Culturable Air Samples (Spore Traps)

- M001 Air-O-Cell
- M049 BioSIS
- M030 Micro 5
- M173 Allegro M2
- M003 Burkard
- M174 MoldSnap
- M004 Allergenco
- M043 Cyclex
- M176 Relle Smart
- M032 Allergenco-D
- M002 Cyclex-d
- M130 Via-Cell
- M172 Versa Trap

Other Microbiology Test Codes

- M041 Fungal Direct Examination
- M005 Viable Fungi ID and Count
- M006 Viable Fungi ID and Count (Speciation)
- M007 Culturable Fungi
- M008 Culturable Fungi (Speciation)
- M009 Gram Stain Culturable Bacteria
- M010 Bacterial Count and ID - 3 Most Prominent
- M011 Bacterial Count and ID - 5 Most Prominent
- M013 Sewage Contamination in Buildings
- M014 Endotoxin Analysis
- M015 Heterotrophic Plate Count
- M180 Real Time Q-PCR-ERMI 36
- Panel
- M018 Total Coliform (Membrane Filtration)
- M020 Fecal Streptococcus (Membrane Filtration)
- M210-215 Legionella Detection
- M026 Recreational Water Screen
- M027 Mycotoxin Analysis
- M029 Enterococci
- M019 Fecal Coliform
- M133 MRSA Analysis
- M028 Cryptococcus neoformans Detection
- M120 Histoplasma capsulatum Detection
- M033-39 Allergen Testing
- M044 Group Allergen (Cat, Dog, Cockroach, Dustmites)
- Other See Analytical Price Guide

Preservation Method (Water):

Name of Sampler: Signature of Sampler:

Sample #	Sample Location	Sample Type	Test Code	Room/Area	Date/Time Collected
Swab 031314 - 1	Front Room - (North Wall)	Swab	M041	1st Floor	3-13-14
- 2	Cabinets - (Kitchen)	"	"	1st Floor	"
- 3	Floor Joist - (Basement)	"	"	Basement	"

Client Sample # (s): 1 - 3 Total # of Samples: 3

Relinquished (Client): [Signature] Date: 3-13-14 Time: FedEx

Received (Client): Stewlett Date: 3/14/14 Time: 9:00AM

Comments/Special Instructions:

Appendix C

Staff and Laboratory Certifications



State of Connecticut

Lookup Detail View

Name

Name

BRETT M NICHOLAS

License Information

lookup

License Type	License Number	Expiration Date	Granted Date	License Name	License Status	Licensure Action Pending Charge
Asbestos Consultant-Inspector	685	07/31/2014	09/18/2007	Brett M. Nicholas	ACTIVE	None

Generated on: 7/11/2013 3:24:59 PM

Messages

Close

Submit

State of Connecticut. Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

EMSL ANALYTICAL, INC. - CT

LOCATED AT 4 Fairfield Blvd. IN Wallingford, CT 06492

AND REGISTERED IN THE NAME OF Gloria Oriol

THIS CERTIFICATE IS ISSUED IN THE NAME OF Gloria Oriol WHO HAS BEEN DESIGNATED

BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

Drinking Water, Non-potable Water/Wastewater

Examination for:
Bacteria

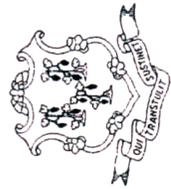
ASBESTOS

Examination for:
Air - PCM, TEM Bulk Materials - PLM, TEM
Water - TEM

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES September 30, 2014 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 28th DAY OF September 2012



Registration No.

PH-0322

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION

Appendix D
Pertinent Site Photos

Wood Ceiling – Typical Throughout House



Typical Window Frames and Sills



Typical Exterior Siding



Front Porch



Front Porch



Paneling Mold



Kitchen Mold



Basement Mold

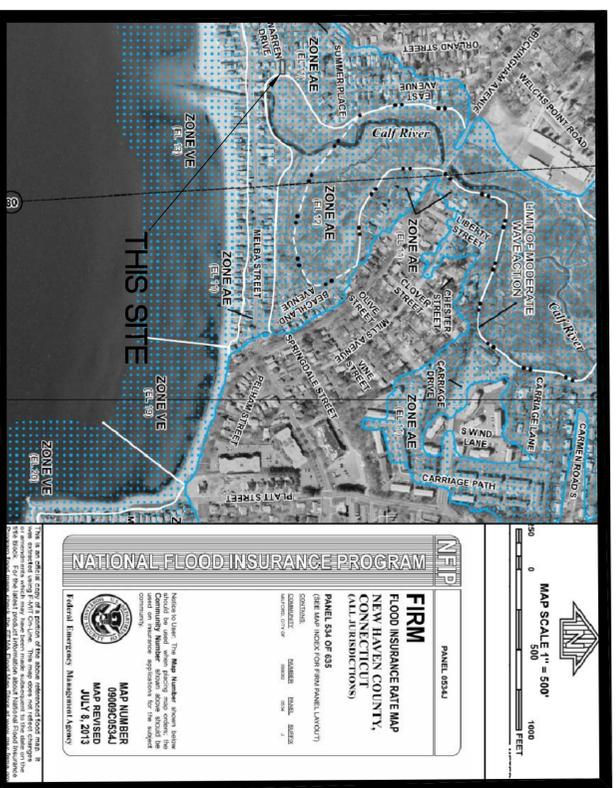


**PAUL J. STOWELL
LAND SURVEYING SERVICES**

171 WILCOX ROAD
MILFORD CT. 06460
PHONE (860)537-0046
FAX (860) 799-8341



ASSESSOR MAP 29 (NOT TO SCALE)



CURRENT FLOOD MAP (NOT TO SCALE)

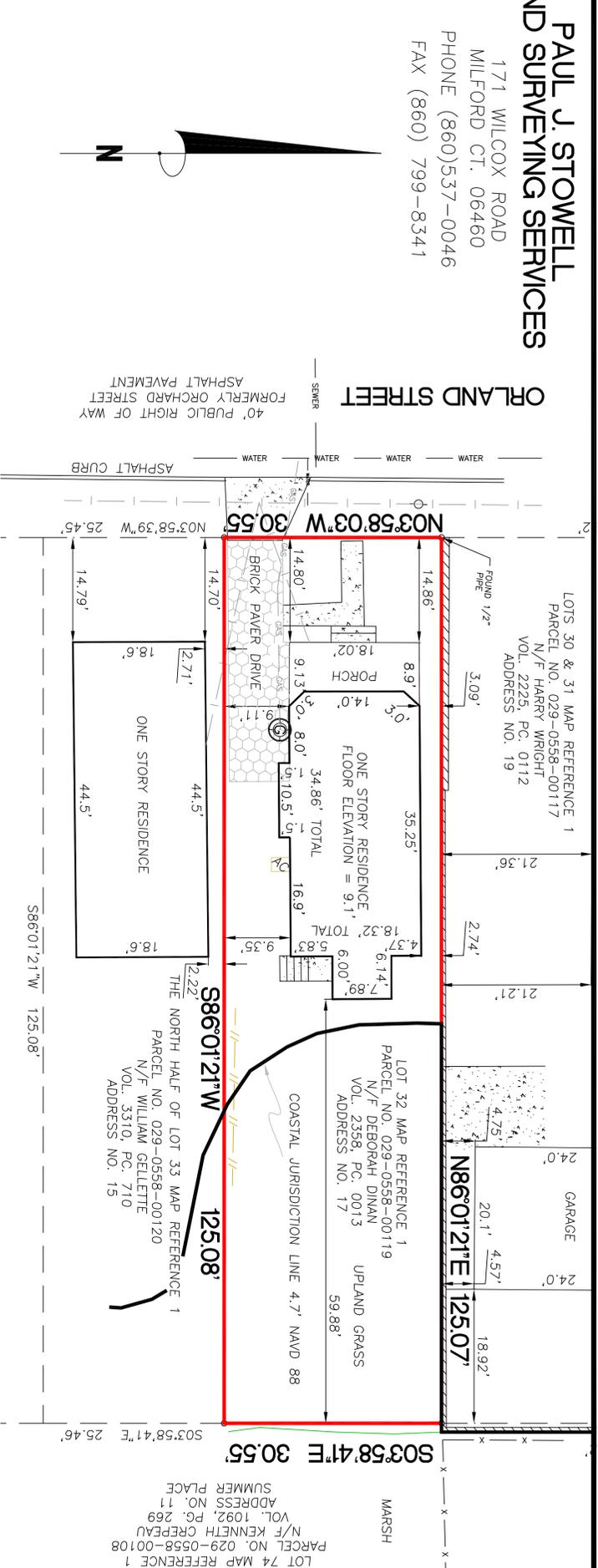
LEGAL DESCRIPTION

A CERTAIN PIECE OR PARCEL OF LAND WITH THE BUILDINGS AND IMPROVEMENTS THEREON, LOCATED IN THE CITY OF MILFORD, COUNTY OF NEW HAVEN AND STATE OF CONNECTICUT, KNOWN AS ASSESSOR'S MAP 29, BLOCK 558, LOTS 119 AND 19A, CONSISTING OF 3821 SQUARE FEET, MORE OR LESS DESCRIBED AS:
LOT 32 MAP NUMBER E-330 AS RECORDED IN THE OFFICE OF THE CLERK, CITY OF MILFORD, COUNTY OF NEW HAVEN, STATE OF CONNECTICUT.

- CENTERLINE
- - - WOOD FENCE
- X-X- METAL FENCE
- CONC. WOOD
- CHALK WOOD
- ZZZZZZZ CONCRETE BLOCK WALL
- OVERHEAD WIRES
- CONCRETE FENCE
- GUY ANCHOR
- + 5.50' DENOTES ELEVATION
- ☺ DENOTES TREE
- ☒ DENOTES WETLAND FLAG
- ☐ MONITORING WELL
- ☑ CABLE JUNCTION BOX
- POWER/LIGHT POLE
- WATER METER
- ☒ CLAMP PAD

NOTES

1. BASIS OF BEARINGS AS INDICATED ON SKETCH.
2. LEGAL DESCRIPTION WRITTEN BY THIS SURVEYOR.
3. THE LANDS SHOWN HEREON WERE NOT ABSTRACTED BY OWNERSHIP OR OTHER INSTRUMENTS OF RECORD.
4. UNDERGROUND OR INTERIOR PORTIONS OF FOOTINGS, FOUNDATIONS, WALLS OR OTHER NON-VISIBLE IMPROVEMENTS WERE NOT LOCATED.
5. ELEVATIONS ARE BASED ON THE NAVD 88 UNLESS OTHERWISE SHOWN.
6. FENCE TIES ARE TO THE CENTERLINE OF FENCE. WALL TIES ARE TO THE FACE OF WALL.
7. IN SOME INSTANCES GRAPHIC REPRESENTATIONS HAVE BEEN ENLARGED TO MORE CLEARLY ILLUSTRATE THE RELATIONSHIP BETWEEN PHYSICAL IMPROVEMENTS AND/OR LOT LINES IN ALL CASES DIMENSIONS SHALL CONTROL. THE LOCATION OF THE IMPROVEMENTS SHOWN HEREON ARE IN SUBSTANTIAL AGREEMENT WITH RECORD VALUES UNLESS OTHERWISE NOTED.
8. EXISTING CORNERS FOUND OFF WITNESS PROPERTY CORNERS.
9. DISTRICT LINES NOT PROPOSED IMPROVEMENTS.
10. DISTRICT LINES NOT PROPOSED IMPROVEMENTS.
11. FLOOD ZONE LINES DEFINE THE PRELIMINARY BOUNDARY ON DISPLAY IN THE OFFICE OF PLANNING AND ZONING. TO BE ADOPTED IN JUNE 2013.



A2 EXISTING CONDITION SURVEY

SCHEDULE OF LOT 19A AND BUILDING REQUIREMENTS (R-5)

CATEGORY	MIN. REQUIRED	MAX. PERMITTED	EXISTING	PROPOSED
LOT AREA	5000 SQ. FT.	N/A	3821 SQ. FT.	3821 SQ. FT.
LOT DEPTH	50'	N/A	133'	133'
FRONT YARD SETBACKS (MINIMUM REQUIRED)	N/A	N/A	14.8'	14.8'
FRONT YARD	ONE SIDE 10' AND ONE SIDE 5'	9.1' & 2.7'	9.1' & 2.7'	9.1' & 2.7'
REAR YARD	20'	N/A	59.9'	59.9'
STORIES	3	3	1.1"	2
HEAVY BLDG. AREA	45%	45%	22.56	22.56
***LOT COVERAGE	65%	65%	32.61	32.61

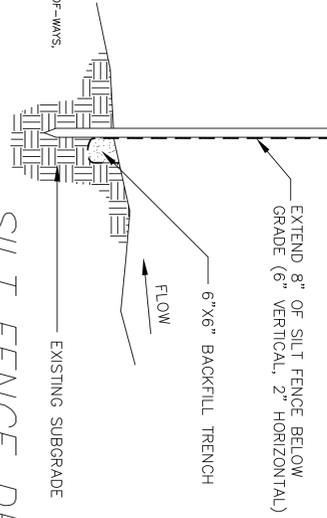
*10' OR ACTUAL FRONT YARD SETBACK, WHICHEVER IS GREATER.
SHALL NOT BE REQUIRED TO BE COMPLETED.
**10' OR ACTUAL FRONT YARD SETBACK, WHICHEVER IS GREATER.
***LOT COVERAGE 1246/2821X100=32.81%

FLOOD ZONE AE 11'
"FIRM" MAP 090082 0534 J, DATED 07-08-2013 (NAVD 1988 DATUM)

(1 1/2"x1 1/2"x48") STAKE DRIVEN ON DOWNSLOPE SIDE OF TRENCH

PLOT PLAN

SILT FENCE DETAIL



WATER, SEWER AND GAS LINES TO BE CAPPED DURING CONSTRUCTION AND REPLACED AS PER CITY CODE

EXISTING RESIDENCE TO BE RAISED ABOVE THE BASE FLOOD ELEVATION

PROPOSED STAIRWAY SEE FOUNDATION PLANS

NOTE: EXCAVATED SOIL WILL BE REMOVED FROM SITE

DECK TO BE KEPT OUTSIDE THE COASTAL JURISDICTION LINE

PROPOSED DECK SEE FOUNDATION PLANS

COASTAL JURISDICTION LINE 4.7' NAVD 88

ELEVATIONS:
GROUND FLOOR 5.0'
TOP OF COLUMNS 14.8'
FINISHED FLOOR 15.6'

THIS SURVEY CONFORMS TO A CLASS A-2 HORIZONTAL ACCURACY & A T-2 VERTICAL ACCURACY

THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTION 20-300B-1 THROUGH 20-300B-20 AND THE STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.

PROPERTY OWNER: DEBORAH DINAN

FIELD SURVEY DATE 05-03-2013

PLOT PLAN ADDED 08-05-2013

PLACED REAR DECK ON C/L 10-28-2013

MAP REFERENCE:

FOR DEBORAH DINAN ON ADDRESS NO. 17 ORLAND STREET MILFORD, CONNECTICUT, 06460

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A CONNECTICUT LICENSED SURVEYOR

BY _____ DATE _____

PAUL J. STOWELL PROFESSIONAL LAND SURVEYOR CONNECTICUT LICENSE NO. 70216



City of Milford, Connecticut

- Founded 1639 -

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

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

August 7, 2014

Mr. Rafael A. Amaya II
Amaya Architects
284 Racebrook Road
Orange, Connecticut 06477

Re: IW-JR-14-042 17 Orland St. Map 29 Block 558 Parcel 119; Debra Dinan; Proposal to raise existing structure with new decks and stairs for access with work proposed within 100' of a wetland or watercourse in the South Central Shoreline Watershed.

Dear Mr. Amaya:

The Milford Inland Wetlands and Watercourses Agency has reviewed your plan entitled "*Super Storm Sandy Response and Recovery Application No. 1065, Dinan Residence 17 Orland Street, Milford, Connecticut 06460*" by Amaya Architects, Ashettino Associates, LLC, Loureiro Engineering Associates, Inc., and Paul J Stowell Land Surveying Services, cover and 15 sheets dated 7/3/14. Based on a review of the site, the above information, the MIWA maps and Regulations it reveals work is proposed within 100' of wetlands. This work as proposed on the plans with proper Erosion and Sedimentation Control and Best Management Practices for construction will have a minimal impact. Therefore I am issuing this Jurisdictional Ruling for the elevation of the existing residence with decks and stairs for access. No soils, material or debris may be stockpiled to the rear of the house and must be removed from the site as shown on the proposed plan. A silt fence must be installed and maintained until the site is stabilized as shown on the plans 1' in front of the Coastal Jurisdiction Line at elevation 4.7'.

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

Should you have any questions concerning this matter, please contact the Inland Wetlands Agency Office at 203-783-3256.

Sincerely,

MaryRose Palumbo
Inland Wetlands Compliance Officer

cc: DPLU
Planning & Zoning
City Engineer



State of Connecticut

City of Milford

70 West River Street Milford, CT 06460 Ph: 203 783-3234 fax: 203 783-3690



Application for Building Permit

RECEIPT

Application No: **TB-14-741**

Date Received: **8/4/2014**

Job Location: **17 ORLAND ST**

Permit For: **SANDY - Residential Repair**

Contractor's Name:

Phone:

Contractor's Address:

City:

State: Zip Code:

State Lic. No:

(Home)Owner's Name: **DINAN DEBORAH A**

Phone:

(Home)Owner's Address: **17 ORLAND ST**

Work Description: **Elevate existing house in place to FF of 15.6' and building height of 22.1'. Foundation, open columns with front landing and stairs and rear deck and stairs. Second floor: Living/dining/kitchen, 2 bedrooms, laundry, full bath pull down stairs to attic storage.**

Total Value Of Work To Be Performed: **\$100,000.00**

Structure Size:	0.00	0.00	0.00
	Width	Depth	Area

I hereby swear and attest that I will require proof of workers' compensation insurance for every contractor, subcontractor, or other worker before he/she engages in work on the above property in accordance with the Workers' Compensation Act (Chapter 568).

I understand that pursuant to 31-275 C.G.S., officers of a corporation and partners in a partnership may elect to be excluded from coverage by filing a waiver with the appropriate District Office; and that a sole proprietor of a business is not required to have coverage unless he files his intent to accept coverage.

I hereby certify that I am the owner of the property which is the subject of this application or the authorized agent of the property owner and have been authorized to make this application. I understand that when a permit is issued, it is a permit to proceed and grants no right to violate the Connecticut State Building Code or any other code, ordinance or statute, regardless of what might be shown or omitted on the submitted plans and specifications. All information contained within is true and accurate to the best of my knowledge and belief.

All permits approved are subject to inspections performed by a representative of this office. Requests for inspections must be made at least 24 hours in advance.

Signed: **Amaya Architects** **8/4/2014** **(203) 795-5656**
 Applicant Date Telephone No.

Estimated Construction Costs / Permit Fees

Total Project Cost :	\$100,000.00	Payment Date	Amount Paid	Check No
Total Permit Fee:	\$26.00			
Total Permit Fee Paid:	\$0.00			

THIS IS NOT A PERMIT



State of Connecticut

CITY OF MILFORD

70 West River Street Milford, CT 06460 Ph: 203 783-3234 fax: 203 783-3690



Permit No. Z-14-195

Zoning Permit

VALUE: \$1000000.00

FEE PAID: \$60.00

DATE ISSUED: 8/7/2014

PERMIT FOR: Site Improvements

This certifies that DINAN DEBORAH A

has permission to conduct activities at: 17 ORLAND ST

as follows: **Elevate existing house in place to FF of 15.6' and building height of 22.1'. Foundation, open columns with front landing and stairs and rear deck and stairs. Second floor: Living/dining/kitchen, 2 bedrooms, laundry, full bath pull down stairs to attic storage.**

provided that the person accepting this permit shall in every respect conform to the terms of the application therefore on file in this office, and to the zoning regulations for the City of Milford.

NOTE: The recipient of this permit accepts this permit on the condition that, as owner or as agent of the owner, he/she agrees to comply with all regulations of the City of Milford, and any condition set forth by the Planning & Zoning Board, Zoning Board of Appeals, or other body having authority.

Restrictions:

Zoning Enforcement Official

8/7/2014

Date

**This Card Must Be Displayed in a Conspicuous Place on the Premises
and Not Torn Down or Removed**