

Figure E-10 Statutory Checklist

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

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

Project Name and Identification No. DOH 1249, 22 James Street, Milford, Connecticut

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]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SHPO pending, see attached letter
2. Floodplain Management [58.5(b)] [Ex Or 11988] [24 CFR 55]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flood Zone AE, FEMA FIRMette Panel 09009C0529J map revised July 8, 2013 attached Appendix B attached
3. Wetland Protection [58.5 (b)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Site is not located in any identified wetlands, see attached USFWS Wetlands Inventory map
4. Coastal Zone Management [58.5(c)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Parcel shown within Coastal Area Management (CAM) – waived, See Appendix B
5. Water Quality – Aquifers [58.5(d)] [40 CFR 149]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No aquifers were identified in the area of the site on the CTDEEP GIS, See attached map
6. Endangered Species [58.5(e)] [16 U.S.C. 1531 et seq.]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Site is located with a NDDB area however it is not waterfront property on a sandy beach
7. Wild and Scenic Rivers [58.5 (f)] [16 U.S.C. 1271 et seq.]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Per the CT DEEP there are no Wild and Scenic Rivers in the Town of Milford
8. Air Quality [58.5(g)] [42 U.S.C. 7401 et seq.]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Although asbestos has been found at the site, an EA nor an EIS is required. Any air quality impacts should be short term and localized.
9. Farmland Protection [58.5(h)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Site has already been developed and no additional clearing is required for the rehabilitation

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.
Manmade Hazards 10 A. Thermal Explosive [58.5(i)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	There will be no change in density or change of use. See attached letter from Milford Fire Department
10 B. Noise [58.5(i)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not applicable per CPD-13-05. The site will be substantially restored to pre-disaster conditions
10 C. Airport Clear Zones [58.5 (i)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Site is located outside the Sikorsky Airport clear zone and the airport is not typically used as a military airfield.
10 D. Toxic Sites [58.5 (i)(2)(i)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The site is not located on the EPA Superfund National Priority or CERCLA lists or the CT equivalent; there are no know non-residential underground fuel oil tanks; it is not known or suspected to be contaminated with toxic chemicals or radioactive materials. The site is located within 3000 feet of a capped solid waste landfill that existed prior to the disaster. The site will be substantially restored to pre-disaster conditions including public water service.
11. Environmental Justice [58.5(j)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The site is NOT located within a predominately minority or low income neighborhood
Document Laws and authorities listed at Sec. 58.6 and other potential environmental concerns							
12 A. Flood Insurance [58.6(a) & (b)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Policy is attached per federal regulations and program guidelines. Owner is required to obtain and maintain flood insurance for a five year period as a prerequisite for receiving assistance.
12 B. Coastal Barriers [58.6(c)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The only Coastal Barrier Zone in Miford is located at Nells Island and Duck Island in the southwest section of the town per FIRM Panels 09009C0528J and 09009C0536J both with effective date 7/8/2013. Also see attached map of the John Chaffe Coastal Barrier Resource System
12 C. Airport Clear Zone Notification [58.6(d)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The property is not for sale and Airport Clear Zone for Sikorsky Airport & Tweed New Haven do not cross municipal boundaries
13 A. Solid Waste Disposal [42 U.S.C. S3251 et seq.] and [42 U.S.C. 6901-6987 eq seq.]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Solid waste impact is expected to be minimal as the scope of the project is limited to pre-storm building footprint.
13 B. Fish and Wildlife [U.S.C. 661-666c]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Project will not impact any water bodies

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
13 C. Lead-Based Paint [24 CFR Part 35] and [40 CFR 745.80 Subpart E]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	A survey of the site performed by Loureiro Engineering Associates identified lead-based paints in various areas and provides recommendations for removal. See attached report.
13 D. Asbestos	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	A survey of the site performed by Loureiro Engineering Associates identified asbestos and provides recommendations for removal. See attached report.
13 E. Radon [50.3 (i) 1]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A survey of the site identified radon at levels below the EPA threshold for mitigation. It is not anticipated that radon will increase as a result of construction, however, testing will be performed upon completion of an enclosed ground level space (if applicable) and appropriate recommendation for mitigation have been provided. See attached report
13 F. Mold	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A survey of the site performed by Loureiro Engineering Associates identified mold at the site and provides recommendations for removal. See attached report.
Other: State or Local 14 A. Flood Management Certification [CGS 25-68]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Project is compliant with DEEP Flood Management Certification, Appendix B attached
14 B. Structures, Dredging & Fill Act [CGS 22a-359 to 22a-363f]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Activities do not require approval from CTDEEP OLISP Permitting section
14 C. Tidal Wetlands Act [CGS 22a-28 to 22a-35]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tidal wetlands have not been identified for this site. See aforementioned USFWS Wetland Inventory Map (item 3)
14 D. Local inland wetlands/watercourses [CGS 22a-42]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Property is not located within regulated wetlands, See aforementioned USFWS Wetland Inventory Map (item 3)
14 E. Various municipal zoning approvals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Building and Zoning permits attached

DETERMINATION:

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

Prepared by:



Name: Edward G. Shelomis, P.E., Vice President

3/4/2015
Date

Responsible Entity or designee Signature:

Hermia Delaire, CDBG-DR Program Manager

Date



Department of Economic and
Community Development

Connecticut
still revolutionary

1249 SM

May 20, 2014

received
5-21-14 DDT

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

Subject: Department of Housing Superstorm Sandy Reviews
Application # 1249
22 James Street, Milford

Dear Ms. Delaire:

The State Historic Preservation Office has reviewed the information submitted for the above-named pursuant to the provisions of Section 106 of the National Historic Preservation Act of 1966. It is the opinion of this office that the property located at 22 James Street is eligible for listing on the National Register of Historic Places as a contributing resource to a potential district and therefore the project should meet the Secretary of the Interior's Standards for the Treatment of Historic Properties. We will need to review the plans and specifications and elevation certificates for the project in order to determine the effect of the project on the state's cultural resources.

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

For further information please contact me at (860) 256-2756 or mary.dunne@ct.gov.

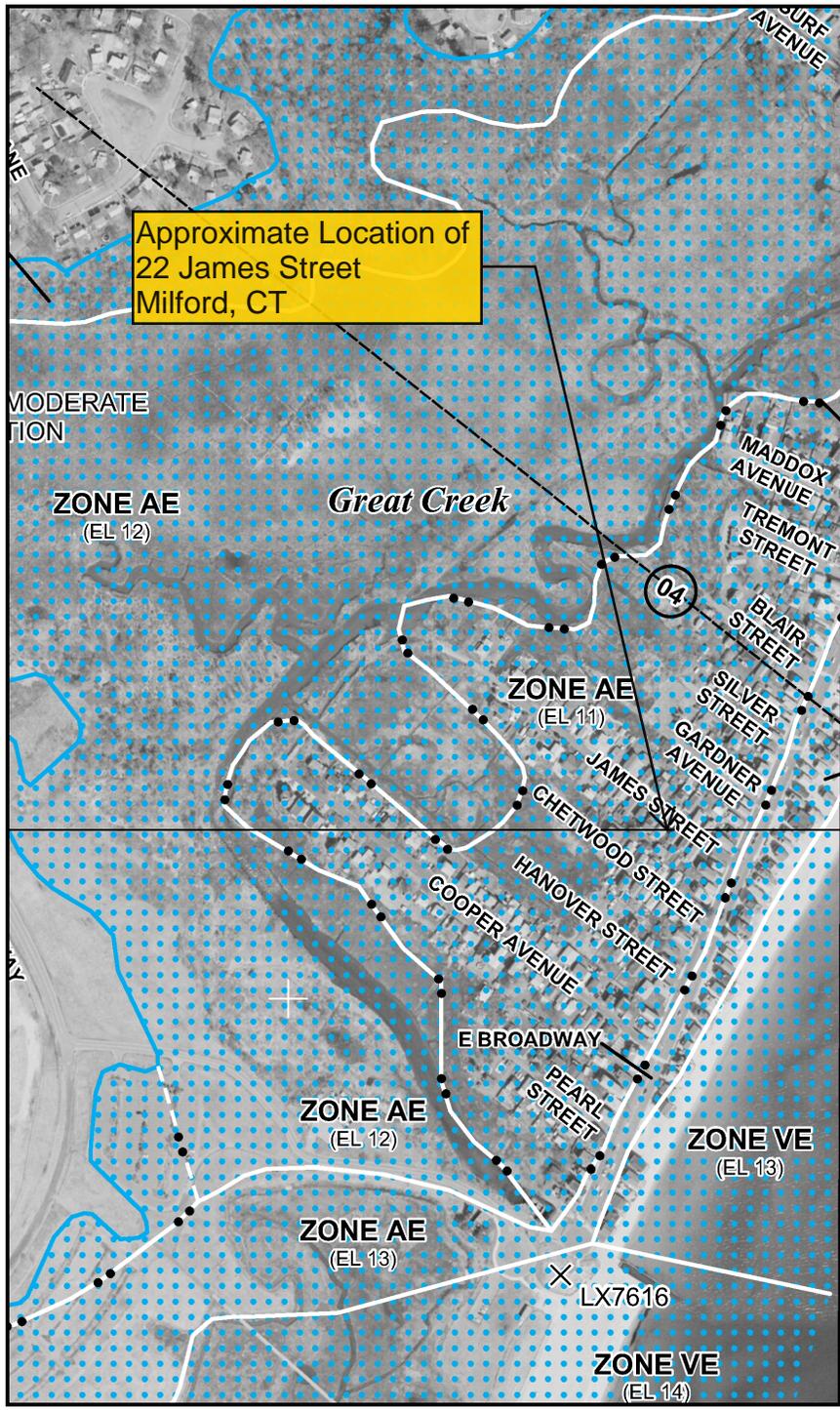
Sincerely,

Mary B. Dunne
Deputy State Historic Preservation Officer

State Historic Preservation Office

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

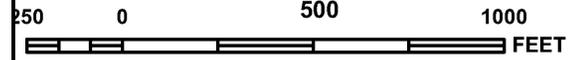
An Affirmative Action/Equal Opportunity Employer An Equal Opportunity Lender



Approximate Location of
22 James Street
Milford, CT



MAP SCALE 1" = 500'



PANEL 0529J

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

PANEL 529 OF 635
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
MILFORD, CITY OF	090082	0529	J

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



MAP NUMBER
09009C0529J
MAP REVISED
JULY 8, 2013

Federal Emergency Management Agency

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



Blair St

Silver St

E Broadway

Gardner St

James St

Chenwood St

Cooper Ave

Zone AE
(EL 13 Feet)

Zone AE
(EL 11 Feet)

Zone VE
(EL 13 Feet)

Zone AE
(EL 12 Feet)

22 James St

Google Earth

212 ft

1991

Imagery Date: 10/24/2014 lat 41.203656° lon -73.064429° elev 9 ft eye alt 916 ft

© 2015 Google



U.S. Fish and Wildlife Service National Wetlands Inventory

22 James Street,
Milford CT

Mar 4, 2015



Wetlands

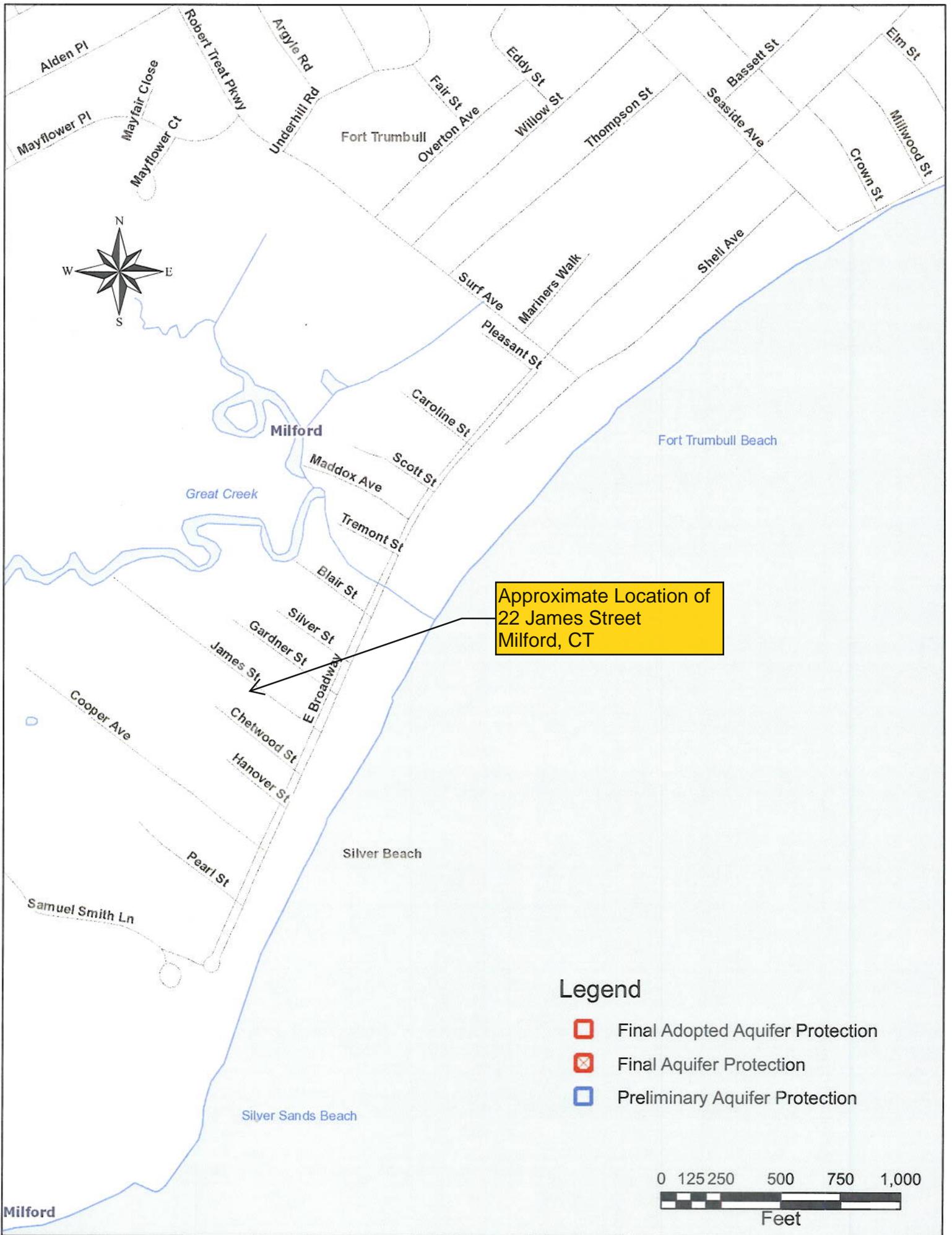
- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

Approximate Location
22 James Street
Milford CT

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:

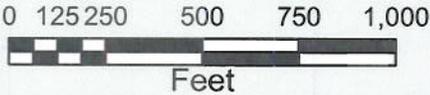
DOH 1249



Approximate Location of
22 James Street
Milford, CT

Legend

- Final Adopted Aquifer Protection
- X Final Aquifer Protection
- Preliminary Aquifer Protection





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 Code: 05E1NE00-2015-SLI-0302

March 04, 2015

Event Code: 05E1NE00-2015-E-00487

Project Name: DOH 1249

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 1249

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 Code: 05E1NE00-2015-SLI-0302

Event Code: 05E1NE00-2015-E-00487

Project Type: ** Other **

Project Name: DOH 1249

Project Description: 22 James Street

Milford CT

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.



United States Department of Interior
Fish and Wildlife Service

Project name: DOH 1249

Project Location Map:



Project Coordinates: MULTIPOLYGON (((-73.0646124 41.203459, -73.0646188 41.2034602, -73.0646254 41.2034644, -73.0646298 41.2034708, -73.0646315 41.2034784, -73.0646301 41.2034861, -73.0646259 41.2034927, -73.0644569 41.2036683, -73.0644494 41.2036732, -73.0644405 41.2036743, -73.064432 41.2036714, -73.0643274 41.2036068, -73.0643221 41.2036021, -73.0643188 41.2035959, -73.0643179 41.2035889, -73.0643195 41.203582, -73.0643233 41.2035761, -73.0644789 41.2034106, -73.0644858 41.2034058, -73.064494 41.2034043, -73.0645021 41.2034063, -73.0646121 41.2034588, -73.0646124 41.203459), (-73.0645767 41.2034861, -73.0644981 41.2034486, -73.0643692 41.2035857, -73.0644393 41.2036289, -73.0645767 41.2034861)))

Project Counties: New Haven, CT



United States Department of Interior
Fish and Wildlife Service

Project name: DOH 1249

Endangered Species Act Species List

There are a total of 1 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 (<i>Calidris canutus rufa</i>)	Threatened		



United States Department of Interior
Fish and Wildlife Service

Project name: DOH 1249

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, 2015

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> (accessed January 2015)

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: November 17, 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 22 James 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.

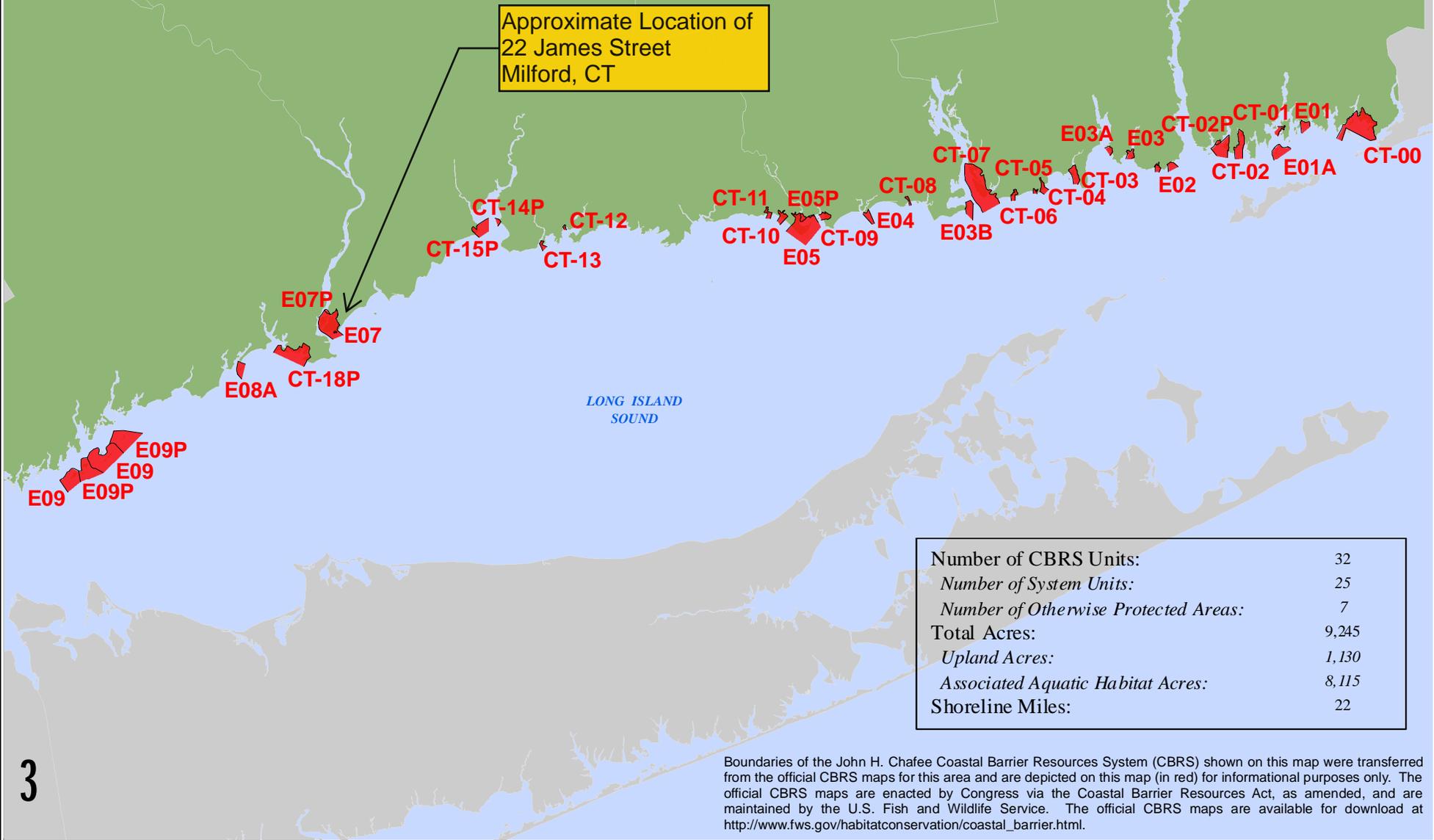
If you have any questions please feel free to contact me.

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



Approximate Location of
22 James Street
Milford, CT

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.



May 12, 2014

Amaya Architects
284 Racebrook Rd
Orange, CT 06477

Attn: Rafael Amaya

RE: Hazardous Building Materials Survey for Proposed Renovations
Location: 22 James St, Milford, CT
LEA Comm. No. 01MH4.13

Dear Mr. Amaya:

In accordance with our proposal, Loureiro Engineering Associates, Inc (Loureiro) conducted bulk material sampling and analysis of accessible suspect asbestos-containing materials (ACM's), lead-based paint testing, mold inspection and radon air testing in the dwelling located at 22 James 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 C 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.

Brett Nicholas
Industrial Hygienist

Jamie Roche
Director, Environmental Services

Enclosures:

- Appendix A Asbestos Laboratory Analysis Data
- Appendix B Mold Laboratory Results
- Appendix C Radon Air Testing Results
- Appendix D Staff and Laboratory Certifications

Loureiro Engineering Associates, Inc.

100 Northwest Drive • Plainville, CT 06062 • 860.747.6181 • Fax 860.747.8822 • www.Loureiro.com

An Employee-Owned Company

1.00 INTRODUCTION

1.1 *Purpose*

Loureiro 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, conduct mold testing and radon air 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*

Loureiro was contracted to perform an investigative survey of all accessible interior and exterior spaces. These areas included the living spaces, attic, basement crawl space, porches, exterior areas and accessible roofing. 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. Loureiro 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 D). 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	Dark Grey Asphalt Roof Shingles	Main Roof	N/A	Non-Detect
2a,b,c	Tar Paper under Dark Grey Asphalt Roof Shingles	Main Roof	N/A	Non-Detect
3a,b,c	White Storm Window Frame Caulk	Exterior	N/A	Non-Detect
4a,b,c	12"x12" Faux Beach-Wood Self-Stick Floor Tiles	1 st Floor - Mechanical Closet	N/A	Non-Detect
5a,b,c	Tar-Backed Paper on Fiberglass Batting	1 st Floor	N/A	Non-Detect
6a,b	Sheetrock	1 st Floor	N/A	Non-Detect
6c	Sheetrock	2 nd Floor	N/A	Non-Detect
7a,b	Joint Compound	1 st Floor	N/A	Non-Detect
7c	Joint Compound	2 nd Floor	N/A	Non-Detect
8a,b	Sheetrock Joint Tape	1 st Floor	N/A	Non-Detect
8c	Sheetrock Joint Tape	2 nd Floor	N/A	Non-Detect
9a,b,c	2'x4' Suspended Ceiling Tiles (Fissure)	1 st Floor	N/A	Non-Detect
10a,b,c	Tar-Thread Backed Paper on Fiberglass Batting	1 st Floor	N/A	Non-Detect
12a,b,c	Brown Paneling Adhesive	1 st Floor - Kitchen	N/A	Non-Detect

13a,b,c	Light Grey Asphalt Roof Shingles	East Roof	150 S.F.	8% Chrysotile
14a,b,c	Tar Paper under Light Grey Asphalt Roof Shingles	East Roof	N/A	Non-Detect
15a,b,c	Brown Construction Adhesive	1 st Floor – East, Front Room Door Frame	N/A	Non-Detect
16a,b,c	Paper behind Original Dark Green Siding	1 st Floor – East, Front Room	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/cm²) 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 mg/cm² 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)
1 st Floor – East, Front Room	Wall	North	Light Blue	Sheetrock (Intact)	0.0
1 st Floor – East, Front Room	Wall	South	Light Blue	Sheetrock (Intact)	0.0
1 st Floor – East, Front Room	Wall	East	Light Blue	Sheetrock (Intact)	0.0
1 st Floor – East, Front Room	Wall	West	Light Blue	Sheetrock (Intact)	0.0
1 st Floor – East, Front Room	Ceiling	-	White	Sheetrock (Intact)	0.0
1st Floor – East, Front Room	Original Siding	West	Dark Green	Wood Shingles (Intact)	1.73
1st Floor – East, Front Room	Original Window Frame	West	White	Wood (Intact)	>5.0
1st Floor – East, Front Room	Beadboard	West	Grey	Wood (Intact)	2.72
1 st Floor – East, Front Room	Window Frame	Southeast	White	Wood (Intact)	0.0
1 st Floor – East, Front Room	Window Frame	Northeast	White	Wood (Intact)	0.0
1 st Floor – East, Front Room	Window Sash	Southeast	White	Wood (Intact)	0.0
1 st Floor – East, Front Room	Window Sash	Northeast	White	Wood (Intact)	0.0
1 st Floor – Living Room	Wall	North	Light Blue	Sheetrock (Intact)	0.0
1 st Floor – Living Room	Wall	South	Light Blue	Sheetrock (Intact)	0.0
1 st Floor – Living Room	Wall	East	Light Blue	Sheetrock (Intact)	0.0
1 st Floor – Living Room	Wall	West	Light Blue	Sheetrock (Intact)	0.0
1 st Floor – Living Room	Ceiling Beam Soffit	-	Light Blue	Wood (Intact)	0.0

1 st Floor – Living Room	Drop Ceiling Slats	-	White	Wood (Intact)	0.0
1st Floor – Living Room	Beadboard	North	Pink	Wood (Intact)	1.13
1 st Floor – Living Room	Wall Stud	South	Pink	Wood (Intact)	0.11
1st Floor – Living Room	Original Ceiling (above Drop Ceiling)	-	Yellow	Wood (Intact)	>5.0
1 st Floor – Living Room	Window Frame	Southeast	White	Wood (Intact)	0.0
1 st Floor – Living Room	Window Frame	Southwest	White	Wood (Intact)	0.0
1 st Floor – Living Room	Window Frame	Northeast	White	Wood (Intact)	0.0
1 st Floor – Living Room	Window Sash	Southeast	White	Wood (Intact)	0.0
1 st Floor – Living Room	Window Sash	Southwest	White	Wood (Intact)	0.0
1 st Floor – Living Room	Window Sash	Northeast	White	Wood (Intact)	0.0
1st Floor – Under Staircase	Beadboard	-	Grey	Wood (Intact)	2.54
1 st Floor – Kitchen	Wall	North	Orange	Sheetrock (Intact)	0.0
1 st Floor – Kitchen	Wall	South	Orange	Sheetrock (Intact)	0.0
1 st Floor – Kitchen	Wall	South	White	Sheetrock (Intact)	0.0
1 st Floor – Kitchen	Wall	East	Orange	Sheetrock (Intact)	0.0
1 st Floor – Kitchen	Wall	West	Orange	Sheetrock (Intact)	0.0
1 st Floor – Kitchen	Ceiling	-	White	Sheetrock (Intact)	0.0
1 st Floor – Kitchen	Window Frame	West	White	Wood (Intact)	0.0
1 st Floor – Kitchen	Window Sash	West	White	Wood (Intact)	0.0
1 st Floor – Kitchen	Door Jamb	West	White	Wood (Intact)	0.0

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1 st Floor – Kitchen	Door (Inner)	West	White	Metal (Intact)	0.0
1 st Floor – Kitchen	Door (Outer)	West	Red	Metal (Intact)	0.0
1 st Floor – Bathroom	Door Molding	-	White	Wood (Intact)	0.0
1 st Floor – Bathroom	Door Frame	-	White	Wood (Intact)	0.0
1 st Floor – Bathroom	Door Jamb	-	White	Wood (Intact)	0.0
1 st Floor – Bathroom	Door (Inner)	-	Beige	Wood (Intact)	0.0
1 st Floor – Bathroom	Door (Outer)	-	White	Wood (Intact)	0.0
1 st Floor – Bathroom	Wall	North	Beige	Sheetrock (Intact)	0.0
1 st Floor – Bathroom	Wall	South	Beige	Sheetrock (Intact)	0.0
1 st Floor – Bathroom	Wall	East	Beige	Sheetrock (Intact)	0.0
1 st Floor – Bathroom	Ceiling	-	White	Sheetrock (Intact)	0.0
1 st Floor Entry	Door (Inner)	East	White	Metal (Intact)	0.0
1 st Floor Entry	Door (Outer)	East	Red	Metal (Intact)	0.0
1 st Floor Entry	Door Jamb	East	White	Wood (Intact)	0.0
Stairwell	Wall	North	Beige	Sheetrock (Intact)	0.0
Stairwell	Wall	South	Beige	Sheetrock (Intact)	0.0
Stairwell	Ceiling	-	White	Sheetrock (Intact)	0.0
Stairwell	Beadboard	South	Grey	Wood (Intact)	2.72
2 nd Floor - Hallway	Paneling	West	White	Wood (Intact)	0.0
2 nd Floor - Hallway	Wall	North	Beige	Sheetrock (Intact)	0.0

2 nd Floor - Hallway	Wall	South	Beige	Sheetrock (Intact)	0.0
2 nd Floor - Hallway	Wall	East	Beige	Sheetrock (Intact)	0.0
2 nd Floor - Hallway	Wall	West	Beige	Sheetrock (Intact)	0.0
2 nd Floor - Hallway	Ceiling	-	White	Sheetrock (Intact)	0.0
2 nd Floor - Hallway	Baseboard	North	White	Wood (Intact)	0.0
2 nd Floor - Hallway	Baseboard	South	White	Wood (Intact)	0.0
2 nd Floor - Hallway	Baseboard	East	White	Wood (Intact)	0.0
2 nd Floor - Hallway	Baseboard	West	White	Wood (Intact)	0.0
2 nd Floor – West Bedroom	Wall	North	Beige	Sheetrock (Intact)	0.0
2 nd Floor – West Bedroom	Wall	South	Beige	Sheetrock (Intact)	0.0
2 nd Floor – West Bedroom	Wall	East	Beige	Sheetrock (Intact)	0.0
2 nd Floor – West Bedroom	Wall	West	Beige	Sheetrock (Intact)	0.0
2 nd Floor – West Bedroom	Baseboard	North	White	Wood (Intact)	0.0
2 nd Floor – West Bedroom	Baseboard	South	White	Wood (Intact)	0.0
2 nd Floor – West Bedroom	Baseboard	East	White	Wood (Intact)	0.0
2 nd Floor – West Bedroom	Baseboard	West	White	Wood (Intact)	0.0
2 nd Floor – West Bedroom	Ceiling	-	White	Sheetrock (Intact)	0.0
2 nd Floor – West Bedroom	Entry Door Molding (Inner)	-	White	Wood (Intact)	0.0
2 nd Floor – West Bedroom	Entry Door Molding (Outer)	-	White	Wood (Intact)	0.0
2 nd Floor – West Bedroom	Entry Door Jamb	-	White	Wood (Intact)	0.0

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2 nd Floor – West Bedroom	Closet Door Molding	-	White	Wood (Intact)	0.0
2 nd Floor – West Bedroom	Window Molding	Southwest	White	Wood (Intact)	0.0
2 nd Floor – West Bedroom	Window Frame	Southwest	White	Wood (Intact)	0.0
2 nd Floor – West Bedroom	Window Sash	Southwest	White	Wood (Intact)	0.0
2 nd Floor – West Bedroom	Window Molding	Northwest	White	Wood (Intact)	0.0
2 nd Floor – West Bedroom	Window Frame	Northwest	White	Wood (Intact)	0.0
2 nd Floor – West Bedroom	Window Sash	Northwest	White	Wood (Intact)	0.0
2 nd Floor – South Bedroom	Wall	North	Purple	Sheetrock (Intact)	0.0
2 nd Floor – South Bedroom	Wall	South	Purple	Sheetrock (Intact)	0.0
2 nd Floor – South Bedroom	Wall	East	Purple	Sheetrock (Intact)	0.0
2 nd Floor – South Bedroom	Wall	West	Purple	Sheetrock (Intact)	0.0
2 nd Floor – South Bedroom	Baseboard	North	White	Wood (Intact)	0.0
2 nd Floor – South Bedroom	Baseboard	South	White	Wood (Intact)	0.0
2 nd Floor – South Bedroom	Baseboard	East	White	Wood (Intact)	0.0
2 nd Floor – South Bedroom	Baseboard	West	White	Wood (Intact)	0.0
2 nd Floor – South Bedroom	Ceiling	-	White	Sheetrock (Intact)	0.0
2 nd Floor – South Bedroom	Entry Door Molding (Inner)	-	White	Wood (Intact)	0.0
2 nd Floor – South Bedroom	Entry Door Molding (Outer)	-	White	Wood (Intact)	0.0
2 nd Floor – South Bedroom	Entry Door Jamb	-	White	Wood (Intact)	0.0
2 nd Floor – South Bedroom	Closet Door Molding	-	White	Wood (Intact)	0.0

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2 nd Floor – South Bedroom	Window Frame	South	White	Wood (Intact)	0.0
2 nd Floor – South Bedroom	Window Sash	South	White	Wood (Intact)	0.0
2 nd Floor – South Bedroom	Window Molding	South	White	Wood (Intact)	0.0
2 nd Floor – East Bedroom	Wall	North	Beige	Sheetrock (Intact)	0.0
2 nd Floor – East Bedroom	Wall	South	Purple	Sheetrock (Intact)	0.0
2 nd Floor – East Bedroom	Wall	East	Beige	Sheetrock (Intact)	0.0
2 nd Floor – East Bedroom	Wall	West	Beige	Sheetrock (Intact)	0.0
2 nd Floor – East Bedroom	Baseboard	North	White	Wood (Intact)	0.0
2 nd Floor – East Bedroom	Baseboard	South	White	Wood (Intact)	0.0
2 nd Floor – East Bedroom	Baseboard	East	White	Wood (Intact)	0.0
2 nd Floor – East Bedroom	Baseboard	West	White	Wood (Intact)	0.0
2 nd Floor – East Bedroom	Ceiling	-	White	Sheetrock (Intact)	0.0
2 nd Floor – East Bedroom	Entry Door Molding (Inner)	-	White	Wood (Intact)	0.0
2 nd Floor – East Bedroom	Entry Door Molding (Outer)	-	White	Wood (Intact)	0.0
2 nd Floor – East Bedroom	Entry Door Jamb	-	White	Wood (Intact)	0.0
2 nd Floor – East Bedroom	Closet Door Molding	-	White	Wood (Intact)	0.0
2 nd Floor – East Bedroom	Window Frame	East	White	Wood (Intact)	0.0
2 nd Floor – East Bedroom	Window Sash	East	White	Wood (Intact)	0.0
2 nd Floor – East Bedroom	Window Molding	East	White	Wood (Intact)	0.0

4.0 MOLD

Loureiro observed mold growths on the ceiling of the first floor bathroom and on the floor joists under the sub-floor within the basement crawl space 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 Wallingford, CT. The samples were analyzed by direct examination optical microscopy for mold species identification and quantification. EMSL is an AIHA (American Industrial Hygiene Association) approved Laboratory.

Laboratory testing confirmed the presence of *Cladosporium* in medium and high concentrations on the ceiling and joist 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* has been reported to cause infections, as well as sinusitis and pulmonary infections.

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 Loureiro 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;

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

Table 3 – Mold Summary Results

Sample No. / Location	Fungi Detected	Fungi Concentration	Comments
Sample 1 Bathroom Ceiling	Cladosporium	*High*	*Active Colonies
Sample 2 Basement Crawl Space Joists	Cladosporium	*Medium*	*Active Colonies

5.0 RADON TESTING

Radon is an odorless, tasteless and invisible gas produced by the decay of naturally occurring uranium in soil and water. Radon is a form of ionizing radiation and a proven carcinogen. Lung cancer is the only known effect on human health from exposure to radon in air. Thus far, there is no evidence that children are at greater risk of lung cancer than are adult. EPA recommends homes be mitigated if the radon level is 4.0 pCi/L (picocuries per liter) or more. Laboratory results are found in Appendix C.

Radon gas typically moves up through the ground to the air above and into a building through cracks and other holes in the foundation. Radon mitigation may involve sealing the routes of entry or installing sub-slab ventilation systems.

Table 4 – Radon Summary Results – Basement

Sample Number	Area	Sample Result
157677	Basement Crawl Space	0.2 pCi/L
157640	Basement Crawl Space	0.2 pCi/L

A standard recommendation by the EPA to reduce Radon gas migration into homes is to caulk all joints and stress fractures or cracks in all slab and concrete foundations. Prior to our testing, the basement crawl space of the home had a dirt floor and various cracks and gaps in the block wall foundation. Several basement windows were found to be missing.

This round of Radon testing indicates that the basement is below the EPA 4.0 pCi/L threshold.

Radon gas concentrations can vary dependant upon other environmental factors such as barometric pressure, and Loureiro recommends retesting every two years. Loureiro also recommends that any cracks or gaps in the foundation be inspected on an annual basis and resealed as necessary.

6.0 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.

In the State of Connecticut, a licensed asbestos abatement contractor must perform all asbestos-related activities, including the renovation/demolition portion of the work that includes asbestos. Disturbance of asbestos-containing material can only be done by trained and licensed individuals. It should be noted that the State of Connecticut regulations governing asbestos abatement does not distinguish between friable and non-friable material. Therefore, full containment procedures are required for any interior abatement work (removal, encapsulation, or enclosure) involving both Category I and/or Category II non-friable asbestos-containing materials.

During any renovation or demolition process, safe work procedures must be implemented by properly lead-paint trained workers employed by contractors to address worker protection, lead exposure controls, waste stream management, and ambient air quality monitoring. Specifically, contractors will be required to comply with all applicable OSHA regulations including 29 CFR 1926.62, "Lead Exposure in Construction: Interim Final Rule" and 29 CFR 1926.59, "Hazard Communication for the Construction Industry". In addition, pre-disposal lead-waste testing requirements must be complied with.

Based upon the visual inspection and the mold swab test results, Loureiro recommends that the underlying cause of the moisture source in the basement crawl space should be corrected to eliminate or reduce the potential for mold growths.

Asbestos containing materials that will be impacted by renovation activities, as well as estimated abatement costs, are as follows:

ACM Material	Quantity	Per unit abatement cost estimate	Total Abatement Cost
Light Grey Asphalt Roof Shingles (East, Low Roof Only)	150 S.F.	\$6	\$900
Consulting Fees			\$1,000
		TOTAL	\$1,900

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 require personal protective equipment (PPE) or proper engineering controls for procedures such as 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
Painted Beadboard (Grey / Pink, 1 st Floor, and behind vinyl siding)	370 S.F.	\$8 / S.F.	\$2,960
Original Living Room Ceiling (Yellow)	320 S.F.	\$6 / S.F.	\$1,920
Original Siding (Dark Green)	128 S.F.	\$6 / S.F.	\$768
Original Window Frame	1	\$100 each	\$100
Consulting Fees at 20%			\$2,000
		TOTAL	\$6,898

Loureiro 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)	700 S.F.	\$8	\$5,600
Consulting Fees			\$1,000
		TOTAL	\$6,500

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@emsi.com

EMSL Order: 241401629
 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: 05/06/14 10:15 AM
 Analysis Date: 5/8/2014
 Collected: 5/5/2014

Project: **01MH4.13 (22 JAMES, MILFORD)**

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
050514-1A 241401629-0001	Main roof - dark grey asphalt roof shingle	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (other)	None Detected
050514-1B 241401629-0002	Main roof - dark grey asphalt roof shingle	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (other)	None Detected
050514-1C 241401629-0003	Main roof - dark grey asphalt roof shingle	Black Fibrous Homogeneous	10% Glass	5% Ca Carbonate 85% Non-fibrous (other)	None Detected
050514-2A 241401629-0004	Main roof - tar paper under #1A-C	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected
050514-2B 241401629-0005	Main roof - tar paper under #1A-C	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected
050514-2C 241401629-0006	Main roof - tar paper under #1A-C	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected
050514-3A 241401629-0007	Exterior storm windows - window frame caulk	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
050514-3B 241401629-0008	Exterior storm windows - window frame caulk	Black Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (other)	None Detected

Analyst(s)

Kristin Lopez (23)
 Lauren Brennan (26)

Gloria V. Oriol, Laboratory Manager
 or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported 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 and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%
 Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0.

Initial report from 05/08/2014 12:55:19

**EMSL Analytical, Inc.**

29 North Plains Highway, Unit # 4, Wallingford, CT 06492
 Phone/Fax: 203-284-5948 / (203) 284-5978
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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
050514-3C 241401629-0009	Exterior storm windows - window frame caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
050514-4A 241401629-0010	Mechanical closet - faux beach-wood 12"x12" self-stick floor tile	Red Non-Fibrous Homogeneous	3% Cellulose <1% Glass	50% Quartz 47% Non-fibrous (other)	None Detected
050514-4B 241401629-0011	Mechanical closet - faux beach-wood 12"x12" self-stick floor tile	Red Non-Fibrous Homogeneous		50% Quartz 50% Non-fibrous (other)	None Detected
050514-4C 241401629-0012	Mechanical closet - faux beach-wood 12"x12" self-stick floor tile	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
050514-5A 241401629-0013	Exterior walls - tar-beached paper on fiberglass batting	Black Fibrous Homogeneous	40% Cellulose 20% Glass	40% Non-fibrous (other)	None Detected
050514-5B 241401629-0014	Exterior walls - tar-beached paper on fiberglass batting	Black Fibrous Homogeneous	40% Cellulose 20% Glass	40% Non-fibrous (other)	None Detected
050514-5C 241401629-0015	Exterior walls - tar-beached paper on fiberglass batting	Brown/Black/Silver Fibrous Homogeneous	35% Cellulose 5% Glass	60% Non-fibrous (other)	None Detected
050514-6A 241401629-0016	1st floor - sheetrock	White Fibrous Homogeneous	5% Cellulose <1% Glass	40% Quartz 55% Non-fibrous (other)	None Detected

Analyst(s)

Kristin Lopez (23)
 Lauren Brennan (26)

Gloria V. Oriol, Laboratory Manager
 or other approved signatory

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Initial report from 05/08/2014 12:55:19



EMSL Analytical, Inc.

29 North Plains Highway, Unit # 4, Wallingford, CT 06492
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<http://www.EMSL.com> wallingfordlab@emsl.com

EMSL Order: 241401629
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: 05/06/14 10:15 AM
Analysis Date: 5/8/2014
Collected: 5/5/2014

Project: **01MH4.13 (22 JAMES, MILFORD)**

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
050514-6B 241401629-0017	1st floor - sheetrock	White Fibrous Homogeneous	5% Cellulose <1% Glass	40% Quartz 55% Non-fibrous (other)	None Detected
050514-6C 241401629-0018	2nd floor - sheetrock	Gray Non-Fibrous Homogeneous	3% Cellulose 2% Glass	30% Gypsum 65% Non-fibrous (other)	None Detected
050514-7A 241401629-0019	1st floor - joint compound	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (other)	None Detected
050514-7B 241401629-0020	1st floor - joint compound	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (other)	None Detected
050514-7C 241401629-0021	2nd floor - joint compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (other)	None Detected
050514-8A 241401629-0022	1st floor - sheetrock joint tape	White Fibrous Homogeneous	70% Cellulose	10% Quartz 10% Ca Carbonate 10% Non-fibrous (other)	None Detected
050514-8B 241401629-0023	1st floor - sheetrock joint tape	White Fibrous Homogeneous	70% Cellulose	5% Quartz 25% Non-fibrous (other)	None Detected
050514-8C 241401629-0024	2nd floor - sheetrock joint tape	White Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (other)	None Detected

Analyst(s)

Kristin Lopez (23)
Lauren Brennan (26)

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 05/08/2014 12:55:19



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EMSL Order: 241401629
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Attn: **Jamie Roche**
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Phone: (860) 747-6181
Fax: (860) 747-8822
Received: 05/06/14 10:15 AM
Analysis Date: 5/8/2014
Collected: 5/5/2014

Project: **01MH4.13 (22 JAMES, MILFORD)**

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
050514-9A 241401629-0025	1st floor - 2'x4' suspended ceiling tile (fissure)	Tan Fibrous Homogeneous	50% Cellulose 30% Min. Wool	<1% Ca Carbonate 20% Non-fibrous (other)	None Detected
050514-9B 241401629-0026	1st floor - 2'x4' suspended ceiling tile (fissure)	Tan Fibrous Homogeneous	50% Cellulose 30% Min. Wool	<1% Ca Carbonate 20% Non-fibrous (other)	None Detected
050514-9C 241401629-0027	1st floor - 2'x4' suspended ceiling tile (fissure)	Gray/White Fibrous Homogeneous	40% Cellulose 35% Min. Wool	20% Perlite 5% Non-fibrous (other)	None Detected
050514-10A 241401629-0028	1st floor walls - tar-thread backed fiberglass batting	Brown/Yellow Fibrous Homogeneous	40% Cellulose 15% Glass	45% Non-fibrous (other)	None Detected
050514-10B 241401629-0029	1st floor walls - tar-thread backed fiberglass batting	Tan/Yellow Fibrous Homogeneous	40% Cellulose 15% Glass	45% Non-fibrous (other)	None Detected
050514-10C 241401629-0030	1st floor walls - tar-thread backed fiberglass batting	Brown/Black/Silver Fibrous Homogeneous	40% Cellulose 5% Glass	55% Non-fibrous (other)	None Detected
050514-11A 241401629-0031	Kitchen - linoleum paper underlayment remnants	Gray Fibrous Homogeneous	30% Cellulose 5% Glass	35% Ca Carbonate 30% Non-fibrous (other)	None Detected
050514-11B 241401629-0032	Kitchen - linoleum paper underlayment remnants	Gray Fibrous Homogeneous	35% Cellulose 3% Glass	30% Ca Carbonate 32% Non-fibrous (other)	None Detected

Analyst(s)
Kristin Lopez (23)
Lauren Brennan (26)

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 05/08/2014 12:55:19

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

EMSL Order: 241401629
 CustomerID: LOUR62
 CustomerPO:
 ProjectID:

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

Phone: (860) 747-6181
 Fax: (860) 747-8822
 Received: 05/06/14 10:15 AM
 Analysis Date: 5/8/2014
 Collected: 5/5/2014

Project: 01MH4.13 (22 JAMES, MILFORD)

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	
050514-11C 241401629-0033	Kitchen - linoleum paper underlayment remnants	Gray Fibrous Homogeneous	40% Cellulose 2% Glass	20% Ca Carbonate 38% Non-fibrous (other)	None Detected	
050514-12A 241401629-0034	Kitchen - brown paneling adhesive	Tan Non-Fibrous Homogeneous	<1% Cellulose	3% Ca Carbonate 97% Non-fibrous (other)	None Detected	
050514-12B 241401629-0035	Kitchen - brown paneling adhesive	Brown Non-Fibrous Homogeneous	<1% Cellulose	4% Ca Carbonate 96% Non-fibrous (other)	None Detected	
050514-12C 241401629-0036	East roof - brown paneling adhesive	Tan Non-Fibrous Homogeneous	<1% Cellulose	4% Ca Carbonate 96% Non-fibrous (other)	None Detected	
050514-13A 241401629-0037	East roof - light grey rolled asphalt roof shingle	Gray/Black Non-Fibrous Homogeneous	20% Cellulose	7% Quartz 73% Non-fibrous (other)	None Detected	
050514-13B-Shingle 241401629-0038	East roof - light grey rolled asphalt roof shingle	Gray/Black Fibrous Homogeneous	25% Cellulose	5% Quartz 70% Non-fibrous (other)	None Detected	
050514-13B-Flashing 241401629-0038A	East roof - light grey rolled asphalt roof shingle	Black Non-Fibrous Homogeneous	<1% Cellulose	92% Non-fibrous (other)	8% Chrysotile	
050514-13C 241401629-0039	East roof - light grey rolled asphalt roof shingle	Black Fibrous Homogeneous	20% Cellulose	10% Quartz 70% Non-fibrous (other)	None Detected	

Analyst(s)

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 Lauren Brennan (26)

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 05/08/2014 12:55:19

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EMSL Order: 241401629
 CustomerID: LOUR62
 CustomerPO:
 ProjectID:

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

Phone: (860) 747-6181
 Fax: (860) 747-8822
 Received: 05/06/14 10:15 AM
 Analysis Date: 5/8/2014
 Collected: 5/5/2014

Project: **01MH4.13 (22 JAMES, MILFORD)**

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
050514-14A 241401629-0040	East roof - tar paper under #13A-C	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected
050514-14B 241401629-0041	East roof - tar paper under #13A-C	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected
050514-14C 241401629-0042	East roof - tar paper under #13A-C	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected
050514-15A 241401629-0043	1st floor living rm. - brown construction adhesive	Tan Non-Fibrous Homogeneous	<1% Cellulose	30% Ca Carbonate 70% Non-fibrous (other)	None Detected
050514-15B 241401629-0044	1st floor living rm. - brown construction adhesive	Tan Non-Fibrous Homogeneous	<1% Cellulose	20% Ca Carbonate 80% Non-fibrous (other)	None Detected
050514-15C 241401629-0045	1st floor living rm. - brown construction adhesive	Tan Non-Fibrous Homogeneous	<1% Cellulose	50% Ca Carbonate 50% Non-fibrous (other)	None Detected
050514-16A 241401629-0046	1st floor east front room - paper behind dark green siding shingles	Brown Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (other)	None Detected
050514-16B 241401629-0047	1st floor east front room - paper behind dark green siding shingles	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (other)	None Detected

Analyst(s)

Kristin Lopez (23)
 Lauren Brennan (26)

Gloria V. Oriol, Laboratory Manager
 or other approved signatory

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Initial report from 05/08/2014 12:55:19



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

EMSL Order: 241401629
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: 05/06/14 10:15 AM
Analysis Date: 5/8/2014
Collected: 5/5/2014

Project: **01MH4.13 (22 JAMES, MILFORD)**

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
050514-16C	1st floor east front room - paper behind dark green siding shingles	Tan Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected

Analyst(s)

Kristin Lopez (23)
Lauren Brennan (26)

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 05/08/2014 12:55:19



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

241401629

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: 01M44.13 (22 James Miller)		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)	<input type="checkbox"/> Other
<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: 5-5-14

Samplers Name: Brett Nicholas Samplers Signature: *[Signature]*

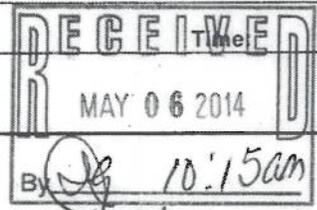
Sample #	HA #	Sample Location	Material Description
050514-1A		Main Roof	Dark Grey Asphalt Roof Shingle
* -1B		↓	↓
* -1C		↓	↓
* -2A		↓	Tar Paper under #1A-C
* -2B		↓	↓
* -2C		↓	↓
* -3A		Exterior Storm windows	window Frame Caulk
* -3B		↓	↓
* -3C		↓	↓

Client Sample # (s): 1A - 16C Total # of Samples: 48

Relinquished (Client): *[Signature]* Date: 5-5-14 Time: FedEx

Received (Lab): Date:

Comments/Special Instructions:



Fax 804124523274



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

241401629

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
050514-4A	Faux Beach-wood 12x12 self-stick Floor Tile	Mechanical Closet	5-5-14
4B	↓	↓	
4C	↓	↓	
5A	Tar-Backed Paper on Fiberglass Batting	Exterior walls	
5B	↓	↓	
5C	↓	↓	
6A	Sheetrock	1st Floor	
6B	↓	↓	
6C	↓	2nd Floor	
7A	Joint Compound	1st Floor	
7B	↓	↓	
7C	↓	2nd Floor	
8A	Sheetrock Joint Tape	1st Floor	
8B	↓	↓	
8C	↓	2nd Floor	
9A	2x4' Suspended Ceiling Tile (fissure)	1st Floor	
9B	↓	↓	
9C	↓	↓	
10A	Tar-Thread Backed Fiberglass Batting	1st Floor walls	
10B	↓	↓	
10C	↓	↓	
11A	Linoleum Paper Underlayment remnants	Kitchen	
11B	↓	↓	
11C	↓	↓	

*Comments/Special Instructions:

RECEIVED
 MAY 06 2014
 BY *[Signature]* 10:15am

Appendix B

Mold Laboratory Results



EMSL Analytical, Inc.

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Phone/Fax: 203-284-5948 / (203) 284-5978
<http://www.EMSL.com> / wallingfordlab@emsl.com

Order ID: 241401619
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: 05/05/2014
Received: 05/06/2014
Analyzed: 05/08/2014

Proj: 01MH4.13 (22 JAMES, MILFORD)

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:	241401619-0001 050514-Mold-1 Bathroom ceiling	241401619-0002 050514-Mold-2 Basement (floor joist)			
Spore Types	Category	Category			
Agrocybe/Coprinus	-	-			
Alternaria	-	-			
Ascospores	-	-			
Aspergillus/Penicillium	-	-			
Basidiospores	-	-			
Bipolaris++	-	-			
Chaetomium	-	-			
Cladosporium	*High*	*Medium*			
Curvularia	-	-			
Epicoccum	-	-			
Fusarium	-	-			
Ganoderma	-	-			
Myxomycetes++	-	-			
Paecilomyces	-	-			
Rust	-	-			
Scopulariopsis	-	-			
Stachybotrys	-	-			
Torula	-	-			
Ulocladium	-	-			
Unidentifiable Spores	-	-			
Zygomycetes	-	-			
Fibrous Particulate	-	-			
Hyphal Fragment	High	Medium			
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.

Gloria V. Oriol, Laboratory Manager
or Other Approved Signatory

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

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Samples analyzed by EMSL Analytical, Inc. Wallingford, CT AIHA-LAP, LLC--EMLAP Accredited #165118

Initial report from: 05/08/2014 10:13:19

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

241401619

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		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments** Third Party Billing requires written authorization from third party</small>	
Street: 100 Northwest Dr			
City/State/Zip: Plainville, CT 06062			
Report To (Name): Jamie Roche		Fax: 860-747-8822	
Telephone: 860-747-6181		Email Address: jaroche@loureiro.com	
Project Name/Number: DMH4.13 (22 James, Milford)			
Please Provide Results: Email	Purchase Order:	State Samples Taken: CT	Connecticut Samples: <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> 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	• M173 Allegro M2	• M004 Allergenco	• M032 Allergenco-D	• M172 Versa Trap
• M049 BioSIS	• M003 Burkard	• M043 Cyclex	• M002 Cyclex-d	
• M030 Micro 5	• M174 MoldSnap	• M176 Relle Smart	• M130 Via-Cell	

Other Microbiology Test Codes

<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • M029 Enterococci • M019 Fecal Coliform • M133 MRSA Analysis • M028 <i>Cryptococcus neoformans</i> Detection • M120 <i>Histoplasma capsulatum</i> Detection • M033-39 Allergen Testing • M044 Group Allergen (Cat, Dog, Cockroach, Dustmites) • Other See Analytical Price Guide
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Preservation Method (Water):

Name of Sampler: Brett Nicholes Signature of Sampler:

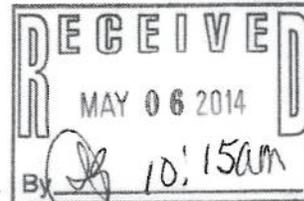
Sample #	Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collected
050514-Mold-1	Bathroom Ceiling	swab	M041		5-5-14
- - -2	Basement (Floor Joist)	swab	M041		5-5-14

Client Sample # (s): 1-2 Total # of Samples: 2

Relinquished (Client): Date: 5-5-14 Time: FedEx

Received (Client): Date: Time:

Comments/Special Instructions:



124523274

Appendix C

Radon Air Testing Results

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-0327
<http://www.EMSL.com> RadonLab@emsl.com

EMSL Order: 381402247
 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: 05/07/14 3:05 PM
 Analysis Date: 5/8/2014
 Collected: 5/2/2014

Project: **22 James Street**

Test **22 James Street**
 Site: **Milford, CT 06460**

Test Report: Radon in Air Test Results**Samples for EMSL Kit 93737**

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
157677	Basement	0.2	5/2/2014	5/5/2014	65	60	Customer
381402247-0001			8:57:00 AM	9:09:00 AM			
Sample Notes:							
157640	Basement	0.2	5/2/2014	5/5/2014	65	60	Customer
381402247-0002			8:57:00 AM	9:09:00 AM			
Sample Notes:							

Summary for EMSL kit 93737 Average Radon Result: 0.2 pCi/L

The results indicate that both testing devices registered below the United States Environmental Protection Agency (EPA) action level of 4.0 picoCuries per liter of air (pCi/L). The EPA recommends fixing your home if the average of two short-term tests taken in the lowest lived-in level of the home show radon levels that are equal to or greater than 4.0pCi/L. The radon test was performed using a liquid scintillation radon detector/s and counted on a liquid scintillation counter using approved EPA testing protocols for Radon in Air testing. The EPA recommends retesting your home every two years.

Please contact EMSL Analytical, Inc. or your State Health Department for further information.
 All procedures used for generating this report are in complete accordance with the current EPA protocols for the analysis of Radon in Air.

Report Notes

Analyst(s)
 Laura Freeman (2)


 Garrett A. Ray, Laboratory Manager
 Certified Radon Measurement Specialist NRSB 5SS0093
 NJ MES12264, FL R2001, NE 116, PA 2572

In no event shall EMSL be liable for indirect, special, consequential, or incidental damages, including, but not limited to, damages for loss of profit or goodwill regardless of the negligence (either sole or concurrent) of EMSL and whether EMSL has been informed of the possibility of such damages, arising out of or in connection with EMSL's services thereunder or the delivery, use, reliance upon or interpretation of test results by client or any third party. We accept no legal responsibility for the purposes for which the client uses the test results. In no event shall EMSL be liable to a client or any third party, whether based upon theories of tort, contract or any other legal or equitable theory, in excess of the amount paid to EMSL by client thereunder. The test results meets all NELAC requirements unless otherwise specified. Accreditations: NRSB ARL6006, NJ DEP 03036, MEB 92525, PA 2573, IN 00455, IA L00032, RI RAS-024, ME 20200C, NE RMB-1083, NY ELAP 10872, NM 885-10L, FL RB2034, OH RL-39, NRPP #106178AL, KS-LB-0005

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ

Initial report from 05/09/2014 12:20:29

Please visit www.radontestinglab.com

Appendix D

Staff and Laboratory Certifications

INSTRUCTIONS:

- 1. Detach and sign each of the cards on this form.
- 2. Display the large card in a prominent place in your office or place of business.
- 3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.

4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

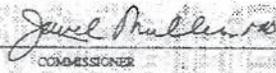
STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

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

ASBESTOS CONSULTANT - INSPECTOR

BRETT M. NICHOLAS

LICENSE NO.
000685
CURRENT THROUGH
07/31/14
VALIDATION NO.
03-627042

SIGNATURE:  COMMISSIONER: 

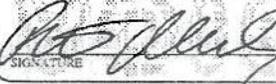
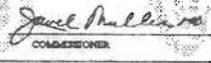
EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
BRETT M. NICHOLAS

VALIDATION NO. 03-627042 LICENSE NO. 000685 CURRENT THROUGH 07/31/14

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE:  COMMISSIONER: 

INSTRUCTIONS:

- 1. Detach and sign each of the cards on this form.
- 2. Display the large card in a prominent place in your office or place of business.
- 3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.

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STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

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

LEAD INSPECTOR

BRETT M. NICHOLAS

CERTIFICATION NO.
002212
CURRENT THROUGH
07/31/14
VALIDATION NO.
03-756542

SIGNATURE:  COMMISSIONER: 

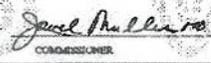
EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
BRETT M. NICHOLAS

VALIDATION NO. 03-756542 CERTIFICATION NO. 002212 CURRENT THROUGH 07/31/14

PROFESSION
LEAD INSPECTOR

SIGNATURE:  COMMISSIONER: 



National Institute of Standards & Technology

Certificate of Analysis

Standard Reference Material® 2573

Lead Paint Film

For Portable X-Ray Fluorescence Analyzers – Nominal 1.0 mg/cm²
(Color Code: Red)

This Standard Reference Material (SRM) is intended for checking the calibration of portable, hand-held, x-ray fluorescence analyzers when testing for lead in paint coatings on interior and exterior building surfaces. A unit of SRM 2573 consists of a white polyester sheet, approximately 7.6 cm wide, 10.2 cm long, and 0.2 mm thick, coated with a single, red-colored paint layer, approximately 0.04 mm thick. A blank, SRM 2570, is also provided. The blank is coated with a lead-free, lacquer layer on a white polyester sheet of the same thickness as the lead paint samples. All sheets are over-coated with a clear, thin, plastic laminate to protect the surface from abrasion. SRM 2573 and SRM 2570 are two of a set of six paint films (SRM 2570 to SRM 2575) available as SRM 2579a.

The certified values for lead for this SRM and the blank, SRM 2570, are reported in Table 1 in units of mg/cm². These values are based on measurements by isotope dilution inductively-coupled plasma mass spectrometry.

Table 1. Certified Lead Values

Level	Color Code	Lead Concentration, in mg/cm ²
SRM 2570	White (Blank)	<0.001
SRM 2573	Red	1.040 ± 0.064

The uncertainty of each certified value is expressed as an expanded uncertainty, U , at the 95 % level of confidence and is calculated according to the method described in the ISO Guide [1,2]. Because of variability in the paint film between different sheets of each SRM, the uncertainties are 95 % prediction intervals. The expanded uncertainty is calculated as $U = ku_c$, where u_c is intended to represent, at the level of one standard deviation, the combined uncertainty due to material variability and measurement uncertainty. The coverage factor, k , is determined from the Student's t -distribution corresponding to the calculated effective degrees of freedom and 95 % level of confidence.

Expiration of Certification: The certification of SRM 2573 is valid, within the measurement uncertainties specified, until 01 July 2020, provided the SRM is handled and stored in accordance with the instructions given in this certificate (see "Instructions for Use"). The certification is nullified if the SRM is damaged, contaminated, or otherwise modified.

Maintenance of SRM Certification: NIST will monitor this SRM over the period of its certification. If substantive technical changes occur that affect the certification before the expiration of this certificate, NIST will notify the purchaser. Registration (see attached sheet) will facilitate notification.

The overall direction and coordination of the analytical measurements leading to certification were performed by G.C. Turk and J.D. Fassett of the NIST Analytical Chemistry Division. Analytical measurements were performed by K.E. Murphy, J.R. Sieber, A.F. Marlow, L.J. Wood, P.R. Seo, and M. Lankosz of the NIST Analytical Chemistry Division. The SRM was fabricated under the direction of J.R. Sieber of the NIST Analytical Chemistry Division.

Stephen A. Wise, Chief
Analytical Chemistry Division

Robert L. Watters, Jr., Chief
Measurement Services Division

Gaithersburg, MD 20899
Certificate Issue Date: 24 March 2009
See Certificate Revision History on Last Page

Statistical consultation for this SRM was provided by E.S. Lagergren and N.F. Zhang of the NIST Statistical Engineering Division.

Support aspects involved in the issuance of this SRM were coordinated through the NIST Measurement Services Division.

NOTICE AND WARNING TO USERS

NOTE: This SRM contains lead, as a lead chromate pigment, which is toxic and a suspected carcinogen to the lung and kidney. The SRM must be handled with care and disposed of according to the U.S. Environmental Protection Agency (EPA) practices and procedures.

INSTRUCTIONS FOR USE

The SRM sheet must first be removed from the plastic sleeve in which it is stored and then positioned so that the side labeled with the NIST logo and SRM number faces the x-ray source. For best results, the size of the x-ray beam from the field unit should irradiate an area of the SRM that is at least 2.5 cm in diameter and is centered on the sheet. Care must be exercised not to compromise the protective plastic laminate which prevents scratching or chipping of the painted surface and the potential release of dust containing lead. Upon completion of the measurement, the SRM must be re-stored in the plastic sleeve provided. It is also recommended that this SRM be stored indoors at ambient room temperature and away from direct sunlight when not in use.

Stability: This SRM is considered to be stable during the period of certification. NIST will monitor the SRM and will report any significant changes in certification to the purchaser. Return of the attached registration card will facilitate notification.

PREPARATION

SRM Preparation: The paint-coated, polyester sheets were prepared by an automated coating process at a commercial facility under contract to NIST. Known concentrations of a lead chromate pigment were dispersed in a commercial paint vehicle to prepare the lead paints. A lead-free, organic tint was added to each paint mixture to give the desired color. A thin, protective overlay of plastic laminate was applied to each paint film. The attenuation of lead $L_{3-4,5}$ ($L_{\alpha_{1,2}}$) X-rays due to the protective overlay does not exceed 2 % relative, while that of $K-L_{2,3}$ ($K_{\alpha_{1,2}}$) x-rays commonly used for field measurement is negligible.

REFERENCES

- [1] ISO; *Guide to the Expression of Uncertainty in Measurement*; ISBN 92-67-10188-9, 1st ed., International Organization for Standardization: Geneva, Switzerland (1993); see also Taylor, B.N.; Kuyatt, C.E.; *Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results*; NIST Technical Note 1297, U.S. Government Printing Office: Washington, DC (1994); available at <http://physics.nist.gov/Pubs/>.
- [2] Hahn, G.J.; Meeker, W.Q.; *Statistical Intervals: A Guide for Practitioners*; John Wiley & Sons, Inc., New York, NY (1991).

Certificate Revision History: 24 March 2009 (Extension of certification period); 29 November 1999 (Original certificate date).

Users of this SRM should ensure that the certificate in their possession is current. This can be accomplished by contacting the SRM Program at: telephone (301) 975-2200; fax (301) 926-4751; e-mail srminfo@nist.gov; or via the Internet at <http://www.nist.gov/srm>.

Performance Characteristic Sheet

EFFECTIVE DATE: October 12, 2006

EDITION NO.: 1

MANUFACTURER AND MODEL:

Make: *Innov-X Systems, Inc.*
Models: *LBP4000 with software version 1.4 and higher*
Source: *X-ray tube (no radioactive isotopes)*

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Inspection mode, variable reading time.

XRF CALIBRATION CHECK LIMITS:

1.0 to 1.1 mg/cm ² (inclusive)

SUBSTRATE CORRECTION:

Not applicable

INCONCLUSIVE RANGE OR THRESHOLD:

INSPECTION MODE READING DESCRIPTION	SUBSTRATE	INCONCLUSIVE RANGE (mg/cm ²)
Results not corrected for substrate bias on any substrate	Brick	0.6 to 1.1
	Concrete	0.6 to 1.1
	Drywall	0.6 to 1.1
	Metal	0.6 to 1.1
	Plaster	0.6 to 1.1
	Wood	0.6 to 1.1

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted on 146 test locations, with two separate instruments, in December 2005.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² film).

If the average (rounded to 1 decimal place) of three readings is outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instrument into control before XRF testing proceeds.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm² for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm² at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm². Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.

Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.

For each substrate type (the 1.02 mg/cm² NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):

$$\text{Correction value} = (1\text{st} + 2\text{nd} + 3\text{rd} + 4\text{th} + 5\text{th} + 6\text{th Reading}) / 6 - 1.02 \text{ mg/cm}^2$$

Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing.

Take one XRF reading on each of the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Calculate the average of the original XRF reading and the retest XRF reading for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF readings.

Compute the average of all ten re-test XRF readings.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

For the variable-time inspection paint test mode, the instrument continues to read until it has determined whether the result is positive or negative (with respect to the 1.0 mg/cm² Federal standard), with 95% confidence. The following table provides testing time information for this testing mode.

Testing Times Using Variable Reading Time Inspection Mode (Seconds)						
Substrate	All Data			Median for laboratory-measured lead levels (mg/cm ²)		
	25 th Percentile	Median	75 th Percentile	Pb < 0.25	0.25 < Pb < 1.0	1.0 < Pb
Wood, Drywall	2.1	2.3	5.4	2.2	5.4	2.2
Metal	2.6	3.2	5.3	2.7	5.1	5.1
Brick, Concrete, Plaster	3.1	4.0	5.7	3.2	4.0	5.9

CLASSIFICATION OF RESULTS:

When an inconclusive range is specified on the *Performance Characteristic Sheet*, XRF results are classified as positive if they are greater than the upper boundary of the inconclusive range, negative if they are less than the lower boundary of the inconclusive range, or inconclusive if in between. The inconclusive range includes both its upper and lower bounds. If the instrument reads "> x mg/cm²", the value "x" should be used for classification purposes, ignoring the ">". For example, a reading reported as ">1.0 mg/cm²" is classified as 1.0 mg/cm², or inconclusive. When the inconclusive range reported in this PCS is used to classify the readings obtained in the EPA/HUD evaluation, the following False Positive, False Negative and Inconclusive rates are obtained:

- FALSE POSITIVE RATE: 2.5% (2/80)
- FALSE NEGATIVE RATE: 1.9% (4/212)
- INCONCLUSIVE RATE: 16.4% (48/212)

DOCUMENTATION:

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. XRF Performance Characteristic Sheets were originally developed by the MRI under a grant from the U. S. Environmental Protection Agency and the U.S. Department of Housing and Urban Development. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.



State of Connecticut

CITY OF MILFORD

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



Permit No. Z-15-73

Zoning Permit

VALUE: \$2000000.00

FEE PAID: \$60.00

DATE ISSUED: 3/3/2015

PERMIT FOR: Site Improvements

This certifies that MIRMINA JOSEPH P & ANN MARIE &

has permission to conduct activities at: 22 JAMES ST

as follows: Elevate existing home to FF of 17.25'. Foundation wall with 4 smart vents. New 18.6'x12' rear deck with stairs. new 4'-11, 3/4"x3'-10" addition to Northeast corner of house. Interior remodeling and exterior remodeling to include siding, windows, doors.

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

3/3/2015

Date

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



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-15-153**

Date Received: **3/3/2015**

Job Location: **22 JAMES ST**

Permit For: **SANDY - Residential Repair**

Contractor's Name:

Phone:

Contractor's Address:

City:

State:

Zip Code:

State Lic. No:

(Home)Owner's Name: **MIRMINA JOSEPH P & ANN MARIE &**

Phone:

(Home)Owner's Address: **22 JAMES ST**

Work Description: **Elevate existing home to FF of 17.25'. Foundation wall with 4 smart vents. New 18.6'x12' rear deck with stairs. new 4'-11, 3/4"x3'-10" addition to Northeast corner of house. Interior remodeling and exterior remodeling to include siding, windows, doors.**

Total Value Of Work To Be Performed: **\$200,000.00**

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**

3/3/2015

(203) 795-5656

Applicant

Date

Telephone No.

Estimated Construction Costs / Permit Fees

Total Project Cost :	\$200,000.00	Payment Date	Amount Paid	Check No
Total Permit Fee:	\$52.00			
Total Permit Fee Paid:	\$0.00			

THIS IS NOT A PERMIT