Connecticut
still revolutionary

Department of Economic and Community Development

State Historic Preservation Office

JOY

February 3, 2017

received
2-7-17

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

1588

Subject: Department of Housing Superstorm Sandy Reviews Application #1773
53 Roseleah Drive
Stonington (Mystic), Connecticut

Dear Ms. Delaire:

The State Historic Preservation Office has reviewed the information submitted to this office for the above-named property pursuant to the provisions of Section 106 of the National Historic Preservation Act of 1966, as amended. It is the opinion of this office that the property located at 53 Roseleah Drive does not appear to be eligible for listing on the National Register of Historic Places as an individual property or as a contributing element to a historic district. Based on the information provided to this office, no historic properties will be affected by the proposed rehabilitation and elevation.

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

Sincerely,

Catherine Labadia
Deputy State Historic Preservation Officer

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) Report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS Report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Connecticut State Plane Zone (FIPS zone 0600). The **horizontal datum** was NAD 83, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713- 3242**, or visit its website at http://www.ngs.noaa.gov.

Base map information shown on FIRM panels produced for this coastal study revision was derived from digital orthophotography. Base map files were provided in digital form by the Connecticut Department of Environmental Protection. Ortho imagery was produced at a scale of 1:12,000. Aerial photography is dated 2000, 2004 and 2005. The projection used in the preparation of this map was Connecticut State Plane zone (FIPSZONE0600). The horizontal datum was NAD83, GRS1980 spheroid.

The AE Zone category has been divided by a **Limit of Moderate Wave Action (LiMWA)**. The LiMWA represents the approximate landward limit of the 1.5 foot breaking wave. The effects of wave hazards between the VE Zone and the LiMWA (or between the shoreline and the LiMWA for areas where VE Zones are not identified) will be similar to, but less severe than those in the VE Zone.

The **profile baselines** depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the **profile baseline**, in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

Based on updated topographic information, this map reflects more detailed and up-to-date **stream channel configurations and floodplain delineations** than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables for multiple streams in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on the map. Also, the road to floodplain relationships for unrevised streams may differ from what is shown on previous maps.

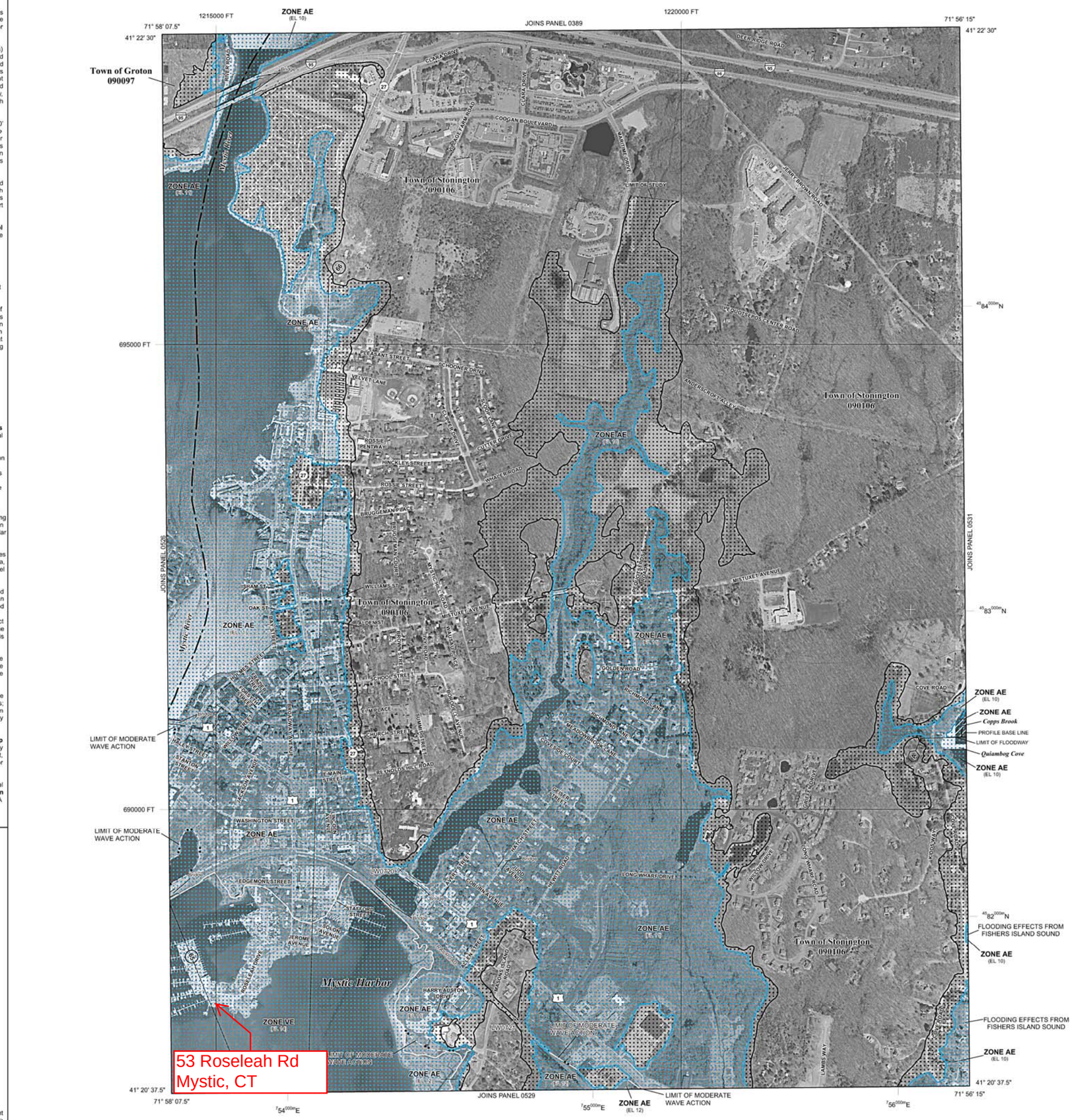
Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

For information on available products associated with this FIRM visit the **Map Service Center (MSC)** website at http://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

If you have **questions about this map**, how to order products, or the National Flood Insurance Program in general, please call the **FEMA Map Information eXchange (FMIX)** at **1-877-FEMA-MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfip.

Only coastal structures that are certified to provide protection from the 1 percent annual chance flood are shown on this panel. However, all structures taken into consideration for the purpose of coastal flood hazard analysis and mapping are present in the FIRM database in S_Gen_Struct.



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% Annual Chance Floodplain Boundary
- 0.2% Annual Chance Floodplain Boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.
- Limit of Moderate Wave Action
- Limit of Moderate Wave Action coincident with Zone Break
- 513 — Base Flood Elevation line and value; elevation in feet*
- (EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

- A — A — Cross section line
- 23 — 23 — Transect line
- Culvert
- Bridge
- 45° 02' 08", 93° 02' 12" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere
- 3100000 FT — 5000-foot ticks: Connecticut State Plane Zone (FIPS Zone 0600), Lambert Conformal Conic projection
- 4489000m N — 1000-meter Universal Transverse Mercator grid values, zone 18N
- DX5510 × — Bench mark (see explanation in Notes to Users section of this FIRM panel)

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
July 18, 2011

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
August 5, 2013 - to change Base Flood Elevations and Special Flood Hazard Areas, to change zone designations, to update the effects of wave action, to update corporate limits, to add roads and road names and to modify Coastal Barrier Resources System units.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'

250 0 500 1000 FEET
150 0 150 300 METERS

NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0527J

FIRM

FLOOD INSURANCE RATE MAP

NEW LONDON COUNTY, CONNECTICUT (ALL JURISDICTIONS)

PANEL 527 OF 554
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
GROTON, TOWN OF	090097	0527	J
STONINGTON, TOWN OF	090105	0527	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
09011C0527J
MAP REVISED
AUGUST 5, 2013

Federal Emergency Management Agency

U.S. Fish and Wildlife Service
National Wetlands Inventory

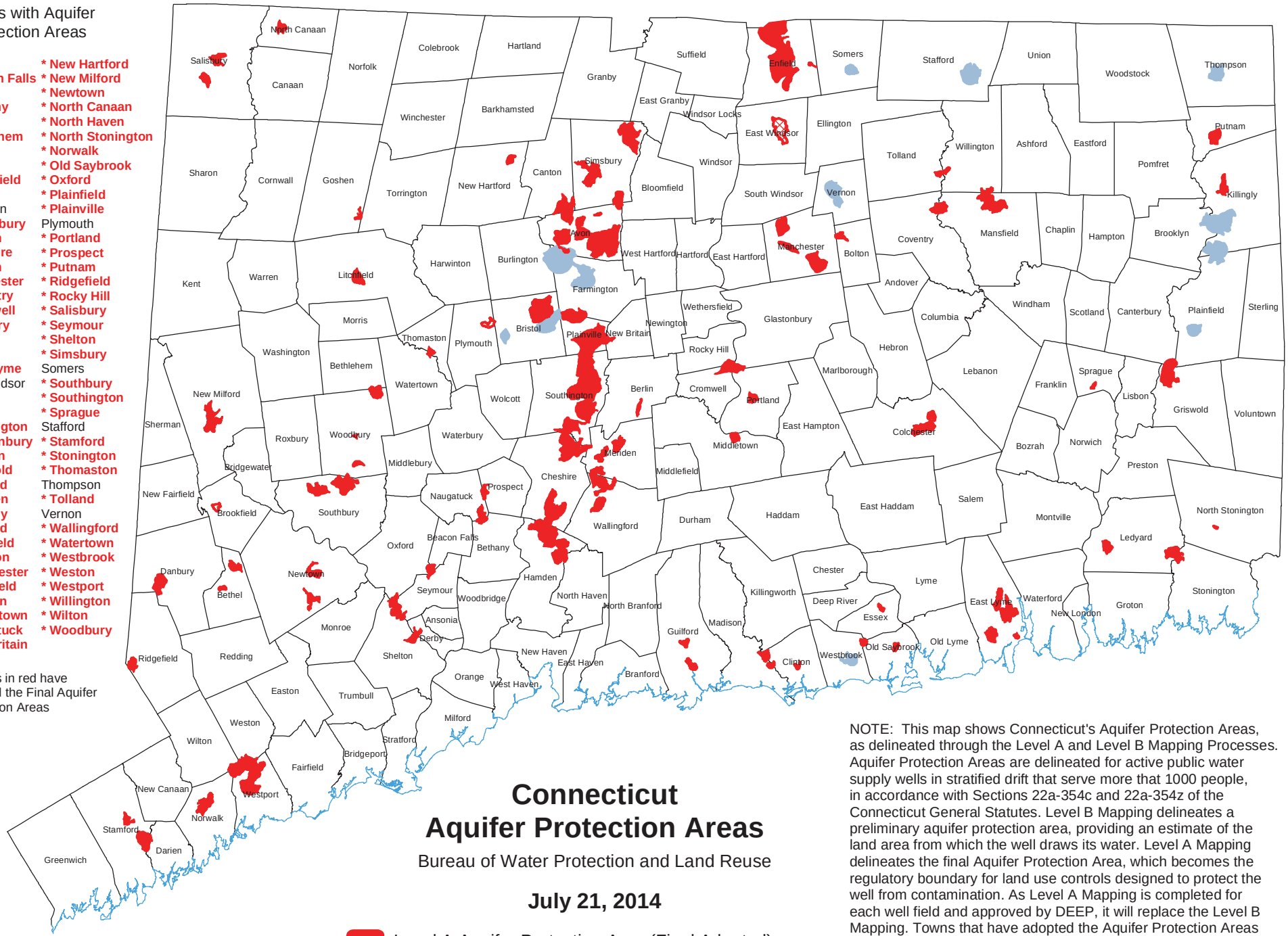
53 Roseleah Drive- Mystic, CT

September 2, 2017

Wetlands

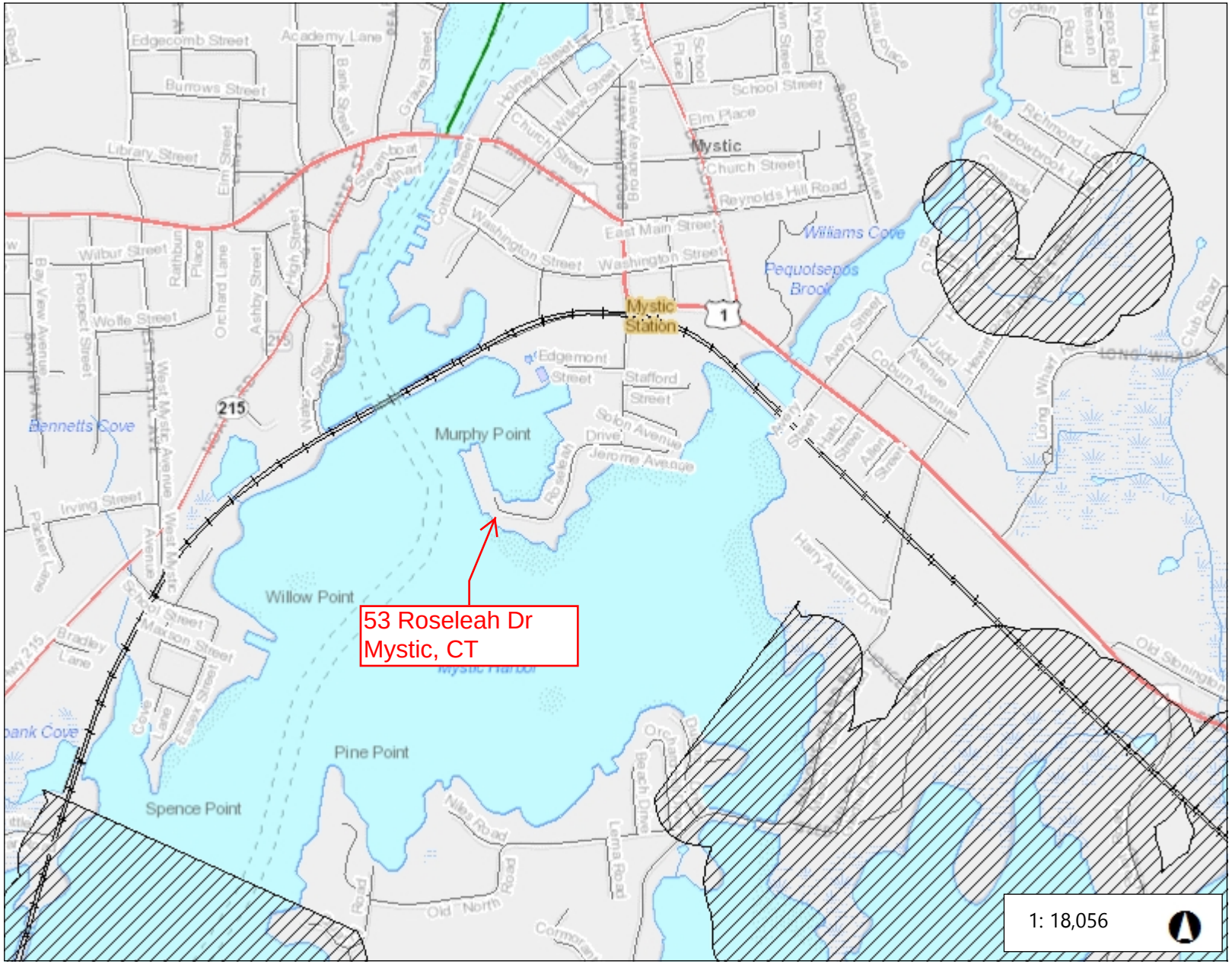
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

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.


Towns with Aquifer Protection Areas
* Avon
* Beacon Falls
* Berlin
* Bethany
* Bethel
* Bethlehem
* Bolton
* Bristol
* Brookfield
Brooklyn
Burlington
* Canterbury
* Canton
* Cheshire
* Clinton
* Colchester
* Coventry
* Cromwell
* Danbury
* Darien
* Derby
* East Lyme
East Windsor
* Enfield
* Essex
* Farmington
* Glastonbury
* Goshen
* Griswold
* Guilford
* Hamden
* Killingly
* Ledyard
* Litchfield
* Madison
* Manchester
* Mansfield
* Meriden
* Middletown
* Naugatuck
* New Britain
* New Hartford
* New Milford
* Newtown
* North Canaan
* North Haven
* North Stonington
* Norwalk
* Old Saybrook
* Oxford
* Plainfield
* Plainville
Plymouth
* Portland
* Prospect
* Putnam
* Ridgefield
* Rocky Hill
* Salisbury
* Seymour
* Shelton
* Simsbury
Somers
* Southbury
* Southington
* Sprague
Stafford
* Stamford
* Stonington
* Thomaston
Thompson
* Tolland
Vernon
* Wallingford
* Watertown
* Westbrook
* Weston
* Westport
* Willington
* Wilton
* Woodbury
* Towns in red have adopted the Final Aquifer Protection Areas
Connecticut
Aquifer Protection Areas
Bureau of Water Protection and Land Reuse
July 21, 2014
Level A Aquifer Protection Area (Final Adopted)
Level A Aquifer Protection Area (Final)
Level B Aquifer Protection Area (Preliminary)
NOTE: This map shows Connecticut's Aquifer Protection Areas, as delineated through the Level A and Level B Mapping Processes. Aquifer Protection Areas are delineated for active public water supply wells in stratified drift that serve more that 1000 people, in accordance with Sections 22a-354c and 22a-354z of the Connecticut General Statutes. Level B Mapping delineates a preliminary aquifer protection area, providing an estimate of the land area from which the well draws its water. Level A Mapping delineates the final Aquifer Protection Area, which becomes the regulatory boundary for land use controls designed to protect the well from contamination. As Level A Mapping is completed for each well field and approved by DEEP, it will replace the Level B Mapping. Towns that have adopted the Aquifer Protection Areas at the local level and for which land use regulations are now in place are designated by the solid red above and in red in the list of Towns with Aquifer Protection Areas.
www.ct.gov/deep/aquiferprotection
Connecticut Department of Energy & Environmental Protection
79 Elm Street
Hartford, CT 06106

CT Environmental Conditions Online

Mystic- Natural Diversity Database



Legend

- Natural Diversity Database Are
- Geographic Names7
- Geographic Place 3
- Airport
  - Airport
  - Heliport
- Railroad
- Streets
  - Interstate Highway
  - US Highway
  - State Highway
  - Primary limited-access
  - Ramp
  - Street
  - Ferry crossing
- County Line
  - State Boundary
  - County Boundary
  - Coastline
- County Name
- Town Line
  - State Boundary
  - Town Boundary
  - Coastline
- CT Town Name
- Waterbody Line 7

Notes

0.6 0 0.28 0.6 Miles

THIS MAP IS NOT TO BE USED FOR NAVIGATION

This map is intended for general planning, management, education, and research purposes only. Data shown on this map may not be complete or current. The data shown may have been compiled at different times and at different map scales, which may not match the scale at which the data is shown on this map.

Natural Diversity Data Base Areas

STONINGTON, CT

June 2017

State and Federal Listed Species & Significant Natural Communities

Town Boundary

NOTE: This map shows general locations of State and Federal Listed Species and Significant Natural Communities. Information on listed species is collected and compiled by the Natural Diversity Data Base (NDDB) from a number of data sources . Exact locations of species have been buffered to produce the general locations. Exact locations of species and communities occur somewhere in the shaded areas, not necessarily in the center. A new mapping format is being employed that more accurately models important riparian and aquatic areas and eliminates the need for the upstream/downstream searches required in previous versions.

This map is intended for use as a preliminary screening tool for conducting a Natural Diversity Data Base Review Request. To use the map, locate the project boundaries and any additional affected areas. If the project is within a shaded area there may be a potential conflict with a listed species. For more information, complete a Request for Natural Diversity Data Base State Listed Species Review form (DEP-APP-007), and submit it to the NDDB along with the required maps and information. More detailed instructions are provided with the request form on our website.

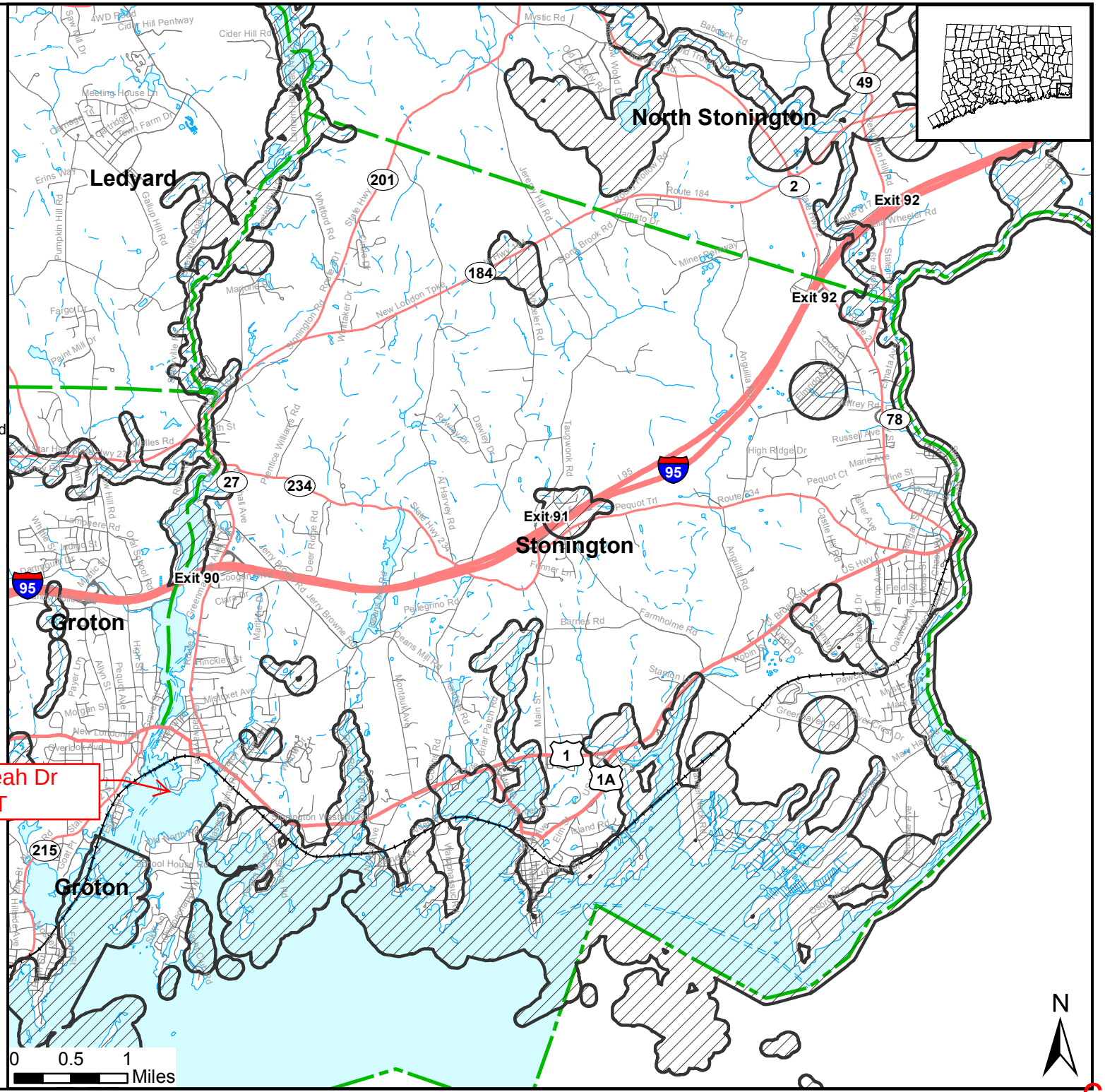
www.ct.gov/deep/nddbrequest

Use the CTECO Interactive Map Viewers at www.cteco.uconn.edu to more precisely search for and locate a site and to view aerial imagery with NDDB Areas.

QUESTIONS: Department of Energy and Environmental Protection (DEEP)
79 Elm St., Hartford CT 06106
Phone (860) 424-3011

Connecticut Department of Energy & Environmental Protection
Bureau of Natural Resources
Wildlife Division

53 Roseleah Dr
Mystic, CT



Site Name	City	Site EPA ID	Listing Date	Site Score	Federal Facility Indicator	Additional Information

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Connecticut (14 sites)

Site Name	City	Site EPA ID	Listing Date	Site Score	Federal Facility Indicator	Additional Information
Barkhamsted-New Hartford Landfill	Barkhamsted	CTD980732333	10/04/1989	38.05	No	• Site Listing Narrative • Site Progress Profile • Federal Register Notice (PDF) (19 pp, 302 K)
Beacon Heights Landfill	Beacon Falls	CTD072122062	09/08/1983	46.77	No	• Site Listing Narrative • Site Progress Profile • Federal Register Notice (PDF) (36 pp, 441 K)
Durham Meadows	Durham	CTD001452093	10/04/1989	33.94	No	• Site Listing Narrative • Site Progress Profile

Durham Meadows	Durham	CTD001452093	10/04/1989	33.94	No	• Federal Register Notice (PDF) (19 pp, 302 K)
Gallup's Quarry	Plainfield	CTD108960972	10/04/1989	46.29	No	• Site Listing Narrative • Site Progress Profile • Federal Register Notice (PDF) (19 pp, 302 K)

Kellogg-Deering Well Field	Norwalk	CTD980670814	09/21/1984	39.92	No	• Site Listing Narrative • Site Progress Profile • Federal Register Notice (PDF) (22 pp, 177 K)
Laurel Park, Inc.	Naugatuck Borough	CTD980521165	09/08/1983		No	• Site Listing Narrative • Site Progress Profile • Federal Register Notice (PDF) (36 pp, 441 K)
Linemaster Switch Corp.	Woodstock	CTD001153923	02/21/1990	33.71	No	• Site Listing Narrative • Site Progress Profile • Federal Register

						• Federal Register Notice (PDF) (21 pp, 326 K)
New London Submarine Base	New London	CTD980906515	08/30/1990	36.53	Yes	• Site Listing Narrative • Site Progress Profile • Federal Register Notice (PDF) (22 pp, 293 K)

Old Southington Landfill	Southington	CTD980670806	09/21/1984	54.35	No	• Site Listing Narrative • Site Progress Profile • Federal Register Notice (PDF) (22 pp, 177 K)
Precision Plating Corp.	Vernon	CTD051316313	10/04/1989	49.10	No	• Site Listing Narrative • Site Progress Profile • Federal Register Notice (PDF) (19 pp, 302 K)
Raymark Industries, Inc.	Stratford	CTD001186618	04/25/1995		No	• Site Listing Narrative • Site Progress Profile • Federal Register

						Notice (PDF) (24 pp, 358 K)
Scovill Industrial Landfill	Waterbury	CT0002265551	07/27/2000	50.00	No	• Site Listing Narrative • Site Progress Profile • Federal Register Notice (PDF) (9 pp, 275 K)

Solvents Recovery Service of New England	Southington	CTD009717604	09/08/1983	44.93	No	• Site Listing Narrative • Site Progress Profile • Federal Register Notice (PDF) (36 pp, 441 K)
Yaworski Waste Lagoon	Canterbury	CTD009774969	09/08/1983	36.72	No	• Site Listing Narrative • Site Progress Profile • Federal Register Notice (PDF) (36 pp, 441 K)

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Delaware (13 sites)						

List of Contaminated or Potentially Contaminated Sites

"Hazardous Waste Facilities" as defined by Section 22a-134f of the Connecticut General Statutes

TOWN OF: STONINGTON

Name	Address	Site Definition	Investigation Started	Remediation Started	Post Remedial Monitoring Started	Remediation Completed	ELUR	ELUR Type
Atwood Machine Factory	30-32 Water Street (unit 25)	Property Transfer - Form IV Post Remedial Monitoring Started	5/12/2006	5/12/2006	5/12/2006		NO	
Atwood Machine Factory	30-32 Water Street (unit 26)	Property Transfer - Form IV Post Remedial Monitoring Started	5/12/2006	5/12/2006	5/12/2006		NO	
Atwood Machine Factory	30-32 Water Street (unit 27)	Property Transfer - Form IV Post Remedial Monitoring Started	5/12/2006	5/12/2006	5/12/2006		NO	
Atwood Machine Factory	30-32 Water Street (unit 28)	Property Transfer - Form IV Post Remedial Monitoring Started	5/12/2006	5/12/2006	5/12/2006		NO	
Atwood Machine Factory	30-32 Water Street (unit 29)	Property Transfer - Form IV Post Remedial Monitoring Started	5/12/2006	5/12/2006	5/12/2006		NO	
Atwood Machine Factory	30-32 Water Street (unit 32)	Property Transfer - Form IV Post Remedial Monitoring Started	12/12/2006	12/12/2006	12/12/2006		NO	
Atwood Machine Factory	30-32 Water Street (unit 36)	Property Transfer - Form IV Post Remedial Monitoring Started	9/18/2006	9/18/2006	9/18/2006		NO	
Atwood Machine Factory	30-32 Water Street (unit 37)	Property Transfer - Form IV Post Remedial Monitoring Started	12/12/2006	12/12/2006	12/12/2006		NO	
Atwood Machine Factory	30-32 Water Street (unit 38)	Property Transfer - Form IV Post Remedial Monitoring Started	5/12/2006	5/12/2006	5/12/2006		NO	
Atwood Machine Factory	30-32 Water Street (unit 40)	Property Transfer - Form IV Post Remedial Monitoring Started	2/20/2007	2/20/2007	2/20/2007		NO	
Atwood Machine Factory	30-32 Water Street (unit 7)	Property Transfer - Form IV Post Remedial Monitoring Started	1/3/2008	1/3/2008	1/3/2008		NO	
Atwood Machine Factory	30-32 Water Street (unit E)	Property Transfer - Form IV Post Remedial Monitoring Started	4/23/2008	4/23/2008	4/23/2008		NO	
Atwood Machine Factory (now Condos)	30-32 Water Street (unit A)	Property Transfer – Form III Investigation started	3/17/2005					
Bon Ami French Cleaners	11 Cottrell Street	Property Transfer – Form III Investigation started	1/3/2008					
Bon Ami French Cleaners	11 Cottrell Street	Property Transfer – Form III Investigation started	7/9/2010					
Brewer Yacht Yard At Mystic	56 Roseleah Drive	Leaking Underground Storage Tanks – Rem. Started						

2014 Distressed Municipalities List
Prepared by DECD Research
8/19/2014

2014 Distressed Municipalities
Ranked by Score

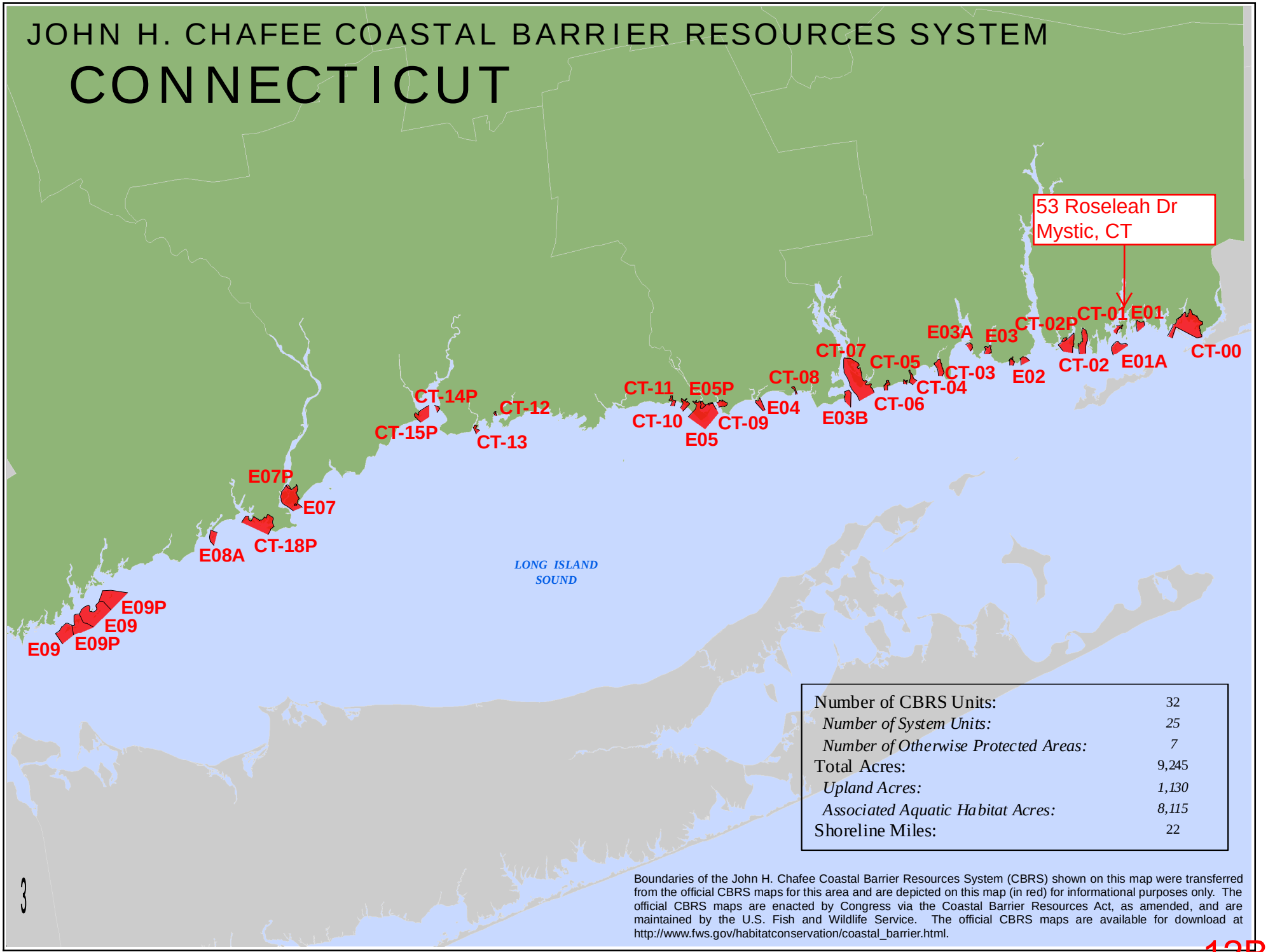
	Total Scores	Ranking
Hartford	1,448	1
Waterbury	1,439	2
New Britain	1,431	3
Bridgeport	1,374	4
New London	1,365	5
Ansonia	1,330	6
Derby	1,327	7
Naugatuck	1,315	8
Windham	1,285	9
Meriden	1,272	10
Torrington	1,255	11
North Canaan	1,251	12
Bristol	1,250	13
Plainfield	1,243	14
Putnam	1,243	15
Killingly	1,229	16
New Haven	1,228	17
Sprague	1,218	18
East Hartford	1,215	19
West Haven	1,196	20
Preston	1,185	21
Enfield	1,180	22
Winchester	1,166	23
Montville	1,164	24
Plymouth	1,159	25

2014 Distressed Municipalities
In town alphabetical order

	Total Scores
Ansonia	1,330
Bridgeport	1,374
Bristol	1,250
Derby	1,327
East Hartford	1,215
Enfield	1,180
Hartford	1,448
Killingly	1,229
Meriden	1,272
Montville	1,164
Naugatuck	1,315
New Britain	1,431
New Haven	1,228
New London	1,365
North Canaan	1,251
Plainfield	1,243
Plymouth	1,159
Preston	1,185
Putnam	1,243
Sprague	1,218
Torrington	1,255
Waterbury	1,439
West Haven	1,196
Winchester	1,166
Windham	1,285

JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM

CONNECTICUT



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

3

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.

13C,D,E,F

Loureiro
Engineering • Construction • EH&S • Energy
Waste • Facility Services • Laboratory

December 9, 2016

Amaya Architects
284 Racebrook Rd
Orange, CT 06477

Attn: Rafael Amaya

RE: Hazardous Building Materials Survey for Proposed Demolition
Location: 53 Roseleah Drive, Mystic, CT
Commission Number: 01.MH6.03

Dear Mr. Amaya:

In accordance with our proposal, Loureiro Engineering Associates, Inc. (Loureiro) conducted hazardous building material sampling and analysis for: accessible suspect asbestos-containing materials (ACM's) and lead-based paint in the dwelling located at 53 Roseleah Drive, Mystic, Connecticut. The purpose of the hazardous building material sampling and analysis was to identify suspect hazardous building materials prior to the proposed demolition of the site structure.

Please refer to Appendixes A and B 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.

Steven M. Douglas
Project Scientist

Jamie Roche
Director, Environmental Services

Enclosures:

Appendix A Asbestos Laboratory Analysis Data
Appendix B Lead X-Ray Fluorescence Data
Appendix C Staff and Laboratory Certifications

Loureiro
Engineering • Construction • EH&S • Energy
Waste • Facility Services • Laboratory

1.0 INTRODUCTION

1.1 Purpose

Loureiro was retained by Amaya Architects to conduct hazardous building material sampling and analysis of accessible: suspect asbestos-containing materials (ACM's) and test surfaces for lead-based paint in the dwelling as needed that may be impacted by the proposed demolition 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. 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.

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, 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 the ACM quantities. Every attempt was made to locate all suspect materials. However, additional materials may be discovered above hard ceilings or behind walls, or below grade during demolition or renovation. Loureiro did not perform 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, found in Appendix A. Laboratory results are found in Appendix A.

2.2 Methodology

As required by the U.S. Occupational Safety & Health Administration (OSHA), the U.S. Environmental Protection Agency (EPA), and the State of Connecticut Department of Public Health (DPH), sampling was performed by an EPA AHERA-accredited and DPH-certified asbestos inspector (see Appendix C). Sampling was done in a manner to prevent airborne fiber release. Samples were placed in appropriately labeled containers that were sealed and submitted to the laboratory for analysis. The samples were submitted for analysis using the EPA-endorsed Polarized Light Microscopy EPA 600/R-93/116 (PLM) 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 hand tools 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.

2.3 Results of Sampling and Analysis for Asbestos

The table found in Appendix A 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.

3.0 LEAD-BASED PAINT SURVEY

The Lead-based paint survey was conducted with an X-Ray Fluorescent (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/cm^2.

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

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

A summary of the XRF tested components, descriptions and locations are presented in Table 2, found in Appendix B.

4.0 MOLD

This residence is scheduled for demolition. Therefore, Loureiro did not conduct mold sampling during this survey.

5.0 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 were identified as negative for asbestos and may be removed at will and disposed of as standard construction debris. In addition, any new building materials that have not previously been identified shall be assumed to contain asbestos until the materials has been properly tested.

Lead Paint was not detected in any painted components. Any new painted components that have not previously been tested discovered during renovation shall be assumed to contain lead based paints until the materials has been properly tested.

Appendix A

Asbestos Laboratory Analysis Data

Table 1 –ACM Summary

Sample	Description	Location	Quantity	Results
111816-1a	Joint Compound-White	Rear Bedroom	N/A	None Detect
111816-1b	Joint Compound-White	Hallway	N/A	None Detect
111816-1c	Joint Compound-White	Kitchen	N/A	None Detect
111816-1d	Joint Compound-White	Living Room	N/A	None Detect
111816-1e	Joint Compound-White	First Floor Bathroom	N/A	None Detect
111816-2a	Gypsum Board-White	Rear Bedroom	N/A	None Detect
111816-2b	Gypsum Board-White	Hallway	N/A	None Detect
111816-2c	Gypsum Board-White	Kitchen	N/A	None Detect
111816-2d	Gypsum Board-White	Living Room	N/A	None Detect
111816-2e	Gypsum Board-White	First Floor Bathroom	N/A	None Detect
111816-3a,b	Adhesive behind Wood Wall Panel	Side Bedroom	N/A	None Detect
111816-4a,b,c	Grout for 1” Ceramic Floor Tile	Second Floor Bathroom	N/A	None Detect
111816-5a,b,c	Setting Compound for 1” Ceramic Floor Tile	Second Floor Bathroom	N/A	None Detect
111816-6a,b,c	Grout for 12” Porcelain Floor Tile	Hot Tub Room	N/A	None Detect
111816-7a,b,c	Setting Compound for 12” Porcelain Floor Tile	Hot Tub Room	N/A	None Detect
111816-8a,b	White Caulking	Second Floor Bathroom	N/A	None Detect
111816-8C	White Caulking	First Floor Bathroom	N/A	
111816-9a,b,c	Gout for 12” Ceramic Floor Tile	Kitchen	N/A	None Detect
111816-10a,b,c	Setting Compound for 12” Ceramic Floor Tile	Kitchen	N/A	None Detect
111816-11a,b,c	Grout for 18” Porcelain Floor Tile	Dining Room	N/A	None Detect
111816-12a,b,c	Setting Compound for 18” Porcelain Floor Tile	Dining Room	N/A	None Detect
111816-13a,b,c	Gout for 12” Slate Floor Tile	Living Room	N/A	None Detect
111816-14a,b,c	Setting Compound for 12” Slate Floor Tile	Living Room	N/A	None Detect
111816-15a,b,c	2’x2’ White Pinhole Fissured Suspended Ceiling Tile	First Floor Bathroom	N/A	None Detect
111816-16a,b,c	Tar Paper behind Cedar Siding	Exterior	N/A	None Detect
111816-17a,b,c	Gray with Green Asphalt Roof Shingle (top layer)	Exterior	N/A	None Detect
111816-18a,b,c	Gray Asphalt Roof Shingle (second Layer)	Exterior	N/A	None Detect
111816-19a,b,c	Gray with Green Asphalt Roof Shingle (third layer)	Exterior	N/A	None Detect

Sample	Description	Location	Quantity	Results
111816-20a,b,c	Black Roofing Paper	Exterior	N/A	None Detect

Please refer to the Appendices specific to the Laboratory results and chain of custody forms.

EMSL Analytical, Inc.

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EMSL Order: 041631801
Customer ID: LOUR62
Customer PO:
Project ID:

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

Phone: (860) 747-6181
Fax: (860) 747-8822
Received Date: 11/19/2016 10:15 AM
Analysis Date: 11/21/2016 - 11/22/2016
Collected Date: 11/18/2016

Project: 53 Roseleah Dr. / 01MH6.03

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
111816-1A *041631801-0001*	Rear Bedroom - Joint Compound - White	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-1B *041631801-0002*	Hall - Joint Compound - White	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-1C *041631801-0003*	Kitchen - Joint Compound - White	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-1D *041631801-0004*	Living Room - Joint Compound - White	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-1E *041631801-0005*	First Bathroom - Joint Compound - White	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-2A *041631801-0006*	Rear Bedroom - Gypsum Board	White Fibrous Homogeneous	15% Cellulose 10% Glass	75% Non-fibrous (Other)	None Detected
111816-2B *041631801-0007*	Hall - Gypsum Board	White Fibrous Homogeneous	15% Cellulose 10% Glass	75% Non-fibrous (Other)	None Detected
111816-2C *041631801-0008*	Kitchen - Gypsum Board	White Fibrous Homogeneous	15% Cellulose 10% Glass	75% Non-fibrous (Other)	None Detected
111816-2D *041631801-0009*	Living Room - Gypsum Board	White Fibrous Homogeneous	15% Cellulose 10% Glass	75% Non-fibrous (Other)	None Detected
111816-2E *041631801-0010*	First Bath - Gypsum Board	White Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
111816-3A *041631801-0011*	Side Bedroom - Adhesive behind Wood Wall Panel	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-3B *041631801-0012*	Side Bedroom - Adhesive behind Wood Wall Panel	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-4A *041631801-0013*	Second Bathroom - Grout for 1" Ceramic FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-4B *041631801-0014*	Second Bathroom - Grout for 1" Ceramic FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-4C *041631801-0015*	Second Bathroom - Grout for 1" Ceramic FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-5A *041631801-0016*	Second Bathroom - Setting Compound for 1" Ceramic FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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EMSL Order: 041631801
Customer ID: LOUR62
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
111816-5B *041631801-0017*	Second Bathroom - Setting Compound for 1" Ceramic FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-5C *041631801-0018*	Second Bathroom - Setting Compound for 1" Ceramic FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-6A *041631801-0019*	Hot Tub Room - Grout for 12' Porcelain FT	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-6B *041631801-0020*	Hot Tub Room - Grout for 12' Porcelain FT	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-6C *041631801-0021*	Hot Tub Room - Grout for 12' Porcelain FT	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-7A *041631801-0022*	Hot Tub Room - Setting Compound for 12" Porcelain FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-7B *041631801-0023*	Hot Tub Room - Setting Compound for 12" Porcelain FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-7C *041631801-0024*	Hot Tub Room - Setting Compound for 12" Porcelain FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-8A *041631801-0025*	Second Bathroom - White Bathroom Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-8B *041631801-0026*	Second Bathroom - White Bathroom Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-8C *041631801-0027*	First Bathroom - White Bathroom Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-9A *041631801-0028*	Kitchen - Grout for 12" Ceramic FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-9B *041631801-0029*	Kitchen - Grout for 12" Ceramic FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-9C *041631801-0030*	Kitchen - Grout for 12" Ceramic FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-10A *041631801-0031*	Kitchen - Setting Compound for 12" Ceramic FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-10B *041631801-0032*	Kitchen - Setting Compound for 12" Ceramic FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-10C *041631801-0033*	Kitchen - Setting Compound for 12" Ceramic FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-11A *041631801-0034*	Dining Room - Grout for 18" Porcelain FT	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-11B *041631801-0035*	Dining Room - Grout for 18" Porcelain FT	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
111816-11C *041631801-0036*	Dining Room - Grout for 18" Porcelain FT	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-12A *041631801-0037*	Dining Room - Setting Compound for 18" Porcelain FT	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-12B *041631801-0038*	Dining Room - Setting Compound for 18" Porcelain FT	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-12C *041631801-0039*	Dining Room - Setting Compound for 18" Porcelain FT	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-13A *041631801-0040*	Living Room - Grout for Slate FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-13B *041631801-0041*	Living Room - Grout for Slate FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-13C *041631801-0042*	Living Room - Grout for Slate FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-14A *041631801-0043*	Living Room - Setting Compound for Slate FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-14B *041631801-0044*	Living Room - Setting Compound for Slate FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-14C *041631801-0045*	Living Room - Setting Compound for Slate FT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111816-15A *041631801-0046*	First Bath - 2'x2' White Pinhole Fissured SCT	White Fibrous Homogeneous	60% Cellulose 30% Min. Wool	10% Non-fibrous (Other)	None Detected
111816-15B *041631801-0047*	First Bath - 2'x2' White Pinhole Fissured SCT	White Fibrous Homogeneous	60% Cellulose 30% Min. Wool	10% Non-fibrous (Other)	None Detected
111816-15C *041631801-0048*	First Bath - 2'x2' White Pinhole Fissured SCT	White Non-Fibrous Homogeneous	60% Cellulose 30% Min. Wool	10% Non-fibrous (Other)	None Detected
111816-16A *041631801-0049*	Exterior - Tar Paper under Cedar Siding	Black Non-Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
111816-16B *041631801-0050*	Exterior - Tar Paper under Cedar Siding	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
111816-16C *041631801-0051*	Exterior - Tar Paper under Cedar Siding	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
111816-17A *041631801-0052*	Exterior - Gray w/ Green Asphalt Roof Shingles	Gray/Green Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
111816-17B *041631801-0053*	Exterior - Gray w/ Green Asphalt Roof Shingles	Gray/Green Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
111816-17C *041631801-0054*	Exterior - Gray w/ Green Asphalt Roof Shingles	Gray/Green Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected

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EMSL Order: 041631801
Customer ID: LOUR62
Customer PO:
Project ID:

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
111816-18A *041631801-0055*	Exterior - Gray Asphalt Roof Shingles (2nd Layer)	Gray Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
111816-18B *041631801-0056*	Exterior - Gray Asphalt Roof Shingles (2nd Layer)	Gray Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
111816-18C *041631801-0057*	Exterior - Gray Asphalt Roof Shingles (2nd Layer)	Gray Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
111816-19A *041631801-0058*	Exterior - Gray w/ Green Asphalt Roof Shingles (3rd Layer)	Gray/Green Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
111816-19B *041631801-0059*	Exterior - Gray w/ Green Asphalt Roof Shingles (3rd Layer)	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
111816-19C *041631801-0060*	Exterior - Gray w/ Green Asphalt Roof Shingles (3rd Layer)	Gray/Green Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
111816-20A *041631801-0061*	Exterior - Roofing Vapor Barrier Paper	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
111816-20B *041631801-0062*	Exterior - Roofing Vapor Barrier Paper	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
111816-20C *041631801-0063*	Exterior - Roofing Vapor Barrier Paper	Black Non-Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected

Analyst(s)
Andrew Coward (43)
Nancy Stalter (20)

Benjamin Ellis, Laboratory Manager
or Other Approved Signatory

Initial report from: 11/22/2016 06:29:15

OrderID: 041631801

Asbestos Chain of Custody

EMSL Order Number (*Lab Use Only*): 041631801

EMSL ANALYTICAL, INC.
29 NORTH PLAINS DR, #4
WALLINGFORD, CT 06492
PHONE: (203) 284-5948
FAX: (203) 284-5978

EMSL ANALYTICAL, INC.
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Company : Loureiro Engineering Associates	**EMSL-Bill to:** ☒ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 100 Northwest Dr	
City: Plainville / **State/Province: CT**	**Zip/Postal Code: 06062** / **Country:**
Report To (Name): Jamie Roche / Steven Douglas	**Telephone #: 860-747-6181 / 413-222-5715**
Email Address: jaroche@Loureiro.com **SMDouglas@loureiro.com**	**Fax #: 860-747-8822** / **Purchase Order:**
Project Name/Number: 53 Roseleah Dr. / 01MH6.03	**Please Provide Results:** ☐ Fax ☒ Email
U.S. State Samples Taken: CT	**Connecticut Samples:** ☒ Commercial ☐ Residential

Turnaround Time (TAT) Options* – Please Check

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

*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.

PCM - Air ☐ Check if samples are from NY
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☒ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ **4-4.5hr TAT (AHERA only)**
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ TEM Qual. via Filtration Technique
- ☐ TEM Qual. via Drop-Mount Technique

Other:
- ☐

☒ **Check For Positive Stop – Clearly Identify Homogenous Group** | **Filter Pore Size (Air Samples):** ☐ 0.8µm ☐ 0.45µm

Samplers Name: Steve Douglas | **Samplers Signature:** [signature]

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
111816- 1a	Joint Compound - White — Rear Bedroom	Bulk	111816
1b	Hall		
1c	Kitchen		
1d	Living Room		
1e	First Bathroom		
2a	Gypsum Board — Rear Bedroom		
2b	Hall		
2c	Kitchen		

RECEIVED EMSL CINNAMINSON, N.J. 2016 NOV 19 A 10:31

Client Sample # (s): 111816- 1a - 2c | **Total # of Samples:** 63

Relinquished (Client): Steve Douglas | **Date:** 111816 | **Time:**

Received (Lab): KD FX | **Date:** 11-19-2016 | **Time:** 10:15 AM

Comments/Special Instructions:

OrderID: 041631801

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Asbestos Chain of Custody

EMSL Order Number (*Lab Use Only*):

041631801

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FAX: (203) 284-5978

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

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
111816- 2d	Gypsum Board - Living Room	Bulk	111816
2e	" First Bath	"	"
3ab	Adhesive behind Wood Wall panel - Side Bedroom		
4abc	Grout for 1" Ceramic FT - Second Bathroom		
5abc	Setting Compound for 1" Ceramic FT - "		
6abc	Grout for 12" Porcelain FT - Hot Tub Room		
7abc	Setting Compound for " - "		
8ab	White Bathroom Caulk - Second Bathroom		
8c	" - First Bathroom		
9abc	Grout for 12" Ceramic FT - Kitchen		
10abc	Setting Compound for " - Kitchen		
11abc	Grout for 18" Porcelain FT - Dining Room		
12abc	Setting Compound for " - "		
13abc	Grout for Slate FT - Living Room		
14abc	Setting Compound for " "		
15abc	2'x2' White pinhole fissured SCT - First Bath		
16abc	Tar Paper Under Cedar Siding - Exterior		
17abc	Gray With Green Asphalt Roof Shingles - Exterior		
18abc	Gray Asphalt Roof Shingles (2nd Layer) -		
19abc	Gray with Green Asphalt Roof Shingle (3rd Layer) "		
20abc	Roofing Vapor Barrier paper -		

RECEIVED EMSL CINNAMINSON, N.J. 2016 NOV 10 A 10:31

***Comments/Special Instructions:**

01MH6.03

Appendix B

Lead X-Ray Fluorescence Data

Table 2 – Lead Paint - XRF Results

Room / Area	Component	Side	Paint Color	Substrate (Condition)	Results (mg/cm^2)
Exterior	Cedar Siding	A	None	Wood-Good	0.0
Exterior	Front Door	A	Green	Metal-Good	0.0
Exterior	Door Jamb	A	Green	Wood-Good	0.0
Exterior	Door Frame	A	Green	Wood-Good	0.0
Exterior	Window Sash	A	White	Metal-Good	0.0
Exterior	Window Frame	A	White	Metal-Good	0.0
Exterior	Cedar Siding	C	None	Wood-Good	0.0
Exterior	Door	C	White	Metal-Good	0.0
Exterior	Door Jamb	C	White	Wood-Good	0.0
Exterior	Door Frame	C	White	Wood-Good	0.0
Exterior	Window Sash	C	White	Metal-Good	0.0
Exterior	Window Frame	C	White	Metal-Good	0.0
Exterior	Window Sash	D	White	Metal-Good	0.0
Exterior	Window Frame	D	White	Metal-Good	0.0
Exterior	Cedar Siding	D	None	Wood-Fair	0.0
Exterior	Garage Door	A	White	Metal-Good	0.0
Exterior	Roof Flashing	A	White	Metal-Good	0.0
Exterior	Cedar Siding	A	None	Wood-Good	0.0
Exterior	Cedar Siding	B	None	Wood-Poor	0.0
Entry	Wall	B	White	Drywall-Good	0.0
Entry	Wall	C	White	Drywall-Good	0.0
Entry	Wall	D	White	Drywall-Good	0.0
Entry	Door	A	White	Wood-Good	0.02
Entry	Door Jamb	A	Red	Wood-Good	0.02
Entry	Cedar Siding	A	None	Wood-Good	None
Entry	Ceiling	-	White	Drywall-Good	0.0
Living Room	Wall	A	White	Drywall-Good	0.0
Living Room	Wall	B	White	Drywall-Good	0.0
Living Room	Wall	C	White	Drywall-Fair	0.0
Living Room	Wall	D	White	Drywall-Good	0.0
Living Room	Baseboard Radiator	A	White	Metal-Fair	0.0
Living Room	Window Sill	A	Stain	Wood-Good	0.0
Living Room	Window Sash	A	Stain	Wood-Good	0.0
Living Room	Window Frame	A	Stain	Wood-Good	0.0
Living Room	Door	A	White	Wood-Good	0.0
Living Room	Door Frame	A	Stain	Wood-Good	0.0
Living Room	Door	C	Stain	Wood-Good	0.0
Living Room	Door Frame	C	Stain	Wood-Good	0.0
Living Room	Door Jamb	C	Stain	Wood-Good	0.0

Room / Area	Component	Side	Paint Color	Substrate (Condition)	Results (mg/cm^2)
First Floor Bathroom	Wall Panel	A	Gray	Pressboard-Good	0.0
First Floor Bathroom	Wall Panel	B	Gray	Pressboard-Good	0.0
First Floor Bathroom	Wall Panel	C	Gray	Pressboard-Good	0.0
First Floor Bathroom	Wall Panel	D	Gray	Pressboard-Good	0.0
Kitchen	Cabinets	C	Stain	Wood-Good	0.0
Kitchen	Door Frame	A	Stain	Wood-Good	0.0
Kitchen	Stair Tread	B	Stain	Wood-Good	0.0
Kitchen	Wall	A	White	Drywall-Good	0.0
Kitchen	Wall	B	White	Drywall-Good	0.0
Kitchen	Wall	C	White	Drywall-Good	0.0
Kitchen	Wall	D	White	Drywall-Good	0.0
Kitchen	Window Sill	B	Stain	Wood-Good	0.0
Kitchen	Window Sash	B	Stain	Wood-Good	0.0
Kitchen	Window Frame	B	Stain	Wood-Good	0.0
Kitchen	Stair Railing	B	White	Metal-Good	0.02
Dining	Wall	A	Gray	Drywall-Good	0.0
Dining	Wall	B	Gray	Drywall-Good	0.0
Dining	Wall	C	Gray	Drywall-Good	0.0
Dining	Wall	D	Gray	Drywall-Good	0.0
Dining	Ceiling	-	White	Drywall-Good	0.0
Dining	Window Sill	C	Stain	Wood-Good	0.0
Dining	Window Sash	C	Stain	Wood-Good	0.0
Dining	Window Frame	C	Stain	Wood-Good	0.0
Dining	Door	D	White	Wood-Good	0.0
Dining	Door Frame	D	White	Wood-Good	0.0
Dining	Door Jamb	D	White	Wood-Good	0.0
Dining	Door	B	Gray	Wood-Good	0.0
Dining	Door Frame	B	White	Wood-Good	0.0
Dining	Baseboard	A	Gray	Wood-Good	0.0
Dining	Baseboard Radiator	C	Gray	Metal-Fair	0.0
Front Bedroom	Wall	A	Gray	Drywall-Good	0.0
Front Bedroom	Wall	B	Gray	Drywall-Good	0.0
Front Bedroom	Wall	C	Gray	Drywall-Good	0.0
Front Bedroom	Wall	D	Gray	Drywall-Good	0.0
Front Bedroom	Ceiling	-	White	Drywall-Good	0.0
Front Bedroom	Door	C	Gray	Wood-Good	0.0
Front Bedroom	Door Frame	C	Gray	Wood-Good	0.0
Front Bedroom	Door Jamb	C	White	Wood-Good	0.0
Front Bedroom	Door	D	Gray	Wood-Good	0.0

Room / Area	Component	Side	Paint Color	Substrate (Condition)	Results (mg/cm^2)
Front Bedroom	Door Frame	D	Gray	Wood-Good	0.0
Front Bedroom	Door Jamb	D	White	Wood-Good	0.0
Front Bedroom	Window Sill	A	Gray	Wood-Good	0.0
Front Bedroom	Window Sash	A	Gray	Wood-Good	0.0
Front Bedroom	Window Frame	A	Gray	Wood-Good	0.0
Front Bedroom	Baseboard Radiator	A	Gray	Metal-Good	0.0
Hallway	Ceiling	-	White	Drywall-Good	0.0
Hallway	Wall	A	White	Drywall-Good	0.0
Hallway	Wall	B	White	Drywall-Good	0.0
Hallway	Wall	C	White	Drywall-Good	0.0
Hallway	Wall	D	White	Drywall-Good	0.0
Hallway	Hardwood Floor	-	Stain	Wood-Good	0.0
Hallway	Hand Railing	B	Stain	Wood-Good	0.0
Hallway	Hand Railing Post	B	Satin	Wood-Good	0.0
Side Bedroom	Ceiling	-	White	Drywall-Good	0.0
Side Bedroom	Wall	A	White	Wood-Good	0.0
Side Bedroom	Wall	B	White	Wood-Good	0.0
Side Bedroom	Wall	C	White	Wood-Good	0.0
Side Bedroom	Wall	D	White	Wood-Good	0.0
Side Bedroom	Baseboard Radiator	D	White	Metal-Good	0.0
Side Bedroom	Window Sill	A	Stain	Wood-Good	0.0
Side Bedroom	Window Sash	A	Stain	Wood-Good	0.0
Side Bedroom	Window Frame	A	Stain	Wood-Good	0.0
Rear Bedroom	Wall	A	Gray	Drywall-Good	0.0
Rear Bedroom	Wall	B	Gray	Drywall-Good	0.0
Rear Bedroom	Wall	C	Gray	Drywall-Good	0.0
Rear Bedroom	Wall	D	Gray	Drywall-Good	0.0
Rear Bedroom	Ceiling	-	White	Drywall-Good	0.0
Rear Bedroom	Hardwood Floor	-	Stain	Wood-Good	0.0
Rear Bedroom	Baseboard	C	Stain	Wood-Good	0.0
Rear Bedroom	Baseboard Radiator	C	Gray	Metal-Fair	0.0
Rear Bedroom	Door	C	Stain	Wood-Good	0.0
Rear Bedroom	Door Frame	C	Gray	Wood-Good	0.0
Rear Bedroom	Door Jamb	C	White	Wood-Good	0.0
Rear Bedroom	Door	A	Gray	Wood-Good	0.0
Rear Bedroom	Door Frame	A	Gray	Wood-Good	0.0
Rear Bedroom	Door Jamb	A	Gray	Wood-Good	0.0
Rear Bedroom	Window Sill	C	White	Wood-Good	0.0
Rear Bedroom	Window Sash	C	White	Wood-Good	0.0
Rear Bedroom	Window Frame	C	White	Wood-Good	0.0

Room / Area	Component	Side	Paint Color	Substrate (Condition)	Results (mg/cm^2)
Second Floor Bathroom	Ceiling	-	White	Drywall-Good	0.0
Second Floor Bathroom	Baseboard	D	White	Wood-Good	0.0
Second Floor Bathroom	Door	C	Stain	Wood-Good	0.0
Second Floor Bathroom	Door Frame	C	Stain	Wood-Good	0.0
Second Floor Bathroom	Door Jamb	C	Stain	Wood-Good	0.0
Hot Tub Room	Wall	A	Stain	Wood-Good	0.0
Hot Tub Room	Wall	B	Stain	Wood-Good	0.0
Hot Tub Room	Wall	C	Stain	Wood-Good	0.0
Hot Tub Room	Wall	D	Stain	Wood-Good	0.0
Hot Tub Room	Baseboard	C	Stain	Wood-Good	0.0
Hot Tub Room	Door	C	Stain	Wood-Good	0.0
Hot Tub Room	Door Frame	C	Stain	Wood-Good	0.0
Hot Tub Room	Door Jamb	C	Stain	Wood-Good	0.0
Hot Tub Room	Window Sill	C	Stain	Wood-Good	0.0
Hot Tub Room	Window Sash	C	Stain	Wood-Good	0.0
Hot Tub Room	Window Frame	C	Stain	Wood-Good	0.0

Appendix C

Staff and Laboratory Certifications

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

ASBESTOS CONSULTANT-PROJECT MONITOR

STEVEN M. DOUGLAS

CERTIFICATE NO.
000578

CURRENT THROUGH
09/30/17

VALIDATION NO.
03-547806

SIGNATURE

COMMISSIONER

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT-INSP/MGMT PLANNER

STEVEN M DOUGLAS

CERTIFICATE NO.
000287

CURRENT THROUGH
09/30/17

VALIDATION NO.
03-547807

SIGNATURE

COMMISSIONER

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A

LEAD INSPECTOR RISK ASSESSOR

STEVEN M DOUGLAS

CERTIFICATE NO.
002229

CURRENT THROUGH
09/30/17

VALIDATION NO.
03-530660

SIGNATURE

COMMISSIONER

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101048-0

EMSL Analytical, Inc.

Cinnaminson, NJ

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

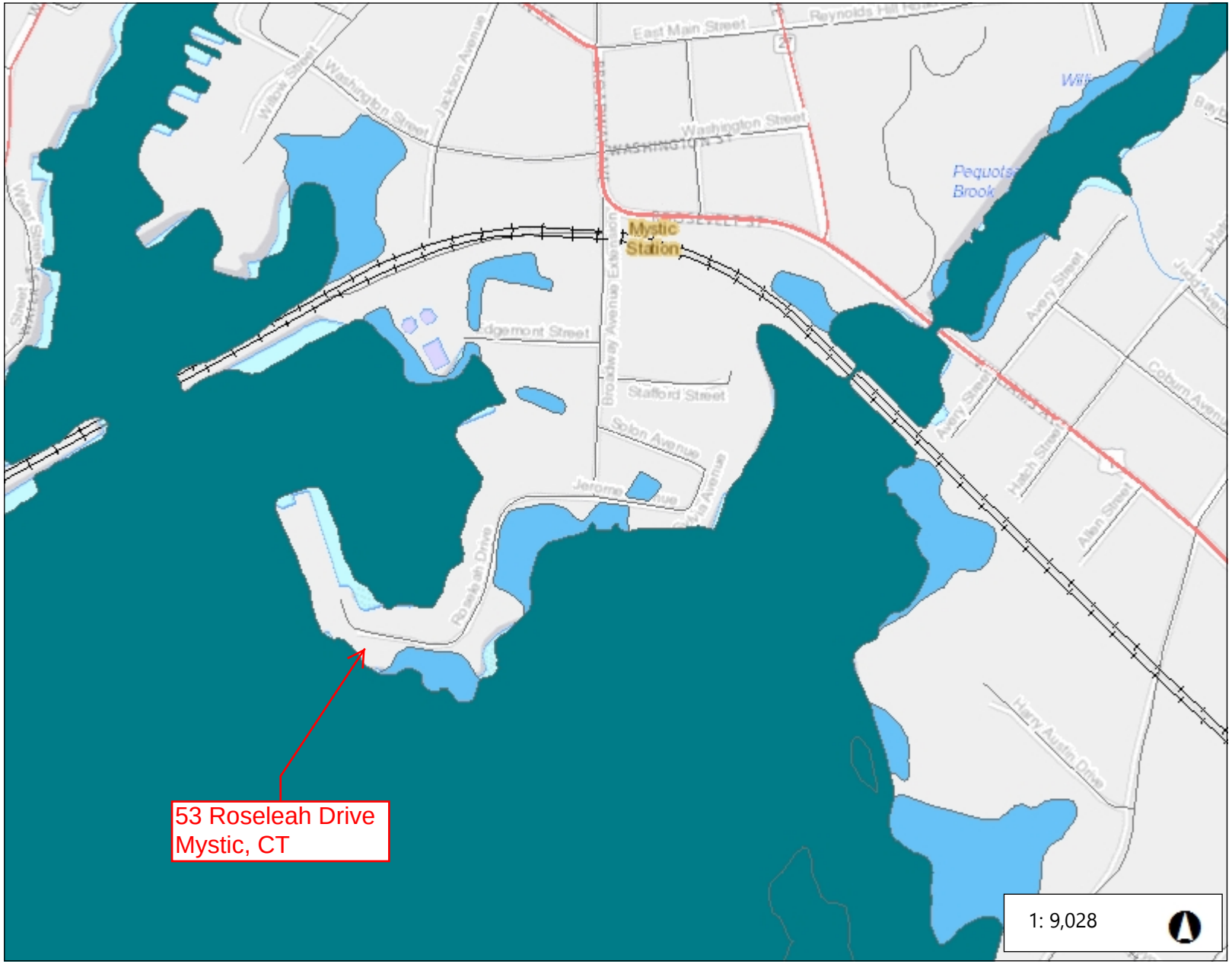
2016-07-01 through 2017-06-30

Effective Dates

For the National Voluntary Laboratory Accreditation Program

CT Environmental Conditions Online

Mystic Stonington Wetlands map



Legend

- Freshwater Forest and Shrub
- Freshwater Emergent Wetland
- Other Freshwater Wetland
- Estuarine and Marine Wetland
- Estuarine and Marine Deep W
- Freshwater Ponds
- Lakes
- Riverine
- Geographic Names7
- Geographic Place 3
- Airport
  - Airport
  - Heliport
- Railroad
- Streets
  - Interstate Highway
  - US Highway
  - State Highway
  - Primary limited-access
  - Ramp
  - Street
  - Ferry crossing
- County Line
  - State Boundary
  - County Boundary
  - Coastline

Notes

14D

0.3 0 0.14 0.3 Miles

THIS MAP IS NOT TO BE USED FOR NAVIGATION

This map is intended for general planning, management, education, and research purposes only. Data shown on this map may not be complete or current. The data shown may have been compiled at different times and at different map scales, which may not match the scale at which the data is shown on this map.

TOWN OF STONINGTON

Zoning Board of Appeals
152 Elm Street
Stonington, Connecticut 06378
Tel. 860.535.5095 • Fax 860.535.1023

SENT VIA CERTIFIED MAIL/ RETURN RECEIPT REQUESTED

September 13, 2017

Rafael Amaya
Amaya Architects
284 Racebrook Road
Orange, CT 06477

Subject: **ZBA #17-08 & CAM David Madacsi (Rafael Amaya, Agent)** – Seeking a variance from ZR 7.7.8.3.1 Coastal Jurisdiction Line setback from 100' to 7' to permit reconstruction of existing single family residence. Property located on 53 Roseleah Drive, Mystic. Assessor's Map 175 Block 1 Lot 17; Zone MC-80.

Dear Mr. Amaya:

At the Regular Meeting of the Zoning Board of Appeals held on **Tuesday, September 12, 2017**, the above-referenced application for a variance was **Approved; with one stipulation.**

1. **Brick wall to be removed.**

This approval is scheduled to be published in local newspapers on **Friday, September 15, 2017**. This publication will commence the statutory fifteen (15) day appeal period. If no appeals are filed with the Superior Court within that time limit, your ***Certificate of Variance*** will be available for you to pickup in the Planning Office on **October 2, 2017** and must be filed with the Town Clerk's office.

As per Connecticut General Statute 8-3d, your variance will not be valid until you bring the Certificate of Variance to the Town Clerk's Office to be recorded in the Land Records. Valid variances run with the land irrespective of ownership of the land.

Subsequent to filing the variance, application for a zoning permit can be filed with our office. Approval of a zoning permit is required before a building permit can be issued.

If you have any questions concerning this matter, please do not hesitate to contact this office at 860-535-5095.

Very truly yours,

Cheryl Sadowski
ZBA Administrative Assistant

cc: David Madacsi