MCA
MARTINEZ COUCH & ASSOCIATES

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Tel: 860-436-4364
Fax: 860-436-4626
www.martinezcouch.com

31 May 2016

Mark Gorka
Department of Housing
505 Hudson Street
Hartford, CT 06106

RE: Applicant 2503, 23 Caroline Street, Milford

Dear Mr. Gorka,

This letter is to provide a summary description of the Statutory Checklist for CDBG-DR Applicant – 2503 – 23 Caroline Street.

The following Statutory Checklist Items have backup documentation which is provided as attachments,

- Item 1 – CT State Historic Preservation Office (SHPO) Determination Statement
- Item 2 – National Flood Insurance Program FIRMette Map
- Item 3 – U.S. Fish and Wildlife Service, National Wetlands Inventory Mapping
- Item 4 – Connecticut Coastal Boundary Mapping
- Item 5 – Connecticut Aquifer Protection Area Mapping
- Item 6A – Natural Diversity Database Mapping
- Item 6B – U.S. Fish and Wildlife, Information Planning and Conservation List
- Item 6C – Connecticut Department of Energy and Environmental Protection (CT DEEP) Natural Diversity Database (NDDB) Review
- Item 11 – Connecticut Department of Economic and Community Development list of Distressed Municipalities
- Item 12-A – National Flood Insurance Program FIRMette Map
- Item 12-B – Coastal Barrier Resource System Map
- Item 13-C – Hazardous Material Inspection Report
- Item 13-D – Hazardous Material Inspection Report, Asbestos Abatement Specifications
- Item 13-E – Hazardous Material Inspection Report
- Item 13-F – Hazardous Material Inspection Report,
- Item 14-A – National Flood Insurance Program FIRMette Map
- Item 14-C – Onsite Wetlands Investigation Report, CT DEEP Certficate of Permission
- Item 14-D – City of Milford Inland Wetlands Office Review Letter

Checklist list items requiring permitting and/or regulatory review include

- Item 13-D – Abatement plan prepared by a CT Licensed Asbestos Abatement Professional.
- Item 14-E – Review by City of Milford Building Department will be necessary to obtain a Building Permit
- Item 14-E – Review by City of Milford Planning and Zonning Commision for Special Zoning Permit

Please contact me at 860-436-4364 with questions or comments.

Yours Sincerely,

Richard Couch, PE
Member
Martinez Couch & Associates, LLC

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. CDBG-DR Project 2503 - 23 Caroline Street

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]	☐	☒	☒	☐	☐	☒	See attachment 1 for determination statement from CT State Historic Preservation Office. Project activities will have adverse effects on the state of Connecticut's historic resources. Historic context statement will be completed for standard treatment measure as part Programmatic agreement (PA) for 23 Caroline Street, Milford, CT.
2. Floodplain Management [58.5(b)] [Ex Or 11988] [24 CFR 55]	☐	☐	☒	☒	☒	☐	National Flood Insurance Program (NFIP), Flood Insurance Rate Map (FIRM) Number 09001C0533J, Revised July 8,2013 indicates the project site at 23 Caroline Street, Milford CT is located inside Zone AE with a base flood elevation of 11 feet defined for the 1% Annual Chance Flood. Refer to Attachment 2 included as documentation.
3. Wetland Protection [58.5 (b)]	☐	☐	☒	☐	☒	☐	United States Fish and Wildlife Services (USFWS), National Wetlands Inventory (NWI) mapping identifies the project site outside a wetland zone. See attachment 3 for map documentation. Mapping is Geographic Information System (G.I.S.) map created using data accessed from USFWS NWI website at http://www.fws.gov/wetlands/Data/State-Downloads.html
4. Coastal Zone Management [58.5(c)]	☐	☐	☒	☐	☒	☐	Project site at 23 Caroline Street, Milford CT is located inside a Coastal Boundary Zone. See attachment 4 for map documentation. Mapping is Geographic Information System (G.I.S.) map created using data accessed from CT Environmental Conditions Online (CT ECO) of the Coastal

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.
							Boundary Zone from http://www.cteco.uconn.edu/. Project activities are consistent with the coastal management act.
5. Water Quality – Aquifers [58.5(d)] [40 CFR 149]	☒	☐	☐	☐	☐	☐	On site water and sewer facilites are not included in rehabilitation work for 23 Caroline Street, Milford CT. Connecticut DEEP Bureau of Water Protection and Land Reuse map titled 'Connecticut Aquifer Protection Areas' dated December 28, 2015 does not identify aquifer protection areas in the City of Milford, Connecticut near the project site. See attachment 5 for documentation.
6. Endangered Species [58.5(e)] [16 U.S.C. 1531 et seq.]	☐	☐	☒	☐	☒	☐	Project is located inside mapped Natural Diversity Data Base (NDDB) areas from CT DEEP. See attachment 6A for Geographic Information System (G.I.S.) map of NDDB areas created using data accessed from Connecticut Environmental Conditions Online (CT ECO) at http://www.cteco.uconn.edu/. U.S. Fish & Wildlife Servce Information, Planning, and Conservation (IPaC) List, included as attachment 6B. Residential construction at project site will not effect the three (2) threatened Species or 24 Migratory Birds on the IPaC list. No Critical Habitats, or Wildlife Refugees are identified in the project site. See attachment 6C for Natural Diversity Database review of project indicating no adverse impacts anticipated with project work.
7. Wild and Scenic Rivers [58.5 (f)] [16 U.S.C. 1271 et seq.]	☒	☐	☐	☐	☐	☐	Project site is not proximate to the Eight Mile River or the Farmington River West Branch listed in the National Wild and Scenic Rivers System.
8. Air Quality [58.5(g)] [42 U.S.C. 7401 et seq.]	☒	☐	☐	☐	☐	☐	No quantifiable increase in air pollution is measurable for proposed rehabilitation activities.
9. Farmland Protection [58.5(h)]	☒	☐	☐	☐	☐	☐	All activity will occur inside existing structure foot print and no change in land use is proposed.
Manmade Hazards 10 A. Thermal Explosive [58.5(i)]	☒	☐	☐	☐	☐	☐	Per 24 CFR 51 Subpart C and HUD Guidebook 6600.G rehabilitation work that does not alter the number dwelling units or a change of land use is not subject to Acceptable Separation Distance (ASD) requirements for HUD assisted projects near hazardous operations handling petroleum products or chemicals of an explosive or flammable nature.
10 B. Noise [58.5(i)]	☒	☐	☐	☐	☐	☐	Noise Abatement and Control requirements per 24 CFR 51.101(a)(3) are not applicable to HUD assisted projects which restore facilities substantially as they existed prior to a disaster.
10 C. Airport Clear Zones [58.5 (i)]	☒	☐	☐	☐	☐	☐	The residential structure at 23 Caroline Street, Milford CT is located outside the Runway Clear Zone of Tweed/New Haven Commercial Airport.
10 D. Toxic Sites [58.5 (i)(2)(i)]	☐	☐	☒	☐	☒	☐	The project site at 23 Caroline Street, Milford CT is,

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.
							1. Not listed on EPA's NPL Lists (Proposed and Final) or the State of Connecticut's Superfund Priority List; 2. Not listed in Comprehensive Environmental Response and Compensation Liability Infomration System (CERCLIS) database search as a Comprehensive Environmental Response and Compensation Liability Act (CERCLA) site; 3. Not located within 3,000 feet of a landfill site as listed on CT DEEP's active landfill list; 4. Not listed on CT DEEP's Underground Storage Tank list 5. Not listed on CT DEEP's list of potentionally contaminated sites and is not known or suspected to be contaminated by toxic chemicals or radioactive materials
11. Environmental Justice [58.5(j)]	☐	☐	☒	☐	☒	☐	The rehabilitation work at the project site, 23 Caroline Street, Milford CT, is compatible with the surrounding residential use and no adverse human health and environmental effects on minority or low income populations are expected. The City of Milford, Connecticut is not listed by the Connecticut Department of Economic and Community Development (CT DECD) as a distressed municipality as defined in C.G.S. Section 22a-20. See attachment 7 for the 2015 listing of distressed municipalities in CT from the CT DECD in which City of Milford, CT is not listed.
Document Laws and authorities listed at Sec. 58.6 and other potential environmental concerns							
12 A. Flood Insurance [58.6(a) & (b)]	☐	☐	☒	☒	☐	☒	National Flood Insurance Program (NFIP), Flood Insurance Rate Map (FIRM) Number 09001C0533J, Revised July 8, 2013 indicates the project site at 23 Caroline Street, Milford CT is located inside Zone AE with a base flood elevation of 11 feet defined for the 1% Annual Chance Flood. Map is included as documentation. Property owner will be required to maintain flood insurance for a period of 5 years after acceptance of CDBG-DR OORR project funding CT DOH to enforce.
12 B. Coastal Barriers [58.6(c)]	☐	☐	☒	☐	☒	☐	Project at 23 Caroline Street, Milford CT is not located within a Coastal Barrier Resource System unit. See attachment 8 for documentation. Mapping is Geographic Information System (G.I.S.) map created using data digitized from official John H. Chafee Coastal Barrier Resource System maps enacted by law and endorsed by the U.S. Fish and Wildlife Service. Digital data was accessed from CT Environmental Conditions Online (CT ECO) at http://www.cteco.uconn.edu/

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
12 C. Airport Clear Zone Notification [58.6(d)]	☒	☐	☐	☐	☐	☐	Project does not involve the puchase or sale of a property as such 24 CFR 58.6(d) is not applicable.
13 A. Solid Waste Disposal [42 U.S.C. S3251 et seq.] and [42 U.S.C. 6901-6987 eq seq.]	☒	☐	☐	☐	☐	☐	Rehabilitation activities to the residential structure at the project site, 23 Caroline Street, Milford CT, are not expected to affect the capacties of solid waste disposal services.
13 B. Fish and Wildlife [U.S.C. 661-666c]	☒	☐	☐	☐	☐	☐	Project activites will not result in impounding, diverting, deepening, channelizing or modification of any stream or body of water. Project is not a water control project.
13 C. Lead-Based Paint [24 CFR Part 35] and [40 CFR 745.80 Subpart E]	☐	☒	☒	☐	☒	☐	Residential Structure at 23 Caroline Street, Milford CT was built prior to 1978. The results of a Lead Paint Survey are included in attachment 9, 'Hazardous Materials Inspection Report, 23 Caroline Street, Milford CT', dated April 28, 2015, prepared by Facility Support Services, LLC. No lead based painted surfaces were identified in the survey.
13 D. Asbestos	☐	☒	☒	☒	☐	☒	Four (4) asbestos containing material were identified in sampled site materials to be disturbed for project work. Results of testing are included in attachment 9, 'Hazardous Material Inspection Report, 23 Caroline Street, Milford CT, dated April 28, 2015, prepared by Facility Support Services, LLC.. Asbestos containing materials will be abated per, attachment 10, 'Asbestos Abatement Specifications, 23 Caroline Street, Milford CT', dated May, 11, 2015, prepared by Chris Hudacek, CT DPH Project Designer License #0000239. Attachment 10 will be part of construction documents.
13 E. Radon [50.3 (i) 1]	☒	☐	☐	☐	☐	☐	Due to the proposed construction of living space above grade with open space below, radon testing and mitigation is not applicable.
13 F. Mold	☒	☐	☐	☐	☐	☐	No specific regulation regarding the levels requiring mold mitigation or abatement are enacted by law in the State of Connecticut. Due the proposed demolition of the exisiting residential structure and construction of a new residential structure, mold remediation is not applicable.
Other: State or Local 14 A. Flood Management Certification [CGS 25-68]	☐	☒	☒	☒	☐	☒	National Flood Insurance Program (NFIP), Flood Insurance Rate Map (FIRM) Number 09001C0533J, Revised July 8, 2013 Identifies the property at 23 Caroline Street, Milford CT, is located inside Zone AE with a base flood elevation of 11 feet defined for the 1% Annual Chance Flood. See attachment 2 for documentation. See attachment 11 for Professional Certification on Flood Management Certification for the General Permit for the CDBG-DR OORR/SSRR Program.
14 B. Structures, Dredging & Fill Act [CGS 22a-359 to 22a-363f]	☒	☐	☐	☐	☐	☐	Rehabilitation work at project site does not propose any adverse impacts to coastal resources nor propose any activity waterward of the coastal jurisdiction line.

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.
14 C. Tidal Wetlands Act [CGS 22a-28 to 22a-35]	☐	☒	☒	☒	☒	☐	Onsite wetlands investigation completed and tidal wetland soils located. See attachment 12A for report by Soil and Environmental Sciences Inc. dated November 25, 2015. Project activities subject to Certificate of Permission from Connecticut Department of Energy and Environmental Protection. See attachment 12B for Certificate of Permission #201510003-SJ dated February 11, 2016.
14 D. Local inland wetlands/watercourses [CGS 22a-42]	☐	☒	☒	☐	☒	☐	Project rehabilitation work is not expected to impact inland wetlands/watercourses. See attachment 13 for review letter from City of Milford Inland Wetland Compliance Officer dated March 22, 2016.
14 E. Various municipal zoning approvals	☐	☒	☒	☒	☐	☒	Rehabilitation activites at the project site will need review by City of Milford Building Department for issuance of required building permit. Project requires Special Zoning Permit and Coastal Site Plan Review by City of Milford Planning and Zoning Department. Permitting documents submitted by Martinez, Couch and Associates to City of Milford Planning and Zoning Department.

DETERMINATION:

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

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

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

Prepared by:

Richard Couch, P.E., Member
Martinez Couch & Associates, LLC.

5/31/2016
Date

Responsible Entity or designee Signature:

Hermia Delaire, CDBG-DR Program Manager

6/1/2016
Date

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Attachment 1 – Checklist Item # 1 Documentation – CT SHPO Determination Statement

2503
MG

Department of Economic and Community Development

Connecticut
still revolutionary

December 23, 2015

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
23 Caroline Street
Milford, Connecticut

Dear Ms. Delaire:

The State Historic Preservation Office has reviewed the information submitted for the above-named pursuant to the provisions of Section 106 of the National Historic Preservation Act of 1966. It is the opinion of this office that the property located at 23 CarolineStreet is eligible for listing on the National Register of Historic Places as a contributing resource to the potential East Broadway Historic District. SHPO understands that the Department of Housing will fund the demolition of the existing structure and construction of a new home because it is more cost effective than rehabilitation and elevation. SHPO has no objection to the proposed undertaking, but the proposed demolition of 23 Caroline Street will have an adverse effect on the state's cultural resources. This office appreciates the opportunity to have reviewed and commented upon the project and we anticipate additional coordination per the Programmatic Agreement. For additional information, please contact me at (860) 256-2764 or catherine.labadia@ct.gov.

Sincerely,

Catherine Labadia
Deputy State Historic Preservation Officer

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Rocky Hill, CT 06067
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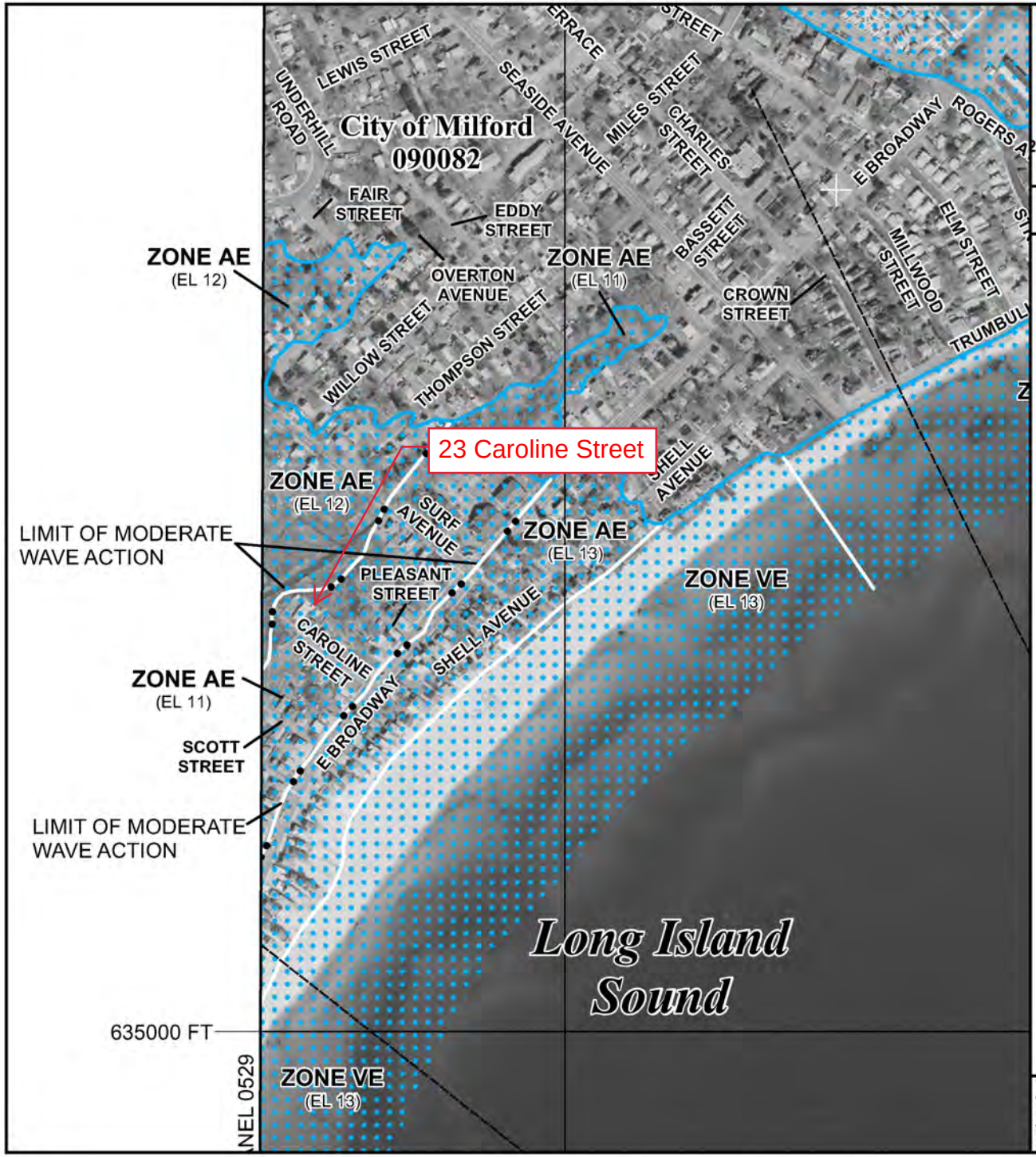
Attachment 2 – Checklist Item #2, #12A and #14A Documentation – FEMA FIRM Flood Mapping



MAP SCALE 1" = 500'

250 0 500 1000

FEET

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0533J

FIRM

FLOOD INSURANCE RATE MAP

NEW HAVEN COUNTY, CONNECTICUT

(ALL JURISDICTIONS)

PANEL 533 OF 635

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
MILFORD, CITY OF	090082	0533	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
09009C0533J

MAP REVISED
JULY 8, 2013

Federal Emergency Management Agency

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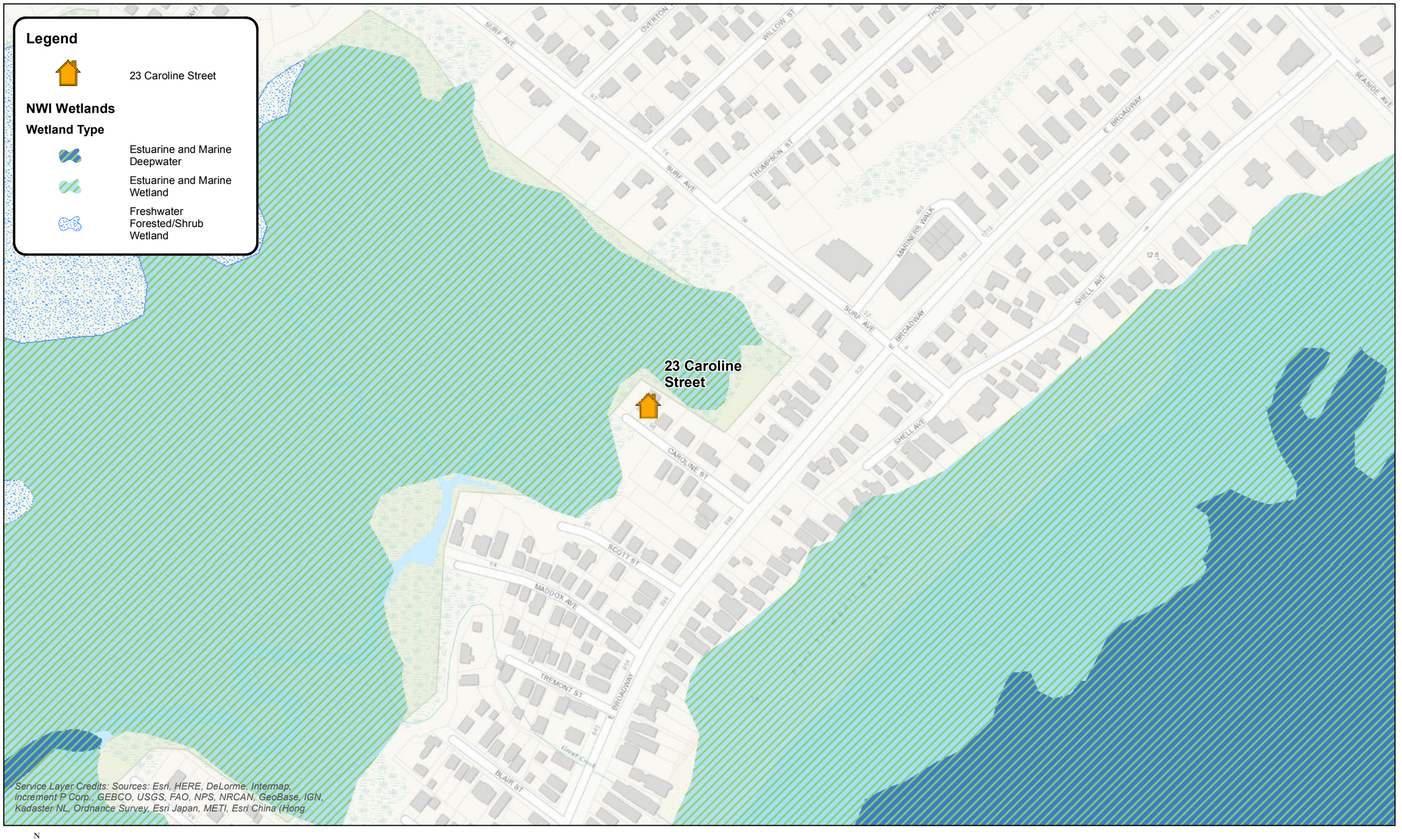
Attachment 3 – Checklist Item 3 Documentation – Wetlands Protection



Date: 10/23/2015

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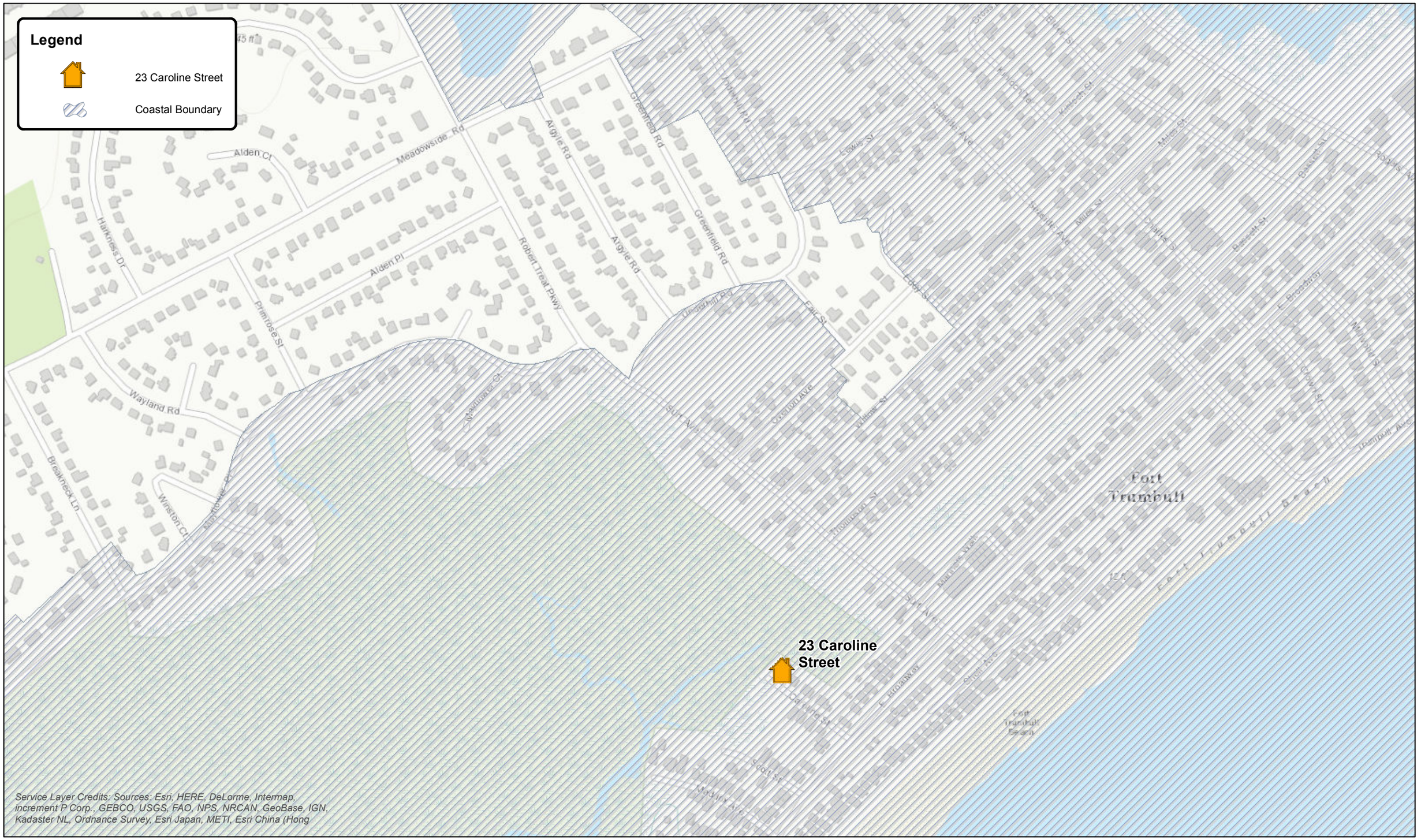
Attachment 4 – Checklist Item 4 Documentation – Coastal Management Zone


Legend
23 Caroline Street
Coastal Boundary
Alden Ct
Meadowside Rd
Alden Pl
Harkness Dr
Primrose St
Wayland Rd
Breakneck Ln
Wriston Ct
Argyle Rd
Robert Treat Pkwy
Greenfield Rd
Lewis St
Fair St
Miles St
Fort Trumbull
23 Caroline Street
Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong
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Date: 10/23/2015

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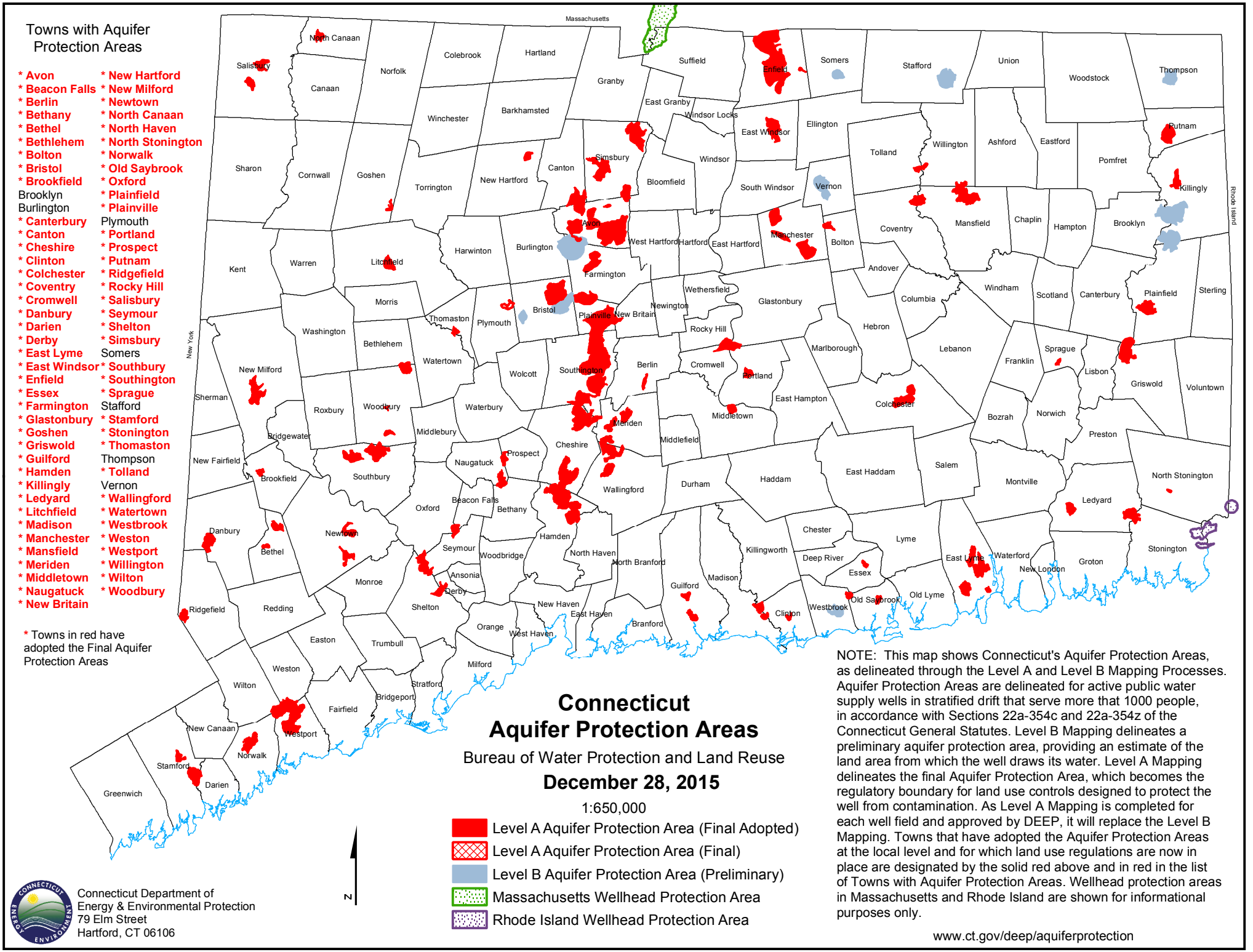
Attachment 5 – Checklist Item 5 Documentation – Water Quality – Aquifers


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
Massachusetts
Rhode Island
New York
Connecticut
Aquifer Protection Areas
Bureau of Water Protection and Land Reuse
December 28, 2015
1:650,000
Level A Aquifer Protection Area (Final Adopted)
Level A Aquifer Protection Area (Final)
Level B Aquifer Protection Area (Preliminary)
Massachusetts Wellhead Protection Area
Rhode Island Wellhead Protection Area
N
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. Wellhead protection areas in Massachusetts and Rhode Island are shown for informational purposes only.
www.ct.gov/deep/aquiferprotection
Connecticut Department of Energy & Environmental Protection
79 Elm Street
Hartford, CT 06106

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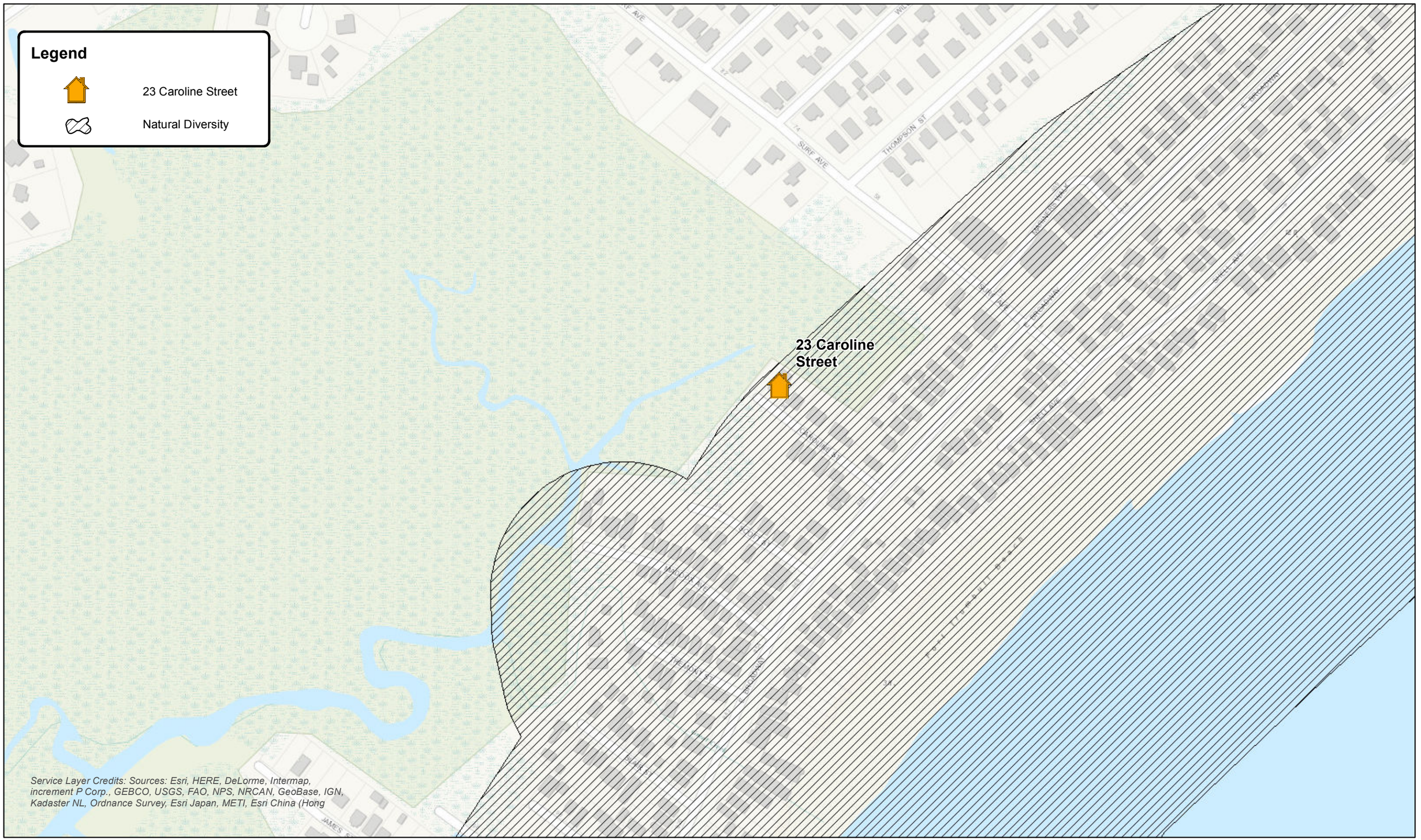
Attachment 6A – Checklist Item 6 Documentation – Natural Diversity Data Base and Endangered Species


Legend
23 Caroline Street
Natural Diversity
23 Caroline Street
SURF AVE
THOMPSON ST
Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong
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Date: 10/23/2015

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Attachment 6B – Checklist Item 6 Documentation – USFWS IPaC List

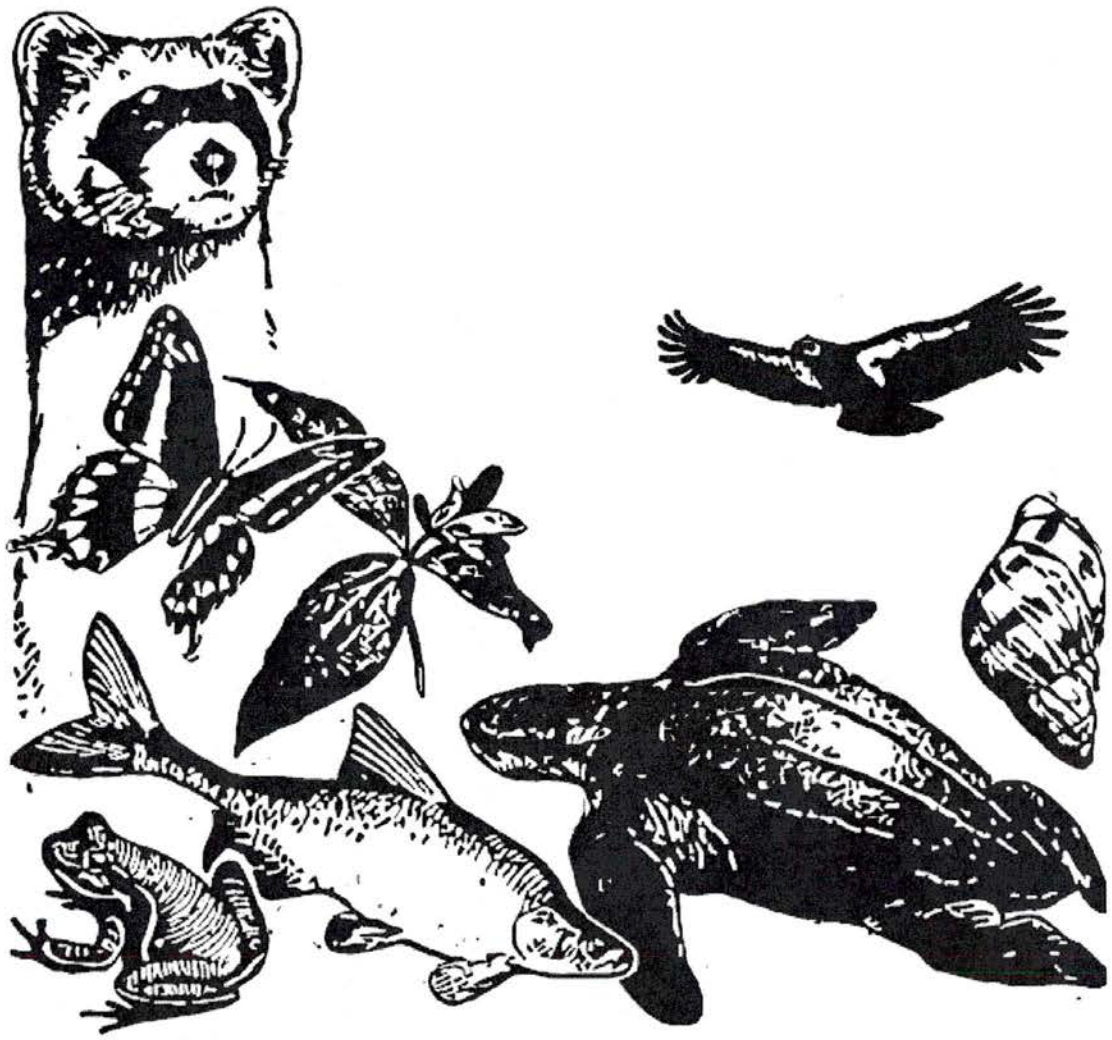
U.S. Fish & Wildlife Service

2503

IPaC Trust Resources Report

Generated May 31, 2016 05:45 AM MDT, IPaC v3.0.7

This report is for informational purposes only and should not be used for planning or analyzing project level impacts. For project reviews that require U.S. Fish & Wildlife Service review or concurrence, please return to the IPaC website and request an official species list from the Regulatory Documents page.



IPaC - Information for Planning and Conservation (https://ecos.fws.gov/ipac/): A project planning tool to help streamline the U.S. Fish & Wildlife Service environmental review process.

Table of Contents

U.S. Fish & Wildlife Service

IPaC Trust Resources Report

NAME

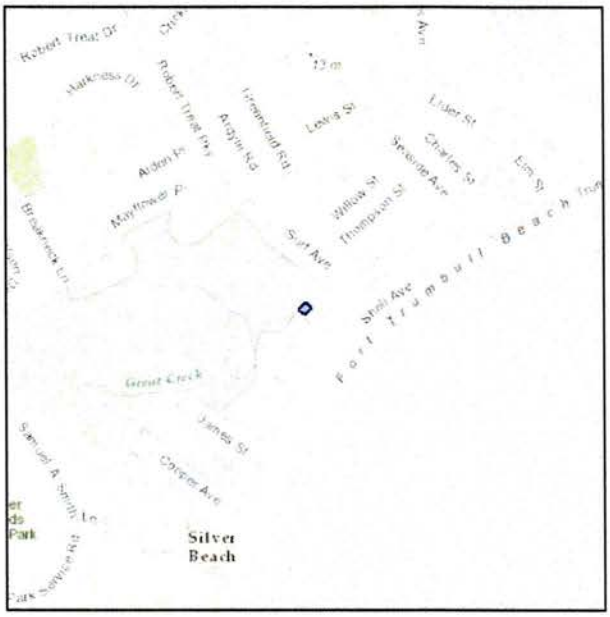
2503

LOCATION

New Haven County, Connecticut

IPAC LINK

https://ecos.fws.gov/ipac/project/JWOIT-OU5ZZ-E2VCO-F2CQZ-CAR554



U.S. Fish & Wildlife Service Contact Information

Trust resources in this location are managed by:

New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
(603) 223-2541

Endangered Species

Proposed, candidate, threatened, and endangered species are managed by the Endangered Species Program of the U.S. Fish & Wildlife Service.

This USFWS trust resource report is for informational purposes only and should not be used for planning or analyzing project level impacts.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list from the Regulatory Documents section.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency.

A letter from the local office and a species list which fulfills this requirement can only be obtained by requesting an official species list either from the Regulatory Documents section in IPaC or from the local field office directly.

The list of species below are those that may occur or could potentially be affected by activities in this location:

Birds

Red Knot Calidris canutus rufa — **Threatened**

CRITICAL HABITAT
No critical habitat has been designated for this species.
http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0DM

Mammals

Northern Long-eared Bat Myotis septentrionalis — **Threatened**

CRITICAL HABITAT
No critical habitat has been designated for this species.
http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=A0JE

Critical Habitats

There are no critical habitats in this location

Migratory Birds

Birds are protected by the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act.

Any activity that results in the take of migratory birds or eagles is prohibited unless authorized by the U.S. Fish & Wildlife Service.[1] There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

Any person or organization who plans or conducts activities that may result in the take of migratory birds is responsible for complying with the appropriate regulations and implementing appropriate conservation measures.

---

1. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

Additional information can be found using the following links:

- Birds of Conservation Concern
  http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php
- Conservation measures for birds
  http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php
- Year-round bird occurrence data
  http://www.birdscanada.org/birdmon/default/datasummaries.jsp

The following species of migratory birds could potentially be affected by activities in this location:

American Oystercatcher Haematopus palliatus — Bird of conservation concern
Year-round
http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0G8

American Bittern Botaurus lentiginosus — Bird of conservation concern
Season: Breeding
http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0F3

Bald Eagle Haliaeetus leucocephalus — Bird of conservation concern
Year-round
http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B008

Black Skimmer Rynchops niger — Bird of conservation concern
Season: Breeding
http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0EO

Black-billed Cuckoo Coccyzus erythropthalmus — Bird of conservation concern
Season: Breeding
http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0HI

Blue-winged Warbler Vermivora pinus — Bird of conservation concern
Season: Breeding

Canada Warbler Wilsonia canadensis — Bird of conservation concern
Season: Breeding

Fox Sparrow Passerella iliaca — Bird of conservation concern
Season: Wintering

Hudsonian Godwit Limosa haemastica — Bird of conservation concern
Season: Migrating

Least Bittern Ixobrychus exilis
Season: Breeding
http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B092

Least Tern Sterna antillarum — Bird of conservation concern
Season: Breeding

Peregrine Falcon Falco peregrinus — Bird of conservation concern
Season: Wintering
http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0FU

Pied-billed Grebe Podilymbus podiceps — Bird of conservation concern
Year-round

Prairie Warbler Dendroica discolor — Bird of conservation concern
Season: Breeding

Purple Sandpiper Calidris maritima — Bird of conservation concern
Season: Wintering

Rusty Blackbird Euphagus carolinus — Bird of conservation concern
Season: Wintering

Saltmarsh Sparrow Ammodramus caudacutus — Bird of conservation concern
Season: Breeding

Seaside Sparrow Ammodramus maritimus — Bird of conservation concern
Year-round

Short-eared Owl Asio flammeus — Bird of conservation concern
Season: Wintering
http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0HD

Snowy Egret Egretta thula — Bird of conservation concern
Season: Breeding

Upland Sandpiper Bartramia longicauda — Bird of conservation concern
Season: Breeding
http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0HC

Willow Flycatcher Empidonax traillii — Bird of conservation concern
Season: Breeding
http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0F6

Wood Thrush Hylocichla mustelina — Bird of conservation concern
Season: Breeding

Worm Eating Warbler Helmitheros vermivorum — Bird of conservation concern
Season: Breeding

Wildlife refuges and fish hatcheries

There are no refuges or fish hatcheries in this location

Wetlands in the National Wetlands Inventory

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

DATA LIMITATIONS

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

DATA EXCLUSIONS

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

DATA PRECAUTIONS

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

There are no wetlands in this location

MCA
MARTINEZ COUCH & ASSOCIATES

1084 Cromwell Avenue Suite, A-2
Rocky Hill, CT 06067
Tel: 860-436-4364
Fax: 860-436-4626
www.martinezcouch.com

Attachment 6C – Checklist Item 6 Documentation – CT DEEP, NDDB Review

Connecticut Department of

ENERGY &
ENVIRONMENTAL
PROTECTION

January 9, 2016

Matthew Ranando
Martinez Couch & Associates L.L.C.
1084 Cromwell Avenue
Suite A-2
Rocky Hill, CT 06067
Mranando@martinezcouch.com

Project: Demolish and Rebuild a Residential House with Added Masonry Wall at 23 Caroline Street in Milford
NDDB Determination No.: 201509945

Dear Matthew Ranando,

I have reviewed Natural Diversity Data Base (NDDB) maps and files regarding the area delineated on the map provided for the proposed Demolish and Rebuild a Residential House with Added Masonry Wall at 23 Caroline Street in Milford, Connecticut. I do not anticipate negative impacts to State-listed species (RCSA Sec. 26-306) resulting from your proposed activity at the site based upon the information contained within the NDDB. The result of this review does not preclude the possibility that listed species may be encountered on site and that additional action may be necessary to remain in compliance with certain state permits. This determination is good for one year. Please re-submit an NDDB Request for Review if the scope of work changes or if work has not begun on this project by January 9, 2017.

Natural Diversity Data Base information includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Natural History Survey and cooperating units of DEEP, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the Data Base should not be substitutes for on-site surveys required for environmental assessments. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated into the Data Base as it becomes available.

Please contact me if you have further questions at (860) 424-3592, or dawn.mckay@ct.gov . Thank you for consulting the Natural Diversity Data Base.

Sincerely,

Dawn M. McKay

Dawn M. McKay
Environmental Analyst 3

MCA
MARTINEZ COUCH & ASSOCIATES

1084 Cromwell Avenue Suite, A-2
Rocky Hill, CT 06067
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Attachment 7 – Checklist Item 11 Documentation – Environmental Justice

2015 Distressed Municipalities

Ranked by Score

	Total Scores	
Waterbury	**1407**	**1**
Ansonia	**1384**	**2**
New Britain	**1374**	**3**
New London	**1364**	**4**
Hartford	**1341**	**5**
Bridgeport	**1312**	**6**
Derby	**1307**	**7**
Putnam	**1307**	**8**
Naugatuck	**1294**	**9**
Meriden	**1275**	**10**
Sprague	**1263**	**11**
Bristol	**1257**	**12**
Windham	**1239**	**13**
East Hartford	**1225**	**14**
Torrington	**1222**	**15**
North Canaan	**1209**	**16**
Norwich	**1208**	**17**
Enfield	**1192**	**18**
New Haven	**1183**	**19**
Killingly	**1172**	**20**
Griswold	**1169**	**21**
Stafford	**1166**	**22**
Plymouth	**1161**	**23**
Preston	**1157**	**24**
West Haven	**1156**	**25**

2015 Distressed Municipalities

In town alphabetical order

	Total Scores
Ansonia	**1384**
Bridgeport	**1312**
Bristol	**1257**
Derby	**1307**
East Hartford	**1225**
Enfield	**1192**
Griswold	**1169**
Hartford	**1341**
Killingly	**1172**
Meriden	**1275**
Naugatuck	**1294**
New Britain	**1374**
New Haven	**1183**
New London	**1364**
North Canaan	**1209**
Norwich	**1208**
Plymouth	**1161**
Preston	**1157**
Putnam	**1307**
Sprague	**1263**
Stafford	**1166**
Torrington	**1222**
Waterbury	**1407**
West Haven	**1156**
Windham	**1239**

Prepared by DECD Research

8/25/2015

MCA
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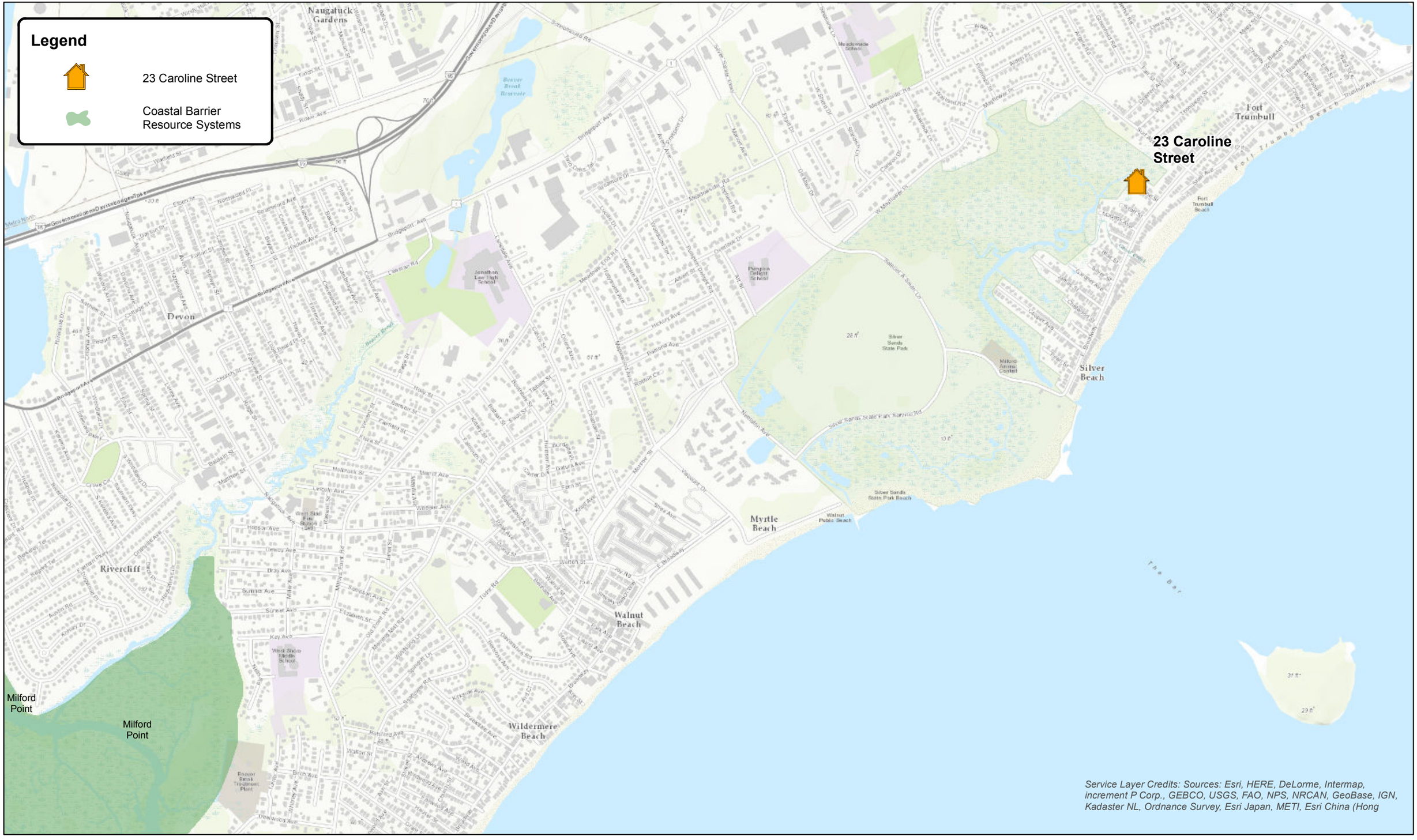
Attachment 8 – Checklist Item 12B Documentation – Coastal Barrier Resource System


Legend
23 Caroline Street
Coastal Barrier Resource Systems
23 Caroline Street
Naugatuck Gardens
Devon
Riverciff
Milford Point
Milford Point
Fort Trumbull
Silver Beach
Myrtle Beach
Walnut Beach
Wildermere Beach
Silver Sands State Park
Silver Sands State Park Beach
Walnut Public Beach
Jonathan Law High School
Pumpkin Delight School
Meadowside School
West Side Middle School
Beaver Brook Treatment Plant
Milford Power Company
The Bar
Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong
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0 500 1,000 2,000 3,000 4,000 5,000
Feet
Date: 10/23/2015

MCA
MARTINEZ COUCH & ASSOCIATES

1084 Cromwell Avenue Suite, A-2
Rocky Hill, CT 06067
Tel: 860-436-4364
Fax: 860-436-4626
www.martinezcouch.com

Attachment 9 – Checklist Item 13C, 13D, 13E, 13F Documentation – Hazardous Material Inspection Report

Facility Support Services, LLC

Environmental & Safety Consulting Engineers

Connecticut Department of Housing
Community Development Block Grant – Disaster Recovery
Owner Occupied Recovery and Rehabilitation Program

Hazardous Materials
Inspection Report

23 Caroline St.
Milford, Connecticut

PREPARED FOR:

Martinez Couch & Associates, LLC
1084 Cromwell Ave. Suite A-2
Rocky Hill, CT 06067

PREPARED BY:

Facility Support Services, LLC
2685 State Street
Hamden, CT 06517
Phone (203) 288-1281

April 28, 2015

FSS #22214

SIGNATURES OF REPORT AUTHORS

The employees of Facility Support Services, LLC whose names appear below prepared this report. Requests for information on the content of this document should be directed to these individuals.

Michael DiFabio
CTDPH Asbestos Inspector #000898

2685 State Street • Hamden, Connecticut 06517
Ph: 203-288-1281 • Fax: 203-248-4409
Website: www.fssteam.com

TABLE OF CONTENTS

ATTACHMENTS

I. Introduction

Facility Support Services, LLC (FSS) was contracted by Martinez, Couch & Associates, LLC (MCA) to perform a limited scope hazardous materials survey of 23 Caroline Street in Milford, Connecticut (the "Site"). The purpose of this inspection was to identify the presence of asbestos, PCBs, lead paint and mold in certain building materials damaged by the October 2012 Tropical Storm Sandy under the Connecticut Department of Housing (DOH), Community Development Block Grant – Disaster Recovery Owner Occupied Recovery and Rehabilitation Program. FSS did not perform radon testing due to the proposed demolition of the residence.

FSS utilized best industry practices to identify all suspect materials associated with the structures. Any material that has not been identified during this inspection or discovered during demolition activities must be presumed to be hazardous until such time that samples of the material can be collected and analyzed.

II. Mold

FSS conducted an inspection of visible mold growth within the residence on April 9, 2015. No visible mold growth was observed in any portion of the residence, in addition, since this project does not involve renovations to the residence, testing for mold air was not conducted at the 23 Caroline Street in Milford residence.

III. Asbestos

FSS conducted a limited scope asbestos inspection and bulk sampling on April 9, 2015 of suspect building materials that are proposed for demolition. The inspection was conducted by Michael DiFabio, a State of Connecticut licensed Asbestos Inspector. Mr. DiFabio's Connecticut Asbestos Inspectors license is provided in Attachment A.

The following suspect materials were indentified during the inspection:

- Living Room:
  - Textured Ceiling
  - Ceiling Joint Compound
  - Flooring (Floral)
  - Flooring (Beneath Floral Layer)
  - Ceiling Sheetrock

- Kitchen - Flooring Underlayment
- Laundry Room - Setting Compound
- Rear Addition Bathroom - Setting Compound
- Rear Addition - Interior Vinyl Window Caulking
- Bedroom Flooring:
    - Tar Paper (Top Layer)
    - Tar Paper (Bottom Layer)
- Attic - Blown-in Insulation
- Bathroom:
    - Flooring
    - Flooring Underlayment
    - Window Caulking (Interior)
- Hallway:
    - Textured Ceiling
    - Ceiling Joint Compound
    - Green & White Flooring
- Master Bedroom:
    - Textured Ceiling
    - Ceiling Joint Compound
    - Green & White Flooring
    - Ceiling Sheetrock
- Green & White Flooring Underlayment
- Main House - Interior Vinyl Window Caulking
- Porch - Tile Setting Compound
- Exterior:
    - Cement Shingle Siding
    - Main Roof - Asphalt Shingles (Top Layer)
    - Main Roof - Asphalt Shingles (Second Layer)
    - Porch Roof - Asphalt Shingles (Third Layer)
    - Main Roof - Tar Paper
    - Main House - Exterior Vinyl Window Caulking
    - Main House – Exterior Cinder Block Coating (White)
- Porch Roof to Main House Tar
- Rear Addition - Rolled Roofing
- Rear Addition - Roof Sealant Tar

This asbestos inspection was performed in accordance with the EPA, NESHAP regulations for building renovations and demolition, 40 CFR Part 61, Amended 11/20/1990. The bulk asbestos samples collected during this inspection were delivered under full chain of custody and analyzed by EMSL Analytical, Inc., via EPA/600/R-93/116. This is currently the approved EPA test method, which uses Polarized Light Microscopy (PLM). EMSL Analytical, Inc. is an accredited asbestos laboratory (NVLAP # 200700-0) and is a State of Connecticut approved public health laboratory for asbestos analysis. EMSL recommended additional Transmission Electron Microscopy (TEM) analysis for one of the materials sampled (Porch Roof to Main House Tar) due to matrix interferences. FSS activated the samples for TEM analysis. Copies of the laboratory analytical results can be found in Attachment B of this report.

Laboratory results have revealed that the asbestos content of the following materials are above the 1% required to confirm a material as asbestos containing.

- **Bathroom Flooring**
- **Cement Shingle Siding**
- **Rear Addition - Roof Sealant Tar**
- **Porch Roof to Main House Tar**

IV. PCBs

Following an inspection of building materials proposed for renovations, eight suspected PCB-containing materials were identified:

- Bathroom:
  - Interior Window Caulking
  - Flooring Underlayment
- Bedroom:
  - Tar Paper (Top Layer)
  - Tar Paper (Bottom Layer)
- Porch Roof to House Tar
- Green & White Flooring Underlayment
- Main Roof Tar Paper
- Rear Addition Roof Flashing Tar

Copies of the laboratory analytical results can be found in Attachment C of this report.

Laboratory results have revealed that the PCB content of the tested material is below the 1 ppm required to confirm a material is regulated for PCBs.

V. Lead

The subject residential structure was built prior to 1978 (in 1954) and therefore the likelihood that lead painted surfaces are present is increased. As a residential structure built prior to 1978 the removal of lead painted materials where a child under 6 is housed, or may visit, would trigger the EPA Renovation, Repair and Painting (RRP) rule. Furthermore, adherence to the requirements of The Lead-Safe Housing Rule (US Department of Housing and Urban development, HUD) are stipulated by the Connecticut Department of Housing (DOH) as part of the Community Development Block Grant – Disaster Recovery Owner Occupied Recovery and Rehabilitation Program.

A building wide XRF inspection was conducted by Maureen Monaco of Gilberto Lead Inspections, LLC (Gilbertco) utilizing a RMD LPA-1 X-Ray Fluoroscope Spectrum Analyzer. Appendix E contains the Lead Inspection Report. The findings of the investigation determined that none of the tested surfaces were positive for lead based paint (>1.0 mg/cm^2).

Non-Intact Materials

A copy of the Gilbertco Lead Inspection Report is provided in Appendix D. Following the HUD Lead-Safe Housing Guidelines, non-intact materials should undergo interim measures to abate the hazard. No non-intact lead containing materials have been identified in the residence; therefore, no further consideration for lead paint is required.

Demolition Materials

When toxic wastes are land disposed, contaminated liquid may leach from the waste and pollute ground water. Toxicity is defined through a laboratory procedure called the Toxicity Characteristic Leaching Procedure (TCLP) (Method 1311). The TCLP helps identify wastes likely to leach concentrations of contaminants that may be harmful to human health or the environment. There are no areas that tested positive for lead (regardless of intactness) that are proposed for demolition.

VI. Conclusions & Recommendations

When the structure is renovated/demolished, all removed debris should be sent to an appropriate landfill for final disposal following all appropriate regulations. Any work involving lead-containing paints should be conducted under the EPA's RRP Renovation, Repair and Painting Rule. Any material discovered during renovation activities which have not been included in this survey must be presumed to contain asbestos, lead and PCBs until such time that the material can be evaluated and sampled.

Asbestos – Four asbestos containing materials (>1% asbestos) were identified in materials proposed for renovation or demolition:

- **Bathroom Flooring**
- **Cement Shingle Siding**
- **Rear Addition - Roof Sealant Tar**
- **Porch Roof to Main House Tar**

An asbestos work plan will be required for removal and proper disposal of this material prior to demolition of the residence.

PCBs- Eight suspected PCB-containing materials were identified in proposed demolition materials. Testing of these materials found that it does not contain regulated levels of PCBs. No further investigations or special disposal requirements (for PCBs) are required for this project.

Mold - FSS conducted a visual inspection of mold growth within the residence. No visible mold growth was observed in any portion of the residence; in addition, since this project does not involve renovations to the residence, testing for mold air was not conducted.

Lead - Following the HUD Lead-Safe Housing Guidelines, the non-intact areas should undergo interim measures to abate the hazard. No non-intact lead containing surfaces were identified within the residence; therefore no further consideration of lead paint is required.

There are no areas that tested positive for lead (regardless of intactness) that are proposed for demolition. No further consideration for lead containing demolition debris is required for this project.

ATTACHMENTS

ATTACHMENT A

FSS LISENSURE

State of Connecticut

Lookup Detail View

Name

Name
MIKE V DIFABIO

License Information
lookup

License Type	License Number	Expiration Date	Granted Date	License Name	License Status	Licensure Actions or Pending Charges
Asbestos Consultant-Inspector	898	12/31/2015	02/25/2015	MIKE V DIFABIO	ACTIVE	None

Generated on: 2/26/2015 3:15:39 PM

ATTACHMENT B

ASBESTOS LABORATORY ANALYTICAL DATA

EMSL Analytical, Inc.
29 North Plains Highway, Unit # 4, Wallingford, CT 06492
Phone/Fax: 203-284-5948 / (203) 284-5978
http://www.EMSL.com wallingfordlab@emsl.com

EMSL Order:	241501411
CustomerID:	FSS93
CustomerPO:	
ProjectID:	

Attn: **Michael DiFabio**
Facility Support Services, LLC
2685 State Street

Hamden, CT 06517

Project: **22214-23 CAROLINE**

Phone:	(203) 288-1281
Fax:	(203) 248-4409
Received:	04/10/15 8:20 AM
Analysis Date:	4/15/2015
Collected:	

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**
22214-0409-2301A *241501411-0001*	Living room - textured ceiling	White Non-Fibrous Homogeneous			100% Non-fibrous (other)	**None Detected**
22214-0409-2301B *241501411-0002*	Living room - textured ceiling	White Non-Fibrous Homogeneous			100% Non-fibrous (other)	**None Detected**
22214-0409-2301C *241501411-0003*	Living room - textured ceiling	White Non-Fibrous Homogeneous			100% Non-fibrous (other)	**None Detected**
22214-0409-2302A *241501411-0004*	Living room - ceiling joint compound	White Non-Fibrous Homogeneous			100% Non-fibrous (other)	**None Detected**
22214-0409-2302B *241501411-0005*	Living room - ceiling joint compound	White Non-Fibrous Homogeneous			100% Non-fibrous (other)	**None Detected**
22214-0409-2302C *241501411-0006*	Living room - ceiling joint compound	White Non-Fibrous Homogeneous			100% Non-fibrous (other)	**None Detected**
22214-0409-2303A *241501411-0007*	Living room - flooring (floral)	Brown/Tan/Red Fibrous Homogeneous	75% Cellulose		25% Non-fibrous (other)	**None Detected**
22214-0409-2303B *241501411-0008*	Living room - flooring (floral)	Brown/Tan/Red Fibrous Homogeneous	75% Cellulose		25% Non-fibrous (other)	**None Detected**

Analyst(s)

Desiree Lunt (47)
Joshua Snyder (44)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

Initial report from 04/17/2015 08:51:59

EMSL Analytical, Inc.
29 North Plains Highway, Unit # 4, Wallingford, CT 06492
Phone/Fax: 203-284-5948 / (203) 284-5978
http://www.EMSL.com wallingfordlab@emsl.com

EMSL Order:	241501411
CustomerID:	FSS93
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Attn: **Michael DiFabio**
Facility Support Services, LLC
2685 State Street

Hamden, CT 06517

Project: **22214-23 CAROLINE**

Phone:	(203) 288-1281
Fax:	(203) 248-4409
Received:	04/10/15 8:20 AM
Analysis Date:	4/15/2015
Collected:	

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**
22214-0409-2303C *241501411-0009*	Living room - flooring (floral)	Brown/Tan/Red Fibrous Homogeneous	70%	Cellulose	30%	Non-fibrous (other)	**None Detected**
22214-0409-2304A *241501411-0010*	Living room - flooring (beneath floral)	Gray/Black Fibrous Homogeneous	75%	Cellulose	25%	Non-fibrous (other)	**None Detected**
22214-0409-2304B *241501411-0011*	Living room - flooring (beneath floral)	Gray/Black Fibrous Homogeneous	70%	Cellulose	30%	Non-fibrous (other)	**None Detected**
22214-0409-2304C *241501411-0012*	Living room - flooring (beneath floral)	Gray/Black Fibrous Homogeneous	70%	Cellulose	30%	Non-fibrous (other)	**None Detected**
22214-0409-2305A *241501411-0013*	Kitchen - flooring underlayment	Gray/Black Fibrous Homogeneous	80%	Cellulose	20%	Non-fibrous (other)	**None Detected**
22214-0409-2305B *241501411-0014*	Kitchen - flooring underlayment	Gray/Black Fibrous Homogeneous	80%	Cellulose	20%	Non-fibrous (other)	**None Detected**
22214-0409-2305C *241501411-0015*	Kitchen - flooring underlayment	Gray/Black Fibrous Homogeneous	75%	Cellulose	25%	Non-fibrous (other)	**None Detected**
22214-0409-2306A *241501411-0016*	Laundry room - setting compound	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**

Analyst(s)

Desiree Lunt (47)
Joshua Snyder (44)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

Initial report from 04/17/2015 08:51:59

EMSL Analytical, Inc.
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Project: **22214-23 CAROLINE**

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Fax:	(203) 248-4409
Received:	04/10/15 8:20 AM
Analysis Date:	4/15/2015
Collected:	

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**
22214-0409-2306B *241501411-0017*	Laundry room - setting compound	Gray Non-Fibrous Homogeneous			100% Non-fibrous (other)	**None Detected**
22214-0409-2306C *241501411-0018*	Laundry room - setting compound	Gray Non-Fibrous Homogeneous			100% Non-fibrous (other)	**None Detected**
22214-0409-2307A *241501411-0019*	Rear addition bathroom - setting compound	Gray Non-Fibrous Homogeneous			100% Non-fibrous (other)	**None Detected**
22214-0409-2307B *241501411-0020*	Rear addition bathroom - setting compound	Gray Non-Fibrous Homogeneous			100% Non-fibrous (other)	**None Detected**
22214-0409-2307C *241501411-0021*	Rear addition bathroom - setting compound	Gray Non-Fibrous Homogeneous			100% Non-fibrous (other)	**None Detected**
22214-0409-2308A *241501411-0022*	Rear interior addition - vinyl window caulking	White Non-Fibrous Homogeneous			100% Non-fibrous (other)	**None Detected**
22214-0409-2308B *241501411-0023*	Rear interior addition - vinyl window caulking	White Non-Fibrous Homogeneous			100% Non-fibrous (other)	**None Detected**
22214-0409-2309A *241501411-0024*	Bedroom flooring - tar paper (top layer)	Black Fibrous Homogeneous	90% Cellulose		10% Non-fibrous (other)	**None Detected**

Analyst(s)

Desiree Lunt (47)
Joshua Snyder (44)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

Initial report from 04/17/2015 08:51:59

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:	241501411
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CustomerPO:	
ProjectID:	

Attn: **Michael DiFabio**
Facility Support Services, LLC
2685 State Street

Hamden, CT 06517

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
22214-0409-2309B *241501411-0025*	Bedroom flooring - tar paper (top layer)	Black Fibrous Homogeneous	90%	Cellulose	10%	Non-fibrous (other)	**None Detected**
22214-0409-2309C *241501411-0026*	Bedroom flooring - tar paper (top layer)	Black Fibrous Homogeneous	80%	Cellulose	20%	Non-fibrous (other)	**None Detected**
22214-0409-2310A *241501411-0027*	Bedroom flooring - tar paper (bottom layer)	Gray/Black Fibrous Homogeneous	85%	Cellulose	15%	Non-fibrous (other)	**None Detected**
22214-0409-2310B *241501411-0028*	Bedroom flooring - tar paper (bottom layer)	Gray/Black Fibrous Homogeneous	85%	Cellulose	15%	Non-fibrous (other)	**None Detected**
22214-0409-2310C *241501411-0029*	Bedroom flooring - tar paper (bottom layer)	Gray/Black Fibrous Homogeneous	70%	Cellulose	30%	Non-fibrous (other)	**None Detected**
22214-0409-2311A *241501411-0030*	Attic - blown-in insulation	Brown/Gray Fibrous Homogeneous	98%	Cellulose	2%	Non-fibrous (other)	**None Detected**
22214-0409-2311B *241501411-0031*	Attic - blown-in insulation	Brown/Gray Fibrous Homogeneous	98%	Cellulose	2%	Non-fibrous (other)	**None Detected**
22214-0409-2311C *241501411-0032*	Attic - blown-in insulation	Brown/Gray Fibrous Homogeneous	95%	Cellulose	5%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
22214-0409-2312A *241501411-0033*	Bathroom flooring	Gray Non-Fibrous Homogeneous			94%	Non-fibrous (other)	**6% Chrysotile**
22214-0409-2312B *241501411-0034*	Bathroom flooring						**Stop Positive (Not Analyzed)**
22214-0409-2312C *241501411-0035*	Bathroom flooring						**Stop Positive (Not Analyzed)**
22214-0409-2313A *241501411-0036*	Bathroom flooring - underlayment	Black Fibrous Homogeneous	95%	Cellulose	5%	Non-fibrous (other)	**None Detected**
22214-0409-2313B *241501411-0037*	Bathroom flooring - underlayment	Black Fibrous Homogeneous	95%	Cellulose	5%	Non-fibrous (other)	**None Detected**
22214-0409-2313C *241501411-0038*	Bathroom flooring - underlayment	Black Fibrous Homogeneous	80%	Cellulose	20%	Non-fibrous (other)	**None Detected**
22214-0409-2314A *241501411-0039*	Bathroom - window caulking (interior)	Beige Non-Fibrous Homogeneous	8%	Cellulose	92%	Non-fibrous (other)	**None Detected**
22214-0409-2314B *241501411-0040*	Bathroom - window caulking (interior)	Beige Non-Fibrous Homogeneous	8%	Cellulose	92%	Non-fibrous (other)	**None Detected**
22214-0409-2314C *241501411-0041*	Bathroom - window caulking (interior)	Beige Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
22214-0409-2315A *241501411-0042*	Hallway - textured ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
22214-0409-2315B *241501411-0043*	Hallway - textured ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
22214-0409-2315C *241501411-0044*	Hallway - textured ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
22214-0409-2316A *241501411-0045*	Master bedroom - textured ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
22214-0409-2316B *241501411-0046*	Master bedroom - textured ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
22214-0409-2316C *241501411-0047*	Master bedroom - textured ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
22214-0409-2317A *241501411-0048*	Hallway - joint compound (ceiling)	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
22214-0409-2317B *241501411-0049*	Hallway - joint compound (ceiling)	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**		**% Type**
22214-0409-2317C *241501411-0050*	Hallway - joint compound (ceiling)	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
22214-0409-2318A *241501411-0051*	Master bedroom - joint compound (ceiling)	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
22214-0409-2318B *241501411-0052*	Master bedroom - joint compound (ceiling)	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
22214-0409-2318C *241501411-0053*	Master bedroom - joint compound (ceiling)	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
22214-0409-2319A *241501411-0054*	Master bedroom/hallway - green + white flooring	White/Green Fibrous Homogeneous	60%	Cellulose	40%	Non-fibrous (other)	**None Detected**
22214-0409-2319B *241501411-0055*	Master bedroom/hallway - green + white flooring	White/Green Fibrous Homogeneous	60%	Cellulose	40%	Non-fibrous (other)	**None Detected**
22214-0409-2319C *241501411-0056*	Master bedroom/hallway - green + white flooring	White/Green Fibrous Homogeneous	60%	Cellulose	40%	Non-fibrous (other)	**None Detected**
22214-0409-2320A *241501411-0057*	Green + white flooring underlayment	Brown Fibrous Homogeneous	50%	Cellulose	50%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**		**% Type**
22214-0409-2320B *241501411-0058*	Green + white flooring underlayment	Brown Fibrous Homogeneous	50%	Cellulose	50%	Non-fibrous (other)	**None Detected**
22214-0409-2320C *241501411-0059*	Green + white flooring underlayment	Brown Fibrous Homogeneous	45%	Cellulose	55%	Non-fibrous (other)	**None Detected**
22214-0409-2321A *241501411-0060*	Main house - interior vinyl window caulking	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
22214-0409-2321B *241501411-0061*	Main house - interior vinyl window caulking	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
22214-0409-2321C *241501411-0062*	Main house - interior vinyl window caulking	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
22214-0409-2322A *241501411-0063*	Porch - tile setting compound	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
22214-0409-2322B *241501411-0064*	Porch - tile setting compound	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
22214-0409-2322C *241501411-0065*	Porch - tile setting compound	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**

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Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
22214-0409-2323A *241501411-0066*	Living room - ceiling sheetrock	Gray Fibrous Homogeneous	12% Cellulose	88% Non-fibrous (other)	**None Detected**
22214-0409-2323B *241501411-0067*	Living room - ceiling sheetrock	Gray Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	**None Detected**
22214-0409-2324A *241501411-0068*	Master bedroom - ceiling sheetrock	Gray Fibrous Homogeneous	12% Cellulose	88% Non-fibrous (other)	**None Detected**
22214-0409-2324B *241501411-0069*	Master bedroom - ceiling sheetrock	Gray Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	**None Detected**
22214-0409-2325A *241501411-0070*	Cement shingle siding	Gray Fibrous Homogeneous		85% Non-fibrous (other)	**15% Chrysotile**
22214-0409-2325B *241501411-0071*	Cement shingle siding				**Stop Positive (Not Analyzed)**
22214-0409-2325C *241501411-0072*	Cement shingle siding				**Stop Positive (Not Analyzed)**
22214-0409-2326A *241501411-0073*	Roof - asphalt shingles (top layer)	White/Black Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (other)	**None Detected**
22214-0409-2326B *241501411-0074*	Roof - asphalt shingles (top layer)	White/Black Fibrous Homogeneous	35% Cellulose	65% Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
22214-0409-2327A *241501411-0075*	Roof - asphalt shingles (2nd layer)	Gray/White/Black Fibrous Homogeneous	30%	Cellulose	70%	Non-fibrous (other)		**None Detected**
22214-0409-2327B *241501411-0076*	Roof - asphalt shingles (2nd layer)	Gray/White/Black Fibrous Homogeneous	30%	Cellulose	70%	Non-fibrous (other)		**None Detected**
22214-0409-2328A *241501411-0077*	Roof (porch) - asphalt shingles (3rd layer)	Gray/Red/Black Fibrous Homogeneous	25% 5%	Cellulose Synthetic	70%	Non-fibrous (other)		**None Detected**
22214-0409-2328B *241501411-0078*	Roof (porch) - asphalt shingles (3rd layer)	Gray/Red/Black Fibrous Homogeneous	40% 12%	Cellulose Synthetic	48%	Non-fibrous (other)		**None Detected**
22214-0409-2329A *241501411-0079*	Main roof - roof tar paper	Black Fibrous Homogeneous	75%	Cellulose	25%	Non-fibrous (other)		**None Detected**
22214-0409-2329B *241501411-0080*	Main roof - roof tar paper	Black Fibrous Homogeneous	75%	Cellulose	25%	Non-fibrous (other)		**None Detected**
22214-0409-2329C *241501411-0081*	Main roof - roof tar paper	Black Fibrous Homogeneous	90%	Cellulose	10%	Non-fibrous (other)		**None Detected**
22214-0409-2330A *241501411-0082*	Porch roof to main house tar	Black Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**<1%**	**Chrysotile**

TEM recommended.

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			Non-Asbestos			Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**% Non-Fibrous**	**%**	**Type**
22214-0409-2330B *241501411-0083*	Porch roof to main house tar	Black Non-Fibrous Homogeneous			100% Non-fibrous (other)	**<1%**	**Chrysotile**
			TEM recommended.				
22214-0409-2330C *241501411-0084*	Porch roof to main house tar	Black Non-Fibrous Homogeneous			100% Non-fibrous (other)	**<1%**	**Chrysotile**
22214-0409-2331A *241501411-0085*	Rear addition rolled roofing	White/Black Fibrous Homogeneous	15%	Glass	85% Non-fibrous (other)		**None Detected**
22214-0409-2331B *241501411-0086*	Rear addition rolled roofing	White/Black Fibrous Homogeneous	15%	Glass	85% Non-fibrous (other)		**None Detected**
22214-0409-2331C *241501411-0087*	Rear addition rolled roofing	White/Black Fibrous Homogeneous	15%	Glass	85% Non-fibrous (other)		**None Detected**
22214-0409-2332A *241501411-0088*	Roof - rear addition sealant tar	Black Non-Fibrous Homogeneous			97% Non-fibrous (other)	**3%**	**Chrysotile**
22214-0409-2332B *241501411-0089*	Roof - rear addition sealant tar						**Stop Positive (Not Analyzed)**
22214-0409-2332C *241501411-0090*	Roof - rear addition sealant tar						**Stop Positive (Not Analyzed)**

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Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
22214-0409-2333A *241501411-0091*	Main house - exterior vinyl window caulking	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
22214-0409-2333B *241501411-0092*	Main house - exterior vinyl window caulking	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
22214-0409-2334A *241501411-0093*	Exterior cinder block coating (white)	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
22214-0409-2334B *241501411-0094*	Exterior cinder block coating (white)	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
22214-0409-2334C *241501411-0095*	Exterior cinder block coating (white)	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
22214-0409-2334D *241501411-0096*	Exterior cinder block coating (white)	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
22214-0409-2334E *241501411-0097*	Exterior cinder block coating (white)	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

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Asbestos Chain of Custody

EMSL Order Number (*Lab Use Only*): 24150141

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Street: 2685 State Street		**City:** Hamden	**State/Province:** CT
Zip/Postal Code: 06517	**Country:** United States	**Telephone #:** 203-288-1281	**Fax #:**
Report To (Name): Michael DiFabio		**Please Provide Results:** ☐ Fax ☑ Email	
Email Address: mdifabio@fssteam.com		**Purchase Order:**	
Project Name/Number: 22214 - 23 Caroline		**EMSL Project ID** (*Internal Use Only*):	
U.S. State Samples Taken: CT		**CT Samples:** ☐ Commercial/Taxable ☒ Residential/Tax Exempt	

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

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/R93/116 (<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)
☐ NYS 198.8 SOF-V
☐ NIOSH 9002 (<1%)

TEM – Air ☐ **4-4.5hr TAT** (AHERA only)
☐ AHERA 40 CFR, Part 763
☐ NIOSH 7402
☐ EPA Level I
☐ 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
*Can not accept New York State Loose Fill Vermiculite Samples

Other:
☐

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

Samplers Name: Michael DiFabio | **Samplers Signature:** [signature]

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
22214-0409-23 01A	Living Room Textured Ceiling		
01B	↓		
01C	↓		
02A	Living Room Ceiling Joint Compound		
02B	↓		
02C	↓		
03A	Living Room Flooring (Floral)		

Client Sample # (s): 01 - 34 | **Total # of Samples:** 97

Relinquished (Client): [signature] | **Date:** 4/10/15 | **Time:** 8:20

Received (Lab): | **Date:** | **Time:**

Comments/Special Instructions:
BillTo: Facility Support Services, LLC., 2685 State Street, Hamden, CT, 06517, United States
Attention: Michele Viarengo Phone: 203-288-1281 Email: mviarengo@fssteam.com Purchase Order:

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By [signature] 8:20 am
Walk-in

Controlled Document – Asbestos COC – R9 – 10/30/2014

Page 1 of _____ pages

OrderID: 241501411

EMSL Analytical, Inc.
29 North Plains Hwy, Unit 4

Wallingford, CT 06492
PHONE: (203) 284-5948
FAX: (203) 284-5978

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number (*Lab Use Only*): 24150141

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
22214-0409-23 03B	Living Room Flooring (Floral)		
03C	↓		
04A	Living Room Flooring (Beneath Floral)		
04B	↓		
04C	↓		
05A	Kitchen Flooring Underlayment		
05B	↓		
05C	↓		
06A	Laundry Room Setting Compound		
06B	↓		
06C	↓		
07A	Rear Addition Bathroom Setting Compound		
07B	↓		
07C	↓		
08A	Rear Addition Interior Vinyl Window Caulking		
08B	↓		
09A	Bedroom Flooring Tarpaper ~~Underlayment~~ (Top Layer)		
09B	↓		
09C	↓		
10A	Bedroom Flooring Tarpaper (Bottom Layer)		
10B	↓		
10C	↓		
11A	Blown-in ~~Cinder Block~~ Attic insulation		
11B	↓		

***Comments/Special Instructions:**
BillTo: Facility Support Services, LLC., 2685 State Street, Hamden, CT, 06517, United States
Attention: Michele Viarengo Phone: 203-288-1281 Email: mviarengo@fssteam.com Purchase Order:

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OrderID: 241501411

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*:

24150141

EMSL Analytical, Inc.
29 North Plains Hwy, Unit 4

Wallingford, CT 06492
PHONE: (203) 284-5948
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
22214-0409-23 11C	Blown-In ~~Cinder Block~~ Attic Insulation.		
12A	Bathroom Flooring		
12B	↓		
12C	↓		
13A	Bathroom Flooring Underlayment		
13B	↓		
13C	↓		
14A	Bathroom Window Caulking (Interior)		
14B	↓		
14C	↓		
15A	~~Master Bedroom~~ Hallway Textured Ceiling		
15B	↓		
15C	↓		
16A	Master Bedroom Textured Ceiling		
16B	↓		
16C	↓		
17A	Hallway Joint compound (ceiling)		
17B	↓		
17C	↓		
18A	Master Bedroom Joint Compound (ceiling)		
18B	↓		
18C	↓		
19A	Master Bedroom/Hallway Green + White Flooring		
19B	↓		

***Comments/Special Instructions:**
BillTo: Facility Support Services, LLC., 2685 State Street, Hamden, CT, 06517, United States
Attention: Michele Viarengo Phone: 203-288-1281 Email: mviarengo@fssteam.com Purchase Order:

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OrderID: 241501411

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Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*:

24150141

EMSL Analytical, Inc.
29 North Plains Hwy, Unit 4

Wallingford, CT 06492
PHONE: (203) 284-5948
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
22214-0409-23 19C	Master Bedroom / Hallway Green + white Flooring		
20A	Green + White Flooring Underlayment		
20B	↓		
20C	↓		
21A	Interior Vinyl Window Caulking (Main House)		
21B	↓		
21C	↓		
22A	Porch Tile Setting Compound		
22B	↓		
22C	↓		
23A	Living Room Ceiling Sheet Rock		
23B	↓		
24A	Master Bedroom Ceiling Sheet Rock		
24B	↓		
25A	Cement Shingle Siding		
25B	↓		
25C	↓		
26A	Asphalt Shingles (Top layer) Roof		
26B	↓		
27A	Asphalt Shingles (2nd layer) Roof		
27B	↓		
28A	Asphalt Shingles (3rd layer) Roof (porch)		
28B	↓		
29A	Roof Tar Paper (Main Roof)		

***Comments/Special Instructions:**
BillTo: Facility Support Services, LLC., 2685 State Street, Hamden, CT, 06517, United States
Attention: Michele Viarengo Phone: 203-288-1281 Email: mviarengo@fssteam.com Purchase Order:

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Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 24150141

EMSL Analytical, Inc.
29 North Plains Hwy, Unit 4

Wallingford, CT 06492
PHONE: (203) 284-5948
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
22114-0409-23 29B	Roof Tar paper (Main Roof)		
29C	↓		
30A	Porch Roof TO Main House Tar		
30B	↓		
30C	↓		
31A	[redacted] (Rear Addition Rolled Roofing)		
31B	↓		
31C	↓		
32A	Rear Addition Sealant Tar (Roof)		
32B	↓		
32C	↓		
33A	Exterior Vinyl Window Caulking (Main House)		
33B	↓		
34A	Exterior Cinder Block Coating (White)		
34B	↓		
34C	↓		
34D	↓		
34E	↓		

***Comments/Special Instructions:**
BillTo: Facility Support Services, LLC., 2685 State Street, Hamden, CT, 06517, United States
Attention: Michele Viarengo Phone: 203-288-1281 Email: mviarengo@fssteam.com Purchase Order:

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EMSL Analytical, Inc.
29 North Plains Highway, Unit # 4, Wallingford, CT 06492
Phone/Fax: 203-284-5948 / (203) 284-5978
http://www.EMSL.com wallingfordlab@emsl.com

EMSL Order:	241501745
CustomerID:	FSS93
CustomerPO:	
ProjectID:	

Attn: **Michael DiFabio**
Facility Support Services, LLC
2685 State Street

Hamden, CT 06517

Phone:	(203) 288-1281
Fax:	(203) 248-4409
Received:	04/28/15 12:15 PM
Analysis Date:	4/29/2015
Collected:	

Project: **22214-23 CAROLINE**

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
22214-0409-30A *241501745-0001*	Porch roof to main house tar	Black Non-Fibrous Homogeneous	93.7	None	6.3% Chrysotile
22214-0409-30B *241501745-0002*	Porch roof to main house tar				
Positive Stop (Not Analyzed)					
22214-0409-30C *241501745-0003*	Porch roof to main house tar				
Positive Stop (Not Analyzed)					

Analyst(s)

Christina Walker (1)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

Initial report from 05/04/2015 09:05:57

OrderID: 241501745
OrderID: 241501411

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

24150174

Asbestos Chain of Custody

EMSL Order Number (*Lab Use Only*): 24150141

EMSL Analytical, Inc.
29 North Plains Hwy, Unit 4

Wallingford, CT 06492
PHONE: (203) 284-5948
FAX: (203) 284-5978

Company Name : Facility Support Services, LLC.		**EMSL Customer ID:**	
Street: 2685 State Street		**City:** Hamden	**State/Province:** CT
Zip/Postal Code: 06517	**Country:** United States	**Telephone #:** 203-288-1281	**Fax #:**
Report To (Name): Michael DiFabio		**Please Provide Results:** ☐ Fax ☑ Email	
Email Address: mdifabio@fssteam.com		**Purchase Order:**	
Project Name/Number: 22214 - 23 Caroline		**EMSL Project ID** (*Internal Use Only*):	
U.S. State Samples Taken: CT		**CT Samples:** ☐ Commercial/Taxable ☒ Residential/Tax Exempt	

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

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/R93/116 (<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)
- ☐ NYS 198.8 SOF-V
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level I
- ☐ 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/J93/167)

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

*Can not accept New York State Loose Fill Vermiculite Samples

Other: ☐

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

Samplers Name: Michael DiFabio | **Samplers Signature:** Mi Di

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
22214-0409-23 01A	Living Room Textured Ceiling		
01B	↓		
01C	↓		
02A	Living Room Ceiling Joint Compound		
02B	↓		
02C	↓		
03A	Living Room Flooring (Floral)		

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APR 2 8 2015
By 12:15pm

Client Sample # (s): 01 - 34 | **Total # of Samples:** 9 7

Relinquished (Client): Mi Di | **Date:** 4/10/15 | **Time:** 8:20

Received (Lab): | **Date:** | **Time:**

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APR 10 2015
By 8:20 am
Walk-in

Comments/Special Instructions:
BillTo: Facility Support Services, LLC., 2685 State Street, Hamden, CT, 06517, United States
Attention: Michele Viarengo Phone: 203-288-1281 Email: mviarengo@fssteam.com Purchase Order:

24150174

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number (*Lab Use Only*): 24150141

EMSL Analytical, Inc.
29 North Plains Hwy, Unit 4

Wallingford, CT 06492
PHONE: (203) 284-5948
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
22214-0401-23 29B	Roof Tar paper (Main Roof)		
29C	↓		
30A	Porch Roof TO Main House Tar		
30B	↓		
30C	↓		
31A	[redacted] (Rear Addition Rolled Roofing)		
31B	↓		
31C	↓		
32A	Rear Addition Sealant Tar (Roof)		
32B	↓		
32C	↓		
33A	Exterior Vinyl Window Caulking (Main House)		
33B	↓		
34A	Exterior Cinder Block Coating (White)		
34B	↓		
34C	↓		
34D	↓		
34E	↓		

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By 12:15 pm

***Comments/Special Instructions:**
BillTo: Facility Support Services, LLC., 2685 State Street, Hamden, CT, 06517, United States
Attention: Michele Viarengo Phone: 203-288-1281 Email: mviarengo@fssteam.com Purchase Order:

Page _____ of _____ pages

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By 8:20 am

Gonzalez, Ivanilly

From: Michael DiFabio <mdifabio@fssteam.com>
Sent: Tuesday, April 28, 2015 12:15 PM
To: EMSL Lab - Wallingford
Subject: PLM to TEM Analysis Upgrade

Good Afternoon,

I would like to have sample 22214-0409-23 30A, B, C re-run, with positive stop, with TEM EPA NOB anaylsis for a 1 week turnaround time. The EMSL order number is 241501411 and our customer ID number is FSS93. If you need any further information please do not hesitate to contact me.

Thank you,
Mike DiFabio
Facility Support Services, LLC.
2685 State Street Hamden, CT 06517
Office: (203)-288-1281
Cell: (203)-645-8888
mdifabio@fssteam.com

ATTACHMENT C

PCB LABORATORY ANALYTICAL DATA

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Mr. Kevin Bogue
Facility Support Services
2685 State Street
Hamden, CT 06517

Analytical Report

CET# 5040281

Report Date:April 15, 2015
Project: 23 Caroline St, Milford
PO Number:

Connecticut Laboratory Certificate: PH 0116
Massachussetts laboratory Certificate: M-CT903

New York Certification: 11982
Rhode Island Certification: 199

SAMPLE SUMMARY

The sample(s) were received at 4.6°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
Bathroom Interior Window Caulking	5040281-01	Solid	4/09/2015	04/10/2015
Bathroom Flooring Underslayment	5040281-02	Solid	4/09/2015	04/10/2015
Bedroom Tar Paper Bottom Layer	5040281-03	Solid	4/09/2015	04/10/2015
Bedroom Tar Paper Top Layer	5040281-04	Solid	4/09/2015	04/10/2015
Porch Roof to House Tar	5040281-05	Solid	4/09/2015	04/10/2015
Green + White Flooring Underlayment	5040281-06	Solid	4/09/2015	04/10/2015
Main Roof Tar Paper	5040281-07	Solid	4/09/2015	04/10/2015
Rear Addition Edge Flashing Tar	5040281-08	Solid	4/09/2015	04/10/2015

Client Sample ID Bathroom Interior Window Caulking
Lab ID: 5040281-01

PCBs by Soxhlet **Analyst: SJ**

Method: EPA 8082A **Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 22:48	
PCB-1221	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 22:48	
PCB-1232	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 22:48	
PCB-1242	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 22:48	
PCB-1248	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 22:48	
PCB-1254	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 22:48	
PCB-1260	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 22:48	
PCB-1268	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 22:48	
PCB-1262	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 22:48	
Surrogate: TCMX	*84.6 %*	*50 - 150*			B5D1312	04/13/2015	*04/14/2015 22:48*	
Surrogate: DCB	*152 %*	*50 - 150*			B5D1312	04/13/2015	*04/14/2015 22:48*	**H**

CET # : 5040281
Project: 23 Caroline St, Milford

Client Sample ID Bathroom Flooring Underslayment
Lab ID: 5040281-02

PCBs by Soxhlet **Analyst: SJ**
Method: EPA 8082A **Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	20	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:06	
PCB-1221	ND	20	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:06	
PCB-1232	ND	20	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:06	
PCB-1242	ND	20	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:06	
PCB-1248	ND	20	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:06	
PCB-1254	ND	200	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:06	
PCB-1260	ND	200	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:06	
PCB-1268	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:06	
PCB-1262	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:06	
Surrogate: TCMX	*97.0 %*	*50 - 150*			B5D1312	04/13/2015	*04/14/2015 23:06*	
Surrogate: DCB	*151 %*	*50 - 150*			B5D1312	04/13/2015	*04/14/2015 23:06*	**PH**

Client Sample ID Bedroom Tar Paper Bottom Layer
Lab ID: 5040281-03

PCBs by Soxhlet **Analyst: SJ**

Method: EPA 8082A **Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:25	
PCB-1221	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:25	
PCB-1232	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:25	
PCB-1242	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:25	
PCB-1248	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:25	
PCB-1254	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:25	
PCB-1260	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:25	
PCB-1268	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:25	
PCB-1262	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:25	
Surrogate: TCMX	*90.4 %*	*50 - 150*			B5D1312	04/13/2015	*04/14/2015 23:25*	
Surrogate: DCB	*155 %*	*50 - 150*			B5D1312	04/13/2015	*04/14/2015 23:25*	**PH**

Client Sample ID Bedroom Tar Paper Top Layer
Lab ID: 5040281-04

PCBs by Soxhlet **Analyst: SJ**

Method: EPA 8082A **Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	120	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:44	
PCB-1221	ND	120	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:44	
PCB-1232	ND	120	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:44	
PCB-1242	ND	120	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:44	
PCB-1248	ND	120	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:44	
PCB-1254	ND	24	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:44	
PCB-1260	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:44	
PCB-1268	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:44	
PCB-1262	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/14/2015 23:44	
Surrogate: TCMX	*85.8 %*	*50 - 150*			B5D1312	04/13/2015	*04/14/2015 23:44*	
Surrogate: DCB	*55.8 %*	*50 - 150*			B5D1312	04/13/2015	*04/14/2015 23:44*	

Client Sample ID Porch Roof to House Tar
Lab ID: 5040281-05

PCBs by Soxhlet **Analyst: SJ**
Method: EPA 8082A **Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:02	
PCB-1221	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:02	
PCB-1232	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:02	
PCB-1242	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:02	
PCB-1248	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:02	
PCB-1254	**0.99**	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:02	
PCB-1260	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:02	
PCB-1268	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:02	
PCB-1262	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:02	
Surrogate: TCMX	*80.8 %*	*50 - 150*			B5D1312	04/13/2015	*04/15/2015 00:02*	
Surrogate: DCB	*62.0 %*	*50 - 150*			B5D1312	04/13/2015	*04/15/2015 00:02*	

Client Sample ID Green + White Flooring Underlayment
Lab ID: 5040281-06

PCBs by Soxhlet **Analyst: SJ**

Method: EPA 8082A **Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:21	
PCB-1221	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:21	
PCB-1232	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:21	
PCB-1242	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:21	
PCB-1248	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:21	
PCB-1254	ND	8.0	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:21	
PCB-1260	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:21	
PCB-1268	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:21	
PCB-1262	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:21	
Surrogate: TCMX	*91.3 %*	*50 - 150*			B5D1312	04/13/2015	*04/15/2015 00:21*	
Surrogate: DCB	*76.7 %*	*50 - 150*			B5D1312	04/13/2015	*04/15/2015 00:21*	

Client Sample ID Main Roof Tar Paper
Lab ID: 5040281-07

PCBs by Soxhlet **Analyst: SJ**

Method: EPA 8082A **Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:40	
PCB-1221	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:40	
PCB-1232	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:40	
PCB-1242	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:40	
PCB-1248	ND	24	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:40	
PCB-1254	ND	24	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:40	
PCB-1260	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:40	
PCB-1268	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:40	
PCB-1262	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:40	
Surrogate: TCMX	*83.4 %*	*50 - 150*			B5D1312	04/13/2015	*04/15/2015 00:40*	
Surrogate: DCB	*65.9 %*	*50 - 150*			B5D1312	04/13/2015	*04/15/2015 00:40*	

Client Sample ID Rear Addition Edge Flashing Tar
Lab ID: 5040281-08

PCBs by Soxhlet **Analyst: SJ**

Method: EPA 8082A **Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:58	
PCB-1221	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:58	
PCB-1232	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:58	
PCB-1242	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:58	
PCB-1248	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:58	
PCB-1254	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:58	
PCB-1260	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:58	
PCB-1268	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:58	
PCB-1262	ND	0.80	4	EPA 3540C	B5D1312	04/13/2015	04/15/2015 00:58	
Surrogate: TCMX	*54.1 %*	*50 - 150*			B5D1312	04/13/2015	*04/15/2015 00:58*	
Surrogate: DCB	*42.6 %*	*50 - 150*			B5D1312	04/13/2015	*04/15/2015 00:58*	**L**

QUALITY CONTROL SECTION

Batch B5D1312 - EPA 8082A

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B5D1312-BLK1)					Prepared: 4/13/2015 Analyzed: 4/14/2015				
PCB-1016	ND	0.20							
PCB-1221	ND	0.20							
PCB-1232	ND	0.20							
PCB-1242	ND	0.20							
PCB-1248	ND	0.20							
PCB-1254	ND	0.20							
PCB-1260	ND	0.20							
PCB-1268	ND	0.20							
PCB-1262	ND	0.20							
Surrogate: TCMX					*76.9*	*50 - 150*			
Surrogate: DCB					*131*	*50 - 150*			
LCS (B5D1312-BS1)					Prepared: 4/13/2015 Analyzed: 4/14/2015				
PCB-1016	0.773	0.20	1.000		77.3	50 - 150			
PCB-1260	0.963	0.20	1.000		96.3	50 - 150			
Surrogate: TCMX					*75.8*	*50 - 150*			
Surrogate: DCB					*128*	*50 - 150*			

Batch S5D1511 - EPA 8082A

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Calibration Check (S5D1511-CCV1)					Prepared: 4/14/2015 Analyzed: 4/14/2015				
PCB-1016	971		1,000.000		97.1	80 - 120			
PCB-1260	1140		1,000.000		114	80 - 120			
Surrogate: TCMX					*94.9*	*50 - 150*			
Surrogate: DCB					*109*	*50 - 150*			

80 Lupes Drive
Stratford, CT 06615

COMPLETE ENVIRONMENTAL TESTING, INC.

Tel: (203) 377-9984
Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-tarer organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected
RL	Reporting Limit
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte foun in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.

NELAP ACCREDITED TNI LABORATORY

Connecticut Laboratory Certification PH0116
Massachussets Laboratory Certification M-CT903
New York Certification 11982
Rhode Island Certification 199

CET # : 5040281
Project: 23 Caroline St, Milford

Questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

David Ditta
Laboratory Director

Report Comments:

Sample Result Flags:
E- The result is estimated, above the calibration range.
H- The surrogate recovery is above the control limits.
L- The surrogate recovery is below the control limits.
B- The compound was detected in the laboratory blank.
P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
D- The RPD between the sample and the sample duplicate is high. Sample Homogenity may be a problem.
+- The Surrogate was diluted out.
*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
I- The Analyte exceeds %RSD limits for the Initial Calibration. This is a non-directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at the specified detection limit
All analyses were performed in house unless a Reference Laboratory is listed.
Samples will be disposed of 30 days after the report date.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 8082A in Soil	
PCB-1016	CT,NY
PCB-1221	CT,NY
PCB-1232	CT,NY
PCB-1242	CT,NY
PCB-1248	CT,NY
PCB-1254	CT,NY
PCB-1260	CT,NY
PCB-1268	CT
PCB-1262	CT
EPA 8082A in Solid	
PCB-1016	CT,NY
PCB-1221	CT,NY
PCB-1232	CT,NY
PCB-1242	CT,NY
PCB-1248	CT,NY
PCB-1254	CT,NY
PCB-1260	CT,NY
PCB-1268	CT
PCB-1262	CT

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2016
NY	New York Certification (NELAC)	11982	04/01/2015

5040281

CET

COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:
Date and Time in Freezer
Client:
CET:

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com
Bottle Request e-mail: bottleorders@cetlabs.com

Matrix: A=Air, S=Soil, W=Water, DW=Drinking Water, C=Cassette, Solid, Wipe, Other (Specify)

Turnaround Time ** (check one): Same Day *, Next Day *, 2-3 Days *, Std (5-7 Days)

Sample ID	Sample Depths (Units)	Collection Date/Time	Matrix	Same Day *	Next Day *	2-3 Days *	Std (5-7 Days)	8260 CT List	8260 Aromatics	8260 Halogens	624	CT ETPH	8270 CT List	8270 PNAs	PCBs Soxhlet	Pesticides	13 Priority Poll	8 RCRA	TOTAL	TCLP	SPLP	Field Filtered	Lab To Filter	TOTAL # OF CONT.	NOTE #
Bathroom Interior Window Caulking		4/9/15	Solid				X								X									1	
Bathroom Flooring Underlayment							X								X									1	
Bedroom Tar Paper Bottom Layer							X								X									1	
Bedroom Tar Paper TOP Layer							X								X									1	
Porch Roof to House Tar							X								X									1	
Green + White Flooring Underlayment							X								X									1	
Main Roof Tar Paper							X								X									1	
Rear Addition Edge flashing Tar							X								X									1	
																								8	

PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other)

CONTAINER TYPE (P–Plastic, G–Glass, V–Vial, O–Other)

Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
[signature]	4-10-15 1355	[signature]
[signature]	4-10-15 1450	[signature]
[signature]	DATE/TIME	RECEIVED BY:

NOTES:

Client / Reporting Information

Company Name: Facility Support Services, LLC.
Address: 2655 State Street
City: Hamden State: CT Zip: 06517
Report To: Michael DiFabio E-mail: MDiFabio@fssteam.com
Phone #: 203-288-1281 Fax #:

Project Information

Project Contact: Kevin Bogue PO #:
Project: 23 Caroline St. Project #:
Location: Milford CT Collector(s):

QA/QC: [X] Std [ ] Site Specific (MS/MSD) * [ ] RCP Pkg * [ ] DQAW *
Data Report: [X] PDF [ ] EDD - Specify Format [X] Other MD
RSR Reporting Limits (check one): [ ] GA [ ] GB [ ] SWP [X] Other 1 ppm
Laboratory Certification Needed (check one): [ ] CT [ ] NY [ ] RI [ ] MA
Temp Upon Receipt 4.0 °C Evidence of Cooling: (Y) N
SHEET ____ OF ____

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day.

REV. 06/14

ATTACHMENT D

LEAD REPORT

LEAD BASED PAINT INSPECTION
REPORT OF FINDINGS
OF:

23 CAROLINE STREET
MILFORD, CONNECTICUT

DATE:
APRIL 9, 2015

PREPARED BY:
GILBERTCO LEAD INSPECTIONS LLC
287 MAIN STREET
ANSONIA, CONNECTICUT 06401

GILBERTCO
LEAD INSPECTIONS, LLC

"LEAD BASED PAINT SPECIALIST"

April 9, 2015

Job 040915

Michael DiFabio
Facility Support Services, LLC
2685 State Street
Hamden, Connecticut 06517

Re: Lead Free Certification- 23 Caroline Street, Milford, Connecticut

Gilbertco Lead Inspections LLC performed a limited XRF inspection for the presence of lead based paint at 23 Caroline Street, Milford, Connecticut. The inspection was requested by Facility Support Services in response to planned renovations to the site by State of Connecticut Department of Housing Community Block Grant Disaster Recovery Program.

The site inspected consisted of a single family, ranch style home built about 1954. The exterior is painted stucco with painted shingles. All windows are vinyl replacements except a laundry room windows. The rear deck was unpainted. The interior of the home had all walls and trim removed, with some ceilings remaining. It was vacant at the time of inspection. The separate, free standing shed was also tested.

In accordance with the Manufacturers Specifications, the RMD LPA-1 Analyzer was used in the "Quick" assaying mode. This enables the equipment to accurately determine whether the result is "Positive", above the 1.0 mg/cm2 action level or "Negative", below the action level regardless of precision or operator bias. In accordance with the above guidance, values of 0.9 mg/cm2 through 1.1 mg/cm2 are considered "Inconclusive", meaning the value level of lead in paint was so close to the 1.0 mg/cm2 action level that further analysis by XRF would not result in a "Positive" or "Negative" answer. Only laboratory analysis of the paint film can determine actual values in this range. Chip sampling of inconclusive was not included in the scope of this report, therefore, any results above 0.9 mg/cm2 are considered positive. Results are arranged floor plan style with the substrate and condition noted. Orientation of rooms places side 'one' as street side, with side 'two' to the left, side 'three' opposite, and wall 'four' to the right. Rooms were tested in a clockwise pattern.

287 Main Street
Ansonia, CT 06401
203-732-2615 - FAX 866-437-8191
Toll Free In CT Only 1-800-959-2985

In regards to the above mentioned property *no lead based painted surfaces were identified.*

Components of the demolished home do not need to undergo TCLP testing for disposal.

Lead in dust was not included in the scope of this report. Only laboratory analysis can insure that no lead dust hazards remain after renovations or from everyday use of the home.

Please feel free to call if any questions arise,

Maureen Monaco
Director of Operations
Consultant Contractor #270
Lead Inspector Risk Assessor #1172
Lead Abatement Supervisor #2383

CERTIFICATION
LEAD IN PAINT RESULTS

AGENCY:	GILBERTCO LEAD INSPECTIONS LLC 287 MAIN STREET ANSONIA, CONNECTICUT 06401
PROJECT ADDRESS:	23 CAROLINE STREET MILFORD, CONNECTICUT
PROJECT NUMBER:	040915
TEST DATE:	APRIL 9, 2015
REQUIREMENTS:	CHAPTER 7, HUD GUIDELINES LEAD INSPECTION- SURFACE BY SURFACE
INSTRUMENTATION:	LPA-1 SERIAL NUMBER L7-643 (PROTEC) FLUOROSCOPE SPECTRUM ANALYZER (XRF) COBALT 57 SOURCE
REPORT MEDIUM:	MG PB/CM2 (MILLIGRAMS OF LEAD PER SQUARE CENTIMETER)
CALIBRATION:	TO MEASURE LEAD K-SHELL EMISSIONS. FACTORY CALIBRATED WITH HUD APPROVED REFERENCE STANDARDS. CALIBRATION FIELD CHECKED HOURLY AS RECOMMENDED BY MANUFACTURER
OPERATORS CERTIFICATION:	LEAD CONSULTANT CONTRACTOR-CC270 LEAD INSPECTOR RISK ASSESSOR- IR 1172 LEAD ABATEMENT SUPERVISOR- 2383 LEAD PLANNER/PROJECT DESIGNER -2152 MT(ASCP)- BS- Medical Technology CLS- Clinical Laboratory Scientist

I hereby certify to the best of my knowledge and capabilities that this report reflects the true lead content of the surfaces tested in this report on this date.

Maureen Mraw 4/9/2015

23 Caroline Street, Milford, Connecticut
April 9, 2015

Reading	Rm #	Room	Side	Component	Member	Condition	Substrate	Color	mg/cm2	Decision
1		Calibration							1	okay
2	1	Encl Porch	4	Door		Defective	Metal	N/A	0	Negative
3	1	Encl Porch	4	Door	Lft jamb	Defective	Wood	N/A	-0.1	Negative
4	1	Encl Porch	4	Door	Rgt casing	Defective	Wood	N/A	0	Negative
5	1	Encl Porch	3	Wall		Defective	Cement	white	-0.2	Negative
6	1	Encl Porch	1	Wall		Defective	Cement	white	-0.4	Negative
7	1	Encl Porch	2	Wall		Defective	Cement	white	-0.1	Negative
8	1	Encl Porch	1	Window	Sill	Defective	Wood	white	0.1	Negative
9	1	Encl Porch	1	Window	Apron	Defective	Wood	white	0	Negative
10	1	Encl Porch	1	Floor		Defective	Cement		-0.1	Negative
11	1	Encl Porch	1	Ceiling		Defective	Cement	white	-0.2	Negative
12	1	Encl Porch	4	Window	Header	Defective	Wood	white	-0.2	Negative
13	1	Encl Porch	3	Door	Lft jamb	Defective	Wood	white	0.6	Negative
14	1	Encl Porch	3	Door		Defective	Wood	white	0	Negative
15	2	Living Rm	1	Door		Defective	Wood	white	-0.1	Negative
16	2	Living Rm	1	Door	Lft jamb	Defective	Wood	white	0.3	Negative
17	2	Living Rm	1	Wall		Defective	Cement	black	-0.2	Negative
18	2	Living Rm	4	Wall		Defective	Cement	black	-0.2	Negative
19	2	Living Rm	1	Window	Sill	Defective	Wood	white	-0.1	Negative
20	2	Living Rm	1	Window	Rgt casing	Defective	Wood	white	0.1	Negative
21	2	Living Rm	1	Ceiling		Defective	Dry wall	white	-0.1	Negative
22	2	Living Rm	4	Window	Sill	Defective	Wood	white	-0.1	Negative
23	2	Living Rm	4	Window	Header	Defective	Wood	white	0	Negative
24	2	Living Rm	4	Wall	2x4	Defective	Wood	white	0.1	Negative
25	3	Kitchen	4	Window	Sill	Defective	Wood	white	0	Negative
26	3	Kitchen	4	Window	Rgt jamb	Defective	Wood	white	-0.4	Negative
27	3	Kitchen	4	Wall	2x4	Defective	Wood	white	0.2	Negative
28	3	Kitchen	4	Wall		Defective	Cement	black	-0.1	Negative
29	3	Kitchen	3	Wall		Defective	Cement	black	-0.1	Negative
30	4	Hallway	1	Wall		Defective	Plaster	white	0.1	Negative
31	4	Hallway	4	Door		Defective	Wood	white	-0.1	Negative
32	5	Laundry	4	Window	Sash	Defective	Wood	white	-0.1	Negative
33	5	Laundry	4	Window	Rgt jamb	Defective	Wood	white	0	Negative
34	5	Laundry	2	Window	Rgt jamb	Defective	Wood	white	-0.1	Negative
35	6	Bathroom	3	Window	Sash	Defective	Wood	white	-0.1	Negative
36	6	Bathroom	3	Window	Rgt casing	Defective	Wood	white	-0.1	Negative
37	7	Bedroom	3	Window	Sash	Defective	vinyl	white	-0.2	Negative
38	7	Bedroom	3	Floor		Defective	Wood	white	0.2	Negative

39	7	Bedroom	1	Wall		Defective	Cement	black	-0.3	Negative
40	7	Bedroom	1	Door	threshold	Defective	Cement	black	-0.1	Negative
41	8	Bedroom	2	Wall		Defective	Cement	black	-0.1	Negative
42	8	Bedroom	3	Wall		Defective	Cement	black	-0.1	Negative
43	8	Bedroom	2	Window	Sill	Defective	Wood	white	-0.4	Negative
44	8	Bedroom	2	Window	Rgt jamb	Defective	Wood	white	-0.1	Negative
45	9	Hallway	2	Ceiling		Defective	Dry wall	white	0	Negative
46	9	Hallway	2	Ceiling	Hatch	Defective	Wood	white	-0.1	Negative
47	10	Bathroom	2	Window	Rgt casing	Defective	Wood	white	-0.2	Negative
48	10	Bathroom	2	Wall		Defective	Cement	black	0	Negative
49	11	Bedroom	2	Window	Sill	Defective	Wood	white	-0.3	Negative
50	11	Bedroom	2	Window	Apron	Defective	Wood	white	-0.2	Negative
51	11	Bedroom	2	Wall		Defective	Cement	black	-0.1	Negative
52	11	Bedroom	2	Ceiling		Defective	Dry wall	white	-0.2	Negative
53	12	Exterior	1	Wall		Defective	Cement	white	0.2	Negative
54	12	Exterior	1	Window	Rgt casing	Defective	Wood	white	-0.1	Negative
55	12	Exterior	1	Overhang		Defective	Wood	white	-0.2	Negative
56	12	Exterior	1	Overhang		Defective	Wood	white	0.3	Negative
57	12	Exterior	4	Wall		Defective	Cement		0	Negative
58	12	Exterior	4	Window	Rgt casing	Defective	Wood		0.1	Negative
59	12	Exterior	4	Door		Defective	Wood		0	Negative
60	12	Exterior	4	Door	threshold	Defective	Wood		0	Negative
61	12	Exterior	4	Ceiling		Defective			-0.5	Negative
62	12	Exterior	4	Wall		Defective	Wood		0	Negative
63	12	Exterior	3	Wall		Defective	Wood		0.1	Negative
64	12	Exterior	2	Wall		Defective	Wood		0	Negative
65	12	Exterior	2	Window	Rgt casing	Defective	Wood		0	Negative
66	12	Exterior	2	Window	Sill	Defective	Wood		-0.2	Negative
67	12	Exterior	2	Overhang		Defective	Wood		-0.1	Negative
68	12	Exterior	2	Wall		Defective	Cement		0	Negative
69	12	Exterior	2	Window	Rgt casing	Defective	Wood		0.2	Negative
70	12	Exterior	2	Window	Rgt casing	Defective	Wood		0	Negative
71	13	Shed	1	Wall		Defective	Wood		-0.3	Negative
72	13	Shed	1	Overhang		Defective	Wood		-0.2	Negative
73	13	Shed	1	Window	Sill	Defective	Wood		-0.1	Negative
74	13	Shed	1	Window	Rgt casing	Defective	Wood		-0.3	Negative
75	13	Shed	4	Wall		Defective	Wood		-0.4	Negative
76	13	Shed	4	Door		Defective	Wood		-0.2	Negative
77	13	Shed	4	Door	Lft casing	Defective	Wood		-0.2	Negative
78	13	Shed	3	Wall		Defective	Wood		-0.3	Negative
79		Calibration							1.1	okay

MCA
MARTINEZ COUCH & ASSOCIATES

1084 Cromwell Avenue Suite, A-2
Rocky Hill, CT 06067
Tel: 860-436-4364
Fax: 860-436-4626
www.martinezcouch.com

Attachment 10 – Checklist Item 13D Documentation – Asbestos Abatement Specifications

Facility Support Services, LLC

Environmental & Safety Consulting Engineers

May 11, 2015 FSS PN: 22214

Martinez Couch & Associates, LLC
Attn: Mr. Matthew Ranando
1084 Cromwell Ave. Suite A-2
Rocky Hill, CT 06067

RE: Specifications: Asbestos Abatement
Applicant #0409
23 Caroline Street
Milford, Connecticut 06460

Dear Mr. Ranando:

Enclosed please find the Specifications for Asbestos Abatement (Section 02080) and associated work to support the asbestos abatement of asbestos containing materials to facilitate demolition of a single family home located at 23 Caroline Street in Milford, Connecticut. These Specifications have been prepared to satisfy the requirements of standards for asbestos abatement in the State of Connecticut.

If you have any questions regarding these Specifications, please contact the undersigned at our Hamden, CT office at (203) 288-1281. Thank you for this opportunity to have served your environmental needs.

Sincerely,

Facility Support Services, LLC (FSS)

Christopher M. Hudacek
Project Manager
CTDPH Project Designer #000239

Enclosure

Facility Support Services, LLC

Environmental & Safety Consulting Engineers

ASBESTOS ABATEMENT SPECIFICATIONS

23 CAROLINE STREET
MILFORD, CONNECTICUT 06460

Prepared For:

Martinez Couch & Associates, LLC
1084 Cromwell Avenue
Suite A-2
Rocky Hill, Connecticut 06067

Prepared By:

Facility Support Services, LLC
2685 State Street
Hamden, Connecticut 06517

Christopher Hudacek
CTDPH Project Designer #000239

May 11, 2015

FSS Project No: 22214

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D. Owner's Operations.

E. Closeout and Punch List.

F. Cleaning.

G. Emergency Calls

1.2 CONTRACTOR QUALIFICATIONS

A. The Contractor selected must appear on the approved list of Asbestos Abatement Contractors on file at the State of Connecticut Department of Public Health (CTDPH). Only State of Connecticut licensed asbestos abatement supervisors and workers shall perform asbestos abatement work activities.

B. The Contractor shall obtain and pay for all required permits, and prepare and file any original and amended local forms immediately following award of the work.

C. The Contractor shall conduct personal exposure air monitoring for airborne fibers as prescribed by OSHA during the project performance.

D. The Owner reserves the right to award this Contract to the Contractor who best meets all contractor qualifications and Owner's interests.

1.3 CONTRACTORS USE OF SITE AND PREMISES

A. Limit use of site and premises as follows:
   1. Owner occupancy.
   2. Work by Owner.
   3. Use of site and premises by public.

B. Coordinate use of the premises, including use of utilities under direction of Owner and in accordance with local ordinances.

C. Assume full responsibility for protection and safekeeping of products under this Contract.

1.4 WORK SEQUENCE

A. Work must be performed to accommodate Owner's requirements and work by other trades. Coordinate abatement schedule and operations with the Owner and Consultant. Re-occupancy by owner and other trades shall occur following completion of work by the Contractor and successful air clearance sampling by the Consultant.

B. The Owner will not occupy the building during the Work.

1.5 CONTRACTOR'S OPERATIONS

A. Maintain means of egress.

B. Coordinate Work with the Owner.

C. Maintain the fire alarm and fire detection systems at all times during project.

D. Maintain a permanent means of egress during activities. Provide and maintain a temporary means of egress as required by the Fire Marshall.

1.6 CLOSEOUT AND PUNCH LIST

A. The Contractor shall carefully check his/her own work and that of any Subcontractor as the work is being performed. Unsatisfactory work shall be corrected immediately.

B. When the Contractor determines that he is substantially complete, that is, has less than one percent of his Contract remaining to be completed, he shall prepare for submission to the Consultant, a list of items to be completed or corrected. The failure to include any items on such list does not alter the responsibility of the Contractor to complete all work in accordance with the Contract Documents.

C. Upon receipt of the Contractor's list of items to be completed or corrected, the Consultant will promptly make a thorough inspection and prepare a "punch list" setting forth in accurate detail any items on the Contractor's list and any additional items that are not acceptable.

D. When the "punch list" has been prepared, the Consultant will arrange a meeting with the Contractor to identify and explain all punch list items and answer questions on the work that must be completed before final acceptance.

E. The Contractor shall correct all "punch list" items or shall cause the correction of the "punch list" items within a time frame to be established when the "punch list" is made. The time frame for the completion of the "punch list" shall not exceed the completion date of the Contract. Should the "punch list" not be completed within the specified time frame, the Owner may invoke the rights given under the General Conditions.

F. The Consultant shall not be expected to inspect any area more than once for the preparation of the "punch list" items. If, during an inspection, the Consultant discovers five (5) or more deficient conditions, then the area shall be declared "Not Ready" for Inspection.

G. All inspections and sampling required for asbestos abatement compliance will be performed by the Consultant.

1.7 CLEANING

A. Throughout the abatement period, the Contractor shall maintain the building and site free of rubbish, debris, surplus materials, and other items not required for the Work. Remove such materials from the site daily to prevent accumulations. Remove all construction debris from work areas, and remove all hazardous waste and asbestos waste as required by the most current federal, state, and local regulations and the requirements of the specifications.

1.8 EMERGENCY CALLS

A. The Contractor shall provide the Owner with a telephone number where the Contractor or Contractor's Representative can be reached during non-working hours.

B. At the direction of a duly authorized representative of the Owner, the Contractor may be required to dispatch all necessary personnel and equipment to any point on the work site to clear obstructions or make safe any conditions deemed necessary by the Owner or Consultant.

1.9 ADDITIONAL GENERAL REQUIREMENTS

A. The Abatement Contractor shall employ an English-speaking competent Asbestos Abatement Supervisor with at least three (3) years experience on projects of similar scope and magnitude who shall be responsible for all work involving asbestos abatement as described in the Specifications and defined in the applicable regulations, and have full-time daily supervision of the same. The Supervisor shall be the "Competent Person" as defined by OSHA regulations. The Contractor shall provide, on-site, at least one English-speaking foreman at all times when work is in progress. The supervisor and foreman must be thoroughly experienced in asbestos-containing materials removal work, knowledgeable of all applicable federal, state, and local regulations and capable of skillfully executing all work promptly, efficiently and in compliance with all requirements of these specifications. The Owner reserves the right to have any supervisory or foreman personnel removed from the project if they do not demonstrate the requisite qualifications.

B. The Contractor shall allow work performed under this contract to be inspected, if required, by local, state, federal, and any other authorities having jurisdiction over such work. The Contractor shall immediately notify the Owner and shall maintain written evidence of such inspection for review by the Owner.

C. The Contractor shall incur the cost of all fines resulting from regulatory non-compliance as issued by federal, state, and local agencies. The Contractor shall incur the cost of all work requirements mandated by federal, state, and local agencies as a result of regulatory non-compliance or negligence.

D. The Contractor shall immediately notify the Owner of the delivery of all permits, licenses, certificates of inspection, approval or occupancy, etc., and any other such instruments required under codes by authorities having jurisdiction, regardless of to who issued, and shall cause them to be displayed to the Owner and Consultant for verification and recording.

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

NOT USED

END OF SECTION

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

A. The Contractor shall present a working schedule to the Owner. Variations, amendments, and corrections to the schedule will be discussed, and the Owner will inform the Contractor of additions or changes in the scheduling requirements for the project.

B. The Contractor shall submit any revised schedule no later than three days following initial schedule submission. Upon approval from the Owner, the Contractor will receive a "Notice to Proceed" with the work of the Contract.

C. Any subsequent changes in the work schedule must be approved by the Owner.

D. Refer to all other applicable sections of the specification for coordination with other trades. The Contractor shall coordinate work with all other activities at this occupied site.

1.2 TIME FOR COMPLETION AND WORKING HOURS

A. Upon award of contract from the Owner, the Contractor shall immediately order materials, supplies, and components for the work of this project.

B. The Contractor shall begin the work immediately upon receipt of the written "Notice to Proceed" from the Owner. The date of the commencement of the work is termed the "Abatement Start Date." The Contractor will be required to complete all work of this Contract within the time period stipulated in the finalized schedule. The last day in the schedule is termed as "Contract Completion Date".

C. If conditions arise that are beyond the control of the Contractor and force delays in the performance of the Work, the Owner shall immediately be notified. The Contractor shall state the reason for the delay and shall estimate the expected duration of the delay. Any application for an extension of the Contract completion date shall be made under proper change order procedures. The acceptance of the cause for delay and change order is subject to the Owner's review and approval.

D. Work hours will be established in coordination with the Owner.

E. Any extra hours or days per week worked by the Contractor or Sub-Contractors shall be at no extra cost to the Owner. Denial of extra hours or days per week by the Owner shall not be grounds for extra time allotted to the overall Contract time.

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

NOT USED

END OF SECTION

PART 1 – GENERAL

1.1 SUMMARY

A. A unit price is an amount proposed by the Contractor and stated on the proposal as a price per unit of measurement for materials or services that will be added to or deducted from the Contract Sum by Change Order in the event the project Scope of Work is altered.

B. Unit prices include material, any direct or indirect expenses of the Contractor or Sub-Contractor, profit, insurance, bonding, and any applicable taxes. The same unit price shall apply whether the work is added or deducted.

PART 2 – PRODUCTS

NOT USED

PART 3 – EXECUTION

NOT USED

END OF SECTION

PART 1 - GENERAL

1.1 GENERAL PROVISIONS

A. General Provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 FINAL CLEANING

A. Unless otherwise specified under Sections of this Specification, the Contractor shall perform final cleaning operations specified prior to final inspection.

B. Maintain the project site free from accumulations of waste, debris and rubbish caused by operations. At the completion of the work, remove waste materials, rubbish, tools, equipment, machinery and surplus materials, and clean all sight-exposed surfaces; leave the project clean and ready for work of others under separate contract.

C. Cleaning shall include all surfaces, interior and exterior, in which the Contractor has had access.

D. Use only those materials that will not create hazards to health or property.

1.3 ABATEMENT CLOSEOUT DOCUMENTS

A. Submit to Martinez Couch & Associates, LLC, final completed copies of the Waste Shipment Records, signed by all transporters and the designated disposal site owner/operator.

B. Submit to Martinez Couch & Associates, LLC, copies of all notifications & permits and all worker certifications (certificates, training, medical, and fit-test).

C. The Contractor must be able to provide Certified Payroll documentation to Martinez Couch & Associates, LLC, or its Representative or Project Auditors upon formal request.

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

NOT USED

END OF SECTION

DIVISION II

SPECIAL CONDITIONS

FOREWORD

Supplementing Division I of the Specifications for the work to be performed under this Contract, DIVISION II, SPECIAL CONDITIONS, shall apply particularly to this Contract.

The enforcement of the requirements of any of the Special Conditions shall not be construed as waiving any of the rights of the Owner, contained in any of the other provisions of the Contract.

The Contract documents, including without limitation, these Special Conditions, shall be interpreted and construed as far as is reasonably possible to be in addition to, supplementary to and consistent with each other.

SECTION 02075 SELECTIVE DEMOLITION - ASBESTOS ABATEMENT

PART 1 - GENERAL

1.1 SUMMARY

A. Provide selective demolition as necessary and/or directed to remove existing flooring.

1.2 PROJECT CONDITIONS

A. Occupancy:

1. Areas of the building in which selective demolition will occur will be unoccupied during work.

B. Existing Conditions:

1. After the project has begun, the Contractor is responsible for the condition of the structures to be selectively demolished.

2. Unforeseen Conditions: Should unforeseen conditions be encountered that affect design or function of project, investigate and fully submit an accurate, detailed, written report to the office of the Owner. While awaiting a response, reschedule operations if necessary to avoid delay of the overall project.

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that utilities have been disconnected and sealed. (Where applicable).

B. As practicable, arrange operations to reveal unknown or concealed conditions for examination and verification before removal or demolition.

C. Verify actual conditions to determine, in advance, whether removal or demolition of any element will result in structural deficiency, overloading, failure, or unplanned collapse.

3.2 PREPARATION

A. Traffic:

1. Do not obstruct walks or public ways without the written permission of governing authorities and of the Owner. Where routes are permitted to be closed, provide alternate routes, if required.

B. Protection:

1. Provide for the protection of persons passing around or through the area of demolition.
2. Perform demolition so as to prevent damage to adjacent improvements and facilities to remain.
3. Protect walls, floors, and other new or existing work from damage during demolition operations.

3.3 POLLUTION CONTROLS

A. Control as much as practicable the spread of dust and dirt.

B. Observe environmental regulations.

C. Do not allow water usage that may result in freezing or flooding.

D. Do not allow adjacent improvements to remain to become soiled by demolition operations.

3.4 DEMOLITION - GENERAL

Not Applicable.

3.5 DISPOSAL OF NON-CONTAMINATED MATERIALS

A. Promptly dispose of materials resulting from demolition operations. Non-contaminated material shall be disposed of as general waste or recycled as applicable. Do not allow materials to accumulate on site.

B. All rubbish and waste material from the Work shall be neatly stacked or kept in suitable containers and removed from the premises daily. The premises shall be kept clean and in an orderly condition at all times to the satisfaction of the Owner.

C. Transport materials resulting from demolition operations and legally dispose of off-site.

D. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.

3.6 CLEANING

A. Throughout the construction period, the Contractor shall maintain the building and site free of rubbish, debris, surplus materials, and other items not required for the Work. Remove such material from the site daily to prevent accumulations. Remove all construction debris from work areas, and remove all hazardous waste and asbestos waste, as required, by the most current federal, state, and local regulations and the requirements of the specifications.

END OF SECTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. General Provisions of Contract, including Supplementary Conditions and other Division 1 Sections, apply to this Section.

B. Refer to other Sections of these Specifications to determine the type and extent of work therein affecting the work of this Section, whether or not such work is specifically mentioned herein.

1.2 SCOPE OF WORK

A. Work outlined in this section includes all that is necessary for the complete removal and disposal of asbestos-containing materials (ACMs) identified in the areas as detailed below for 23 Caroline Street in Milford, CT. The Contractor is responsible for verification of all quantities of ACM scheduled for removal. This verification shall include an on-site walk-through inspection of the work area. The project is detailed in the following table.

TABLE 1: LIST OF ACMs

MATERIAL	LOCATION	ESTIMATED QUANTITY
Flooring	Bathroom next to master bedroom Including entrance	30 square feet
Transite siding	Exterior Front face of porch and right side of house	50 square feet
Flashing tar	Exterior At junction of porch roof to house	6 square feet
Tar sealant	Exterior Rear roof perimeter	60 linear feet
	Exterior At rolled roofing seams	25 linear feet

1.3 DEFINITIONS

The following definitions relative to asbestos abatement apply:

1. ABATEMENT - Procedures to control fiber releases from asbestos-containing materials; includes removal, encapsulation, and enclosure.

2. AIR MONITORING - The process of measuring the airborne fiber concentration within an area or within a person's breathing zone.

3. AMENDED WATER - Water to which a surfactant has been added.

4. ASBESTOS - The name given to a number of naturally occurring fibrous silicates. This includes the serpentine forms and the amphiboles and includes chrysotile, amosite, crocidolite, tremolite, anthophyllite, and actinolite, or any of these forms, which have been chemically altered.

5. ASBESTOS PROJECT MONITOR (APM) - A professional capable of conducting air monitoring and analysis of samples for airborne fiber concentrations. This individual should be an industrial hygienist, an environmental scientist, or an engineer with experience in asbestos air monitoring and worker protection equipment and procedures. This individual should have demonstrated proficiency in conducting air sample collection in accordance with 29 CFR 1910.1001 and 29 CFR 1926.1101.

6. ASBESTOS WORK AREA - A regulated area as defined by OSHA 29 CFR 1926.1101 where asbestos abatement operations are performed which is isolated by physical barriers to prevent the spread of asbestos dust, fibers, or debris. The regulated area shall comply with requirements of regulated area for demarcation, access, respirators, prohibited activities, competent persons and exposure assessments and monitoring.

7. ASBESTOS FIBERS – Those asbestos particles with a length greater than five (5) microns and a length to diameter ratio of 3:1 or greater.

8. CLEAN ROOM - An uncontaminated area or room, which is a part of the worker decontamination enclosure with provisions for storage of workers' street clothes and protective equipment.

9. CLEARANCE SAMPLING - Final air sampling performed aggressively after the completion of the abatement project in a regulated area. Clearance sampling can be conducted by either of the following two methods:

(A) Air samples collected by the air sampling professional having a fiber concentration of less than 0.01 fibers/cc of air in each of five (5) samples collected inside the containment will denote acceptable clearance sampling by Phase Contrast Microscopy (PCM).

(B) Five air samples collected inside the containment by the air sampling professional having an average asbestos concentration of less than 70 structures per square millimeter of air will denote acceptable clearance sampling for Transmission Electron Microscopy (TEM).

10. COMPETENT PERSON - As defined by 29 CFR 1926.1101, a representative of the Abatement Contractor who is capable of identifying existing asbestos hazards in the workplace and selecting the appropriate control strategy for asbestos exposure. In addition has authority to take prompt corrective measures to eliminate such hazards during asbestos removal. Competent person shall be properly trained in accordance with Environmental Protection Agency's (EPA) Model Accreditation Plan.

11. CURTAINED DOORWAY - A device to allow ingress and egress from one area to another while permitting minimal air movement between the areas. Two curtained doorways spaced a minimum of six feet apart can form an airlock.

12. DECONTAMINATION ENCLOSURE SYSTEM - A series of connected areas, with curtained doorways between any two adjacent areas, for the decontamination of workers and equipment. A decontamination enclosure system always contains at least one airlock and is adjacent and connected to the regulated area, where possible.

13. ENCAPSULANT - A liquid material which can be applied to asbestos-containing materials which controls the possible release of asbestos fibers from the materials either by creating a membrane over the surface (bridging encapsulant) or penetrating the material and binding its components together (penetrating encapsulant).

14. EQUIPMENT ROOM – Any contaminated area or a room that is part of the worker decontamination enclosure with provisions for storage of contaminated clothing and equipment.

15. FIXED OBJECT - Unit of equipment or furniture in the work areas that cannot be removed from the work area.

16. FRIABLE ASBESTOS MATERIALS - Any material that contains more than 1% asbestos by weight, that can be crumbled, pulverized or reduced to powder by hand pressure.

17. GLOVE BAG - A manufactured polyethylene bag type of enclosure with built-in gloves such as is placed with an airtight seal around asbestos-containing material and which permits the asbestos-containing materials contained by the bag to be removed

without releasing asbestos fibers to the atmosphere. The use of glove bag is permitted for removal and repair of small amount (less than 3 linear feet/3 square feet) of ACM.

18. HEPA FILTER - High Efficiency Particulate Air (HEPA) filter in compliance with ANSI Z9.2-1979.

19. HEPA VACUUM EQUIPMENT - Vacuum equipment equipped with a HEPA filter system for filtering the effluent air from the unit.

20. MOVABLE OBJECT - Unit of equipment or furniture in the work area that can be removed from the work area.

21. NEGATIVE AIR PRESSURE EQUIPMENT - A portable local exhaust ventilation system equipped with HEPA filtration used to create negative pressure in a regulated area (negative with respect to adjacent unregulated areas) and capable of maintaining a constant, low velocity air flow into regulated areas from adjacent unregulated areas.

22. NESHAPS - National Emissions Standard for Hazardous Air Pollutants regulations enforced by the EPA.

23. PERMISSIBLE EXPOSURE LEVEL (PEL) - The average airborne concentration of asbestos fibers to which an employee is allowed to be exposed over an eight-hour period. The PEL established by OSHA 29 CFR 1926.1101 is 0.1 fibers per cubic centimeter of air averaged over an eight-hour time period. An airborne fiber concentration of 1.0 fibers /cc averaged over a sampling period of 30 minutes is the Excursion Limit. The Contractor is responsible for maintaining work areas in a manner that this standard is not exceeded.

24. REGULATED AREA - An area established by the employer to demarcate where Class I, II, and III asbestos work is conducted and any adjoining area where debris and waste from such asbestos work accumulate, and a work area within which airborne concentrations of asbestos fibers may exceed the PEL.

25. SHOWER ROOM - A room between the clean room and the equipment room in the work decontamination enclosure with hot and cold running water and suitably arranged for employee showering during decontamination. The shower room is located in an airlock between the contaminated area and the clean area.

1.4 SUBMITTALS

A. The Contractor shall submit the following to the Owner prior to the start of the project:

1. Evidence that the Contractor is certified to perform asbestos abatement work in the State of Connecticut.

2. Schedule to the Owner, which defines a timetable for executing and completing the project, including set-up, removal, cleanup, decontamination, and air clearance monitoring.

3. The identity and licensing of the hauling contractor and the landfill to be used.

4. Connecticut certificates of licensure (current) and training (both initial and current refresher), current respirator fit test records, and current medical records for each employee who may be on the project site. No individual shall provide services as an asbestos abatement site supervisor or as an asbestos abatement worker without a license to do so issued by the CTDPH.

5. Signed copy of the Certificate of Workers Acknowledgment found at the end of this section for each worker who is to be at job site.

6. Detailed product information on all materials and equipment proposed for asbestos abatement work on this project.

B. The following shall be available onsite during the work:

1. Training, State certification, respirator fit test, and medical records for employees to start work.

C. The following shall be submitted to the Owner (Martinez Couch & Associates, LLC) at the completion of work:

1. Completed Punch List.

2. Completed copies of Waste Shipment Records (WSR).

1.5 REGULATIONS AND STANDARDS

A. The Contractor shall be solely responsible for conducting this project and supervising all work in a manner which will be in conformance with all federal, state, and local regulations and guidelines pertaining to asbestos abatement. Specifically, the Contractor shall comply with the requirements of the following:

1. U.S. Environmental Protection Agency (USEPA) National Emissions Standards for Hazardous Air Pollutants (NESHAP) Regulations (40 CFR 61, Subpart M);

2. Occupational Safety and Health Administration (OSHA) Asbestos Regulations (29 CFR 1910.1001 and 1926.1101);

3. State of Connecticut Department of Public Health (CTDPH) Standards for Asbestos Abatement Sections 19a-332a-1 through 19a-332a-16 inclusive and Sections 20-440-1 through 20-440-9 inclusive;

4. State of Connecticut Department of Energy & Environmental Protection (CTDEEP) Regulations, Section 22a-209-8(i) and Section 22a-220 of the Connecticut General Statute.

5. Connecticut Basic Building Code (BOCA)

6. National Fire Protection Association (NFPA) Life Safety Code;

7. Local health and safety codes, ordinances or regulations pertaining to asbestos abatement and all national codes and standards including Association for Standards of Testing and Materials (ASTM), American National Standards Institute (ANSI), and Underwriters Laboratories (UL).

8. Occupational Safety and Health Administration (OSHA) (29 CFR 1910 Subpart D) and (29 CFR 1926 Subpart M) Fall Protection.

1.6 EXEMPTIONS

A. Any deviations from these Specifications require the written approval and authorization from the Owner and Consultant Asbestos Project Designer.

B. Any deviation in work practices identified in CTDPH Standards for Asbestos Abatement, Sections 19a-332a-1 to 19a-332a-23, Sections 20-440-1 to 20-440-9, Section 20-441, and Section 19a-332e-1 to 19a-332e-2, must be requested in writing and approved in writing by the CTDPH.

1.7 FINAL VISUAL INSPECTION AND CLEARANCE AIR SAMPLING

A. Following the completion of the final cleaning phase of the work in a contained work area, the Consultant shall conduct a final visual inspection of the area. The Contractor shall be responsible for meeting final visual criteria, which is the absence of visible debris, as specified in CTDPH regulation 19a-332a-12(b).

B. Following the completion of the final visual inspection, and upon which time the Consultant agrees that the Contractor has met the final visual criteria and the work area has been encapsulated, the Consultant will collect final clearance air samples in work area(s) as required. The Owner shall be responsible for payment of the sampling and analysis of the first round of final air clearance samples only for a particular work area. The Contractor shall be responsible for payment of all costs associated with the collection and analysis of additional final air clearance samples if the first round samples fail to meet the designated clearance criteria of 0.010 fibers/cubic centimeter (f/cc) by phase contrast microscopy (PCM) or <70 structures per square millimeter (s/mm) by transmission electron microscopy (TEM).

1.8 NOTIFICATIONS, POSTINGS, SUBMITTALS, AND PERMITS

A. The Contractor shall make the following notifications and provide submittals to the following agencies prior to the commencement of removal work. This notification is required ten (10) calendar days prior to the start of the abatement project:

1. State of Connecticut
Department of Public Health
Indoor Air Program
410 Capitol Avenue
P.O. Box 340308
Hartford, CT 06134-0308

Note: Required for abatement occurring in a School facility. Also satisfies the requirement to notify the EPA.

2. State of Connecticut
Department of Energy & Environmental Protection
Health Services and Solid Waste management Unit
79 Elm Street
Hartford, CT 06106
(Only if asbestos waste is disposed of in Connecticut)

B. The minimum information included in the notification to these agencies includes:

1. Name and address of site owner/operator.

2. Site location.

3. Amount of friable and non-friable asbestos-containing materials to be removed.

4. Work schedule, including proposed start and completion dates.

5. Asbestos removal procedures to be used.

6. Name and location of disposal site for generated asbestos waste, residue, and debris.

1.9 WORK SITE SAFETY PLAN

A. The Contractor shall establish a set of emergency procedures and shall post them in a conspicuous place at the work site. The safety plan should include provisions for the following:

1. Evacuation of injured workers.

2. Emergency and fire exit routes from all work areas.

3. Emergency first aid treatment.

4. Local telephone numbers for emergency services including ambulance, fire, and police.

5. Methods to notify appropriate personnel in the event of a fire or other emergency requiring evacuation of the site or area.

6. Site safety plan for fall protection.

B. The Contractor is responsible for training all workers in these procedures.

1.10 CONTROL OVER REMOVAL WORK

A. At the discretion of the owner, all work procedures may be continuously monitored by the Consultant's Asbestos Project Monitor (APM) to determine that areas outside the designated work area(s) have not been contaminated.

B. Prior to work on any given day, the Contractor's designated "Competent Person" shall discuss the day's work schedule with the APM to evaluate job tasks with respect to safety procedures and requirements specified to prevent contamination outside the work area. This includes a visual survey of the work area(s) and the decontamination enclosure systems. (if applicable)

C. The Contractor shall maintain control of and be responsible for access to all work areas to ensure the following requirements:

1. Non-essential personnel are prohibited from entering the area.

2. All authorized personnel entering the work area shall read the "Worker Protection Procedures" which are posted at the entry points to the enclosure system, and shall be equipped with properly fitted respirators and protective clothing.

3. All personnel who are exiting from the decontamination enclosure system shall be properly decontaminated.

4. Asbestos waste that is taken out of the work area must be properly bagged and labeled in accordance with these specifications. The surface of the bags shall be decontaminated. Asbestos waste leaving the enclosure system must be immediately transported off site or immediately placed in locked, posted temporary storage on site, and removed within 24 hours of the project conclusion. The Contractor will seek permission of the Owner to place a temporary dumpster at a suitable location (if applicable).

5. Any material, equipment, or supplies that are brought out of the decontamination enclosure system shall be cleaned and decontaminated by wet cleaning and/or HEPA vacuuming of all surfaces.

1.11 PROPER WORKER PROTECTION

A. This section describes the equipment and procedures required for protecting workers against asbestos contamination and other workplace hazards except for respiratory protection.

B. All workers are to be accredited and certified as Asbestos Abatement Workers as required by the CTDPH.

C. The Contractor is required to be certified, accredited, and licensed as required by the CTDPH.

D. In accordance with 29 CFR 1926.1101, all workers shall receive a training course covering the dangers inherent in handling asbestos, the dangers of breathing asbestos dust, proper work procedures, and proper worker protective measures. This course must include but is not limited to the following:

1. Methods of recognizing asbestos.

2. Health effects associated with asbestos.

3. Relationship between smoking and asbestos in producing lung cancer.

4. Nature of operations that could result in exposure to asbestos.

5. Importance of and instruction in the use of necessary protective controls, practices and procedures to minimize exposure including:
   a. Engineering controls
   b. Work practices
   c. Respirators
   d. Housekeeping procedures
   e. Hygiene facilities
   f. Protective clothing
   g. Decontamination procedures
   h. Emergency procedures
   i. Waste disposal procedures

6. Purpose, proper use, fitting, instructions, and limitations of respirators as required by 29 CFR 1910.134.

7. Appropriate work practices for the work.

8. Requirements of medical surveillance program.

9. Review of 29 CFR 1926.

10. Pressure differential systems.

11. Work practices including hands on or on-job training.

12. Personal Decontamination procedures.

13. Air monitoring, personal and area.

E. The Contractor shall provide medical examinations for all workers who may encounter an airborne fiber level of 0.1 f/cc or greater for an eight-hour Time Weighted Average (TWA). In the absence of specific airborne fiber data, provide

medical examinations for all workers who will enter the work area for any reason. Examination shall at a minimum meet OSHA requirements as set forth in 29 CFR 1926.1101. In addition, provide an evaluation of the individual's ability to work in environments capable of producing heat stress in the worker.

F. Submit the following to the Owner/Consultant for review. The Contractor shall not start work until the Owner/Consultant reviews the submittals and indicates that they are acceptable.

1. Certificates from an EPA-approved AHERA Abatement Workers course for each worker as evidence that each Asbestos Abatement Worker is accredited as required by the AHERA Regulation 40 CFR 763 Appendix C to Subpart E, April 30, 1987.

2. Evidence that the Contractor is certified to perform asbestos abatement work by the State of Connecticut Department of Public Health.

3. An original signed copy of the Certificate of Worker's Acknowledgment found at the end of this section, for each worker who is to be at the job site or enter the Work Area.

4. Documents verifying that each worker has had a medical examination within the last 12 months as part of compliance with OSHA medical surveillance requirements. Submit, at a minimum, for each worker the following:
   a. Name and Social Security Number.
   b. Physicians Written Opinion from examining physician including at a minimum the following:
      1) Whether worker has any detected medical conditions that would place the worker at an increased risk of material health impairment from exposure to asbestos.
      2) Any recommended limitations on the worker or on the use of personal protective equipment such as respirators.
      3) Statement that the worker has been informed by the physician of the results of the medical examination and of any medical conditions that may result from asbestos exposure.

5. Information that was provided to physician in compliance with 29 CFR 1926.1101.

6. A statement that the worker is able to wear and use the type of respiratory protection proposed for the project, and is able to work safely in an environment capable of producing heat/cold stress in the worker.

G. Certification signed by an officer of the company and notarized which states that exposure measurements, medical surveillance, and worker training records are being kept in conformance with the requirements of OSHA 29 CFR 1926.

1.12 CONTRACTOR'S AIR SAMPLING RESPONSIBILITY

A. The Contractor is responsible for monitoring airborne asbestos fiber concentrations in the workers' breathing zones and to establish conditions and work procedures for maintaining compliance with OSHA Regulations 29 CFR 1910.1001, and 1926.1101.

B. The air sampling procedures shall ensure proper documentation of all personal air-sampling results. Documentation for personal sampling must be available at the job site for review by federal and/or state regulatory agencies.

C. All air sampling shall be conducted in accordance with methods described in OSHA Standards 29 CFR 1910.1001 and 1926.1101. The flow rate for air samples will not be less than 0.5 liters/minute and must not exceed 2.5 liters/minute.

1.13 RESTRICTIONS ON CONTRACTOR'S USE OF GROUNDS

A. The Contractor shall confine his/her operations to the actual work site, access routes and storage areas designated by the Owner. The Contractor may place a dumpster at a place designated by the Owner.

B. The Contractor shall have sole responsibility for providing all materials, equipment, or tools and any storage required shall be at the Contractor's own risk. The Owner will not assume responsibility for any loss of materials, equipment, or tools stored on its property.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Deliver all materials in the original packages, containers, or bundles bearing the name of the manufacturer and the brand name and product technical description.

B. Damaged or deteriorating materials shall not be used and shall be removed from the premises. Material that becomes contaminated with asbestos shall be decontaminated or disposed of as asbestos waste.

C. Polyethylene sheet in a roll size to minimize the frequency of joints shall be delivered to the job site with factory label indicating 4 or 6 mil thickness.

D. Polyethylene disposable bags shall be six (6) mil thick with pre-printed labels.

E. Tape and adhesive spray will be capable of sealing joints in adjacent polyethylene sheets and for attachment of polyethylene sheet to finished or unfinished surfaces of dissimilar materials and capable of adhering under both dry and wet conditions, including use of amended water.

F. Surfactant (wetting agent), shall consist of fifty (50) percent polyoxyethylene ether and fifty (50) percent polyoxyethylene ester, or equivalent, and shall be mixed with water to provide a concentration of one (1) ounce surfactant to five (5) gallons of water or as directed by manufacturer.

G. Removal encapsulant shall be non-flammable factory prepared penetrating chemical encapsulant found acceptable to Consultant. Usage shall be in accordance with manufacturer's printed technical data.

H. The Contractor shall have available spray equipment capable of mixing wetting agent with water and capable of generating sufficient pressure and volume and having sufficient hose length to reach all areas where asbestos is present.

I. Impermeable containers are to be used to receive and retain any asbestos- containing or contaminated materials until disposal at an acceptable disposal site. (The containers shall be labeled in accordance with OSHA Standard 29 CFR 1926.1101) Containers must be both air and watertight.

J. Labels and signs, as required by OSHA Standard 29 CFR 1926.1101 will be used.

K. Encapsulant shall be bridging or penetrating type which has been found acceptable to the Consultant. Usage shall be in accordance with manufacturer's printed technical data.

L. A high efficiency particulate air (HEPA)-filtered local exhaust ventilation shall be utilized during the installation of enclosures and supports where asbestos-containing materials may be disturbed.

2.2 TOOLS AND EQUIPMENT

A. The Contractor shall provide all tools and equipment necessary for asbestos removal.

B. The Contractor's air monitoring professional shall have air-monitoring equipment of type and quantity to monitor operations and conduct personal exposure monitoring per OSHA requirements.

C. The Contractor shall have available sufficient inventory of dated purchase orders for materials necessary for the job including protective clothing, respirators, filter cartridges, polyethylene sheeting of proper size and thickness, tape and air filters.

D. The Contractor shall have available power cables or power sources such as generators (where required).

E. Exhaust air filtration system units shall contain HEPA filter(s) capable of sufficient air exhaust to create negative pressure of at least 0.02 inches of water column within each enclosure with respect to outside areas. Equipment shall be checked for proper operation by smoke tubes or differential pressure gauge before the start of each shift and at least twice during the shift. Adequate exhaust air shall be provided for a minimum of four (4) air changes per hour within the enclosure. No air movement system or air filtering equipment shall discharge unfiltered air outside, nor shall filtered air units be exhausted indoors from the work area.

F. Vacuum units, of suitable size and capacities for the project, shall have HEPA filter(s) capable of trapping and retaining at lead 99.97 percent of all monodispersed particles of 0.3 micrometers in diameter or larger.

G. The Contractor will have reserve units so that the exhaust air filtration system will operate continuously.

2.3 ELECTRICAL

A. If the Contractor elects to furnish and install a portable ground fault circuit interrupter (GFCI) Power Supply Board and receptacles, it shall include the following:

1. All circuits individually GFCI-protected.

2. Weatherproof enclosure NEMA 3 (rain-tight) with receptacle covers.

3. Construction durable, 16-gauge steel construction.

4. At least two 20-amp circuits (for APM).

5. Main circuit breaker.

5. Components UL listed.

6. At least two 20-amp circuits (for Decontamination Facility).

B. The Contractor shall furnish and install wiring as follows:

1. Size the wire to limit voltage drop to a maximum of 3% with length of run.

C. The Contractor will supply additional lighting for all abatement work areas if necessary to provide sufficient lighting.

D. As necessary, the Contractor will de-energize, lockout, and tag existing electrical components within the work area at their closest main source.

E. The Contractor shall provide all electrical connections and equipment necessary to supply "bead/shot" machine.

F. The Owner will furnish electrical power for the project.

PART 3 - EXECUTION

3.1 WORKER PROTECTION

A. General:

1. All asbestos abatement work shall be performed in accordance with 29 CFR 1910.1001, 29 CFR 1926.1101 and State of Connecticut regulations as specified herein. Personnel shall wear and utilize protective clothing and equipment as specified herein. Eating, smoking, drinking, chewing gum, or applying cosmetics shall not be permitted in the asbestos control area. Personnel of other trades not engaged in the abatement of asbestos shall not be allowed in the work area unless all the personnel protection provisions of this Specification are complied with by the trade personnel.

2. Engineering controls shall be used to minimize airborne fiber concentrations within the work area. A combination of personal protective equipment and work practices shall also be used to further reduce employee exposure to asbestos fibers.

3. The Contractor shall provide all authorized visitors with respirators, new filters, protective clothing, headgear, eye protection, footwear, and hard hats as in the procedures described herein and afford them the use of all facilities to keep them free of contamination from asbestos fibers.

4. The Contractor shall provide the decontamination facility for worker and equipment decontamination as well as the results of the personal air monitoring.

B. Respiratory Protection:

1. The Contractor shall select and provide at no cost to his/her employees respirators, which shall provide adequate protection to the employee as specified by Section 1910.1001(g) Table D-1 and Section 1926.1101(h) Table D-4.

2. Respiratory protection shall be worn by all persons potentially exposed to elevated airborne concentrations of asbestos fibers from the initiation of the asbestos abatement project until all areas have been given clearance. Clearance shall be conducted by the APM.

3. The Contractor shall provide Powered Air Purifying Respirators (PAPR) or Type C (continuous flow or pressure demand) supplied air respirators to all workers at the job site. If it is established, through collection and analysis of personal air samples in accordance with the OSHA Reference Method (ORM) (See U.S. Department of Labor; Occupational Safety and Health Administration; Occupational Exposure to Asbestos; Title 29 CFR 1910.1001, "General Industry Standard." Title 29 CFR 1926.1101, "Construction Standard") that this respiratory protection is more than sufficient the Contractor may provide half face-piece air purifying respirators.

   a. Once the exposure limits have been established, the respirators presented in 29 CFR 1910.1001 that afford adequate protection at such upper concentrations of airborne asbestos fibers shall be used.

   b. The minimum personal sampling period shall be seven hours at a flow rate of 0.5 to 2.5 liters per minute. The samples shall be collected within the workers' breathing zone. Personal sampling shall be the responsibility of the Contractor. Personal sampling results shall be available on site no later than 24 hours after sampling.

   c. The filters provided for both the cartridge respirators and the PAPR's shall be National Institute for Occupational Safety and Health (NIOSH) approved for asbestos fibers.

C. Protective Clothing:

1. The Contractor shall provide to all workers, foreman and superintendents, protective disposable clothing consisting of full body coveralls, head covers, and 18-inch high boot type covers or reusable footwear.

2. The Contractor shall provide eye protection and hard hats, as required, by job conditions and safety regulations.

3. Reusable footwear, hard hats and eye protection devices shall be left in the "contaminated equipment room" until the end of the asbestos abatement work.

4. Upon completion of asbestos abatement work, the footwear shall be disposed of as contaminated waste or cleaned thoroughly inside and out using soap and water before removing from work area or from equipment and access area.

5. All disposable protective clothing shall be discarded and disposed of as asbestos waste when the wearer exits from the workspace to the outside through the decontamination facilities.

6. The color of the disposable clothing worn outside the work area shall be a different color than the disposable clothing worn inside the work area.

D. Decontamination Procedures:

1. Each worker and authorized visitor without exception shall, upon entering the job site: remove street clothes in the clean change room and put on an appropriate respirator with new filters, and clean disposable protective clothing before entering the equipment room or the work area, except that workers intending to re-wear previously worn protective clothing stored in the equipment room shall enter the equipment room wearing only respirators.

2. Each time he/she leaves the work area, each worker and authorized visitor shall:

   a. Vacuum gross contamination from clothing before leaving the work area.

   b. Proceed to the equipment room and remove all clothing except respirator.

   c. Still wearing the respirator, proceed unclothed into the showers.

   d. Clean the outside of the respirator with soap and water while showering.

   e. Remove filters, wet them, and dispose of filters in the container provided for that purpose.

   f. Wash and rinse the inside of the respirator. After showering, dry off with disposable towels.

3. Following showering and drying off, each worker and authorized visitor shall proceed directly to the clean change room and dress in street clothes at the end of the day's work, or before eating, smoking, or drinking.

4. Contaminated reusable work footwear shall be stored in the equipment room when not in use in the work area. Upon completion of asbestos abatement work, footwear shall be disposed of as contaminated waste or cleaned inside and out using soap and water before removing these items from the work area

or from the equipment and access area. Contaminated protective clothing shall be stored in the equipment room for reuse or placed in receptacles for disposal with other asbestos-contaminated materials.

3.2 WORK AREA PREPARATION

A. Where necessary, within regulated areas, shut down electrical power, including receptacles and light fixtures. Under no circumstances during the abatement process will existing lighting fixtures inside the regulated area be permitted to be operating. Provide GFCI devices, temporary power, and temporary lighting installed in compliance with the applicable electrical codes and by a licensed electrician. Electrical receptacles inside work area may not be used unless they are protected by GFCI devices.

B. Shut down and/or isolate heating, cooling, and ventilation air systems or zones to prevent contamination and fiber dispersal to other areas of the structure. During the work, vents within the work area shall be sealed with duct tape and polyethylene sheeting.

C. Seal off all openings, including, but not limited to, separations to occupied areas, windows, corridors, doorways, skylights, ducts, grills, diffusers, and any other penetration of the work areas, with polyethylene sheeting a minimum of six (6) mil thick, sealed with duct tape.

D. Remove moveable objects within the proposed work area to the extent possible before the work starts.

E. Pre-clean fixed objects within the work areas, using HEPA vacuum equipment and/or wet cleaning methods as appropriate, and enclose with a minimum six (6) mil plastic sheeting sealed with duct tape.

F. Clean the proposed work areas using HEPA vacuum equipment or wet cleaning methods as appropriate. Do not use methods that raise dust, such as dry sweeping or vacuuming with equipment not equipped with HEPA filters.

G. Install adequate number of HEPA ventilation units to achieve the required number of at least 4 air changes per hour and exhaust units to the exterior of the building.

3.3 DECONTAMINATION SYSTEM

A. The Contractor shall establish a decontamination enclosure (decon) contiguous to the work area consisting of equipment room, shower room, and clean room in series. The only access between contaminated and uncontaminated areas shall be through this decontamination enclosure.

B. Access between rooms in the decontamination system shall be through double-flap curtained openings. The clean room, shower room and the equipment room within the decontamination enclosure shall be completely sealed ensuring that the sole source of airflow through this area originates from uncontaminated areas outside the work area.

C. Construct the decontamination system with PVC, metal, or other equivalent rigid framing and cover both sides with a double layer of six (6) mil polyethylene sheeting, spray glued and taped at the joints.

3.4 MAINTENANCE OF THE WORK AREA

A. Acceptance of Asbestos Control Area: The Contractor shall not begin removal unless the APM is in attendance. The control area must be constructed, the decontamination facility prepared and the supplies to be used assembled, barriers properly constructed, openings sealed, and other preparations made to allow the removal operation to proceed. If conditions are not acceptable, the Contractor shall correct deficiencies to comply with the specifications.

3.5 ASBESTOS REMOVAL PROCEDURE - GENERAL

A. The Contractor shall have a designated "Competent Person" on the job at all times to ensure establishment of a proper enclosure system and proper work practices throughout project.

B. Abatement work will not commence until authorized by on-site APM (if applicable).

C. Spray asbestos materials with amended water using airless spray equipment or apply approved removal wetting agent to reduce the release of fibers during removal operation. The Consultant shall pre-approve the use of amended water as the wetting agent.

D. In order to maintain indoor airborne asbestos fiber concentrations to the minimum, the wet asbestos must be removed in manageable sections.

E. Fill disposal containers as removal proceeds, seal filled containers and clean containers before removal to equipment decontamination system. Wet clean each container thoroughly, double bag and apply caution label. Ensure that workers do not exit the work area thorough the equipment decontamination enclosure.

F. After completion of stripping work, all surfaces from which asbestos has been removed shall be wet brushed, using a nylon brush, wet wiped, and sponged or cleaned by an equivalent method to remove all visible material. During this work, the surfaces being cleaned shall be kept wet.

G. Remove and containerize all visible accumulations of asbestos-containing and/or asbestos-contaminated debris. During cleanup, utilize brooms, rubber dustpan, and rubber squeegees. Dry sweeping is forbidden at all times.

H. Sealed disposal containers, and all equipment used in the work area, shall be included in the cleanup and shall be removed from work areas via the equipment decontamination enclosure at an appropriate time in the cleaning sequence. All asbestos waste shall be placed in 6-mil polyethylene disposal bags and shall be double bagged in the equipment decontamination enclosure before removal from the site.

I. At any time during asbestos removal, should the APM suspect contamination of areas outside the work area(s), he/she shall cause all abatement work to stop until the Contractor takes steps to decontaminate these areas and eliminate the causes of such contamination. Unprotected individuals shall be prohibited from entering suspected contaminated areas until air sampling and visual inspections certify decontamination.

J. After completion of the initial final cleaning procedure but prior to encapsulation, a pre-sealant inspection shall be conducted by the APM. The pre-sealant inspection shall verify that ACM and residual dust has been removed from the work area.

3.6 ASBESTOS REMOVAL PROCEDURE – FLOORING

A. Prior to beginning the removal of any resilient floor covering, remove all movable objects from the work area. If applicable, remove the counters and radiators to access the floor tile and mastic that go underneath those items.

B. Remove resilient floor covering using the following procedure:

1. Remove binding strips, all vinyl cove base, or other restrictive molding from doorways, walls, etc. clean and dispose of as demolition waste unless contaminated with ACMs. Dispose of any materials that have floor mastic on them as asbestos-containing waste. The contractor may have to perform selective destructive demolition, such as removing partition walls, to access the tile.
2. Wet the floor with amended water, removal encapsulant, or detergent solution, so that entire surface is wet. Do not allow puddle or run off to other areas. If a removal encapsulant is used, use in strict accordance with manufacturer's instructions. If necessary, cover with sheet polyethylene to allow humidity to release flooring materials from floor. Allow time for humidity and water or removal encapsulant to loosen flooring materials prior to removal.
3. Keep floor continuously wet throughout removal operation.
4. Remove tiles using a manual or powered spade, or stripping machine. Continuously mist floor in area where machine is working with amended

water, removal encapsulant or detergent solution. Wet any debris generated as necessary to keep continuously wet.

5. Underlayment or similar porous sub-flooring material shall be removed to extents feasible and disposed of as asbestos containing waste.

C. Debris and Waste

1. Pick up flooring, stack, place in lined boxes or place in labeled disposal bags. At the Contractor's option tiles may be placed directly into durable leak-tight containers.
2. Shovel broken flooring and debris into nylon reinforced grain bags that are placed in a disposal bag, or place directly in steel leak-tight drums.
3. Place bagged waste in a second disposal bag during decontamination and dispose of as asbestos waste.

D. After completion of all ACM removal work, the Contractor shall conduct final cleaning.

3.7 ASBESTOS REMOVAL PROCEDURE – TRANSITE SIDING

A. The Contractor shall have a designated "Competent Person" on the job at all times to ensure proper work practices throughout project.

B. GFCI devices shall be utilized for all electrical connections made as part of this project.

C. Establish regulated area to restrict access to only those authorized personnel.

D. A remote personal decontamination facility shall be erected onsite and as near as possible to the regulated area, and shall consist of 1 stage and constructed according to 1926.1101(j)(2).

E. Install one layer of 6-mil polyethylene sheeting to ground beneath panels as a drop cloth extending at least 10 feet from base of structure and secured in place.

F. Workers shall don the proper PPE prior to beginning the removal.

G. Remove siding panels using the following procedure:

1. Lightly wet each panel with amended water at location of fastener, ensuring that excess water is not used resulting in run-off.

2. Unbolt/unfasten or carefully pry panels from wall exercising caution to not break panels.

3. Carefully lower each panel and place into lined boxes or place in labeled disposal bags. At the Contractor's option tiles may be placed directly into durable leak-tight containers. Adequately wet panels with amended water, ensuring that excess water is not used resulting in run-off. Seal poly with spray glue and duct tape for disposal as asbestos waste.

4. Label all asbestos waste in accordance with OSHA 29 CFR 1926.1101(k)(8) as appropriate.

H. All waste must be properly bagged, labeled, and securely containerized by the end of each work day.

I. After completion of all asbestos containing material removal work the Contractor shall conduct final cleaning, utilizing wet methods and HEPA vacuuming. In addition, drop cloth shall be disposed of as asbestos waste.

J. After all removal and cleaning procedures have been completed, the project monitor will visually determine that no dust, debris, or residue is present in the work area.

3.8 ASBESTOS REMOVAL PROCEDURE – ROOFING TARS

A. The Contractor shall have a designated "Competent Person" on the job at all times to ensure proper work practices throughout project.

B. Contractor shall supply water, and a generator for electricity.

C. GFCI devices shall be utilized for all electrical connections made as part of this project.

D. Install one layer of 6-mil poly sheeting to the ground on each side of the building where removal is taking place as a drop cloth. Drop cloth shall extend at a minimum, at least 10 feet from the base of the building.

E. Establish regulated area to restrict access to only those authorized personnel.

F. A remote personal decontamination facility shall be erected onsite and as near as possible to the regulated area, and shall consist of 1 stage and constructed according to 1926.1101(j)(2).

G. Workers shall don the proper PPE prior to beginning the removal.

H. Remove roofing materials using the following procedure:

1. Wet the material to be removed with amended water or detergent solution, so that entire surface is adequately wet. Do not allow puddle or run-off to other areas.

2. Cut out roofing material into manageable sections. At no time shall the contractor grind, abrade, or sand the material which will create visible emissions.

3. Lower sections of roofing to the ground and place into containers or open top roll-off lined with a minimum of 2 layers of 6-mil polyethylene sheeting for disposal. Do not drop waste from roof.

4. Keep roofing material continuously wet throughout removal operation.

5. Continuously mist area where removal is being performed with amended water, removal encapsulant or detergent solution. Area where roofing has been removed must be kept continuously wet until after the completion of removal.

6. Label and properly dispose of roofing materials as asbestos waste.

I. Roofing material must be removed intact and placed into a labeled container for disposal.

J. After completion of all asbestos containing materials removal work, the Contractor shall conduct final cleaning utilizing wet methods and HEPA vacuuming.

K. After all removal and cleaning procedures have been completed, the project monitor will visually determine that no dust, debris, or residue is present in or around the work area.

3.9 CONSULTANT AND SUSPENSION OF WORK

A. Martinez Couch & Associates, LLC has designated FSS to perform the duties of the Consultant for this Contract. The Consultant will also act as the APM for the project.

B. The removal work shall be reviewed by the Consultant. The Contractor will request an inspection at least 24 hours in advance of requiring the inspection.

C. During the progress of the work, the Consultant, following approval by the Owner, shall have the right to make any changes, alterations, additions or omissions in the work or Specifications in accordance with the General Conditions.

D. The Consultant will recommend that the Owner order a suspension of work based on a determination of risk of adverse health and safety impacts on the environment, workers, or the general public, or failure to comply with the Specifications/regulations. The Contractor and the Owner will be notified in writing of the reason and of the recommended resolution.

E. At the discretion of the Owner, the Consultant will provide oversight and visual inspection services throughout the Contract's duration. It shall be the Contractor's responsibility to comply with pertinent work standards and regulations.

F. Upon completion of work in a defined work area, the Consultant will conduct a final visual inspection for the purpose of evaluating work completion. Unsatisfactory conditions shall be immediately corrected in a manner specified by the Consultant and the contract documents. Final payments shall be approved only after the Owner receives all properly completed Waste Shipment Record Forms and other required documentation and records.

3.10 CONSULTANTS' AIR SAMPLING RESPONSIBILITIES

A. Air sampling shall be conducted by the Consultant to ascertain the integrity of controls that protect the building from asbestos contamination.

B. Consultant's APM shall collect and analyze air samples during the following time periods:

1. Pre-Abatement Period: The APM may collect samples prior to abatement work to establish baseline readings. These samples will be collected in and around the proposed work areas. Pre-abatement air samples shall be collected as required to obtain a volume of 1,200 liters. Pre-abatement and during abatement Samples shall be analyzed by PCM methodology using the NIOSH 7400 protocol.

2. Abatement Period: The APM may collect samples when onsite on a daily basis during the work period. A sufficient number of area samples shall be taken outside of the work area to judge the degree of cleanliness or contamination of the building during removal. Additional samples may be taken inside the work area at the discretion of the APM.

3. Post-Abatement Period: As required by the regulation, the APM shall conduct air sampling following the final cleanup phase of the project, once the "no visible residue" criterion, as established by the project monitor, has been met. Five (5) samples shall be collected inside the work area utilizing aggressive methods to comply with the State of Connecticut Department of Public Health Standards for Asbestos Abatement, sections 19a-332a-12. Analysis of the samples to determine airborne concentrations of asbestos shall be conducted by Transmission Electron Microscopy (TEM) method with an upper limit of 70.0 structures per square millimeter (s/mm^2) as an average concentration of airborne fibers in five (5) samples; or by Phase Contrast Microscopy (PCM) to show that the concentration of fibers for each of the five (5) samples is less than or equal to a limit of quantitation for PCM

- 0.01 fibers per cubic centimeter (0.01 f/cc) of air in accordance with the above regulations.

C. At the direction of the Owner, the APM shall provide ongoing evaluation of the air quality within the building during removal, using his/her best professional judgments with respect to the State of Connecticut Department of Public Health guideline of 0.010 fibers/cc and the background air quality established during the pre-abatement period.

D. If the APM determines that the building air quality has become contaminated from the project, he/she shall immediately inform the Contractor to cease all removal operations and implement a work stoppage clean up procedure. The Contractor shall conduct a thorough cleanup of the areas of the building designated by the Consultant. No further removal work can take place until the APM has assessed that the building air has been decontaminated.

3.11 CONSULTANT'S INSPECTION RESPONSIBILITIES

A. Inspections shall be conducted by the APM as required, throughout the progress of the abatement project. Inspections shall be conducted in order to document the progress of the abatement work as well as the procedures and practices employed by the Contractor.

B. The APM shall perform the following inspections during the course of abatement activities:

1. Pre-commencement Inspection (optional). Pre-commencement inspections may be performed at the time requested by the Contractor. The APM shall be informed sufficiently in advance of the time the inspection is needed. During the course of the pre-commencement inspection, the APM shall inspect the containment and surrounding work areas. This shall include, but not be limited to, inspection of barrier integrity, worker decontamination facility, utilization of power sources, and location and capacity of negative air filtration devices. If, during the course of the pre-commencement inspection, deficiencies are found, the Contractor shall perform the necessary adjustments in order to obtain compliance.

2. Work Area Inspections. Work area inspections may be conducted on a daily basis at the discretion of the Owner/Consultant. During the course of the work inspections, the APM shall observe the Contractor's removal procedures, verify barrier integrity, monitor negative air filtration devices, assess project progress, and inform the Contractor of specific remedial activities if deficiencies are noted.

3. Pre-sealant Final Visual Inspection. A pre-sealant inspection for each work area shall be conducted by the APM upon the request of the Contractor. The pre-sealant inspection shall be conducted after completion of the initial cleaning procedures, but prior to encapsulation. The pre-sealant inspection shall verify that no visible ACM or residual debris remain in the work area. If, during the course of the pre-sealant inspection, the APM identifies visible residual ACM or debris, the Contractor shall re-clean the work area until it is deemed acceptable by the APM.

3.12 WASTE DISPOSAL

A. All waste material shall be promptly wetted and placed in 6-mil polyethylene bags, wrapped in two layers of 6-mil polyethylene plastic sheeting, or place into labeled disposal bags as it is generated. At the Contractor's option materials may be placed directly into durable leak-tight containers. A sufficient number of waste bags and/or plastic sheeting shall be located in the immediate work area (unused bags in the equipment room of the decontamination facility must be thoroughly cleaned or disposed of as contaminated waste). The Contractor shall count or measure the volume of each filled container leaving the work area, and maintain a written record of such. The Contractor shall provide Project Engineer (Martinez Couch & Associates, LLC) with all copies of waste manifest documents in a timely manner.

B. Warning labels, having waterproof print and permanent adhesive, shall be affixed to the sides of all waste bags or transfer containers. Warning labels shall be conspicuous and legible, and contain the following words in accordance with OSHA 1926.1101:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD

In addition to the above, affix 'waste generator label' to include the generator's name and address on each waste container. Waste transport vehicles will have appropriate U.S. Department of Transportation signage on them for transportation of asbestos waste materials.

C. A fine water spray shall be used to keep the unbagged or unwrapped waste damp at all times.

D. Sealed waste shall be removed from the work area and stored in an on-site, enclosed, lined, and lockable dumpster or transported to the landfill. The temporary storage dumpster area shall be prominently identified and be kept locked.

E. Once a truckload of waste containers has accumulated, the Contractor shall arrange for transportation to the landfill. No temporary co-mingling of asbestos waste from this project with that from another site will be allowed.

F. Waste Transportation and Disposal Regulations:

1. It is the responsibility of the Contractor to determine and ensure compliance with the current waste handling regulations applicable to the work site and the current regulations for waste transportation to and disposal at each ultimate landfill. The Contractor shall comply fully with these regulations and with all U.S. Department of Transportation, EPA, and State of Connecticut Department of Energy and Environmental Protection (CTDEEP) requirements.

2. If required, the Contractor (or Subcontractor), at no additional cost, shall maintain a valid hazardous waste transporter's permit and identification number, and document and fully comply with any hazardous waste manifesting requirements.

G. Waste Disposal Procedure:

1. The Contractor shall incorporate in his/her proposal the estimated quantity of asbestos waste disposal to be generated during the work; the proposed final waste site; the estimated number of separate waste shipments (loads), and the

current estimated transportation and landfill disposal fees (per cubic yard). Non-contaminated waste transport and disposal shall be solely the Contractor's responsibility. The Contractor shall review each of these items and resolve any discrepancies or deficiencies during the pre-construction site meeting.

2. The Contractor shall package, label, and remove all asbestos waste as specified in the specifications. Packaging shall be accomplished in a manner that minimizes waste volume, but so that waste containers will not tear or break.

3. The Contractor shall verify the total volume of waste material to be removed from the site (total count of waste containers and total volume estimate to the nearest 0.5 cubic yard), and insert the quantity on the Waste Shipment Record and on a hazardous waste manifest if required.

4. The Contractor shall provide legal transportation of this waste to the ultimate disposal landfill; and have the waste hauler and the landfill owner complete all other required manifests, dump slips, or other forms. The completed and fully signed (by all required parties) original of the Waste Shipment Record, and copies of the other forms, shall be returned within thirty (30) calendar days to the Owner for payment approval. No payments will be approved, or made for incomplete Waste Shipment Records.

5. All disposal of asbestos-containing and/or asbestos-contaminated material must be in compliance with requirements of and authorized by the Solid Waste Management Division, State of Connecticut Department of Energy and Environmental Protection (CTDEEP).

H. Waste Disposal Fees:

1. All Contractor contaminated waste handling costs, such as waste packaging, on-site/off-site storing/handling, transport/disposal, permitting, record keeping, and non-contaminated waste handling must be included in the Contractor's proposal as applicable to removal of asbestos materials and/or performance of the related abatement activities.

3.13 PROJECT RESTORATION

A project walk-through shall be conducted after the abatement portion of the project to identify areas or equipment damaged during the work. If the Owner determines that the damage is caused by acts or omissions of the Contractor, a punch list shall be developed. The Contractor shall be responsible for repair or replacement, or at the discretion of the Owner, payment for the work of another Contractor to complete the punch list. A second walk through shall be conducted after completion of punch list items.

END OF SECTION

CERTIFICATE OF WORKER'S ACKNOWLEDGMENT

PROJECT NAME _____ DATE _____

PROJECT ADDRESS _____

CONTRACTOR'S NAME _____

WORKING WITH ASBESTOS CAN BE DANGEROUS. INHALING ASBESTOS FIBERS HAS BEEN LINKED WITH VARIOUS TYPES OF CANCER. IF YOU SMOKE AND INHALE ASBESTOS FIBERS THE CHANCE THAT YOU WILL DEVELOP LUNG CANCER IS GREATER THAN THAT OF THE NON-SMOKING PUBLIC.

Your employer's contract with the Owner for the above project requires that: You be supplied with the proper respirator and be trained in its use; You be trained in safe work practices and in the use of the equipment found on the job; You receive a medical examination; These things are to have been done at no cost to you.

RESPIRATORY PROTECTION: You must have been trained in the proper use of respirators, and informed of the type respirator to be used on the above referenced project. You must be given a copy of the written respiratory protection manual issued by your employer. You must be equipped at no cost with the respirator to be used on the above project.

TRAINING COURSE: You must have been trained in the dangers inherent in handling asbestos and breathing asbestos dust and in proper work procedures and personal and area protective measures. The topics covered in the course must have included the following:

Physical characteristics of asbestos
Health hazards associated with asbestos
Respiratory protection
Use of personal protective equipment
Pressure Differential Systems
Work practices including hands on or on-job training
Personal decontamination procedures
Air monitoring, personal and area

MEDICAL EXAMINATION: You must have had a medical examination within the past 12 months at no cost to you. This examination must have included: health history, pulmonary function tests and may have included an evaluation of a chest x-ray.

By signing this document you are acknowledging only that the Owner of the building you are about to work in has advised you of your rights to training and protection relative to your employer, the Contractor.

Signature _____

Printed Name _____

Social Security # _____

Witness _____

MCA
MARTINEZ COUCH & ASSOCIATES

1084 Cromwell Avenue Suite, A-2
Rocky Hill, CT 06067
Tel: 860-436-4364
Fax: 860-436-4626
www.martinezcouch.com

Attachment 11 - Checklist Item 14A Documentation – Flood Management Certification

Appendix B

DECD/SHPO/DOH Professional Certification Form

For all General Permit Applications submitted as part of the Flood Management Certification for Disaster Recovery Activities, the following certification must be signed and sealed by a professional engineer licensed to practice in Connecticut.

Property: 23 Caroline Street, Milford CT

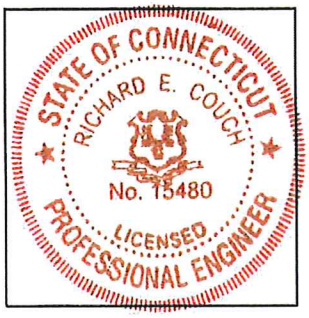
Application Number: 2503

"I certify that in my professional judgment, the above referenced project has been designed consistent with the Flood Management Certification for Disaster Recovery Activities as approved by DEEP and that the information is true, accurate and complete to the best of my knowledge and belief.

I understand that a false statement made in the submitted information may, pursuant to Section 22a-6 of the General Statutes, be punishable as a criminal offense under Section 53a-157b of the General Statutes, and may also be punishable under Section 22a-438 of the General Statutes."

Signature of Applicant	Date 6/1/2016
Hermia Delaire Name of Applicant (print or type)	CDBG-DR Program Manager Title
Signature of Professional Engineer	Date 5/31/2016
Richard E. Couch Name of Professional Engineer (print or type)	15480 P.E. Number

Affix P.E. Stamp Here



MCA
MARTINEZ COUCH & ASSOCIATES

1084 Cromwell Avenue Suite, A-2
Rocky Hill, CT 06067
Tel: 860-436-4364
Fax: 860-436-4626
www.martinezcouch.com

Attachment 12A – Checklist Item 14C Documentation – Wetlands Investigation

SOIL & ENVIRONMENTAL SERVICES, INC.
61 Plants Dam Road, East Lyme, CT 06333 860-739-6691 Fax 739-4150 soilinc@gmail.com

November 25, 2015.

Darin Lemire, PE, CPSWQ, CPESC
MARTINEZ COUCH & ASSOCIATES, LLC
1084 Cromwell Avenue, Suite A-2
Rocky Hill, CT 06067

Project: 23 Caroline Street, Milford, CT

Dear Mr. Lemire:

In mid July 2015, we conducted an on-site soils and wetlands investigation on the above referenced site.

The purpose of this investigation was to delineate wetlands and watercourse boundaries on the subject site under CT soils criteria and under CT tidal wetland regulations. Our literature review prior to the field investigation included: NRCS Web Soil Survey, Soil Taxonomy (USDA Handbook 436, 1975, Rev 1999), CTDEEP Long Island Sound Program information (Rev.), available maps from your office, and Town webpage maps. A number of soil borings were dug to a depth of 2-4 feet to conduct this study.

The flag series was as follows.

TABLE #1- FLAG NUMBERS & WETLAND DESIGNATIONS

FLAG #	WETLAND DESIGNATION
#1 - 15	CT Tidal Wetlands

2 – 23 Caroline, Milford, CT

The soils within the project area were as follows.

Upland soils:

- 306 Udorthents-Urban Land complex - moderately well drained to well drained soils that have been cut, filled, or regraded. Udorthents are disturbed soils where the upper part of the original soil has been removed or filled due to construction, grading or building activity. Urban Land is more than 85% covered by asphalt or buildings.

Tidal wetland:

- 98 Westbrook Mucky Peat - frequently flooded, very poorly drained, wetland soil. Classified as loamy Terric Sulfihemists that occur in tidal areas. The soil profile to about 45 inches is a black to dark gray mucky peat (Oe horizons). The substratum (C horizon) is a gray silt loam. The water table is usually at the surface in Westbrook soils.

Please contact us if there are any questions.

Sincerely,

Martina Castanho

Certified Professional Soil Scientist #2302 (SSSA)
Professional Soil Scientist Member (SSSSNE)

Donald J. Fortunato

Certified Professional Soil Scientist #2278 (SSSA)
Professional Soil Scientist Member (SSSSNE)

CJL Elevations in NAVD88 (includes land up to and including referenced elevations)

Long Island Sound		Connecticut River		Housatonic River	
Greenwich	5.5'	Old Lyme	2.9'	Stratford	5.0'
Stamford	5.5'	Old Saybrook	2.9'	Milford	5.1'
Darien	5.5'	Lyme	2.9'	Shelton	5.4'
Norwalk	5.4'	Essex	2.8'	Orange	5.4'
Westport	5.3'	Deep River	2.9'	Ansonia	5.4'
Fairfield	5.2'	Chester	2.9'	Derby	5.4'
Bridgeport	5.0'	East Haddam	3.0'		
Stratford*	4.8'	Haddam	3.0'		
Milford*	4.7'	East Hampton	3.0'	**Thames River**	
Orange*	4.7'	Middletown	3.1'	New London	2.1'
West Haven	4.6'	Portland	3.3'	Groton	2.1'
New Haven	4.6'	Cromwell	3.3'	Waterford	2.2'
Hamden	4.6'	Rocky Hill	3.4'	Ledyard	2.3'
North Haven	4.6'	Glastonbury	3.5'	Montville	2.3'
East Haven	4.5'	Wethersfield	3.6'	Preston	2.3'
Branford	4.3'	East Hartford	3.8'	Norwich	2.4'
Guilford	4.0'	Hartford	3.8'		
Madison	3.7'	South Windsor	3.9'		
Clinton	3.4'	Windsor	3.9'		
Westbrook	3.2'	East Windsor	15.0'		
Old Saybrook*	2.9'	Windsor Locks	15.0'		
Old Lyme*	2.6'	Suffield	40.5'		
East Lyme	2.3'	Enfield	40.5'		
Waterford*	2.1'				
Groton*	2.0'				
Stonington	**2.0'**				

*Municipalities with multiple CJL elevations

In addition, please refer to the maps of the geographical boundary between Long Island Sound and the Connecticut River, Thames River, or Housatonic River.

Martina A. Castanho – Soil Scientist, CT LEP

Certified Professional Soil Scientist #2302 (SSSA)
Professional Soil Scientist Member (SSSSNE)
CT Licensed Environmental Professional (LEP #236)

BS Natural Resources, University of Rhode Island, 1978.
Thirty-seven years experience

Experience:

Five years Soil Conservationist and Soil Scientist, USDA-NRCS (SCS).
Three years Environmental Scientist, US EPA,
SES, Inc. – President, Soil Scientist, CTLEP. Twenty-five years - soil investigations, wetland delineations, Phase I, II, II Environmental Assessments, soil and water sampling, contaminated site remediation, and permeability testing.

Donald J. Fortunato – Soil Scientist, CT LEP

Certified Professional Soil Scientist #2278 (SSSA)
Professional Soil Scientist Member (SSSSNE)
CT Licensed Environmental Professional (LEP #235)

BS Environmental Science, Stockton State College, 1975. Graduate study in soil science, Rutgers University 1977-78.
Forty years experience

Experience:

Nine years District Conservationist, Soil Conservationist, USDA-NRCS (SCS).
SES, Inc. - Twenty-seven years SES Soil Scientist, soil investigations, wetland delineations, soil and water sampling, Phase I, II, II Environmental Assessments, contaminated site remediation, and soil permeability testing.

MCA
MARTINEZ COUCH & ASSOCIATES

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www.martinezcouch.com

Attachment 12B – Checklist Item 14C Documentation – CT DEEP Certificate of Permission

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

February 11, 2016

Wendy Safyre
26B Lafayette Street
Milford, CT 06460

Subject: Certificate of Permission #201510003-SJ
23 Caroline Street, Milford

Dear Ms. Safyre:

Enclosed please find a copy of the certificate of permission ("certificate") which is being issued pursuant to your application of December 29, 2015. Your attention is directed to the conditions of the enclosed certificate. All work must conform to that which is specifically authorized by this certificate. Any work in tidal wetlands or waterward of mean high water upstream of the Great Creek tide gate which has not been authorized by a valid permit or certificate is a violation of state law and subject to enforcement action by the Department of Energy and Environmental Protection and the Office of the Attorney General.

Your initiation of authorized activities will be relied upon as your agreement to comply with the terms and conditions of the certificate. Please note that Appendix B of the certificate has been enclosed for your convenience to comply with Connecticut General Statutes Section 22a-363g. Also, the Permit Notice, found at the back of your authorization, must be posted at the work area while the work is being undertaken. Please refer to the SPECIAL TERMS AND CONDITIONS of your certificate for further details.

If you have not already done so, you should contact your local Planning and Zoning Office to determine local permit requirements for your project. Also, your activity may be eligible for General Permit authorization from the U.S. Army Corps of Engineers ("Corps"). Most maintenance and reconstruction activities require no further authorization from the Corps. Other activities, generally involving work in tidal wetlands or other special aquatic sites, and in or near a federal Navigation Project or involving filling, must receive written authorization from the Corps prior to beginning work. The State of Connecticut will automatically forward this certificate to the Corps for its determination of General Permit eligibility. You do not need to apply directly to the Corps unless they notify you. For more information regarding this federal process, you may write to the Corps New England Division, Regulatory Branch, 696 Virginia Road,

Concord, Massachusetts, 02254 or call 978-318-8335 or 800-343-4789.

Sincerely,

Susan Jacobson, Environmental Analyst
Office of Long Island Sound Programs
Bureau of Water Protection and Land Reuse

Enclosure – COP #201510003-SJ

cc: File #201510003-SJ

via e-mail: MaryRose Palumbo, City of Milford
Municipal CEO
Corps
Harbor Master

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

CERTIFICATE OF PERMISSION

Certificate No: 201510003-SJ

Municipality: Milford

Site of Activity: Great Creek off property located at 23 Caroline Street

Certificate Holder: Wendy Safyre
26B Lafayette Street
Milford, CT 06460

Pursuant to section 22a-363b of the Connecticut General Statutes ("CGS") and in accordance with CGS sections 22a-359 to 22a-363g, 22a-98, and the Connecticut Water Quality Standards effective February 25, 2011, a certificate of permission ("certificate") is hereby granted to rebuild and elevate a home for flood hazard mitigation as is more specifically described below in the SCOPE OF AUTHORIZATION. The work performed shall conform to the terms and conditions of this certificate.

*****NOTICE TO CERTIFICATE HOLDERS AND CONTRACTORS*****

UPON INITIATION OF ANY WORK AUTHORIZED HEREIN, THE CERTIFICATE HOLDER ACCEPTS AND AGREES TO COMPLY WITH ALL TERMS AND CONDITIONS OF THIS CERTIFICATE. FAILURE TO CONFORM TO THE TERMS AND CONDITIONS OF THIS CERTIFICATE MAY SUBJECT THE CERTIFICATE HOLDER AND ANY CONTRACTOR TO ENFORCEMENT ACTIONS, INCLUDING INJUNCTIONS AS PROVIDED BY LAW AND PENALTIES UP TO $1,000.00 PER DAY PURSUANT TO THE ADMINISTRATIVE CIVIL PENALTY POLICY DESCRIBED IN SECTIONS 22a-6b-1 THROUGH 22a-6b-15 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES.

SCOPE OF AUTHORIZATION

The Certificate Holder is hereby authorized to conduct the following work as described in application number 201510003-SJ, including two sheets of plans with a location map dated November 23, 2015 and an undated site plan, submitted by the Certificate Holder to the Commissioner of Energy and Environmental Protection ("Commissioner") and attached hereto:

1. rebuild and elevate a home to comply with FEMA standards;

2. relocate a deck; and

3. add a stairway.

SPECIAL TERMS AND CONDITIONS

1. The Certificate Holder shall file Appendix B on the land records of the municipality in which the subject property is located not later than thirty (30) days after certificate issuance pursuant to CGS Section 22a-363g. A copy of Appendix B with a stamp or other such proof of filing with the municipality shall be submitted to the Commissioner no later than sixty (60) days after certificate issuance.

2. There shall be no square footage increase in the living area below the mean high water elevation.

3. Any dewatering shall include on-site treatment prior to discharge.

4. The Certificate Holder shall give a copy of this certificate to the contractor(s) who will be carrying out the activities authorized herein prior to the start of construction and shall receive a written receipt for such copy, signed and dated by such contractor(s). The Certificate Holder's contractor(s) shall conduct all operations at the site in full compliance with this certificate and, to the extent provided by law, may be held liable for any violation of the terms and conditions of this certificate. At the work area the contractor(s) shall, whenever work is being performed, make available for inspection a copy of this certificate and the final plans for the work authorized herein.

5. The Certificate Holder shall post the attached Permit Notice in a conspicuous place at the work area while the work authorized herein is undertaken.

6. Except as specifically authorized by this certificate, no equipment or material including, but not limited to, fill, construction materials, excavated material or debris, shall be deposited, placed or stored in any wetland or watercourse on or off-site, nor shall any wetland or watercourse be used as a staging area or accessway other than as provided herein.

7. All waste material generated by the performance of the work authorized herein shall be disposed of by the Certificate Holder at an upland site approved for the disposal of such waste material, as applicable.

GENERAL TERMS AND CONDITIONS

1. All work authorized by this certificate shall be completed within three (3) years from date of issuance of this certificate ("work completion date") in accordance with all conditions of this permit and any other applicable law.

   a. The Certificate Holder may request a one-year extension of the work completion date. Such request shall be in writing and shall be submitted to the Commissioner at least thirty (30) days prior to said work completion date. Such request shall describe the work done to date, what work still needs to be completed, and the reason for such extension. It shall be the Commissioner's sole discretion to grant or deny such request.

b. Any work authorized herein conducted after said work completion date or any authorized one- year extension thereof is a violation of this certificate and may subject the Certificate Holder to enforcement action, including penalties, as provided by law.

2. In conducting the work authorized herein, the Certificate Holder shall not deviate from the attached plans, as may be modified by this certificate. The Certificate Holder shall not make de minimis changes from said plans without prior written approval of the Commissioner.

3. The Certificate Holder may not conduct work waterward of mean high water or in tidal wetlands at this certificate site other than the work authorized herein, unless otherwise authorized by the Commissioner pursuant to CGS section 22a-359 et. seq. and/or CGS section 22a-28 et. seq.

4. The Certificate Holder shall maintain all structures or other work authorized herein in good condition. Any such maintenance shall be conducted in accordance with applicable law including, but not limited to, CGS sections 22a-28 through 22a-35 and CGS sections 22a-359 through 22a-363g.

5. In undertaking the work authorized hereunder, the Certificate Holder shall not cause or allow pollution of wetlands or watercourses, including pollution resulting from sedimentation and erosion. For purposes of this certificate, "pollution" means "pollution" as that term is defined by CGS section 22a-423.

6. Upon completion of any work authorized herein, the Certificate Holder shall restore all areas impacted by construction, or used as a staging area or accessway in connection with such work, to their condition prior to the commencement of such work.

7. The Certificate Holder shall allow any representative of the Commissioner to inspect the work authorized hereunder at reasonable times to ensure that it is being or has been accomplished in accordance with the terms and conditions of this certificate.

8. This certificate is not transferable without prior written authorization of the Commissioner. A request to transfer a certificate shall be submitted in writing and shall describe the proposed transfer and the reason for such transfer. The Certificate Holder's obligations under this certificate shall not be affected by the passage of title to the certificate site to any other person or municipality until such time as a transfer is authorized by the Commissioner.

9. Any document required to be submitted to the Commissioner under this certificate or any contact required to be made with the Commissioner shall, unless otherwise specified in writing by the Commissioner, be directed to:

   Permit Section
   Office of Long Island Sound Programs
   Department of Energy and Environmental Protection
   79 Elm Street
   Hartford, Connecticut 06106-5127
   (860) 424-3034
   Fax # (860) 424-4054

10. The date of submission to the Commissioner of any document required by this certificate shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under this certificate, including but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is personally delivered or the date three (3) days after it is mailed by the Commissioner, whichever is earlier. Except as otherwise specified in this certificate, the word "day" as used in this certificate means calendar day. Any document or action which is required by this certificate to be submitted or performed by a date which falls on a Saturday, Sunday or a Connecticut or federal holiday shall be submitted or performed on or before the next day which is not a Saturday, Sunday, or a Connecticut or federal holiday.

11. Any document, including but not limited to any notice, which is required to be submitted to the Commissioner under this certificate shall be signed by Certificate Holder and by the individual or individuals responsible for actually preparing such document, each of whom shall certify in writing as follows: "I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statement made in this document or its attachments may be punishable as a criminal offense."

12. In evaluating the application for this certificate the Commissioner has relied on information and data provided by the Certificate Holder and on the Certificate Holder's representations concerning site conditions, design specifications and the proposed work authorized herein, including but not limited to representations concerning the commercial, public or private nature of the work or structures authorized herein, the water-dependency of said work or structures, its availability for access by the general public, and the ownership of regulated structures or filled areas. If such information proves to be false, deceptive, incomplete or inaccurate, this certificate may be modified, suspended or revoked, and any unauthorized activities may be subject to enforcement action.

13. In granting this certificate, the Commissioner has relied on all representations of the Certificate Holder, including information and data provided in support of the Certificate Holder's application. Neither the Certificate Holder's representations nor the issuance of this certificate shall constitute an assurance by the Commissioner as to the structural integrity, the engineering feasibility or the efficacy of such design.

14. In the event that the Certificate Holder becomes aware that he did not or may not comply, or did not or may not comply on time, with any provision of this certificate or of any document required hereunder, the Certificate Holder shall immediately notify the Commissioner and shall take all reasonable steps to ensure that any noncompliance or delay is avoided or, if unavoidable, is minimized to the greatest extent possible. In so notifying the Commissioner, the Certificate Holder shall state in writing the reasons for the noncompliance or delay and propose, for the review and written approval of the Commissioner, dates by which compliance will be achieved, and the Certificate Holder shall comply with any dates which may be approved in writing by the Commissioner. Notification by the Certificate Holder shall not excuse noncompliance or delay and the Commissioner's approval of any compliance dates

proposed shall not excuse noncompliance or delay unless specifically stated by the Commissioner in writing.

15. This certificate may be revoked, suspended, or modified in accordance with applicable law.

16. The issuance of this certificate does not relieve the Certificate Holder of his obligations to obtain any other approvals required by applicable federal, state and local law.

17. This certificate is subject to and does not derogate any present or future property rights or powers of the State of Connecticut, and conveys no property rights in real estate or material nor any exclusive privileges, and is further subject to any and all public and private rights and to any federal, state or local laws or regulations pertinent to the property or activity affected hereby.

Issued on February 11, 2016.

STATE OF CONNECTICUT
DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION

Brian P. Thompson, Director
Office of Long Island Sound Programs
Bureau of Water Protection and Land Reuse

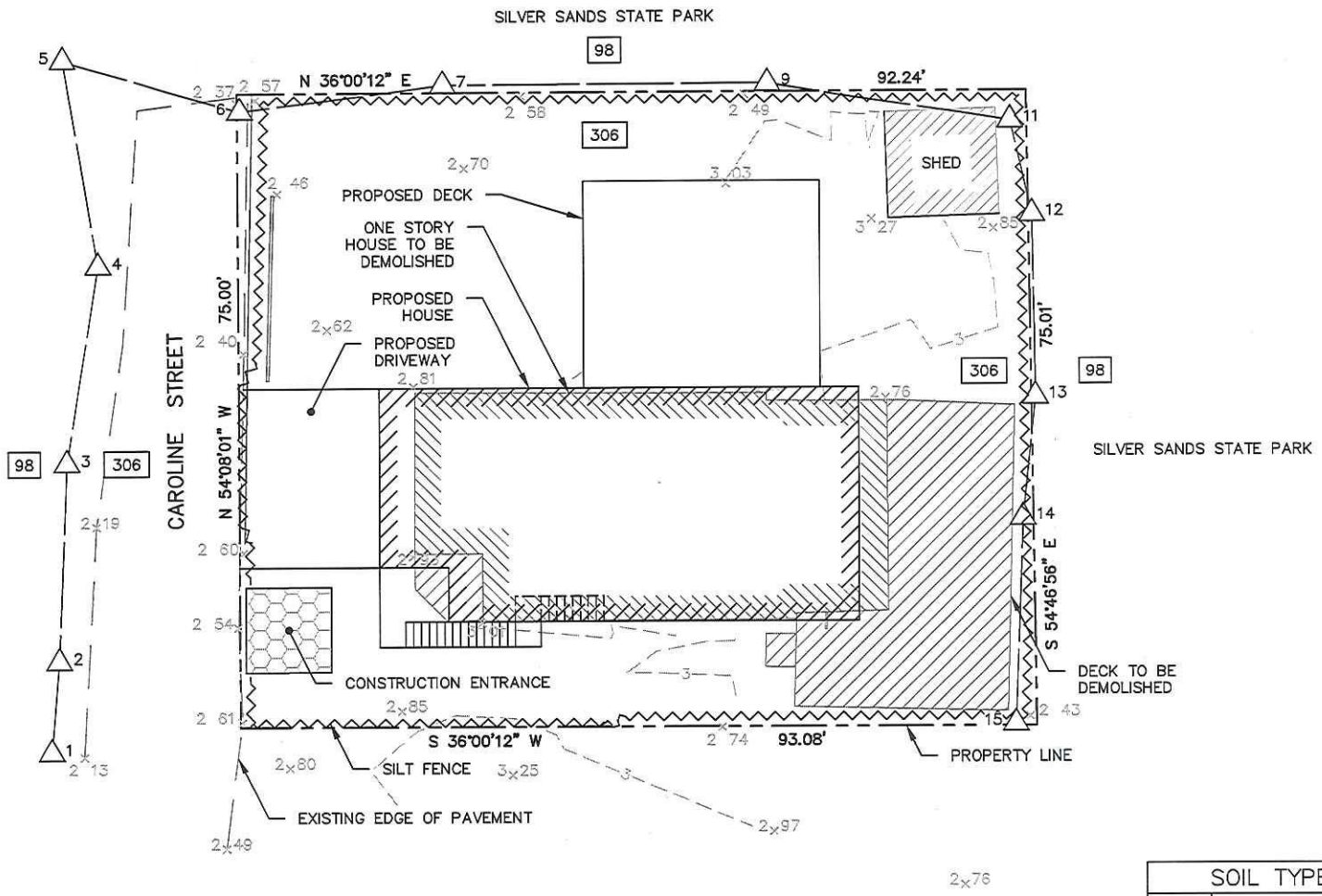
Certificate of Permission No. 201510003-SJ
Wendy Safyre

Attachment - B

MCA
Martinez Couch & Associates, LLC

Date: 11/23/2015

Attachment C-1A



SOIL TYPE LEGEND	
98	WESTBROOK MUCKY PEAT, FREQUENTLY FLOODED, VERY POORLY DRAINED, WETLAND SOIL
306	UDORTHENTS–URBAN LAND COMPLEX, UPLAND SOIL

REFERENCE MAP:
1. "TOPOGRAPHIC & BOUNDARY SURVEY" FOR CTDOH AT 23 CAROLINE STREET, MILFORD, CONNECTICUT; DATE: 06–25–2015; SCALE: 1"=10'; PREPARED BY MARTINEZ COUCH & ASSOCIATES, LLC

MCA
MARTINEZ COUCH & ASSOCIATES, LLC

PROJECT 2503
23 CAROLINE STREET
MILFORD, CONNECTICUT 06460

N

10' 0 20'
1" = 20'

SITE PLAN

OFFICE OF LONG ISLAND SOUND PROGRAMS

~~**APPENDIX A**~~
NOT APPLICABLE

TO: **Permit Section**
Department of Energy and Environmental Protection
Office of Long Island Sound Programs
79 Elm Street
Hartford, CT 06106-5127

Certificate Holder: APPENDIX A – NOT APPLICABLE

Certificate No:

CONTRACTOR 1: _____

Address: _____

_____

Telephone #: _____

CONTRACTOR 2: _____

Address: _____

_____

Telephone #: _____

CONTRACTOR 3: _____

Address: _____

_____

Telephone #: _____

EXPECTED DATE OF COMMENCEMENT OF WORK: _____

EXPECTED DATE OF COMPLETION OF WORK: _____

PERMITTEE: _____
(signature) (date)

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

OFFICE OF LONG ISLAND SOUND PROGRAMS

APPENDIX B

NOTICE OF CERTIFICATE ISSUANCE
DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION

To: Milford City Clerk

Signature and Date: [signature] 2/11/16

Subject: 23 Caroline Street
Certificate of Permission #201510003-SJ

Pursuant to Section 22a-363g and Section 22a-363b of the Connecticut General Statutes, the Commissioner of Energy and Environmental Protection gives notice that a certificate has been issued to **Wendy Safyre**, 26B Lafayette Street, Milford, CT, 06460 to:

rebuild and elevate a home to comply with FEMA standards.

If you have any questions pertaining to this matter, please contact the Office of Long Island Sound Programs at 860-424-3034.

PERMIT NOTICE

This Certifies that Authorization to perform work below Mean High Water and/or within Tidal Wetlands of coastal, tidal, or navigable waters of Connecticut

has been issued to: Wendy Safyre

at this location: 23 Caroline Street, Milford

to conduct the following:

rebuild and elevate a home to comply with FEMA standards.

Permit #: 201510003-SJ
Issued on: 2/11/16

This Authorization expires on: 2/11/2019

This Notice must be posted in a conspicuous place on the job during the entire project.

Department of Energy and Environmental Protection
Office of Long Island Sound Programs
79 Elm Street • Hartford, CT 06106-5127
Phone: (860) 424-3034 Fax: (860) 424-4054
www.ct.gov/deep

MCA
MARTINEZ COUCH & ASSOCIATES

1084 Cromwell Avenue Suite, A-2
Rocky Hill, CT 06067
Tel: 860-436-4364
Fax: 860-436-4626
www.martinezcouch.com

Attachment 13 – Checklist Item 14D Documentation – City of Milford Inland Wetlands Office Review Letter

City of Milford, Connecticut

- Founded 1639 -

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

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

March 22, 2016

Mr. Matthew Ranando
Martinez Couch & Associates, LLC
1084 Cromwell Avenue, Suite A-2
Rocky Hill, CT 06067

Re: IW-JR-16-004: 23 Caroline St; Map 27 Block 448 Parcel 12A; Wendy Safyre; Proposal to raze existing structure and replace with elevated modular home with addition of decks and stairs for access with work proposed within 100' of a wetland or watercourse in the South Central Shoreline Watershed.

Dear Mr. Ranando:

The Milford Inland Wetlands and Watercourses Agency has received your plans entitled "*Project 2503 23 Caroline Street, Milford, Connecticut"* by Martinez Couch & Associates, LLC, 3 sheets dated 2/22/167/29/14 and Connecticut Department of Energy and the Environment Office of Long Island Sound Certificate of Permission #201510003-SJ dated 2/11/16. A review of this information and the MIWA maps reveals no work is proposed within 100' of an *inland wetland* in the South Central Shoreline Watershed. This proposed work does not appear to have the potential to adversely impact *inland wetlands*. Therefore, under section 2 of the MIWA Regulations a permit is not required from the MIWA at this time.

Please be advised that this letter applies only to the specific plans noted above. **Any** revision of these plans will require further review by this Agency. You are responsible for contacting other permitting authorities to determine if additional Local, State and Federal permits are required for this project. Best Management practices and proper sedimentation and soil erosion controls as found in the "*2002 Connecticut Guidelines for Sedimentation and Erosion Controls*" should be implemented on site to prevent degradation of offsite wetlands.

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

Sincerely,

MaryRose Palumbo
Inland Wetlands Compliance Officer

c: DPLU
Planning & Zoning
City Engineer