

ENVIRONMENTAL REVIEW REPORT

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

Applicant # 1846

**3 Marsh Road
Westport, Connecticut**

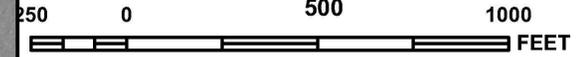
April 22, 2015

Prepared by:

**Diversified Technology Consultants
2321 Whitney Avenue
Hamden, Connecticut 06518**



MAP SCALE 1" = 500'



LEGEND

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

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

 FLOODWAY AREAS IN ZONE AE

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

 OTHER FLOOD AREAS

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

 OTHER AREAS

ZONE X Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D Areas in which flood hazards are undetermined, but possible.

 COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

 OTHERWISE PROTECTED AREAS (OPAs)

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

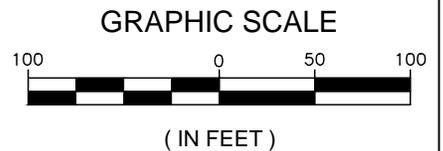
 1% Annual Chance Floodplain Boundary
 0.2% Annual Chance Floodplain Boundary

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

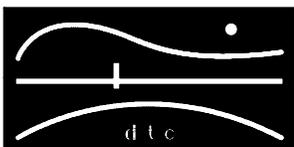


Wetlands

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



MAP SOURCE: U.S. FISH AND WILDLIFE SERVICE



DIVERSIFIED TECHNOLOGY CONSULTANTS
2321 Whitney Avenue - Hamden Center II - Hamden CT 06518
Ph: 203 239 4200 Fax: 203 234 7376

DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY

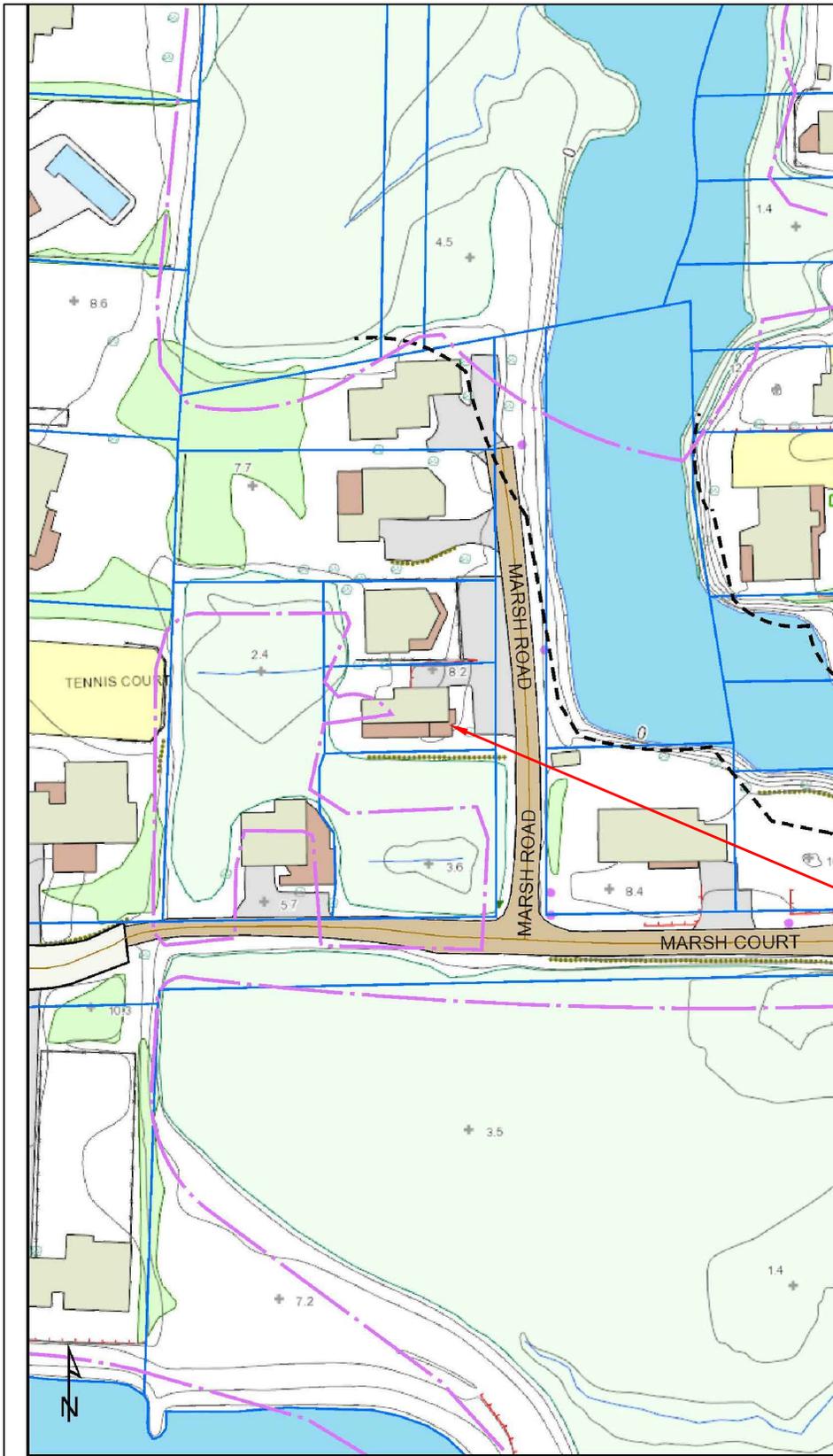
3 MARSH ROAD
WESTPORT, CT

ATTACHMENT 2
FWS WETLAND MAP

PROJECT NUMBER: 13-449-026 APPLICANT NO: 1846

SCALE: 1"=100' DRAWN BY: EPZ

DATE: 04/22/2015 CHECKED BY: JAB

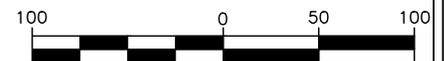


Westport CT Web GIS Map Legend

— CHM_line	— Culvert	— Golf Path
— Detention_Wetland	— Dam	— Paved Parking
— Assisted_Wetland	— Ditch	— Unpaved Parking
— det_line	— Rip Rap	— Paved Driveway
— Tidal_Wetland	— Elevation Wall	— Unpaved Driveway
— Waterbody_Watercourse	— Fence	— Public Sidewalk
— well_line	— Guardrail	— Tree Line
— Wetland	— Hedge	— Wet Area
— 100 Year Flood Zone	— Retaining Wall	— Sound: Lake, Pond, or River
— 500 Year Flood Zone	— Stone Wall	— Pool
— Floodway in Zone AE	— Trails	— Golf Green
— Basins	— Abandoned Railroad Tracks	— Golf Bunker
— Spot Elevation	— Railroad Tracks	— Tennis Court
— Water Spot Elevation	— Paved Road Centerline	— Golf Tee
— building_polylines	— Unpaved Road Centerline	— Wharf, Dock, or Pier
— landhook_polylines	— Stream	— Athletic Field
— original_parcels_polylines	— Coast Line	— Golf Course
— Index	— Easement	— Index Polygon
— Index Depression	— Utility Right of Way	— HYDRIC SOILS
— Index Obscured	— Private Right of Way	— NON-HYDRIC SOILS
— Index Depression Obscured	— Proposed Right of Way	— WATER
— Intermediate	— Public Right of Way	— Parcel
— Intermediate Depression	— Fuel Tank	— A
— Intermediate Obscured	— Water Tank	— AA
— Intermediate Depression (ICOb)	— Quarry or Pit	— AAA
— Pipe	— Building	— B
— Pipe	— Building Construction	— BCD
— Outfall	— Cement Pad	— BPD
— Catchbasin	— Deck	— OPD
— Manhole	— Foundation	— DDD4
— Electrical Box	— Greenhouse	— OBD
— Hydrant	— Mobile Home	— OBD/S
— Light Pole	— Ruins	— HDD
— Utility Pole	— Site	— HSD
— Sign	— Stackstack	— MHP
— Unknown	— Substation	— OSRD
— Billboard	— Bridge	— PRD
— Pipeline Above Ground	— Paved Road	— RSD
— Tower	— Runway	— RCRD
— Lowline Polyline	— Unpaved Road	— RPOD
— Unknown Lines		

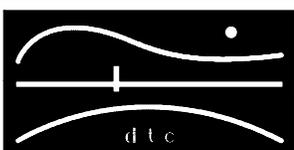
PROPERTY LOCATION

GRAPHIC SCALE



(IN FEET)

MAP SOURCE: TOWN OF WESTPORT GIS



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DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY

3 MARSH ROAD
WESTPORT, CT

ATTACHMENT 3
TOWN GIS WETLAND MAP

SCALE: 1"=100'

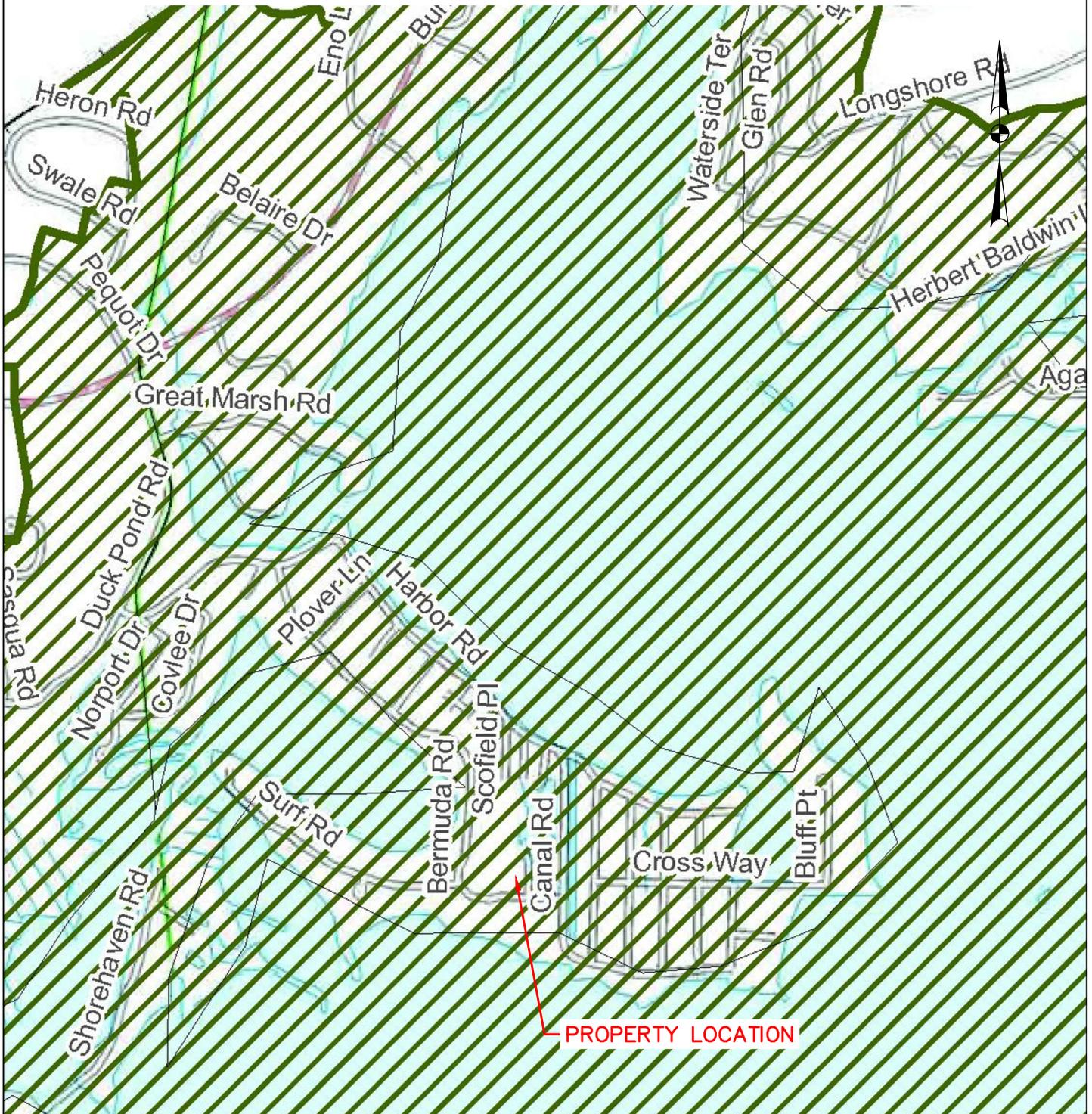
DRAWN BY: EPZ

DATE: 04/22/2015

CHECKED BY: JAB

PROJECT NUMBER: 13-449-026

APPLICANT NO: 1846

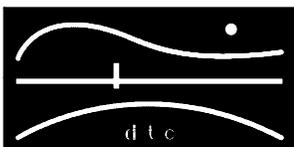


Coastal Boundary

GRAPHIC SCALE



(IN FEET)



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DISASTER RECOVERY

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WESTPORT, CT

ATTACHMENT 4
CAM AREA MAP

SCALE: 1"=2000'

DRAWN BY: EPZ

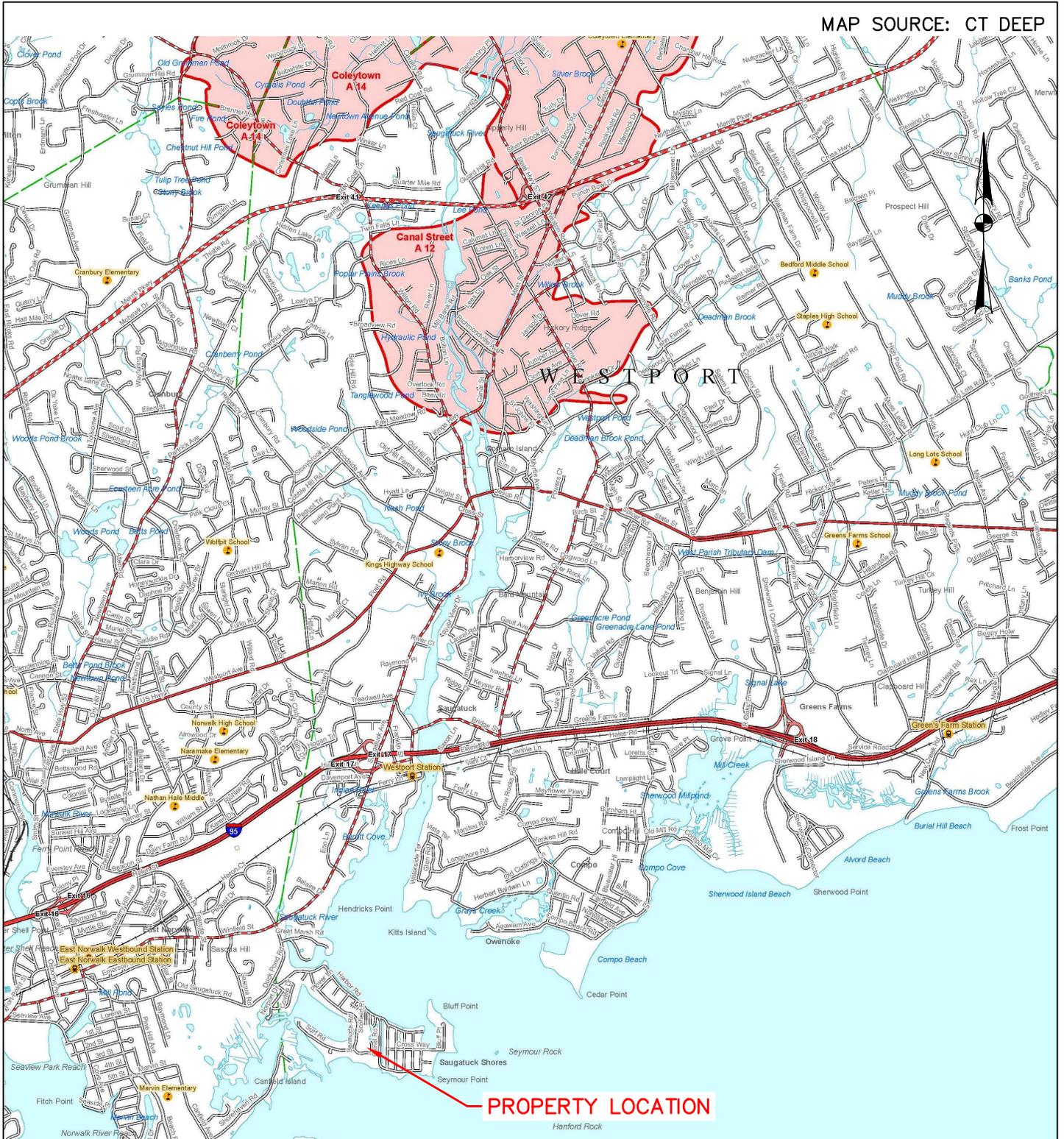
DATE: 04/22/2015

CHECKED BY: JAB

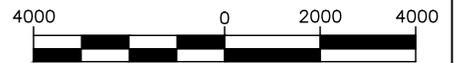
PROJECT NUMBER: 13-449-026

APPLICANT NO:

1846



GRAPHIC SCALE



(IN FEET)

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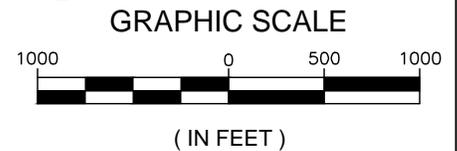
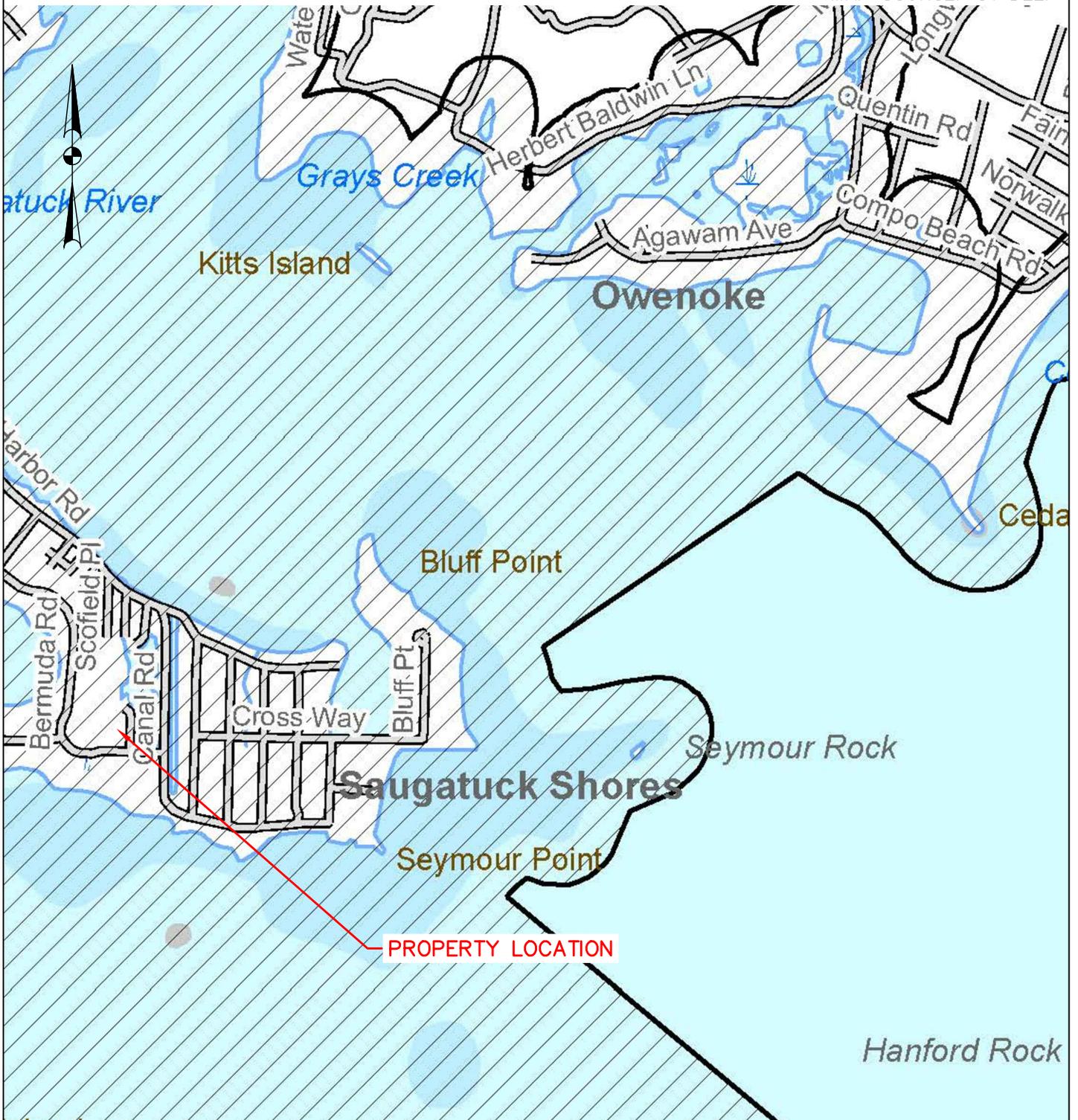
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY

3 MARSH ROAD
WESTPORT, CT

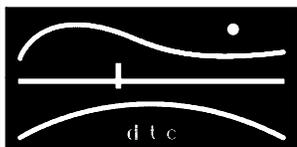
ATTACHMENT 5
AQUIFER PROTECTION AREAS

SCALE: 1"=4000'	DRAWN BY: EPZ
DATE: 04/22/2015	CHECKED BY: JAB

PROJECT NUMBER: 13-449-026	APPLICANT NO: 1846
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 State and Federal Listed Species and Significant Natural Communities*



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 Ph: 203 239 4200 Fax: 203 234 7376

DEPARTMENT OF HOUSING
 COMMUNITY DEVELOPMENT BLOCK GRANT
 DISASTER RECOVERY

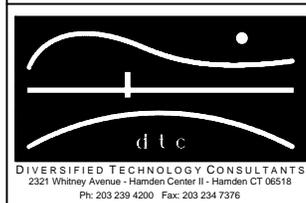
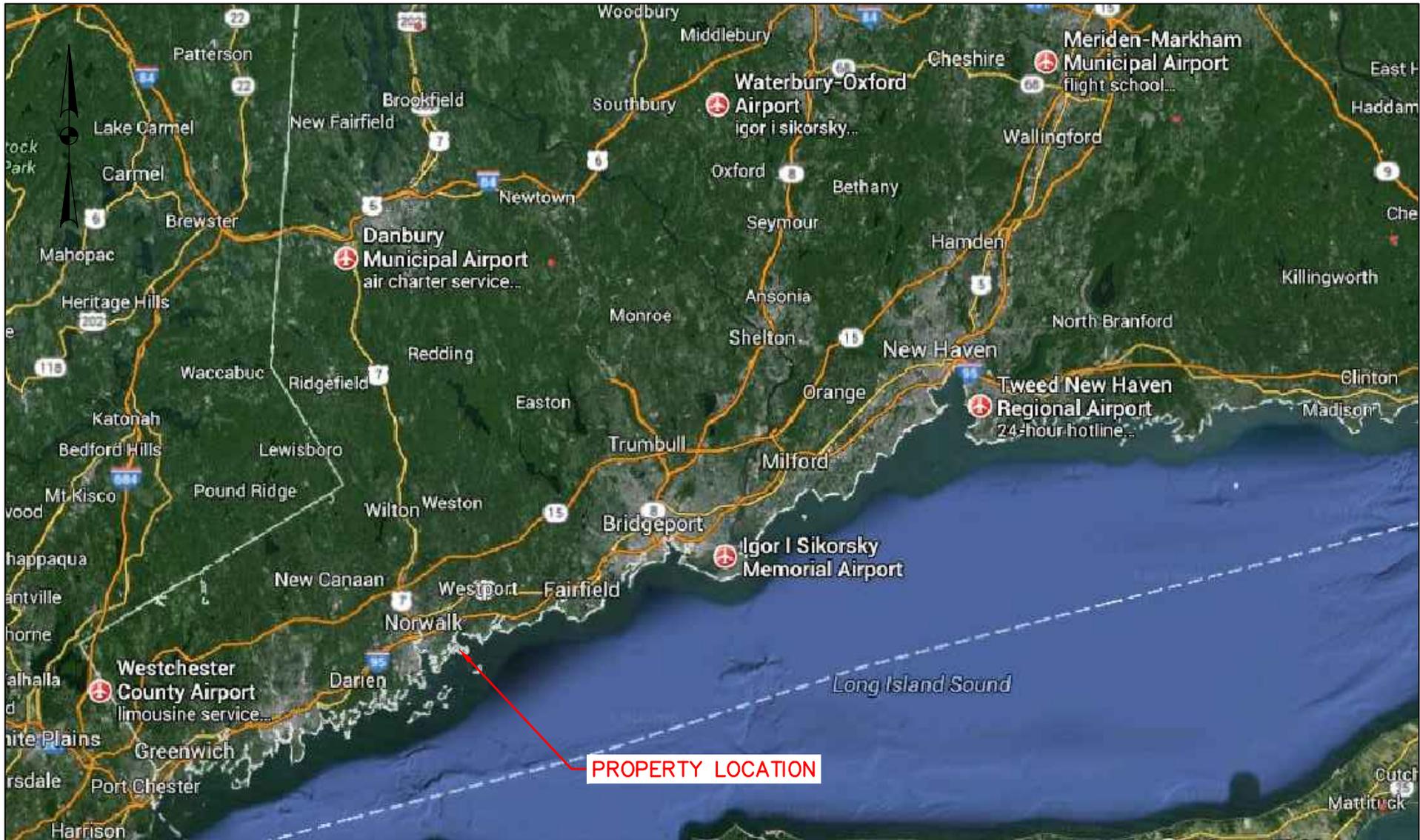
3 MARSH ROAD
 WESTPORT, CT

ATTACHMENT 6
 NDDDB AREAS

PROJECT NUMBER: 13-449-026 APPLICANT NO: 1846

SCALE: 1"=1000' DRAWN BY: EPZ

DATE: 04/22/2015 CHECKED BY: JAB



DEPARTMENT OF HOUSING
 COMMUNITY DEVELOPMENT BLOCK GRANT
 DISASTER RECOVERY

3 MARSH ROAD
 WESTPORT, CT

ATTACHMENT 7
 AIRPORT VICINITY MAP

PROJECT NUMBER: 13-449-026

APPLICANT NO: 1846

SCALE: NTS

DRAWN BY: EPZ

DATE: 04/22/15

CHECKED BY: JAB



MAP SOURCE: U.S. FISH AND WILDLIFE SERVICE



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 2321 Whitney Avenue - Hamden Center II - Hamden CT 06518
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DEPARTMENT OF HOUSING
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 DISASTER RECOVERY

3 MARSH ROAD
 WESTPORT, CT

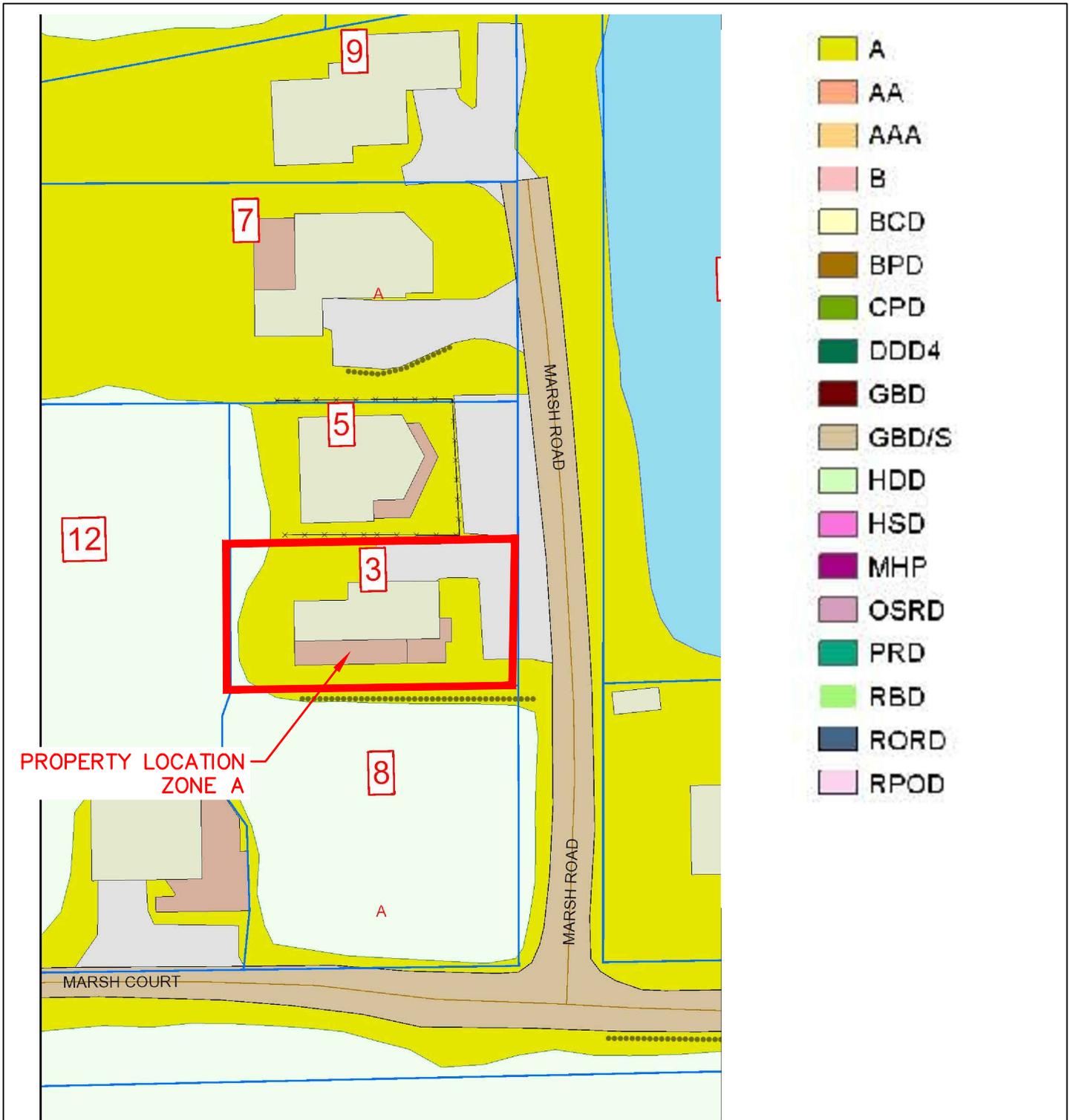
ATTACHMENT 8
 COASTAL BARRIER MAP

SCALE: NTS DRAWN BY: EPZ

DATE: 04/22/15 CHECKED BY: JAB

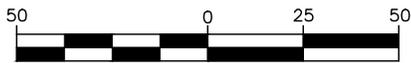
PROJECT NUMBER: 13-449-026

APPLICANT NO: 1846



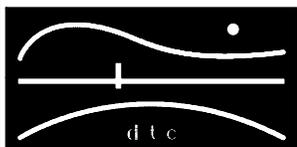
PROPERTY LOCATION
ZONE A

GRAPHIC SCALE



(IN FEET)

MAP SOURCE: TOWN OF WESTPORT GIS



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DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY

3 MARSH ROAD
WESTPORT, CT

ATTACHMENT 9
ZONING MAP

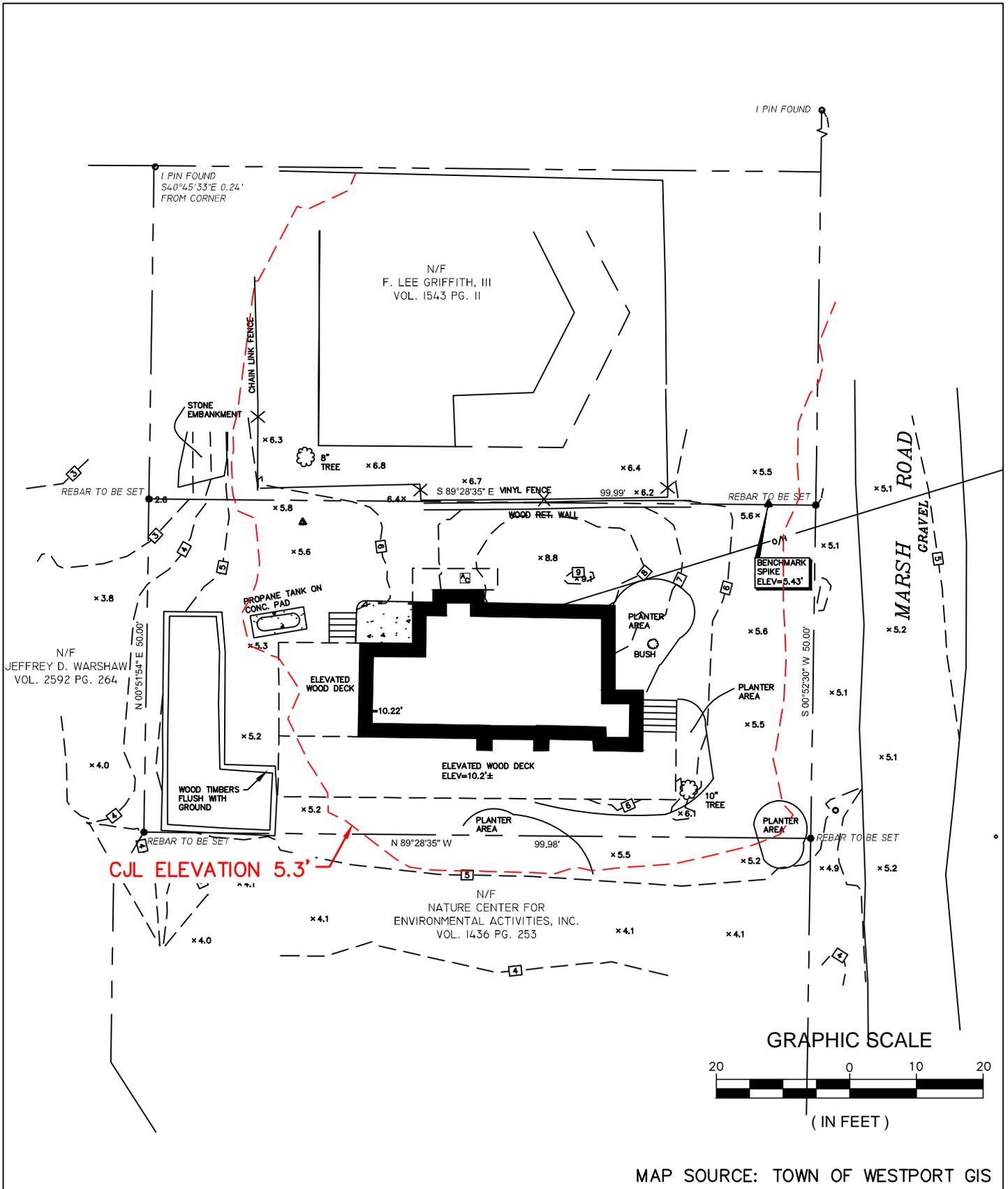
PROJECT NUMBER: 13-449-026 APPLICANT NO: 1846

SCALE: 1"=50'

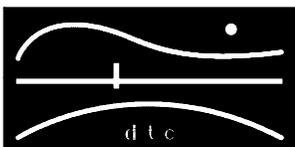
DRAWN BY: EPZ

DATE: 04/22/2015

CHECKED BY: JAB



MAP SOURCE: TOWN OF WESTPORT GIS



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DISASTER RECOVERY

3 MARSH ROAD
WESTPORT, CT

ATTACHMENT 10
CJL MAP

SCALE: 1"=20'

DRAWN BY: EPZ

PROJECT NUMBER: 13-449-026

APPLICANT NO: 1846

DATE: 04/22/2015

CHECKED BY: JAB

LR
1846

Department of Economic and
Community Development

Connecticut
still revolutionary

August 11, 2014

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

received
8-21-14

Subject: 3 Marsh Road
Westport, CT

Dear Ms. Delaire:

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

The property located at 3 Marsh Road appears to be eligible for listing on the National Register of Historic Places as a contributing resource to a potential historic district.

In order to complete our review, additional information is needed. Please submit to our office a set of schematic drawings and specifications for the undertaking as well as a preliminary elevation survey. Be advised that the elevation of historic resources may result in an adverse effect.

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

Sincerely,

Mary B. Dunne
Deputy State Historic Preservation Officer

State Historic Preservation Office

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

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United States Department of the Interior



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

Consultation Code: 05E1NE00-2015-SLI-0403

April 22, 2015

Event Code: 05E1NE00-2015-E-00666

Project Name: Burns 1846

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment



United States Department of Interior
Fish and Wildlife Service

Project name: Burns 1846

Official Species List

Provided by:

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

Consultation Code: 05E1NE00-2015-SLI-0403

Event Code: 05E1NE00-2015-E-00666

Project Type: ** Other **

Project Name: Burns 1846

Project Description: Existing house to be demolished and rebuilt due to damage from Super Storm Sandy.

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



United States Department of Interior
Fish and Wildlife Service

Project name: Burns 1846

Project Location Map:



Project Coordinates: MULTIPOLYGON (((-73.3743614 41.0976858, -73.374356 41.0975403, -73.3747505 41.0975768, -73.3747503 41.0977141, -73.3743614 41.0976858)))

Project Counties: Fairfield, CT



United States Department of Interior
Fish and Wildlife Service

Project name: Burns 1846

Endangered Species Act Species List

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

Birds	Status	Has Critical Habitat	Condition(s)
Red Knot (<i>Calidris canutus rufa</i>)	Threatened		



United States Department of Interior
Fish and Wildlife Service

Project name: Burns 1846

Critical habitats that lie within your project area

There are no critical habitats within your project area.

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: 3 Marsh Road, Westport, CT 06880 Application Number: 1846 "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
Name of Applicant (print or type)	Title
Signature of Professional Engineer	Date
Name of Professional Engineer (print or type)	P.E. Number Affix P.E. Stamp Here <div style="border: 1px solid black; width: 150px; height: 100px; margin: 10px auto;"></div>

ChemScope INDUSTRIAL HYGIENE • ENVIRONMENTAL CHEMISTRY

15 Moulthrop Street, North Haven, CT 06473-3686 • Phone (203) 865-5605 • Fax (203) 498-1610

Scott Feulner
Diversified Technology Consultants (DTC)
2321 Whitney Avenue, Suite 301
Hamden, CT 06518

7/28/2014

**SITE 026 (BURNS) – 3 MARSH ROAD, WESTPORT, CT
APPLICATION #1846
CS#183-481, 7/1/2014**

PROJECT SUMMARY

Demolition or Renovation	Renovate and Raise
Scope of Inspection	Renovation
CS#	CS#183-481
Date(s) of Inspection	7/1/2014
Reports Dated	7/18/2014 and 7/28/2014
Occupied	Yes
Child <6 yrs residing	No
Heat on	Yes
Water on	Yes
Electricity on	Yes
Asbestos Inspected /Present	Yes / Yes
Lead Inspected /Present	Yes / Yes
Lead Risk Assessment Done	No (not Pre-1978)
Mold Inspected /Present	Yes / Yes
Radon Tested /Detected ≥ 4.0 pCi/L	No / -

Please call me if there are any questions about this report or if you need further assistance.

Thank you for calling on us.



Dan Sullivan
Vice President, Operations

Report Distribution:

Scott Feulner, DTC Scott.Feulner@teamdtc.com
Curtis Graham, DTC graham.curtis@teamdtc.com
Michael Casey, DTC michael.casey@teamdtc.com

File Location:

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Scott Feulner
Diversified Technology Consultants (DTC)
2321 Whitney Avenue, Suite 301
Hamden, CT 06518

7/28/2014

**LEAD BASED PAINT PRE-RENOVATION XRF SCREENING
SITE 026 (BURNS) – 3 MARSH ROAD, WESTPORT, CT
APPLICATION #1846
CS#183-481, 7/1/2014, PAGE 1 OF 5**

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Inspection Report Synopsis	4-5
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Attachments:

- Site Drawings – 2 page(s)
- XRF data sheets – 7 page(s)
- XRF quality evaluation sheet – 1 page(s)
- Hazardous Waste Evaluation Worksheet – 1 page(s)

Report Distribution:

Scott Feulner, DTC Scott.Feulner@teamdtc.com
Curtis Graham, DTC graham.curtis@teamdtc.com
Michael Casey, DTC michael.casey@teamdtc.com

File Location:

NAS AAUM-Reports\LeadInsp\DS-XRFSVY_2013.doc

**LEAD BASED PAINT PRE-RENOVATION XRF SCREENING
SITE 026 (BURNS) – 3 MARSH ROAD, WESTPORT, CT
APPLICATION #1846
CS#183-481, 7/1/2014, PAGE 2 OF 5**

INTRODUCTION

EXECUTIVE SUMMARY: Lead (as defined by OSHA regulations 29 CFR 1926.62) and Lead Based Paint (as defined by USC Title 15 – Chapter 53- Toxic Substance Control) were detected on surfaces and/or components within the scope of the inspection. This will require workers disturbing Lead to be properly protected and trained including personal air sampling on the workers. The concentrations determined by the personal samples will determine the level of protection required by OSHA. (Contact us for assistance with the personal samples and further interpretation. General information is contained in the recommendations to follow.) Because lead based paint was detected, a Hazardous Waste Evaluation was done per CT DEEP regulations to determine if the waste products from the renovation are potentially a hazardous waste. The hazardous waste evaluation was done using a modified “knowledge of process” technique. This modified method resulted in the waste being 10 mg/kg of lead, which is considered not likely to be a lead hazardous waste since it is < 100 mg/kg (the threshold for this modified method).

BUILDING DESCRIPTION: The subject building is a single-family, two-story contemporary-style house totaling approximately 1500 sq ft, which was built in 1978 of wood-frame construction. Heat is supplied from a furnace in the mechanical closet off the kitchen. There is a crawlspace under the house. The heat, water and electricity were all on. The house was occupied during our inspection. At the time of our screening, there were no children under the age of six residing at this subject house and the house was not being used as a daycare facility.

BACKGROUND: We understand the subject house suffered damage as a result of hurricane Sandy on October 29-30, 2012. The house is scheduled to be renovated. Based on the storm damage the following items are scheduled for removal and replacement: raise dwelling above the base flood elevation, gut interior to studs, inspect and structurally reinforce to code, new sprayed foam insulation to code, replace drywall, roofing and siding, restore interior walls, floors, and trim, replace kitchen cabinets and appliances, replace first floor bathroom, new mechanical, electrical and plumbing systems, rebuild rear screened-in porch, new deck, new wood stairs at front and rear to access the raised structure.

SCOPE OF OUR WORK: Our work would include the following:

- XRF Screening of Lead Based Paint of representative painted surfaces on throughout the house, within the scope of the renovations as listed above.
- Site reference drawing.
- A hazardous waste evaluation.
- A report of the findings.

Lead paint chip, dust, soil, water and TCLP sampling are not in our scope of work.

This investigation and information provided in this report depends partly on background information provided by the client. This report is intended for the use of the client. The scope of services performed may not be appropriate for other users and any use of this report by third parties is at their sole risk. This report is intended to be used in its entirety. No excerpts may be taken to be representative of this report.

**LEAD BASED PAINT PRE-RENOVATION XRF SCREENING
SITE 026 (BURNS) – 3 MARSH ROAD, WESTPORT, CT
APPLICATION #1846
CS#183-481, 7/1/2014, PAGE 3 OF 5**

INTRODUCTION (cont)

METHOD OF TESTING: Spectrum Analyzer XRF (x-ray fluorescence). Instrument used: RMD LPA-1, Serial # 1647 in Quick Mode. The unit source (Cobalt 57) for unit 1647 was replaced November 2nd, 2012. The XRF detects paint in all layers down to the painted substrate. In other words if lead paint is painted over with new paint, the lead paint is still detected by this procedure. When paint is covered with metal or plastic trim such as siding or by carpet, the lead paint is usually not detectable. This instrument is registered with the State of Connecticut Dept of Energy and Environmental Protection and is Generally Licensed under the NRC. This is one of the two methods, which are approved under the CT Dept of Public Health (DPH) regulations. This is a non-destructive test.

TEST PARAMETERS FOR XRF TESTING USING THIS INSTRUMENT: OSHA 1926.62
Definition: Lead means metallic lead, all inorganic lead compounds, and organic lead soaps. Excluded from this definition are all other organic lead compounds.

XRF readings of 1.0 mg/cm² or higher are lead based paint as defined by USC Title 15 – Chapter 53- Toxic Substance Control and XRF reading with any detectable amount of lead detected are defined as Lead by OSHA standard 1926.62.

XRF CALIBRATION CHECK: Standard Reference Material (SRM) paint film nearest to 1.0 mg/cm² within the National Institute of Standards and Technology (NIST) SRM is used to Calibrate the XRF. Calibration Readings are taken at the beginning and end of a job and every four (4) hours during the job with three (3) readings per set. The expiration date of the standard used is 7/1/20.

QUALITY CONTROL PROCEDURES: The XRF is used in accordance with Manufacturer's Performance Characteristics Sheet and instructions. See test data attached for details. Ten (or if <10, then the total number of tests conducted) testing combinations for re-testing from each unit are selected and checked in either 15 second or 60 second readings.

STATEMENT ON ACCURACY: The XRF Calibration checks were acceptable with each of the three (3) readings before, during (if applicable) and after the testing between 0.7 mg/cm² and 1.3 mg/cm². See attached XRF data sheets for documentation of proper calibration check sequence.

REPORT CONVENTIONS: Rooms are sometimes given arbitrary numbers to avoid ambiguity. Please refer to the enclosed schematic drawings of the site. Samples are referenced by the side of the building they are facing, as indicated on the drawings. Side A is the street side (front), Side B is the left side, Side C is the rear and Side D is the right side.

QUALIFICATIONS: The Inspection was conducted by Daniel P. Sullivan, CT DPH Certified DPH Lead Inspector/Risk Assessor #002131, Radiation Safety Training, RMD 12/2/94. Dan was assisted by Leigh Honorof. Chem Scope's DPH lead license # is CC000164.

For information about Chem Scope, Inc., log onto <http://www.chem-scope.com>.

**LEAD BASED PAINT PRE-RENOVATION XRF SCREENING
SITE 026 (BURNS) – 3 MARSH ROAD, WESTPORT, CT
APPLICATION #1846
CS#183-481, 7/1/2014, PAGE 4 OF 5**

INSPECTION REPORT SYNOPSIS

LOCATION NAME AND ADDRESS: Site 026 (Burns)
3 Marsh Road, Westport, CT
Application #1846

INSPECTION DATE(S): 7/1/2014

XRF Testing Results: The following surface(s) and/or component(s) contained Lead as defined by OSHA regulations 29 CFR 1926.62, in addition the **items in bold are Lead Based Paint** as defined by USC Title 15 – Chapter 53- Toxic Substance Control:

INTERIOR:

Component/Description	Location
White painted wood door frame	1-5 Back Hall Side C

OSHA 1926.62 Definition: Lead means metallic lead, all inorganic lead compounds, and organic lead soaps. Excluded from this definition are all other organic lead compounds.

XRF readings of 1.0 mg/cm² or higher are lead based paint as defined by USC Title 15 – Chapter 53- Toxic Substance Control and XRF reading with any detectable amount of lead detected are defined as Lead by OSHA standard 1926.62.

LIMITATIONS OF SCREENING: Not all painted surfaces were tested. Consequently, if a surface was not tested assume it contains Lead until proven otherwise. See attached data sheets for a list of surfaces tested.

Hazardous Waste Evaluation: Because toxic levels of lead were detected, a Hazardous Waste Evaluation was done to determine if the waste products from the renovation are potentially a hazardous waste.

An initial hazardous evaluation was done using a modified (for XRF data as opposed to paint chip data) "knowledge of process" technique intended to approximate the method described by the CT Department of Energy and Environmental Protection (DEEP). That method is one of six methods outlined in the CT DEEP "Guidance for the Management and Disposal of Lead-Contaminated Materials Generated in the Lead Abatement, Renovation and Demolition Industries" (11/4/94) for hazardous waste evaluation. For our modified method, data gathered during the XRF inspection is used to calculate for hazardous waste vs. other methods that require TCLP (Toxicity Characteristic Leaching Procedure) testing.

Continued

**LEAD BASED PAINT PRE-RENOVATION XRF SCREENING
SITE 026 (BURNS) – 3 MARSH ROAD, WESTPORT, CT
APPLICATION #1846
CS#183-481, 7/1/2014, PAGE 5 OF 5**

INSPECTION REPORT SYNOPSIS (cont)

This modified method resulted in the waste being **10 mg/kg of lead**, which is considered not likely to be a lead hazardous waste since it is < 100 mg/kg (the threshold for this modified method). This evaluation includes the foundation.

This method is the least expensive method of hazardous waste evaluation but has limited applicability. The other methods include the following:

- Demolish and Test (TCLP test and needs to be done during the renovation or demolition)
- Composite-Sample and Demolish (TCLP test done before the renovation and destructive testing required and challenging to do for renovations if we don't know what the waist stream is actually going to be in the dumpster)

RECOMMENDATIONS

OSHA 1926.62 (worker protection): Work that disturbs surfaces that contain Lead Based Paint (or any detectable amount of Lead) such as is the case for this work must be done according to OSHA regulation 1926.62 OSHA requires employers to conduct air sampling on workers disturbing lead to establish exposure levels to lead for those workers. The recorded levels are then compared to two different airborne concentrations in the OSHA standard: the action limit (AL) and the permissible exposure limit (PEL). Currently, the AL is set at 30 micrograms of lead per cubic meter of air ($\mu\text{g}/\text{m}^3$) and the PEL is 50 $\mu\text{g}/\text{m}^3$. At a minimum the following is required even for air sample results below the action level (this is known as Category 1):

1. Train employees
2. Conduct Exposure Monitoring (air sampling, as mentioned above)
3. Maintain Records

See details below if your sampling exceeds the standards. Chem Scope, Inc could help with compliance assistance as needed.

OSHA 1926.62 – Additional Details:

Category 2: OSHA regulations require; Same as category I, plus: Provide respirator at employee request, Conduct exposure monitoring every 3 months, and Conduct blood lead monitoring when the exposure monitoring results are 30–50 $\mu\text{g}/\text{m}^3$ (above the action level, but below the PEL).

Category 3: OSHA Regulations require; Same as category II, plus, enforce respirator use, enforce use of protective clothing, develop monitoring every 6 months, enforce housekeeping, provide hygiene facilities and enforce washing when the exposure monitoring results are 50 $\mu\text{g}/\text{m}^3$ and over (above the PEL).

See separate Asbestos Pre-renovation Inspection report and Mold Assessment report for additional details. If you have any questions or need more information please call me. Thank you for calling on us.

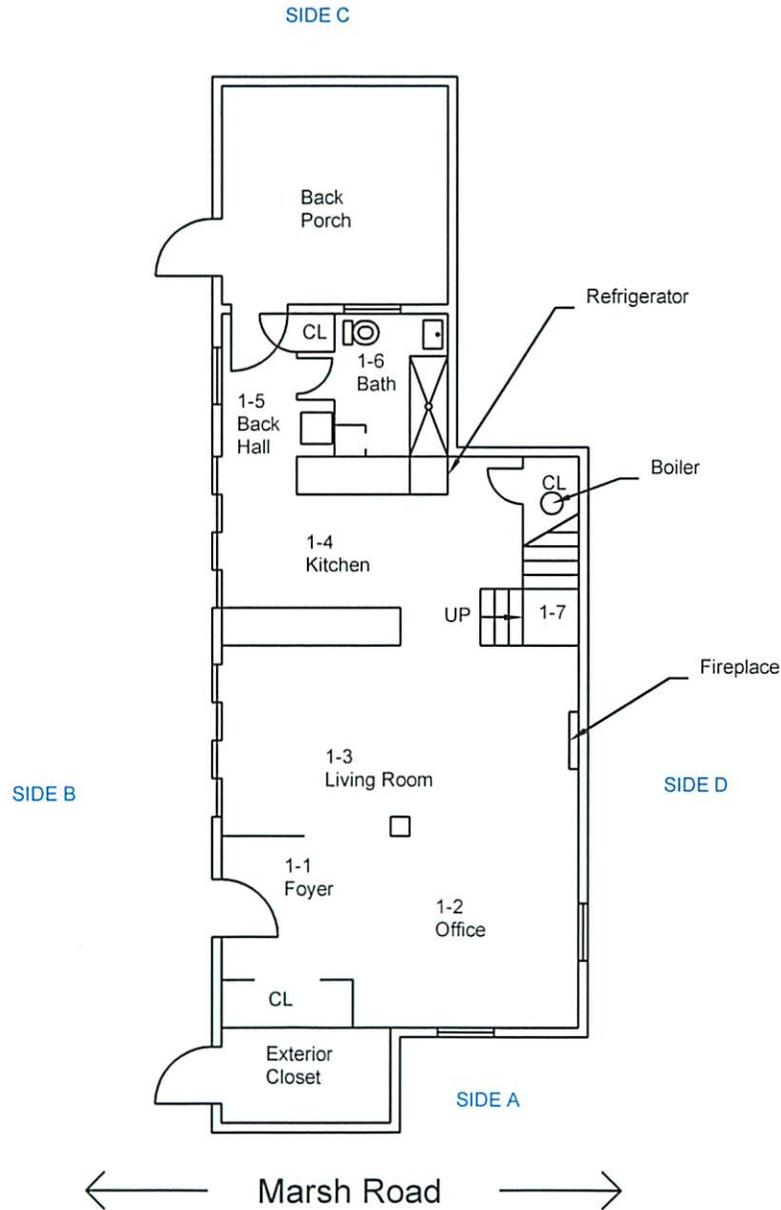
Sincerely,



Dan Sullivan
Vice President, Operations

ChemScope Inc.

Site 026 - Main Level
 3 Marsh Road, Westport, CT
 CS# 183-481, 7/1/14



LEGEND OF SYMBOLS

NOTATIONS

DRAWN BY
LEIGH HONOROF

ChemScope Inc.

SHEET TITLE
ASBESTOS, LEAD & MOLD INSPECTION
3 MARSH RD
WESPORT, CT
MAIN LEVEL

CHEMSCOPE NUMBER CS# 183-481	DRAWING NUMBER
SCALE NOT TO SCALE	1 L
DATE 07/01/2014	

Site Name: Site 026 (Burns) - Application #1846Date of Inspection: 7/1/2014Site Address: 3 Marsh Road, Westport, CTCS# 183-481Customer Name: Diversified Technology Consultants (DTC)Customer Address: 2321 Whitney Avenue, Suite 301 / Hamden, CT 06518Work Area: Int & Ext ThroughoutPage 1 of 7Site Description: Single-Family ResidentialYear of Construction: 1978Name of Individual Doing Testing: Dan SullivanCT DPH Lic# 2131CO-57 Date Source Installed: 11/2/2012Software version # N/ASerial # 1647

Test #	Clock Time	NIST Calibration Standard	Results QM (mg/CM2)
1	849 ^{am}	NIST SRM 2573 Red	1.0
2	850 ^{am}	NIST SRM 2573 Red	1.0
3	851 ^{am}	NIST SRM 2573 Red	1.0
163	1103	NIST SRM 2573 Red	1.0
164	1104	NIST SRM 2573 Red	1.0
165	1105	NIST SRM 2573 Red	1.0
		NIST SRM 2573 Red	
		NIST SRM 2573 Red	
4	852 ^{am}	NIST SRM 2570 White (Blank)	-0.4
166	1106	NIST SRM 2570 White (Blank)	-0.1

Note: each entry represents a single test on the surface indicated.

- Acceptance limits for calibration are 0.7-1.3.
- 1.0 mg/cm² or higher = lead based paint (LBP)
- All values run under Quick Mode (QM), unless noted otherwise under comments above.
- Calibration std SRM 2573 has 1.0 mg/cm² of lead, expiration of std is 7/1/20.
- DEF under comments means the surface has defective lead based paint

INSPECTOR SIGNATURE/Date/REVIEWED BY/Date:

Dan Sullivan, 7/1/14, DR, 7-29

Site Name: Site 026 (Burns) - Application #1846

Date of Inspection: 7/1/2014

Site Address: 3 Marsh Road, Westport, CT

CS#183-481

Work Area: Interior - First Floor

Page 2 of 7

Test #/ Side	Int/Ext	Room #	Component	Defective (Y/N)	Color	Substrate	Results QM (mg/CM2)	LPB (Y/N)
5	A	INT	H-1 Foyer	N	Lt. Pink	wood paneling	-0.1	N
6	"	"	"	"	"	"	-0.2	N
7	B	"	"	"	"	"	-0.2	N
8	"	"	"	"	"	"	-0.2	N
9	C	"	"	Y	"	"	-0.3	N
10	"	"	"	"	"	"	-0.3	N
11	B	"	door	Y	white	metal	-0.2	N
12	"	"	"	"	"	"	-0.3	N
13	"	"	door casing	Y	white	wood	-0.1	N
14	"	"	" "	"	"	"	-0.2	N
15	"	"	door Frame	Y	"	"	-0.1	N
16	"	"	" "	"	"	"	-0.2	N
17	"	"	Window sill	Y	white	wood	-0.4	N
18	"	"	" "	"	"	"	-0.3	N
19	"	"	Window frame	Y	"	"	-0.3	N
20	"	"	" "	"	"	"	-0.2	N
21	"	"	Ceiling	Y	white	Sheetrock	-0.2	N
22	"	"	"	Y	"	"	-0.3	N
23	A	"	Cl-set door 1	Y	white	wood	-0.3	N
24	"	"	" "	"	"	"	-0.3	N
25	"	"	Cl-set door Frame	"	"	"	-0.2	N
26	A	"	H-2 office	Y	Lt. Pink	wood paneling	-0.2	N
27	D	"	"	"	"	"	-0.3	N
28	"	"	Window sill	Y	white	wood	-0.2	N
29	"	"	" casing	Y	"	"	-0.1	N
30	"	"	" sign	Y	"	metal	-0.3	N
31	"	"	Ceiling	Y	"	SR	-0.2	N

Signature: Don Hill

Date: 7/1/14

Site Name: Site 026 (Burns) - Application #1846Date of Inspection: 7/1/2014Site Address: 3 Marsh Road, Westport, CTCS#183-481Work Area: Interview - First FloorPage 3 of 7

Test #/ Side	Int/Ext	Room #	Component	Defective (Y/N)	Color	Substrate	Results QM (mg/CM2)	LPB (Y/N)
32 A	Int	1-20flr	windows sill	Y	white	wood	-0.3	N
33 "	"	"	" cashy	Y	"	"	-0.1	N
34 "	"	"	" fram	"	"	"	-0.2	N
35 C	"	"	Column	"	offwhite	"	-0.1	N
36 "	"	"	ceily beam	"	"	"	-0.2	N
37 B	"	1-3 Lmflr	wall	Y	Lt. Pink	wood panely	-0.3	N
38 C	"	"	"	"	"	"	-0.0	N
39 D	"	"	"	"	"	"	-0.2	N
40 "	"	"	Column 1	Y	offwhite	wood	-0.2	N
41 "	"	"	Column 2	Y	"	"	-0.3	N
42 "	"	"	Fireplace mold	Y	"	"	-0.3	N
43 "	"	"	Mirror frame	Y	white	wood	-0.2	N
44 "	"	"	cabinet door 4	Y	Lt. pink	wood	-0.3	N
45 "	"	"	cabinet door	Y	"	"	-0.3	N
46 "	"	"	shelf	Y	"	"	-0.1	N
47 B	"	"	door 2	N	white	Alumun	-0.4	N
48 "	"	"	door frame	N	"	"	-0.4	N
49 "	"	"	door cashy	Y	"	wood	-0.1	N
50 C	"	"	ceily	Y	white	SR	-0.3	N
51 "	"	"	baseband	Y	"	wood	-0.1	N
52 A	"	1-4 kitchen	wall	Y	Lt. Pink	SR	-0.3	N
53 B	"	"	"	Y	"	"	-0.4	N
54 C	"	"	"	Y	"	"	-0.3	N
55 D	"	"	"	Y	"	wood panely	-0.4	N
56 C	"	"	winder sill	Y	white	wood	-0.4	N
57 "	"	"	" fram	"	"	"	-0.2	N
58 "	"	"	sun	"	"	"	-0.3	N

Signature: Don SullivanDate: 7/1/2014

Site Name: Site 026 (Burns) - Application #1846

Date of Inspection: 7/1/2014

Site Address: 3 Marsh Road, Westport, CT

CS#183-481

Work Area: Interior 1st floor

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Test #/ Side	Int/Ext	Room #	Component	Defective (Y/N)	Color	Substrate	Results QM (mg/CM2)	LPB (Y/N)
59 B	INT	Kitchen	door 2	N	white	Aluminum	-0.4	N
60 "	"	"	door frame	"	"	"	-0.3	N
61 "	"	"	door cabin	Y	"	wood	-0.1	N
62 "	"	"	ceiling	Y	white	SR	-0.4	N
63 "	"	"	floor	Y	blue	wood laminate	-0.3	N
64 C	"	"	Upper cabinet door	N	offwhite	wood	-0.4	N
65 "	"	"	Upper cabinet frame	N	"	"	-0.5	N
66 "	"	"	cabinet header	Y	"	"	-0.12	N
67 A	"	"	lower cabinet door	N	white	wood	-0.4	N
68 B	"	"	baseboard	Y	"	"	-0.3	N
69 A	"	1-5 Back Hall	wall	Y	Lt. pink	SR	-0.8	N
70 B	"	"	"	Y	"	"	-0.5	N
71 C	"	"	"	Y	"	"	-0.4	N
72 "	"	"	ceiling	Y	white	SR	-0.4	N
73 "	"	"	floor	Y	blue	wood laminate	-0.3	N
74 B	"	"	baseboard	Y	white	wood	-0.1	N
75 "	"	"	radiator cover	Y	Lt. pink	metal	-0.2	N
76 C	"	"	door	Y	white	metal	-0.2	N
77 "	"	"	door cabin	Y	offwhite	wood	-0.1	N
78 "	"	"	door frame	Y	white	"	5.1	Y
79 "	"	"	screen door	Y	gray	metal	-0.3	N
80 D	"	"	door 1	Y	white	wood	-0.2	N
81 "	"	"	door 2	Y	"	"	-0.4	N
82 "	"	"	door frame 1	Y	"	"	-0.2	N
83 "	"	"	" " 2	Y	"	"	-0.3	N
84 C	"	1-5 CL	shelf	Y	Lt. pink	wood	-0.6	N
85 "	"	"	shelf support	Y	"	"	-0.1	N

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Signature: [Signature]

Date: 7/1/14

Site Name: Site 026 (Burns) - Application #1846

Date of Inspection: 7/1/2014

Site Address: 3 Marsh Road, Westport, CT

CS# 183-481

Work Area: Interior 1st & 2nd Floor

Page 5 of 7

Test # / Side	Int/Ext	Room #	Component	Defective (Y/N)	Color	Substrate	Results QM (mg/CM2)	LPB (Y/N)
86 A	Int	1-bathroom	wall	Y	pink/peach	wallpaper on SR	-0.1	N
87 C	"	"	"			"	-0.3	N
88 "	"	"	flaw	Y	offwhite	4"x11" ceramic	-0.6	N
89 "	"	"	ceiling	Y	white	SR	-0.1	N
90 "	"	"	radiant cover	Y	white	metal	-0.4	N
91 "	"	"	window sill	Y	offwhite	wood	-0.1	N
92 "	"	"	" casing	"	"	"	-0.2	N
93 "	"	"	" frame	"	"	"	0.1	N
94 A	"	1-7 Stairs	wall	Y	lt. pink	wood panel	-0.2	N
95 D	"	"	"	Y	"	"	-0.3	N
96 V	"	"	stair stringer	Y	white	wood	-0.0	N
97 "	"	"	" tread	N	lt grey	carpet	-0.0	N
98 "	"	"	" riser	"	"	"	0.0	N
99 B	"	"	newel post	Y	white	wood	-0.1	N
100 "	"	"	handrail	Y	"	"	-0.3	N
101 A	"	2-1 Bedr	wall	Y	offwhite	SR	-0.2	N
102 B	"	"	"	"	"	"	-0.3	N
103 C	"	"	"	"	"	"	-0.3	N
104 D	"	"	"	"	"	"	-0.3	N
105 "	"	"	ceiling	Y	white	SR	-0.3	N
106 A	"	"	window sill	Y	white	wood	-0.4	N
107 "	"	"	" frame	Y	"	"	-0.1	N
108 "	"	"	" casing	Y	"	"	-0.3	N
109 B	"	"	door 2	N	white	Alum	-0.3	N
110 "	"	"	door frame	"	"	"	-0.2	N
111 "	"	"	door casing	Y	"	wood	0.0	N
112 "	"	"	baseboard	"	offwhite	"	-0.2	N

1023

Signature: [Signature]

Date: 7/1/2014

Site Name: Site 026 (Burns) - Application #1846

Date of Inspection: 7/1/2014

Site Address: 3 Marsh Road, Westport, CT

CS#183-481

Work Area: Interior 2nd Floor

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Test #/ Side	Int/Ext	Room #	Component	Defective (Y/N)	Color	Substrate	Results QM (mg/CM2)	LPB (Y/N)
103	A	2-2 Bed 2	wall	Y	white	wood panel	-0.3	N
114	B	"	"	"	"	"	-0.2	N
115	C	"	"	"	lt. pink	"	-0.4	N
116	D	"	"	"	white	"	-0.2	N
117	B	"	ceiling	Y	white	SR	-0.2	N
118	"	"	baseboard	Y	"	wood	-0.2	N
119	"	"	door	Y	"	"	-0.4	N
120	"	"	door casing	Y	"	"	-0.3	N
121	"	"	door frame	Y	"	"	-0.1	N
122	D	"	window sill 2	Y	"	"	-0.2	N
123	"	"	" cap 2	Y	"	"	-0.2	N
124	A	2-3 Bed 3	wall	N	white	SR	-0.4	N
125	B1	"	"	"	"	"	-0.3	N
126	C2	"	"	"	"	"	-0.4	N
127	D1	"	"	"	"	"	-0.3	N
128	"	"	ceiling	"	"	"	-0.3	N
129	B1	"	window sill	N	white	Alum	-0.0	N
130	"	"	" casing	Y	"	wood	-0.3	N
131	D2	"	door	Y	"	"	-0.3	N
132	"	"	door frame	Y	"	"	-0.3	N
133	C	Bath Floor		N	white	ceramic	-0.8	N
134	"	"	wall	N	"	wallpaper SR	-0.2	N
135	"	"	casing	N	"	SR	-0.2	N
136	"	"	window sill	Y	offwhite	wood	-0.3	N
137	"	"	" frame	Y	"	"	-0.0	N
138	"	"	" trim	Y	"	metal	-0.3	N
139	"	"	door	Y	"	wood	-0.3	N

Signature: [Handwritten Signature]

Date: 7/1/14

1028

1043

Site Name: Site 026 (Burns) - Application #1846

Date of Inspection: 7/1/2014

Site Address: 3 Marsh Road, Westport, CT

CS#183-481

Work Area: Exterior

Page 7 of 7

Test # / Side	Int/Ext	Room #	Component	Defective (Y/N)	Color	Substrate	Results QM (mg/CM2)	LPB (Y/N)
140 A2	EXT	1-2	Siding	Y	Gray	wood	-0.1	N
141	"	"	washer frame	Y	white	wood	-0.0	N
142	"	"	" sill	Y	"	"	-0.11	N
143	"	"	" sash	Y	"	"	-0.1	N
144	"	"	Low wall pads	Y	gray	transide	-0.7	N
145 B1	"	Kitchen	Siding	Y	gray	wood	-0.11	N
146	"	"	door casing	Y	white	wood	-0.2	N
147 C	"	Breakfast	Siding	Y	gray	wood	-0.4	N
148	"	"	door casing	Y	white	wood	-0.5	N
149 B	"	"	porch floor	Y	gray	wood	-0.4	N
150	"	"	handrail	Y	High gray	metal	-0.3	N
151 D1	"	1200mm	Siding	Y	gray	wood	-0.1	N
152	"	"	washer casing	Y	gray	wood	-0.2	N
153	"	"	" sill	N	white	Aluminum	-0.6	N
154	"	"	" sash	"	"	"	-0.4	N
155 02	"	stairs	Chimney	Y	unpainted	brick	-0.4	N
156 02	"	"	porch	Y	gray	wood	-0.2	N
157 D3	"	Back porch	Porch stairs wood	Y	"	"	-0.3	N
158	"	"	" riser	Y	"	"	-0.0	N
159	"	"	" string	Y	"	"	-0.2	N
160	"	"	" nosing	Y	"	"	-0.2	N
161	"	"	Screen door	Y	gray	metal	-0.4	N
162	"	"	Screen door frame	Y	gray	wood	0.0	N

Signature: [Signature]

Date: 7/1/2014

11:00 am

EVALUATING THE QUALITY OF XRF:

Site Name: Site 026 (Burns)
 Site Address: 3 Marsh Road, Westport, CT

CS# 183-481
 Date: 7/1/2014

Location	Original Reading	Retest Reading	Square of Original Reading	Square of Retest Reading
1. Interior - 1-1 Foyer - Wall - Side A	-0.1	-0.2	0.01	0.04
2. Interior - 1-1 Foyer - Wall - Side B	-0.2	-0.2	0.04	0.04
3. Interior - 1-1 Foyer - Wall - Side C	-0.3	-0.3	0.09	0.09
4. Interior - 1-1 Foyer - Door - Side B	-0.2	-0.3	0.04	0.09
5. Interior - 1-1 Foyer - Door Casing - Side B	-0.1	-0.2	0.01	0.04
6. Interior - 1-1 Foyer - Door Frame - Side B	-0.1	-0.2	0.01	0.04
7. Interior - 1-1 Foyer - Window Sill - Side B	-0.4	-0.3	0.16	0.09
8. Interior - 1-1 Foyer - Window Frame - Side B	-0.3	-0.2	0.09	0.04
9. Interior - 1-1 Foyer - Ceiling - Side B	-0.2	-0.3	0.04	0.09
10. Interior - 1-1 Foyer - Closet Door 1 - Side A	-0.3	-0.3	0.09	0.09
Sum of ten squared averages ("C"):			0.58	0.65
	"C" times 0.0072 ("D"):		0.004176	0.00468
	"D" plus 0.032 ("E"):		0.036176	0.03668
	Square root of "E" ("F"):		0.19020	0.191520234
	"F" times 1.645 (Retest Tolerance Limit):		0.3129	0.3151
Average of the ten XRF Readings:			-0.22	-0.25
	Absolute difference of the two averages:		0.0300	

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest.

Site Name: Site 026 (Burns) Application #1846
 Site Address: 3 Marsh Road, Westport, CT

CS# 183-482
 Date: 6/26/2014

Building Component	Average XRF Readings		Material Mass g/cm ²	mg Lead/kg of Mass		Component Est % of Mass	Weighting Factor	Weighting Factor x mg/kg of lead	
	w/ hot spot	w/o hot spots		w/hot spots	w/o hot spots			w/ hot spot	w/o hot spots
Unpainted/Stained Wood	0	0	0.6	0.0	0.0	40	0.40	0.0	0.0
Painted Wood	0.05	0	0.6	83.3	0.0	12	0.12	10.0	0.0
Sheetrock	0	0	0.45	0.0	0.0	25	0.25	0.0	0.0
Transite	0	0	0.4	0.0	0.0	1	0.01	0.0	
Carpet	0	0	0.2	0.0	0.0	1	0.01	0.0	0.0
Ceramic Tile	0	0	1.3	0.0	0.0	1	0.01	0.0	0.0
Brick	0	0	32	0.0	0.0	10	0.10	0.0	0.0
Metal	recycle	recycle				10	0.10	0.0	0.0
						Total	Total*	10.0	0.0

*Compared to criterion of > 100 mg/kg lead - (DEEP: "Guidance for the Management and Disposal of Lead-Contaminated Materials Generated in the Lead Abatement, Renovation and Demolition Industries" (11/4/94)

A value by this method of >100 mg/kg lead indicates the material is potentially a hazardous waste.

ChemScope INDUSTRIAL HYGIENE • ENVIRONMENTAL CHEMISTRY

15 Moulthrop Street, North Haven, CT 06473-3686 • Phone (203) 865-5605 • Fax (203) 498-1610 • www.chem-scope.com

Scott Feulner
Diversified Technology Consultants (DTC)
2321 Whitney Avenue, Suite 301
Hamden, CT 06518

7/18/2014

**ASBESTOS PRE-RENOVATION INSPECTION
SITE 026 (BURNS) – 3 MARSH ROAD, WESTPORT, CT
APPLICATION #1846
CS#183-481, 7/1/2014, PAGE 1 OF 5**

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Recommendations	5

Attachments:

- ACM location drawing(s) - 3 page(s)
- PLM Certificate of Analysis report with chain of custody - 10 page(s)
- Sample location drawing(s) - 3 page(s)
- CT-DPH Circular Letter #2003-10, 2 page(s)

Report Distribution:

Scott Feulner, DTC Scott.Feulner@teamdttc.com
Curtis Graham, DTC graham.curtis@teamdttc.com
Michael Casey, DTC michael.casey@teamdttc.com

File Location:

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**ASBESTOS PRE-RENOVATION INSPECTION
SITE 026 (BURNS) – 3 MARSH ROAD, WESTPORT, CT
APPLICATION #1846
CS#183-481, 7/1/2014, PAGE 2 OF 5**

INTRODUCTION

EXECUTIVE SUMMARY: Asbestos containing materials (ACM) were detected within the scope of this inspection and will need to be properly removed and disposed of prior to renovation that would disturb these materials. Abatement work must be done by a licensed asbestos abatement contractor using proper procedures and practices with licensed and trained individuals.

BUILDING DESCRIPTION: The subject building is a single-family, two-story contemporary-style house totaling approximately 1500 sq ft, which was built in 1978 of wood-frame construction. Heat is supplied from a furnace in the mechanical closet off the kitchen. There is a crawlspace under the house. The heat, water and electricity were all on. The house was occupied during our inspection.

BACKGROUND: We understand the subject house suffered damage as a result of hurricane Sandy on October 29-30, 2012. The house is scheduled to be renovated. Based on the storm damage the following items are scheduled for removal and replacement: raise dwelling above the base flood elevation, gut interior to studs, inspect and structurally reinforce to code, new sprayed foam insulation to code, replace drywall, roofing and siding, restore interior walls, floors, and trim, replace kitchen cabinets and appliances, replace first floor bathroom, new mechanical, electrical and plumbing systems, rebuild rear screened-in porch, new deck, new wood stairs at front and rear to access the raised structure.

SCOPE OF INSPECTION: Asbestos Pre-Renovation Inspection of the subject house, as directed by our client.

Our work included the following:

- Collection and analysis of building materials within the scope of renovation for asbestos, as required by the regulations.
- A list with quantity, type and location of asbestos containing materials (ACM) in the scope.
- Report of the findings including ACM location drawings.

This investigation and information provided in this report depends partly on background information provided by the client. This report is intended for the use of the client. The scope of services performed may not be appropriate for other users and any use of this report by third parties is at their sole risk. This report is intended to be used in its entirety. No excerpts may be taken to be representative of this report.

TEST PARAMETERS: This is an Asbestos Pre-Renovation Inspection intended to identify the presence, location, and quantity of any asbestos containing building materials which are part of the Renovation for compliance with OSHA 1926.1101 (k)(2)(i) and CT DPH 19a-332a-1 through 16.

For sampling, EPA Wet Methods are used to prevent fiber release. Building materials sampled are analyzed at our laboratory by EPA method 600/R-93/116. This is currently the approved EPA Test method, which uses Polarized Light Microscopy with Dispersion Staining. The laboratory is accredited by NIST/NVLAP and AIHA, and is a Connecticut Approved Environmental Laboratory for Asbestos Analysis.

**ASBESTOS PRE-RENOVATION INSPECTION
SITE 026 (BURNS) – 3 MARSH ROAD, WESTPORT, CT
APPLICATION #1846
CS#183-481, 7/1/2014, PAGE 3 OF 5**

INSPECTION REPORT SYNOPSIS

LOCATION NAME AND ADDRESS: Site 026 (Burns), Application #1846
3 Marsh Road, Westport, CT

INSPECTION DATE(S): 7/1/2014

QUALIFICATIONS: The Inspection was conducted by Daniel P. Sullivan:

- EPA & State of Connecticut Accredited Asbestos Inspector, Project Monitor & Project Designer
- State of Connecticut Licensed Asbestos Inspector/Management Planner (#000019)
- State of Connecticut Licensed Asbestos Project Monitor (#000036)
- State of Connecticut Licensed Asbestos Project Designer (#000096)

Dan was assisted by Leigh Honorof.

For information about Chem Scope, Inc., log onto <http://www.chem-scope.com>.

FINDINGS: The following asbestos containing materials (ACM) were detected in the Scope of the Inspection:

<u>MATERIAL</u>	<u>LOCATION</u>	<u>~FOOTAGE</u>
<u>INTERIOR:</u>		
Brown hard linoleum flooring with black sticky mastic (under blue fibrous wood and linoleum flooring with brown fibrous backing, on wood*)	1-4 Kitchen+CL	190 sq ft
	1-5 Back Hall+2CL	40 sq ft
	Total	230 sq ft
<u>EXTERIOR:</u>		
Hard gray fibrous ACM “transite” siding shingles (walls to crawlspace, nailed to wood)	Sides A, B,C and D	450 sq ft
Black sticky ACM roof flashing tar (along wall adjacent 2 nd Floor)	Porch Roof	< 3 sq ft

**ASBESTOS PRE-RENOVATION INSPECTION
SITE 026 (BURNS) – 3 MARSH ROAD, WESTPORT, CT
APPLICATION #1846
CS#183-481, 7/1/2014, PAGE 4 OF 5**

INSPECTION REPORT SYNOPSIS (cont)

The following is a summary table of the materials that tested as non-Asbestos Containing Material (ACM) (<1%) within the Scope of Work (not already summarized above):

Material	Location	Sample #'s	Findings
Orange hard mortar with white hard grout, (under 4" white ceramic floor tile)	1-6 Bath	183-481-5,6	No Asbestos Detected
White hard grout (between 4" white ceramic floor tile)	1-6 Bath	183-481-7,8	No Asbestos Detected
White and off-white crumbly sheetrock taping compound	Throughout	183-481-9,10,11,26,27,28	<1%Chrysotile Asbestos*
Grey crumbly sheetrock and brown fibrous paper backing	Throughout	183-481-12,13,14,29,30,31	No Asbestos Detected
White crumbly textured ceiling coat with white facecoat (on sheetrock)	1-3 Living Rm	183-481-15,16,17	No Asbestos Detected
Grey hard grout White hard grout and white hard mortar, (from beneath white hard geometric ceramic floor tile)	2-4 Bath	183-481-(18-25)	No Asbestos Detected
Brown fibrous particle board (from above sheetrock ceiling)	Second Floor	183-481-32,33	No Asbestos Detected
Brown & red fibrous paper on black sticky glue (on pink fibrous fiberglass)	Attic	183-481-34,35	No Asbestos Detected
Silver& red fibrous paper on black sticky glue (on pink fibrous fiberglass)	Attic	183-481-36,37	No Asbestos Detected
Black fibrous tar paper (from under side shingles)	Exterior Siding	183-481-38,39	No Asbestos Detected
Black fibrous shingles with grey, black, white and green granules and Black fibrous shingles with white and black granules	Roofs	183-481-40,41,43	No Asbestos Detected

* Materials with <1% asbestos (sheetrock taping compound) are not defined as asbestos containing materials in DPH and EPA regulations. However, OSHA regulations require proper procedures be used to prevent exposure to workers performing the related disturbance. This includes training and protection for employees who may be exposed above the OSHA PEL.

LIMITATIONS OF INSPECTION

It is important to note that every effort is made to detect asbestos (ACM) in the path of the renovation by our inspectors. It is not practical or prudent to demolish the work area during an inspection. The owner should be aware of this in case suspect materials or concealed suspect materials are uncovered during the actual renovation.

If suspect materials that were previously not accessible or not sampled during this inspection are discovered during the renovation, or if the scope of the renovation changes to include disturbance of new materials not inspected, then renovation must stop and the materials must be sampled by a CT DPH licensed asbestos inspector prior to disturbance of these materials.

**ASBESTOS PRE-RENOVATION INSPECTION
SITE 026 (BURNS) – 3 MARSH ROAD, WESTPORT, CT
APPLICATION #1846
CS#183-481, 7/1/2014, PAGE 5 OF 5**

RECOMMENDATIONS

All Asbestos Containing Materials (ACM) detected in the path of the inspection must be removed prior to the disturbance of these materials. Asbestos removal is regulated by federal and state agencies. Abatement work must be done by a licensed asbestos abatement contractor using proper procedures and practices, including containment, decontamination facilities, negative air units and trained and CT DPH licensed workers. Final re-occupancy testing is also required, if the building is going to be reoccupied after the asbestos removal and strongly recommended even if the building is not going to be re-occupied such as in the case of building demolition, for removal of greater than three (3) sq. ft or linear ft of ACM. A CT DPH Licensed Project Monitor is always required for final visual inspections after asbestos removal.

Please also keep in mind that notification to the DPH is required for asbestos abatement involving greater than 10 linear feet or 25 square feet of or for any demolition. Disposal of all ACM is regulated by EPA and the Connecticut DEEP; an EPA approved landfill must be used.

For removal of the ACM transite panels: If the contractor is able to remove the ACM transite panels (by removing the entire panel intact) then the removal does not constitute asbestos abatement as defined by Section 19a-332 of the Connecticut General Statutes. In this case, the ACM must be undamaged and non-friable and remain undamaged and non-friable during the removal. (See enclosed CT-DPH Circular Letter #2003-10). If it is determined that the ACM transite panel will not be removed intact, then the abatement work must be done by a licensed asbestos abatement contractor using proper procedures and practices. In either case, the ACM must be disposed of in an EPA Approved Landfill for asbestos.

OSHA regulations 1926.1101 requires that before asbestos removal or repair work (class I, II or III work) is initiated, building owners/facility owners must notify their own employees and employers who are bidding on such work, of the quantity and location of ACM or PACM (presumed asbestos containing material) present in such areas. Also for inadvertently discovered ACM or PACM there is a 24-hour notification requirement to the owner and all employers at the site.

Materials with <1% asbestos (such as the sheetrock taping compound) are not defined as asbestos containing materials in DPH and EPA regulations. However, OSHA regulations require proper procedures be used to prevent exposure to workers performing the related disturbance. This includes training and protection for employees who may be exposed above the OSHA PEL.

If you have any questions or need more information please call me. Thank you for calling on us.

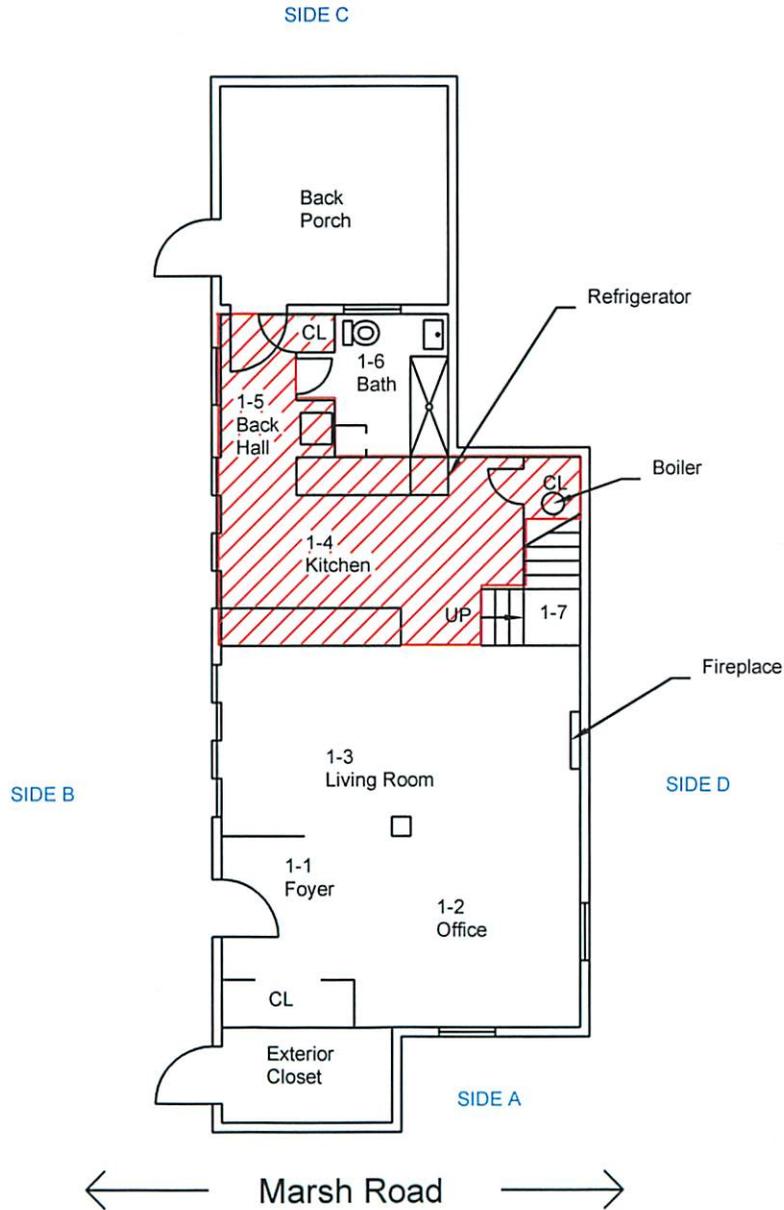
Sincerely,



Dan Sullivan
Vice President, Operations

ChemScope Inc.

Site 026 - Main Level
 3 Marsh Road, Westport, CT
 CS# 183-481, 7/1/14



LEGEND OF SYMBOLS

Location of ACM flooring in Scope of Inspection

NOTATIONS

See Report for Details

DRAWN BY
 LEIGH HONOROF

ChemScope Inc.

SHEET TITLE

ASBESTOS, LEAD &
 MOLD INSPECTION

3 MARSH RD
 WESPORT, CT

MAIN LEVEL

CHEMSCOPE NUMBER
 CS# 183-481

DRAWING NUMBER

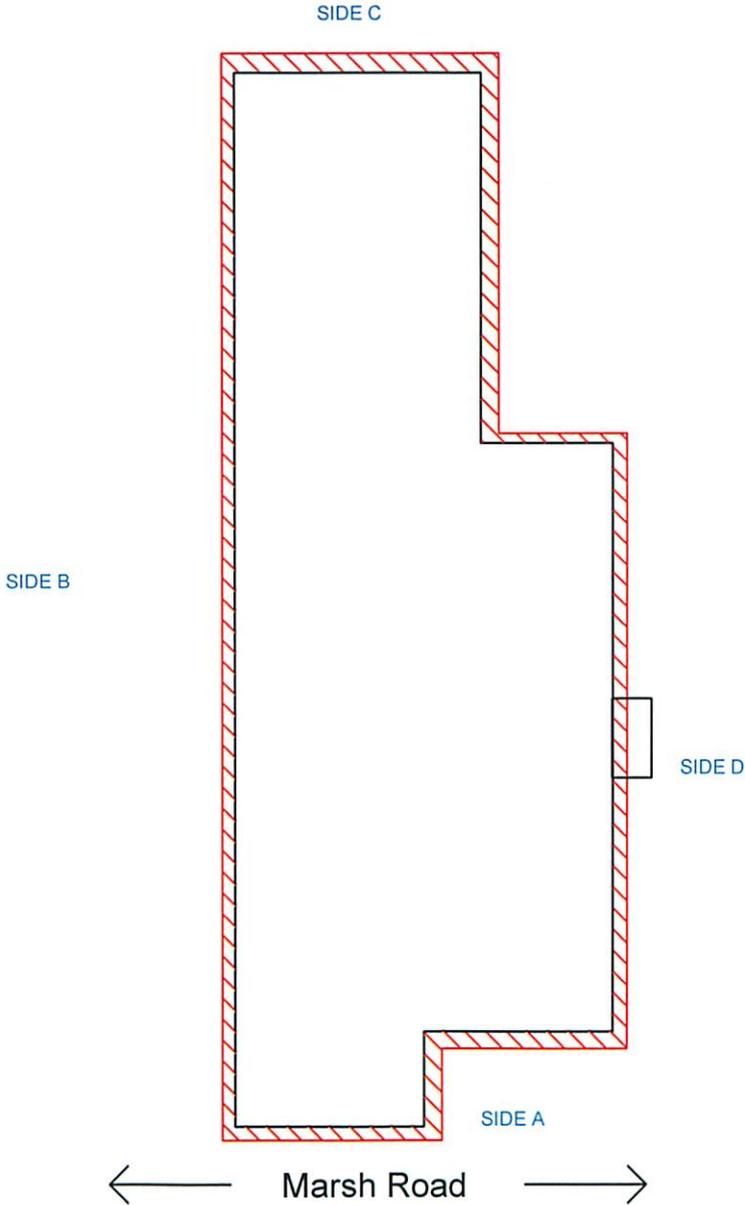
SCALE
 NOT TO SCALE

1ACM

DATE
 07/01/2014

ChemScope Inc.

Site 026 - Roof & Exterior
 3 Marsh Road, Westport, CT
 CS# 183-481, 7/1/14



LEGEND OF SYMBOLS

 Location of ACM Transite Panels in Scope of Inspection

NOTATIONS

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SHEET TITLE

ASBESTOS, LEAD &
 MOLD INSPECTION

3 MARSH RD
 WESPORT, CT

ROOF
 & EXTERIOR

CHEMSCOPE NUMBER
CS# 183-481

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3ACM

DATE
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3 Marsh Road, Westport, CT
CS# 183-481, 7/1/14

SIDE C

SIDE B

SIDE D

SIDE A

← Marsh Road →

LEGEND OF SYMBOLS

 Location of ACM Roof Flashing
In Scope of Inspection

NOTATIONS

DRAWN BY
LEIGH HONOROF

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SHEET TITLE

**ASBESTOS, LEAD &
MOLD INSPECTION**

**3 MARSH RD
WESPORT, CT**

**ROOF
& EXTERIOR**

CHEMSCOPE NUMBER
CS# 183-481

DRAWING NUMBER

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3 RF

DATE
07/01/2014

Certificate Of Analysis

Diversified Technology Consultants (DTC) - Scott Feulner

2321 Whitney Avenue

Suite 301

Hamden CT 06518

7/9/2014

CS# 183-481

Page 1 of 8

Bulk sample(s) from Site 026 (Burns) - Application #1846, 3 Marsh Road, Westport, CT collected by Leigh Honorof on 7/1/2014

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification

Findings (Analyzed 7/9/14)

183-481-1 Blue fibrous wood and linoleum floor covering with brown fibrous paper backing (on styrofoam sheeting on plastic sheeting on wood on brown hard linoleum on black sticky mastic on wood) / 1-4 Kitchen

Not Analyzed

183-481-2 Blue fibrous wood and linoleum floor covering with brown fibrous paper backing (on styrofoam sheeting on plastic sheeting on wood on brown hard linoleum on black sticky mastic on wood) / 1-4 Kitchen

Not Analyzed

183-481-3 Brown hard linoleum flooring on black sticky mastic (under wood, on wood) / 1-4 Kitchen

*5% Chrysotile Asbestos (point counted)
87% Non- Fibrous Particles
8% Volatile on Ignition*

183-481-4 Brown hard linoleum flooring on black sticky mastic (under wood, on wood) / 1-4 Kitchen

Not Analyzed

183-481-5 Orange hard mortar (with white hard grout, under 4" white ceramic floor tile) / 1-6 Bath

*<1% Chrysotile Asbestos (point counted)
49% Non- Fibrous Particles
51% Volatile on Ignition*

Bulk sample(s) from Site 026 (Burns) - Application #1846, 3 Marsh Road, Westport, CT collected by Leigh Honorof on 7/1/2014

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification

Findings (Analyzed 7/9/14)

183-481-6 Orange hard mortar (with white hard grout, under 3.5" white ceramic covebase tile) / 1-6 Bath

*No Asbestos Detected
12% Non- Fibrous Particles
88% Volatile on Ignition*

183-481-7 White hard grout (from sample #5, between 4" white ceramic floor tile) / 1-6 Bath

*No Asbestos Detected
96% Non- Fibrous Particles
4% Volatile on Ignition*

183-481-8 White hard grout (from sample #6, between 3.6" white ceramic covebase tile) / 1-6 Bath

*No Asbestos Detected
92% Non- Fibrous Particles
8% Volatile on Ignition*

183-481-9 White crumbly sheetrock taping compound (from sample #6, behind 3.6" white ceramic covebase tile) / 1-6 Bath

*No Asbestos Detected
93% Non- Fibrous Particles
7% Volatile on Ignition*

183-481-10 White crumbly sheetrock taping compound (with grey crumbly sheetrock and brown fibrous paper backing, from ceiling) / 1-4 Kitchen

*No Asbestos Detected
95% Non- Fibrous Particles
5% Volatile on Ignition*

183-481-11 Off white crumbly sheetrock taping compound (with grey crumbly sheetrock and brown fibrous paper backing, from wall) / 1-1 Foyer

*<1% Chrysotile Asbestos (point counted)
79% Non- Fibrous Particles
21% Volatile on Ignition*

183-481-12 Grey crumbly sheetrock and brown fibrous paper backing (from wall) / 1-5 Back Hall

*No Asbestos Detected
83% Non- Fibrous Particles
17% Volatile on Ignition*

Bulk sample(s) from Site 026 (Burns) - Application #1846, 3 Marsh Road, Westport, CT collected by Leigh Honorof on 7/1/2014

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification

Findings (Analyzed 7/9/14)

183-481-13 Grey crumbly sheetrock and brown fibrous paper backing (from sample #10) / 1-4 Kitchen

*No Asbestos Detected
59% Non- Fibrous Particles
15% Fiberglass
26% Volatile on Ignition*

183-481-14 Grey crumbly sheetrock and brown fibrous paper backing (from sample #11) / 1-1 Foyer

*No Asbestos Detected
79% Non- Fibrous Particles
21% Volatile on Ignition*

183-481-15 White crumbly textured ceiling coat with white facecoat (on sheetrock) / 1-3 Living room

*No Asbestos Detected
80% Non- Fibrous Particles
20% Volatile on Ignition*

183-481-16 White crumbly textured ceiling coat with white facecoat (on sheetrock) / 1-3 Living Room

*No Asbestos Detected
80% Non- Fibrous Particles
20% Volatile on Ignition*

183-481-17 White crumbly textured ceiling coat with white facecoat (on sheetrock) / 2-5 Hall

*No Asbestos Detected
86% Non- Fibrous Particles
14% Volatile on Ignition*

183-481-18 Grey hard grout (with white hard mortar, from beneath white hard geometric ceramic floor tile) / 2-4 Bath

*No Asbestos Detected
96% Non- Fibrous Particles
4% Volatile on Ignition*

183-481-19 Grey hard grout (with white hard mortar, from beneath white hard geometric ceramic floor tile) / 2-4 Bath

*No Asbestos Detected
96% Non- Fibrous Particles
4% Volatile on Ignition*

Bulk sample(s) from Site 026 (Burns) - Application #1846, 3 Marsh Road, Westport, CT collected by Leigh Honorof on 7/1/2014

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification

Findings (Analyzed 7/9/14)

183-481-20 White hard mortar (from sample #18, from between white hard geometric ceramic floor tiles) / 2-4 Bath

*No Asbestos Detected
93% Non- Fibrous Particles
7% Volatile on Ignition*

183-481-21 White hard mortar (from sample #19, from between white hard geometric ceramic floor tiles) / 2-4 Bath

*No Asbestos Detected
92% Non- Fibrous Particles
8% Volatile on Ignition*

183-481-22 White hard grout (with white hard mortar from between white hard 4" ceramic shower tiles) / 2-4 Bath

*No Asbestos Detected
53% Non- Fibrous Particles
47% Volatile on Ignition*

183-481-23 White hard grout (from between white hard 4" ceramic shower tiles) / 2-4 Bath

*No Asbestos Detected
54% Non- Fibrous Particles
46% Volatile on Ignition*

183-481-24 White hard mortar (from sample #22, from beneath white hard 4" ceramic shower tiles) / 2-4 Bath

*No Asbestos Detected
52% Non- Fibrous Particles
48% Volatile on Ignition*

183-481-25 White hard mortar (from beneath white hard 4" ceramic shower tiles) / 2-4 Bath

*No Asbestos Detected
86% Non- Fibrous Particles
14% Volatile on Ignition*

183-481-26 Off white crumbly sheetrock taping compound (with grey crumbly sheetrock and brown fibrous paper backing, from wall) / 2-3 Bed 3

*<1% Chrysotile Asbestos (point counted)
81% Non- Fibrous Particles
19% Volatile on Ignition*

Bulk sample(s) from Site 026 (Burns) - Application #1846, 3 Marsh Road, Westport, CT collected by Leigh Honorof on 7/1/2014

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification

Findings (Analyzed 7/9/14)

183-481-27 White crumbly sheetrock taping compound (with grey crumbly sheetrock and brown fibrous paper backing, from wall) / 2-4 Bath

*No Asbestos Detected
95% Non- Fibrous Particles
5% Volatile on Ignition*

183-481-28 White crumbly sheetrock taping compound (with grey crumbly sheetrock and brown fibrous paper backing, from ceiling) / 2-5 Hall

*No Asbestos Detected
77% Non- Fibrous Particles
23% Volatile on Ignition*

183-481-29 Grey crumbly sheetrock and brown fibrous paper backing (from sample #26) / 2-3 Bed 3

*No Asbestos Detected
76% Non- Fibrous Particles
24% Volatile on Ignition*

183-481-30 Grey crumbly sheetrock and brown fibrous paper backing (from sample #27) / 2-4 Bath

*No Asbestos Detected
77% Non- Fibrous Particles
23% Volatile on Ignition*

183-481-31 Grey crumbly sheetrock and brown fibrous paper backing (from sample #28) / 2-5 Hall

*No Asbestos Detected
79% Non- Fibrous Particles
21% Volatile on Ignition*

183-481-32 Brown fibrous particle board (from above sheetrock ceiling) / 2-5 Hall

*No Asbestos Detected
2% Non- Fibrous Particles
98% Volatile on Ignition*

183-481-33 Brown fibrous particle board (from above sheetrock ceiling) / 2-5 Hall

*No Asbestos Detected
6% Non- Fibrous Particles
94% Volatile on Ignition*

Bulk sample(s) from Site 026 (Burns) - Application #1846, 3 Marsh Road, Westport, CT collected by Leigh Honorof on 7/1/2014

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification

Findings (Analyzed 7/9/14)

*183-481-34 Brown & red fibrous paper on black sticky glue
(on pink fibrous fiberglass) / Attic*

*No Asbestos Detected
18% Non- Fibrous Particles
4% Fiberglass
78% Volatile on Ignition*

*183-481-35 Brown & red fibrous paper on black sticky glue
(on pink fibrous fiberglass) / Attic*

*No Asbestos Detected
2% Non- Fibrous Particles
7% Fiberglass
91% Volatile on Ignition*

*183-481-36 Silver& red fibrous paper on black sticky glue
(on pink fibrous fiberglass) / Attic*

*No Asbestos Detected
18% Non- Fibrous Particles
5% Fiberglass
77% Volatile on Ignition*

*183-481-37 Silver& red fibrous paper on black sticky glue
(on pink fibrous fiberglass) / Attic*

*No Asbestos Detected
17% Non- Fibrous Particles
4% Fiberglass
79% Volatile on Ignition*

*183-481-38 Black fibrous tar paper (from under side
shingles) / Exterior side C, near garbage cans*

*No Asbestos Detected
14% Non- Fibrous Particles
86% Volatile on Ignition*

*183-481-39 Black fibrous tar paper (from under side
shingles) / Exterior side A*

*No Asbestos Detected
20% Non- Fibrous Particles
80% Volatile on Ignition*

*183-481-40 Black fibrous shingles with grey, black, white
and green granules (over exterior closet, 2 layers of shingle) /
Roof*

*No Asbestos Detected
62% Non- Fibrous Particles
38% Volatile on Ignition*

Bulk sample(s) from Site 026 (Burns) - Application #1846, 3 Marsh Road, Westport, CT collected by Leigh Honorof on 7/1/2014

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification

Findings (Analyzed 7/9/14)

183-481-41 Black fibrous shingles with white and black granules (over 2-3) / Roof

*No Asbestos Detected
66% Non- Fibrous Particles
17% Fiberglass
17% Volatile on Ignition*

183-481-42 Black fibrous flashing tar () / Chimney

*15% Chrysotile Asbestos
46% Non- Fibrous Particles
39% Volatile on Ignition*

183-481-43 Black fibrous shingles with white facecoat (on wood) / Front fascia

*No Asbestos Detected
64% Non- Fibrous Particles
36% Volatile on Ignition*

183-481-44 Grey hard/fibrous paneling (on foundation, nailed to wood) / Exterior crawlspace

*15% Chrysotile Asbestos
82% Non- Fibrous Particles
3% Volatile on Ignition*

PARAMETERS
ASBESTOS PLM ANALYSIS
(Revised 3/22/13)

1. *Materials which contain >1% asbestos (greater than 1%) by PLM (polarizing light microscopy) analysis are considered to be asbestos containing materials under EPA and the State of Connecticut Regulations. OSHA still regulates material with <1%. (Contact laboratory for information.) {Note: A more sensitive method is available called TEM (transmission electron microscopy). TEM may detect asbestos fibers that PLM cannot see, but the above agencies' enforcement is based on PLM analysis. Rules may differ for states other than Connecticut. It is best to check with the individual state. For example, New York State requires TEM confirmation of negative PLM results on floor tile}.*
2. *If no asbestos is detected in a sample, or if the asbestos content is less than 1% by PLM, additional samples of the same material should be submitted for confirmation. Please check with the laboratory for guidance on the number of samples needed. Sample collection in Connecticut must be by a DPH Licensed Asbestos Inspector. Many other states also require licensing.*
3. *Floor Tile Mastic: Mastic under floor tile should be separately sampled by scraping some of the mastic from the floor to avoid contamination from the floor tile.*
4. *Although Chem Scope, Inc. takes great effort to insure accuracy in the estimation of asbestos in the materials analyzed, no quantitation method is without some uncertainty. Based on independent calibration studies and comparison of Chem Scope's quantitative results with NVLAP and AIHA round robin programs we estimate our uncertainty in quantitation to be relatively small. The average relative uncertainty of the estimate is calculated to be 35% for samples that contain less than 10% asbestos. This means a estimate of 10% asbestos in a sample has a probable range of 6.5% to 13.5% while an estimate of 1% has a range of 0.65% to 1.35%.*
5. *The presence of non-asbestos components, which are recognized by the PLM analyst, is reported with the estimated amounts. This is not an exhaustive analysis for the non-asbestos materials since the primary purpose is to determine if asbestos is present and, if so, how much is present of each type of asbestos.*
6. *Results reported apply only to the sample(s) analyzed.*
7. *Special treatment of samples: Chem Scope, Inc. routinely uses gravimetric sample reduction techniques such as low temperature ashing or acid dissolution on samples like floor tile, roofing materials, glue dots, or high cellulose content samples prior to PLM analysis. These methods are used to aid in the PLM analysis and to provide better quantitative data. Layered samples, if possible, are analyzed separately as individual layers. However, in accordance with the method, if any layer contains >1% asbestos (greater than 1%) it is to be considered an asbestos containing material. All results are reported to the original sample basis.*
8. *Sample results are not corrected for blanks. Analytical blanks are run daily and if contamination is suspected the samples are rerun.*
9. *Chem Scope, Inc. performs "400 point" point counting when the asbestos content is visually estimated to be less than 10%. There is no additional charge for this analysis.*

The Scope of Accreditation referenced in this report applies to bulk asbestos fiber analysis by PLM (Polarized Light Microscopy).

Accreditation does not imply endorsement by NVLAP, NIST or any Federal or State Agency.

This report pertains only to the samples tested and may not be reproduced in part.

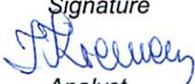
Condition of the samples at the time of receipt was acceptable unless otherwise noted on the Certificate of Analysis.

See test parameters above and attached chain of custody form.

We would love to hear from you. Comments? Questions? Please call or email us at chem.scope@snet.net.

ChemScope, Inc. is accredited by AIHA LAP, LLC LAB #100134
NVLAP Lab Code 101061-0.

Connecticut Department of Public Health (DPH) Approved Environmental Lab PH 0581

Signature  Analyst	Signature (if applicable)  Inspector	Authorized Signature or Suzanne Cristante Laboratory Director	Authorized Signature or Izabela Kremens Quality Manager	Authorized Signature  Ronald Arena President
-------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------	---------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------

Dear Laboratory Customer or Potential Customer,

New laboratory accreditation standards require us to provide our clients information about our services to make sure that your requirements for testing are adequately defined, documented and understood. The following is for your information. Please call us if you have any questions or comments.

Type of Samples:

- / / PCM cassettes are routinely run by NIOSH Method 7400.
- / / Bulk materials are run by EPA Method: #600/R-93/116.

Air Samples: NIOSH 7400 Method counts all fibers. This method may be used for personal air samples and for finals. Two field blanks must be submitted for each set of samples. In the unlikely event that there is to be any deviation from the standard test, you will be consulted by phone before the work begins. Those clients who have not had NIOSH 582 or AHERA asbestos training courses (either supervisor or project monitor) should consult with the lab director for more information. The test parameters are further explained in the analytical report.

Bulk materials: sampled are analyzed by the latest EPA Method: (#600/R-93/116) which uses polarized light microscopy (PLM). When asbestos is detected and the amount is estimated to be <10%, we automatically point count the samples. When there are interfering substances present, we may use ashing, acid washing or other procedures described in the method to handle the interference. Those clients who have not had AHERA asbestos training courses (either inspector, supervisor or project designer) should consult with the lab director for more information. The test parameters are further explained in the analytical report.

All Samples must be clearly labeled with source name and identification number or sufficient information from the client to make this sample uniquely identified. (We will then add our notebook #, page # (batch) and unique number within the batch.) Samples must be in a clean, air tight package such as a zip loc bag. Appropriate completed paperwork must accompany the sample. Bulk and air samples may not be submitted in the same package.

As soon as available bench top results will be faxed to you and reports will then be mailed. We will retain air samples for at least three months and bulk samples for 6 months unless you advise us otherwise.

You are welcome to visit the laboratory at any time to discuss the work, monitor the work or verify our testing services. We appreciate your business and encourage any feedback regarding improving our services or our quality system. Please take a minute to complete the following survey and mail/fax it to ChemScope, Inc.

Customer Service Survey

To help us improve our services give your opinions to the following:

- 1- The printed laboratory report was complete and easy to understand. YES NO
If no, please explain _____.
- 2- The turn around time for results met your expectations/needs. YES NO
If no, please explain _____.
- 3- How likely are you to recommend ChemScope Inc. to someone?
 Excellent Very Good Good Fair Poor
- 4- How likely are you to return to ChemScope in the future if the need arises?
 Excellent Very Good Good Fair Poor
5. On a scale of 1 to 5 where 1 represents "Satisfied" and 5 represents "Dissatisfied", how would you rate your level of overall satisfaction.
 1 2 3 4 5
- 6- Please add any additional comments or suggestions that would be helpful when you use our services:

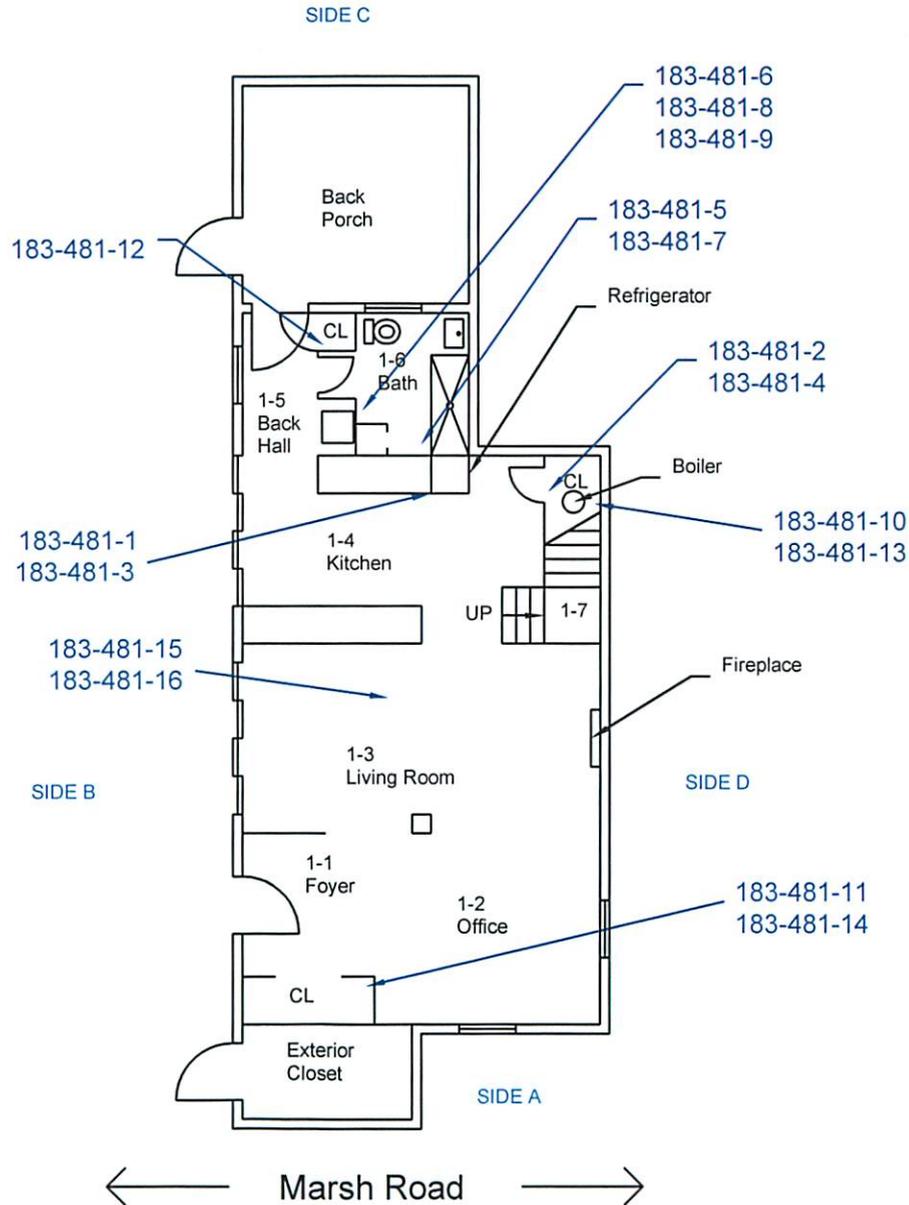
Name _____ Company _____
Address _____ Telephone/e-mail _____

Can we contact you regarding this survey? YES NO

ChemScope Inc.

Site 026 - Main Level
 3 Marsh Road, Westport, CT
 CS# 183-481, 7/1/14

BULK SAMPLE LOCATION DRAWING



LEGEND OF SYMBOLS

Symbol	Description
1	BULK SAMPLE LOCATIONS

NOTATIONS

DRAWN BY
 LEIGH HONOROF

ChemScope Inc.

SHEET TITLE
ASBESTOS, LEAD & MOLD INSPECTION
3 MARSH RD WESTPORT, CT
MAIN LEVEL

CHEMSCOPE NUMBER
 CS# 183-481

DRAWING NUMBER

SCALE
 NOT TO SCALE

1 B

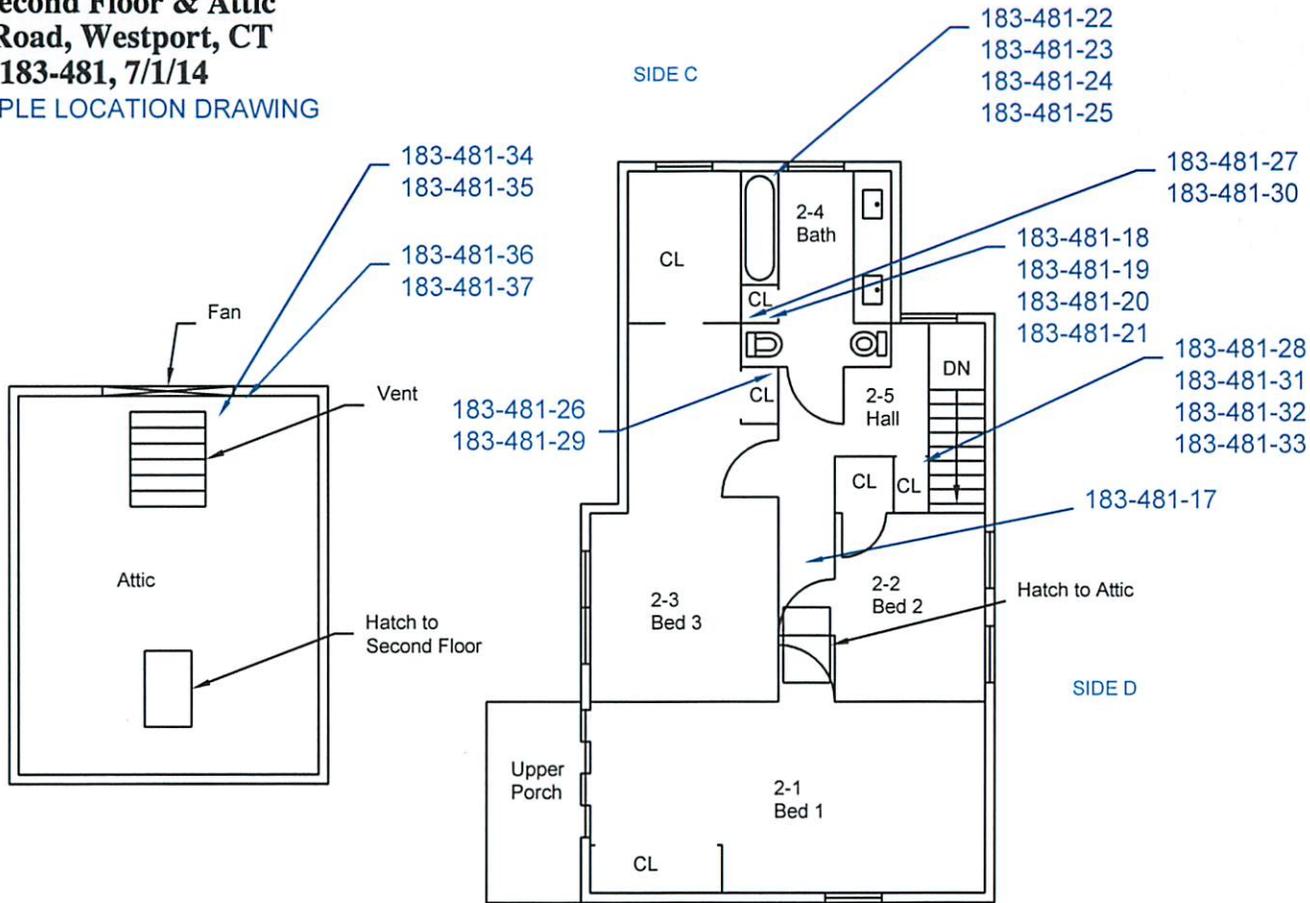
DATE
 07/01/2014



ChemScope Inc.

Site 026 - Second Floor & Attic
3 Marsh Road, Westport, CT
CS# 183-481, 7/1/14

BULK SAMPLE LOCATION DRAWING



LEGEND OF SYMBOLS

1 BULK SAMPLE LOCATIONS

NOTATIONS

DRAWN BY
LEIGH HONOROF

ChemScope Inc.

SHEET TITLE
ASBESTOS, LEAD & MOLD INSPECTION
3 MARSH RD WESPORT, CT
SECOND FLOOR & ATTIC

CHEMSCOPE NUMBER:
CS# 183-481

DRAWING NUMBER

SCALE
NOT TO SCALE

2 B

DATE
07/01/2014



LEGEND OF SYMBOLS

1 BULK SAMPLE LOCATIONS

NOTATIONS

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LEIGH HONOROF

ChemScope Inc.

SHEET TITLE:

**ASBESTOS, LEAD &
MOLD INSPECTION**

**3 MARSH RD
WESPORT, CT**

**ROOF
& EXTERIOR**

CHEMSCOPE NUMBER
CS# 183-481

DRAWING NUMBER

SCALE
NOT TO SCALE

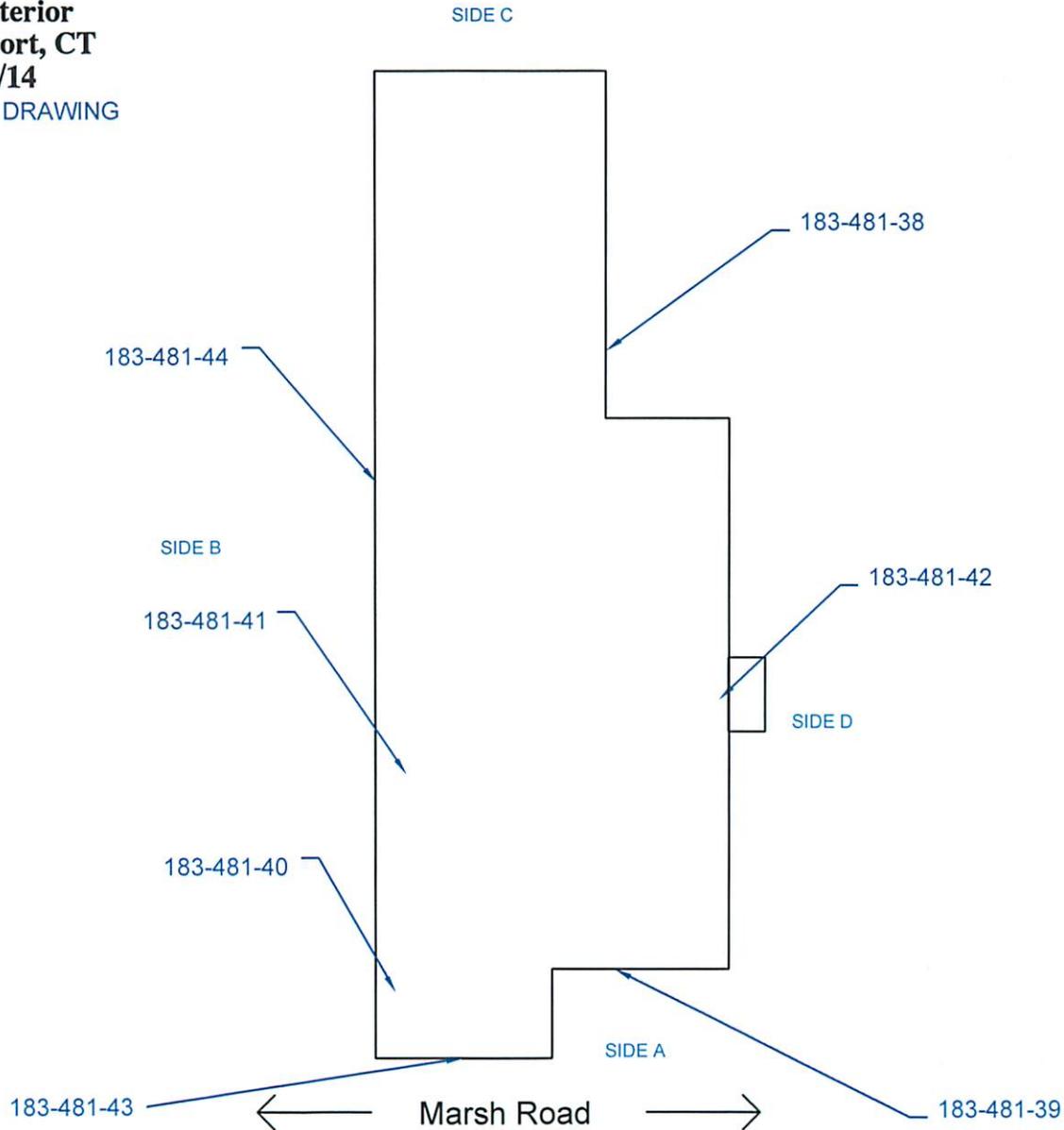
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DATE
07/01/2014

ChemScope Inc.

Site 026 - Roof & Exterior
3 Marsh Road, Westport, CT
CS# 183-481, 7/1/14

BULK SAMPLE LOCATION DRAWING





STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

Division of Environmental Health Circular Letter #2003-10

To: Licensed Project Designers, Licensed Asbestos Abatement Contractors and Connecticut Approved Asbestos Training Providers

From: Ronald Skomro, Supervising Environmental Sanitarian
Asbestos Program

Date: April 7, 2003

Subject: Regulatory Interpretation Regarding Intact Removal of Non-Friable Asbestos-Containing Materials

A request for regulatory interpretation was made by a licensed asbestos consultant to the Department of Public Health (DPH) concerning the applicability of the DPH regulations to activities involving intact non-friable asbestos-containing materials within a facility. This memorandum addresses the DPH response to the scenarios presented. The following is a list of those activities detailed by the consultant:

- Removal of transite panels by unbolting or unscrewing and removing the panels intact;
- Removal of transite lab-type desk tops by either unbolting or unscrewing and removing the desk top intact, or complete component removal of the entire desk;
- Removal of flexible duct connectors by either unbolting or unscrewing and removing the connector intact, or complete component removal of the entire connector and small portions of the surrounding ductwork;
- Removal of countertops, backsplashes, etc., with linoleum, panel glue, or similar materials by completely removing the entire unit intact;
- Removal of sinks with pan sealant by removing the sink intact;
- Removal of window sashes with window glazing (interior or exterior) by removing the window stops and removing the entire window sash unit intact;
- Picking up loose floor tiles that have become completely disassociated with the floor and are either whole or are slightly broken but are still not considered to be Regulated Asbestos-Containing Material (RACM);
- Picking up loose miscellaneous non-friable items such as rolls of linoleum, loose gaskets, loose shingles, etc.;
- Removal of fire doors containing insulation from their hinges intact for complete component disposal;
- Attaching framing, brackets, etc., to structures by using power actuated tools to shoot/screw/bolt fasteners through the framing, brackets, etc., and through category I non-friable ACM (e.g., floor tile or mastic, cove base, waterproofing tar-like coating, asphalt roofing, gasketing, etc.). (The use of drills or similar tools to drill pilot holes or holes through the materials is not allowed.)

Phone: (860) 509-7367, Fax: (860) 509-7367

Telephone Device for the Deaf (860) 509-7191

410 Capitol Avenue - MS #51AIR

PO Box 340308 Hartford CT 06134

Affirmative Action /An Equal Opportunity Employer



It is the interpretation of the DPH that the activities that are detailed above do not constitute asbestos abatement as defined by Section 19a-332 of the Connecticut General Statutes. Given this interpretation, such activities are not subject to DPH regulation. This interpretation is provided based upon the following understandings:

1. The asbestos-containing material is undamaged and non-friable and remains undamaged and non-friable during the removal or collection of the material. In the case of floor tile characterized as "slightly broken", a case-by-case assessment should be made to determine whether the removal of the tile constitutes asbestos abatement. The DPH shall be contacted directly when such activities are contemplated.
2. The asbestos-containing material is removed intact and without breakage or other disturbance of the material. The material is removed without the creation of a visible residue.
3. The asbestos-containing material is not subject to sanding, cutting, grinding, or abrading during the removal or collection process.
4. The asbestos-containing material does not become a RACM as defined by the asbestos National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61, Subpart M).

It should be noted that asbestos-containing waste generated as a result of these activities must be disposed of as asbestos waste at an authorized waste disposal facility. Questions regarding the disposal of asbestos-containing material within the State of Connecticut should be directed to the Connecticut Department of Environmental Protections at (860) 424-3366.

This interpretation does not relieve the owner of the facility in which these activities are performed, or the operator of these activities from complying with the provisions of all other applicable federal, state, or local regulations.

ChemScope INDUSTRIAL HYGIENE • ENVIRONMENTAL CHEMISTRY

15 Moulthrop Street, North Haven, CT 06473-3686 • Phone (203) 865-5605 • Fax (203) 498-1610

Scott Feulner
Diversified Technology Consultants (DTC)
2321 Whitney Avenue, Suite 301
Hamden, CT 06518

7/28/2014

**PRELIMINARY MOLD ASSESSMENT
SITE 026 (BURNS) – 3 MARSH ROAD, WESTPORT, CT
APPLICATION #1846
CS#183-481, 7/1/2014, PAGE 1 OF 5**

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Recommendations	4-5
Limitations of Assessment	5

Attachments:

- Site Drawings – 3 page(s)

Report Distribution:

Scott Feulner, DTC Scott.Feulner@teamdtc.com
Curtis Graham, DTC graham.curtis@teamdtc.com
Michael Casey, DTC michael.casey@teamdtc.com

File Location:

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This investigation and information provided in this report depends partly on background information provided by the client. This report is intended for the use of the client. The scope of services performed may not be appropriate for other users and any use of this report by third parties is at their sole risk. This report is intended to be used in its entirety. No excerpts may be taken to be representative of this report.

It is possible that hidden mold may be growing inside the building cavities. Some floor, wall or ceiling demolition would be needed to find hidden mold.

**PRELIMINARY MOLD ASSESSMENT
SITE 026 (BURNS) – 3 MARSH ROAD, WESTPORT, CT
APPLICATION #1846
CS#183-481, 7/1/2014, PAGE 2 OF 5**

INTRODUCTION

EXECUTIVE SUMMARY: Based on our assessment, the only suspect mold growth seen was on the fiberglass batt insulation and the wood subfloor ceiling in the crawlspace. All materials tested from the first and second floor were dry at the time of our assessment.

BUILDING DESCRIPTION: The subject building is a single-family, two-story contemporary-style house totaling approximately 1500 sq ft, which was built in 1978 of wood-frame construction. Heat is supplied from a furnace in the mechanical closet off the kitchen. There is a crawlspace under the house. The heat, water and electricity were all on. The house was occupied during our inspection.

BACKGROUND: We understand the subject house suffered damage as a result of hurricane Sandy on October 29-30, 2012. The house is scheduled to be renovated. Based on the storm damage the following items are scheduled for removal and replacement: raise dwelling above the base flood elevation, gut interior to studs, inspect and structurally reinforce to code, new sprayed foam insulation to code, replace drywall, roofing and siding, restore interior walls, floors, and trim, replace kitchen cabinets and appliances, replace first floor bathroom, new mechanical, electrical and plumbing systems, rebuild rear screened-in porch, new deck, new wood stairs at front and rear to access the raised structure.

INSPECTION AND TESTING: Dan Sullivan of Chem Scope, Inc. was at the site on 7/1/2014 to conduct the subject tests. Most of the doors and windows were open at the time of our inspection, which was normal given the weather conditions. Our work included:

- Visual inspection
- Temperature/Humidity and Moisture in building materials

SCOPE OF WORK: Our client has hired us to do a preliminary mold assessment of the first floor and crawlspace, where there was past water damage.

MOLD ASSESSMENT REPORT SYNOPSIS

Observations from Visual Inspection/temperature and humidity testing:

We arrived on site at around 8:00 AM. It was raining at the time of our assessment. The temperature at the time of our assessment was about 80 deg F. We were let into the house by our client and the homeowner. There was no visible mold or noticeable smells/odors in the first floor and second floor rooms. The bathroom had suspect surface mold or mildew on some walls and the ceiling.

There were a few water stains on the first floor sheetrock ceilings. All materials tested on the first floor and second floor had <25% WME (wood moisture equivalents).

The crawlspace has a soil floor and a bare wood ceiling. There are no stored materials in the crawlspace. There is fiberglass batt insulation with visible suspect mold growth. There is also visible suspect mold growth on the wood ceiling to the crawlspace and on wooden beams and framing. The soil is a naturally occurring place where mold is certain to be present and now wet we have to assume there is mold growth, which is not likely to become visible.

Continued

**PRELIMINARY MOLD ASSESSMENT
SITE 026 (BURNS) – 3 MARSH ROAD, WESTPORT, CT
APPLICATION #1846
CS#183-481, 7/1/2014, PAGE 3 OF 5**

MOLD ASSESSMENT REPORT SYNOPSIS (cont)

The temperature and humidity, inside vs outside was determined using a sling psychrometer. Normal dew point levels are generally considered between 10 and 21 °C (50 and 69 °F). In areas with dew points under 10 °C (50 °F), the air is considered too dry. In areas with dew points above 21 °C (69 °F), the air is considered too humid. Normal relative humidity for a house is 30-50% depending on the outdoor climate. Humidity and dew points in the house were normal for the exterior conditions that day in the house with the windows open. The humidity in the crawlspace was elevated as expected given the conditions of the day and a damp soil crawlspace floor.

Table 1 - Temperature & Humidity Results (7/1/2014, Pressure 759 mm Hg)

Location	Dry Bulb (°F) (Room / Air Temperature)	Wet Bulb (°F)	%RH	Dew Point (°F)
1-2 Office	79.5	73	73	70
1-3 Living Rm	79	73	75	70
1-4 Kitchen	79	73	75	70
1-5 Bathroom	79	73	75	70
2-1 Bedroom	81	74	72	71
2-3 Bedroom	80	74	75	72
Crawlspace	79	74	79	72
Exterior	80	72	68	68

A Protimeter Moisture Measurement System (Marlow England) was used to measure the amount of moisture in various surfaces and materials in terms of wood moisture equivalents (WME). This device has two pin-point probes, which are inserted in the surface and the conductivity is used to measure moisture in the material as % H₂O. Moisture is important to detect potential biological growth. The normal amount of moisture in each material varies with humidity. Materials which have >30% H₂O are relatively damp and may be wet enough to permit mold growth. A material with 70% H₂O is very wet and likely to have mold growth. This instrument does not measure below 7% moisture, which is considered bone dry. This device was also used to test for room temperature, % relative humidity and dew point. The dew point is a measure of the absolute amount of water in the air and is more useful in comparisons than the relative humidity, which is also affected by temperature.

A Summary of the moisture readings and visual inspection is listed in Table below:

Table 2 – Visible Mold and % Moisture in Building materials (4/29/2014)

Room / Material	% Moisture (WME)	Notes
1-2 and 1-3 / carpeting on wood	10-16%	No visible mold
First Floor / Sheetrock walls	10-20%	No visible mold
First Floor / Wood paneling walls	10-20%	No visible mold
First Floor / Sheetrock ceilings areas with stains	9-20%	No visible mold
First Floor / Sheetrock ceilings areas without stains	< 10%	No visible mold
Crawlspace/ Soil Floor	20-75%	No visible mold
Crawlspace/ Fg batt insulation and wooden ceilings	20-75%	Visible Mold

**PRELIMINARY MOLD ASSESSMENT
SITE 026 (BURNS) – 3 MARSH ROAD, WESTPORT, CT
APPLICATION #1846
CS#183-481, 7/1/2014, PAGE 4 OF 5**

MOLD ASSESSMENT REPORT SYNOPSIS (cont)

General Information about Mold: EPA does not call for routinely air testing for mold in assessment. Mold is always present indoors and outdoors and is a natural and necessary part of the environment. There are no Connecticut or federal health based standards for molds. EPA and other agencies report that molds have the potential to cause health effects. The main concerns are people with allergies, asthma and compromised immune systems. There are thousands of mold species, and many are not yet identified. There is much more to learn and new information is becoming available regularly. In mold assessment, we strive to detect moisture problems that cause excessive biological growth and when appropriate, recommend a plan of corrective action. When moisture problems occur, mold growth is likely if organic materials are not promptly dried up. Hidden mold may exist which cannot be seen without demolition.

RECOMMENDATIONS

See our separate Asbestos Pre-Renovation Inspection Report and Lead Pre-renovation XRF Screening Report for details regarding asbestos and lead present in these areas.

In general, correction of water damage requires first eliminating the source of the water. With the house being raised there should be a great increase in the ventilation below the house, which should address the excess humidity in the crawlspace. Raising the structure and installing a concrete foundation will also address the potential for mold in the soil of the crawlspace.

Instructions for Moisture Remediation: These instructions are intended for trained moisture/mold remediation contractors who are familiar with the terms used and skilled in the operations involved in moisture/mold remediation. Although no mold was seen on sheetrock walls, based on the homeowner's previous renovations, mold is assumed to exist inside the wall cavities and the following instructions should be used:

For the Crawlspace:

1. The work area must be unoccupied except for authorized personnel during subsequent work. Use poly to isolate the work areas from the rest of the building.
2. Negative air must be used to purge out the areas using HEPA filtered blowers, at least 2000 CFM per area. Negative air must be exhausted outside.
3. HEPA vacuums must be used for the cleanup. Thorough HEPA vacuuming is essential.
4. Remove all fiberglass batt insulation as mold contaminated.
5. Abrasively clean any visible mold from the crawlspace. Abrasive removal should be done within a negative pressure containment or enclosure and cleaned using HEPA vacuums and tack cloths.
6. Some demolition may be necessary to access all of the suspect mold growth.
7. Clean out any debris and clean all surfaces. With the owner's approval, spray cleaned surfaces, especially wall cavities with mold inhibitor. Quaternary ammonium compounds are preferred mold growth inhibitors. Only EPA/DEEP registered fungicides may be used such as Fiberloc Shockwave^R and Aftershock^R. Any product used at the contractor's discretion to kill mold or to deter future mold growth must be an EPA/DEEP registered fungicide including any sealant finishing products.

Continued

PRELIMINARY MOLD ASSESSMENT
SITE 026 (BURNS) – 3 MARSH ROAD, WESTPORT, CT
APPLICATION #1846
CS#183-481, 7/1/2014, PAGE 5 OF 5

RECOMMENDATIONS (CONT)

For the Crawlspace (cont):

8. Replace with new mold-free similar materials.
9. After the work is complete, a final visual inspection is suggested for quality control. Air samples could be run at the conclusion of the work at the owner's discretion. Any testing should be done after the negative air units have been shut off for at least a day.

Limitations of Mold Removal: It is well known in the industry that mold can never completely be removed from a site because of the constant presence of mold spores in the outdoor environment and the ability of molds to remain dormant within a building. If moisture problems recur, mold growth is likely.

For guidance on mold, log onto EPA.gov and search mold remediation or the state DPH web site.

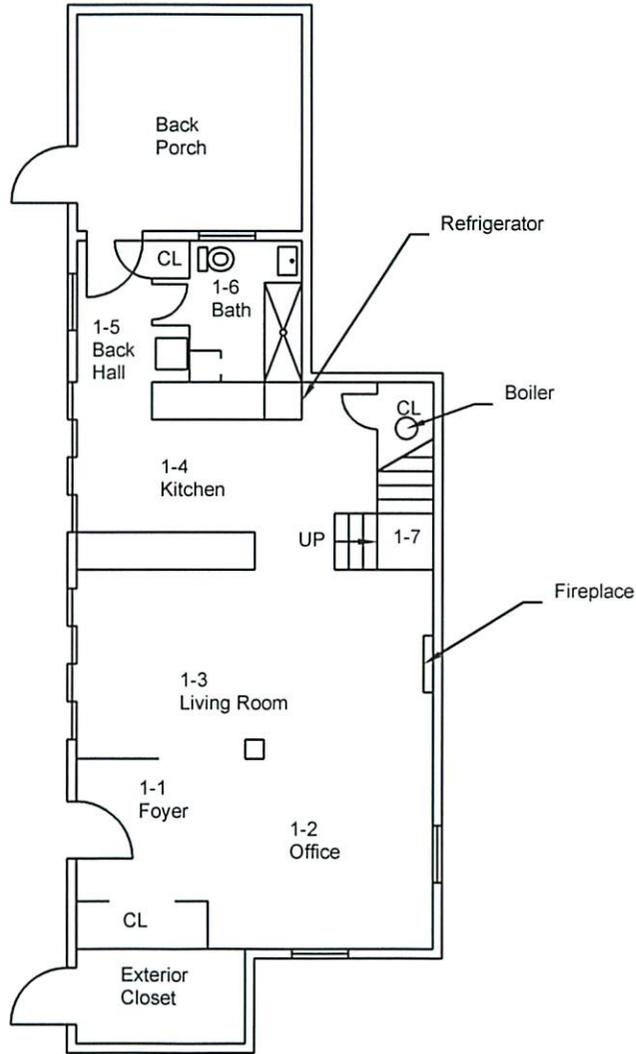
Please call me if there are any questions about this report or if you need further assistance.

Thank you for calling on us.



Dan Sullivan
Vice President, Operations

ChemScope Inc.
 Site 026 - Main Level
 3 Marsh Road, Westport, CT
 CS# 183-481, 7/1/14



← Marsh Road →



LEGEND OF SYMBOLS

1M	MOLD SAMPLE LOCATIONS

NOTATIONS

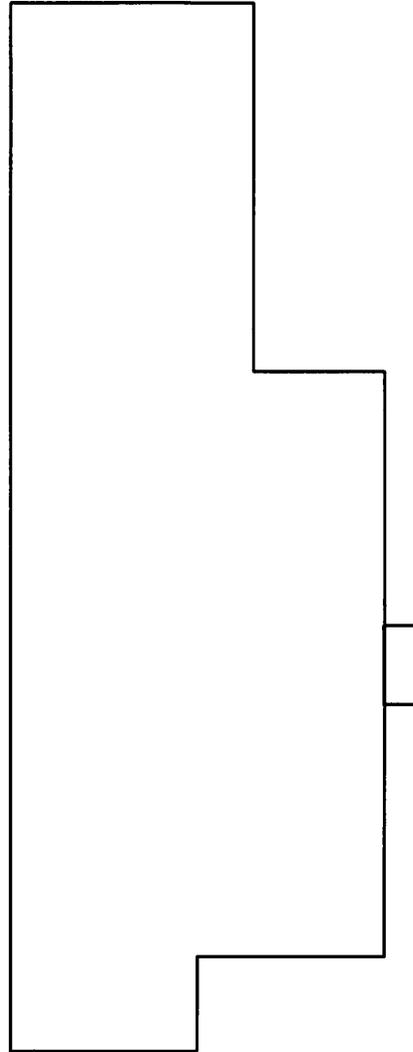
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LEIGH HONOROF

ChemScope Inc.

SHEET TITLE
ASBESTOS, LEAD & MOLD INSPECTION
3 MARSH RD
WESTPORT, CT
MAIN LEVEL

CHEMSCOPE NUMBER CS# 183-481	DRAWING NUMBER
SCALE NOT TO SCALE	1 M
DATE 07/01/2014	

ChemScope Inc.
 Site 026 - Roof & Exterior
 3 Marsh Road, Westport, CT
 CS# 183-481, 7/1/14



← Marsh Road →



LEGEND OF SYMBOLS

NOTATIONS

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LEIGH HONOROF

ChemScope Inc.

SHEET TITLE

**ASBESTOS, LEAD &
 MOLD INSPECTION**

**3 MARSH RD
 WESPORT, CT**

**ROOF
 & EXTERIOR**

<small>CHEMSCOPE NUMBER</small> CS# 183-481	<small>DRAWING NUMBER</small> 3 M
<small>SCALE</small> NOT TO SCALE	
<small>DATE</small> 07/01/2014	