



Department of Economic and  
Community Development

ATTACHMENT 1

Connecticut  
still revolutionary

2140 EE

May 20, 2014

received  
5-21-14 DOH

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

Subject: Department of Housing Superstorm Sandy Reviews  
411 Blohm Street  
West Haven, CT  
Application #2140

Dear Ms. Delaire:

The State Historic Preservation Office has reviewed the information submitted for the above-named property, in accordance with the provisions of Section 106 of the National Historic Preservation Act. It is the opinion of this office that the building located 411 Blohm Street is eligible for listing in the National Register of Historic Places as a contributing resource to a potential Historic District.

Based on the material provided, the proposed rehabilitation will have no adverse effect upon the state's cultural resources.

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

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

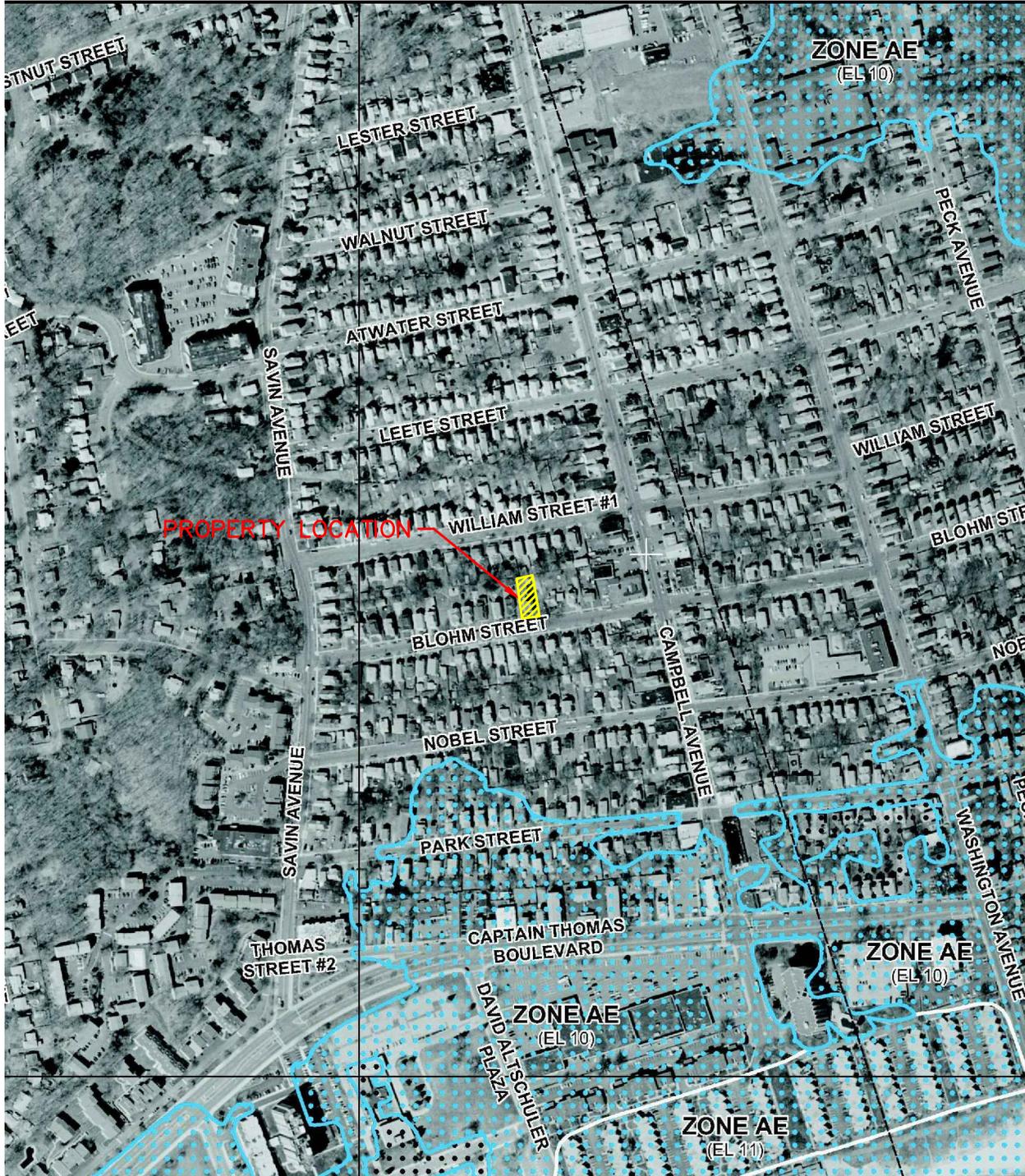
Sincerely,

Mary B. Dunne  
Deputy State Historic Preservation Officer

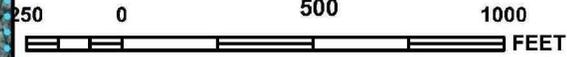
State Historic Preservation Office

One Constitution Plaza | Hartford, CT 06103 | P: 860.256.2800 | [Cultureandtourism.org](http://Cultureandtourism.org)

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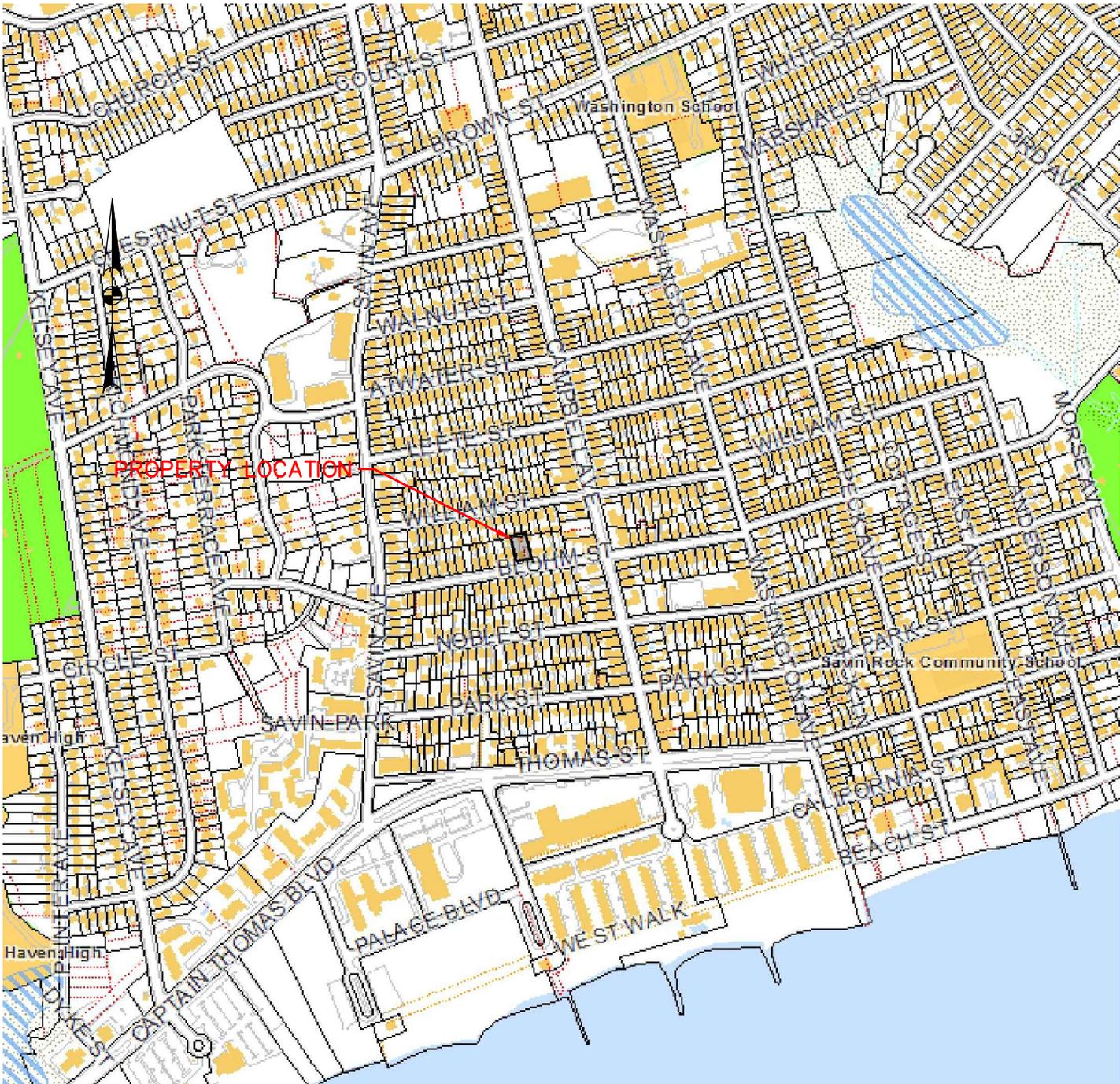


MAP SCALE 1" = 500'



- SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**  
 The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.
- ZONE A** No Base Flood Elevations determined.
  - ZONE AE** Base Flood Elevations determined.
  - ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
  - ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
  - ZONE AR** Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
  - ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
  - ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
  - ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.
- FLOODWAY AREAS IN ZONE AE**  
 The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.
- OTHER FLOOD AREAS**
- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
  - OTHER AREAS**
  - ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
  - ZONE D** Areas in which flood hazards are undetermined, but possible.
- COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**
- OTHERWISE PROTECTED AREAS (OPAs)**  
 CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.
- 1% Annual Chance Floodplain Boundary
  - 0.2% Annual Chance Floodplain Boundary
  - Floodway boundary
  - Zone D boundary
  - ..... CBRS and OPA boundary

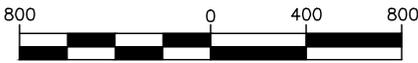
This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program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



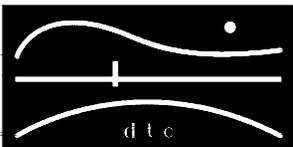
**Wetland Soil**

-  Alluvial and Floodplain Soils
-  Poorly Drained and Very Poorly Drained Soils
-  Farmland Soil

**GRAPHIC SCALE**



( IN FEET )



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

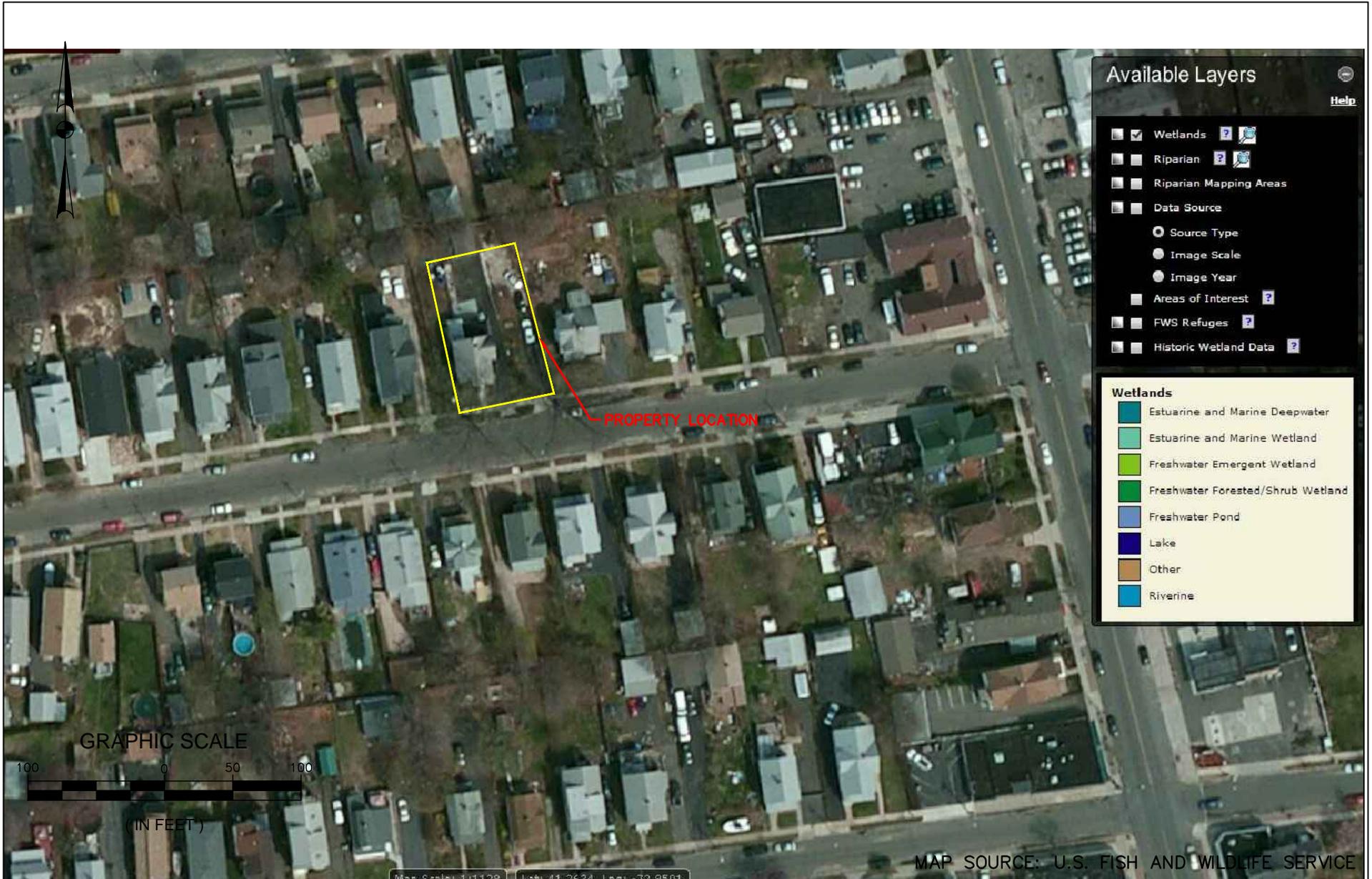
DEPARTMENT OF HOUSING  
COMMUNITY DEVELOPMENT BLOCK GRANT  
DISASTER RECOVERY

411 BLOHM STREET  
WEST HAVEN, CT

ATTACHMENT 3  
WETLANDS MAP

SCALE: 1"=800'	DRAWN BY: LEC
DATE: 06/10/2014	CHECKED BY: JAB

PROJECT NUMBER: 13-449-008	APPLICANT NO: 2140
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**Available Layers** Help

- Wetlands ?
- Riparian ?
- Riparian Mapping Areas
- Data Source
- Source Type
- Image Scale
- Image Year
- Areas of Interest ?
- FWS Refuges ?
- Historic Wetland Data ?

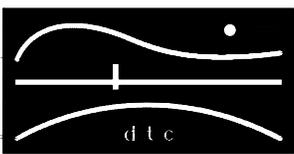
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**Wetlands**

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

Map Scale: 1:1128 | Lat: 41.2634 | Long: -72.9501

MAP SOURCE: U.S. FISH AND WILDLIFE SERVICE



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 DISASTER RECOVERY

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ATTACHMENT 4  
 FWS WETLANDS MAP

PROJECT NUMBER: 13-449-008

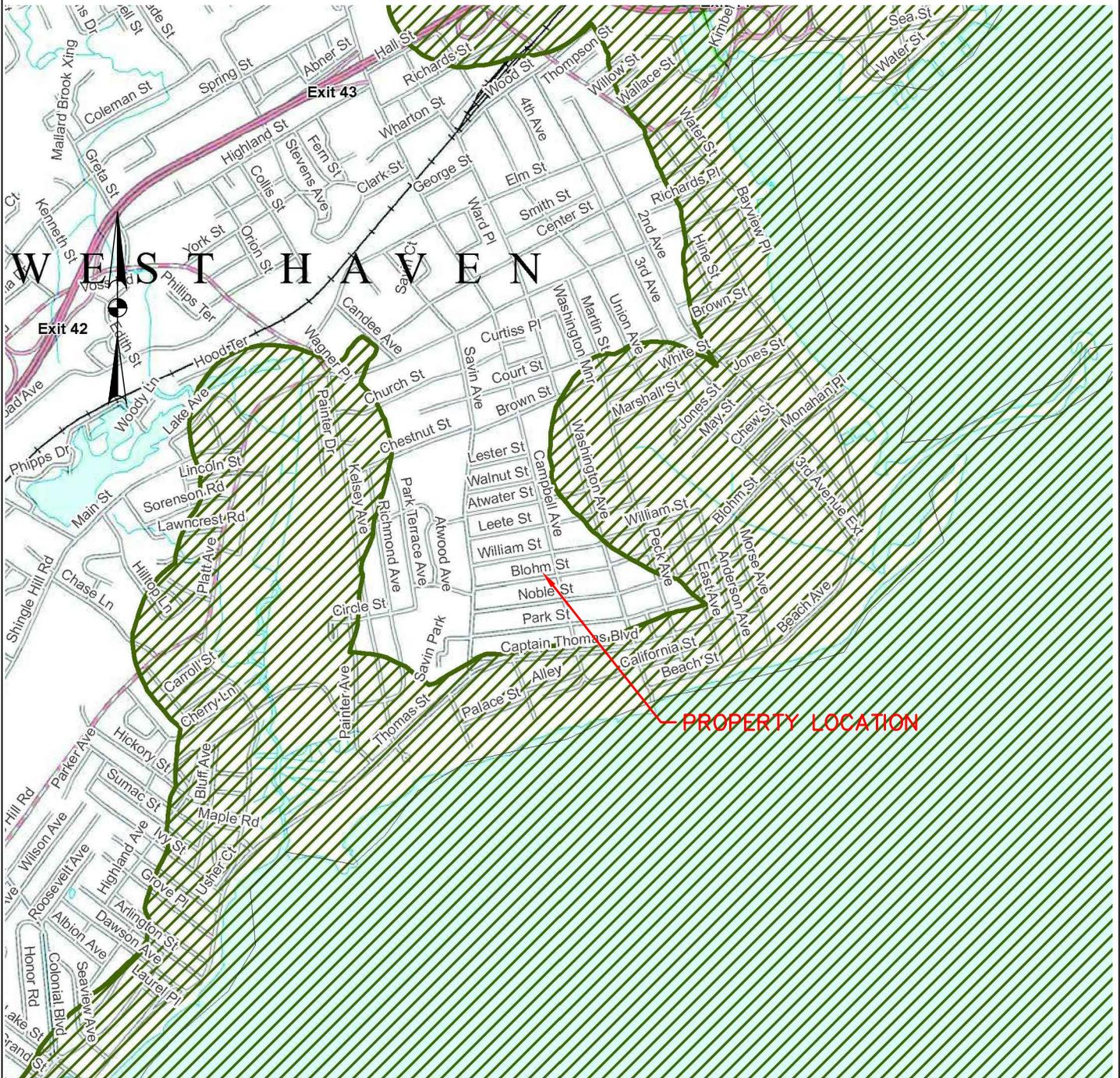
APPLICANT NO: 2140

SCALE: 1"=100'

DRAWN BY: LEC

DATE: 06/10/14

CHECKED BY: JAB

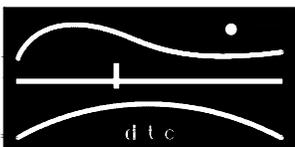


Coastal Boundary

GRAPHIC SCALE



( IN FEET )



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DEPARTMENT OF HOUSING  
COMMUNITY DEVELOPMENT BLOCK GRANT  
DISASTER RECOVERY

411 BLOHM STREET  
WEST HAVEN, CT

ATTACHMENT 5  
CAM AREA MAP

SCALE: 1"=2000'	DRAWN BY: LEC
DATE: 06/10/2014	CHECKED BY: JAB

PROJECT NUMBER: 13-449-008	APPLICANT NO: 2140
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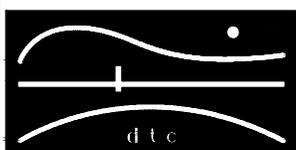


 State and Federal Listed Species and Significant Natural Communities\*

GRAPHIC SCALE



( IN FEET )



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DEPARTMENT OF HOUSING  
COMMUNITY DEVELOPMENT BLOCK GRANT  
DISASTER RECOVERY

411 BLOHM STREET  
WEST HAVEN, CT

ATTACHMENT 6  
NDDB AREAS

PROJECT NUMBER: 13-449-008    APPLICANT NO: 2140

SCALE: 1"=2000'    DRAWN BY: LEC

DATE: 06/10/2014    CHECKED BY: JAB



U.S. Fish and Wildlife Service

## Natural Resources of Concern

**This resource list is to be used for planning purposes only — it is not an official species list.**

**Endangered Species Act species list information for your project is available online and listed below for the following FWS Field Offices:**

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

***Project Name:***

411 Blohm St. West Haven, CT 06516



U.S. Fish and Wildlife Service

## Natural Resources of Concern

### *Project Location Map:*



### *Project Counties:*

New Haven, CT

### *Geographic coordinates (Open Geospatial Consortium Well-Known Text, NAD83):*

MULTIPOLYGON (((-72.9479229 41.2634364, -72.9480169 41.2639146, -72.9477704 41.2639466, -72.9476363 41.2634789, -72.9479229 41.2634364)))

### *Project Type:*

\*\* Other \*\*



U.S. Fish and Wildlife Service

## Natural Resources of Concern

### ***Endangered Species Act Species List ([USFWS Endangered Species Program](#))***

*There are no listed species found within the vicinity of your project.*

### **Critical habitats within your project area:**

*There are no critical habitats within your project area.*

### ***FWS National Wildlife Refuges ([USFWS National Wildlife Refuges Program](#))***

*There are no refuges found within the vicinity of your project.*

### ***FWS Migratory Birds ([USFWS Migratory Bird Program](#))***

Most species of birds, including eagles and other raptors, are protected under the Migratory Bird Treaty Act (16 U.S.C. 703). Bald eagles and golden eagles receive additional protection under the [Bald and Golden Eagle Protection Act](#) (16 U.S.C. 668). The Service's [Birds of Conservation Concern \(2008\)](#) report identifies species, subspecies, and populations of all migratory nongame birds that, without additional conservation actions, are likely to become listed under the Endangered Species Act as amended (16 U.S.C 1531 et seq.).

*Migratory bird information is not available for your project location.*

### ***NWI Wetlands ([USFWS National Wetlands Inventory](#))***

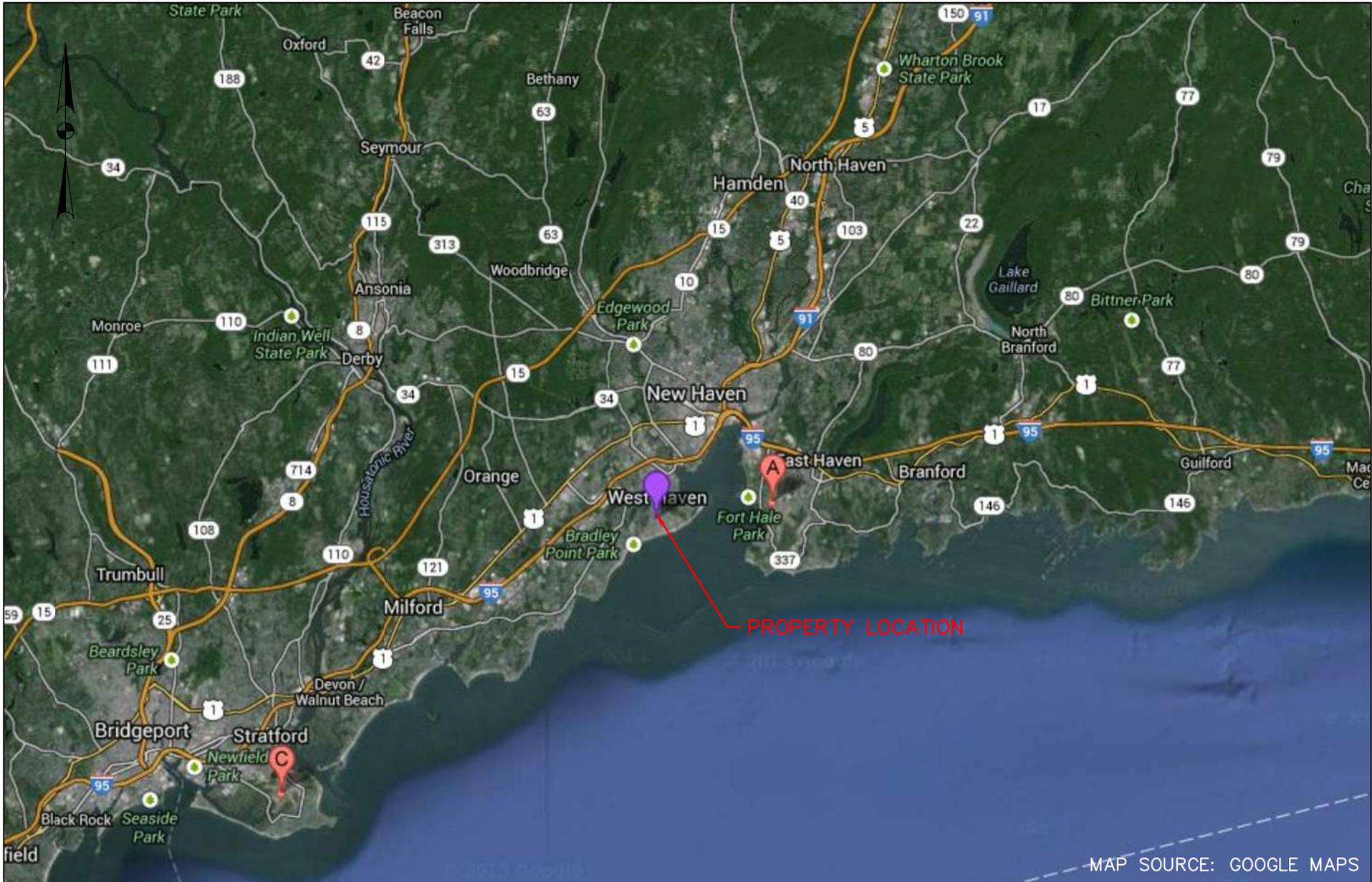
The U.S. Fish and Wildlife Service is the principal Federal agency that provides information on the extent and status of wetlands in the U.S., via the National Wetlands Inventory Program (NWI). In addition to impacts to wetlands within your immediate project area, wetlands outside of your project area may need to be considered in any evaluation of project impacts, due to the hydrologic nature of wetlands (for example, project activities may affect local hydrology within, and outside of, your immediate project area). It may be helpful to refer to the USFWS National Wetland Inventory website. The designated FWS office can also assist you. Impacts to wetlands and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes. Project Proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate [U.S. Army Corps of Engineers District](#).



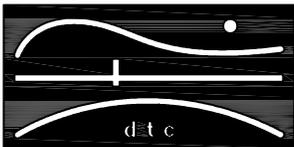
U.S. Fish and Wildlife Service

## Natural Resources of Concern

*There are no wetlands found within the vicinity of your project.*



MAP SOURCE: GOOGLE MAPS



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 Ph: 203 239 4200 Fax: 203 234 7376

DEPARTMENT OF HOUSING  
 COMMUNITY DEVELOPMENT BLOCK GRANT  
 DISASTER RECOVERY

411 BLOHM STREET  
 WEST HAVEN, CT

ATTACHMENT 8  
 AIRPORT VICINITY MAP

PROJECT NUMBER: 13-449-008

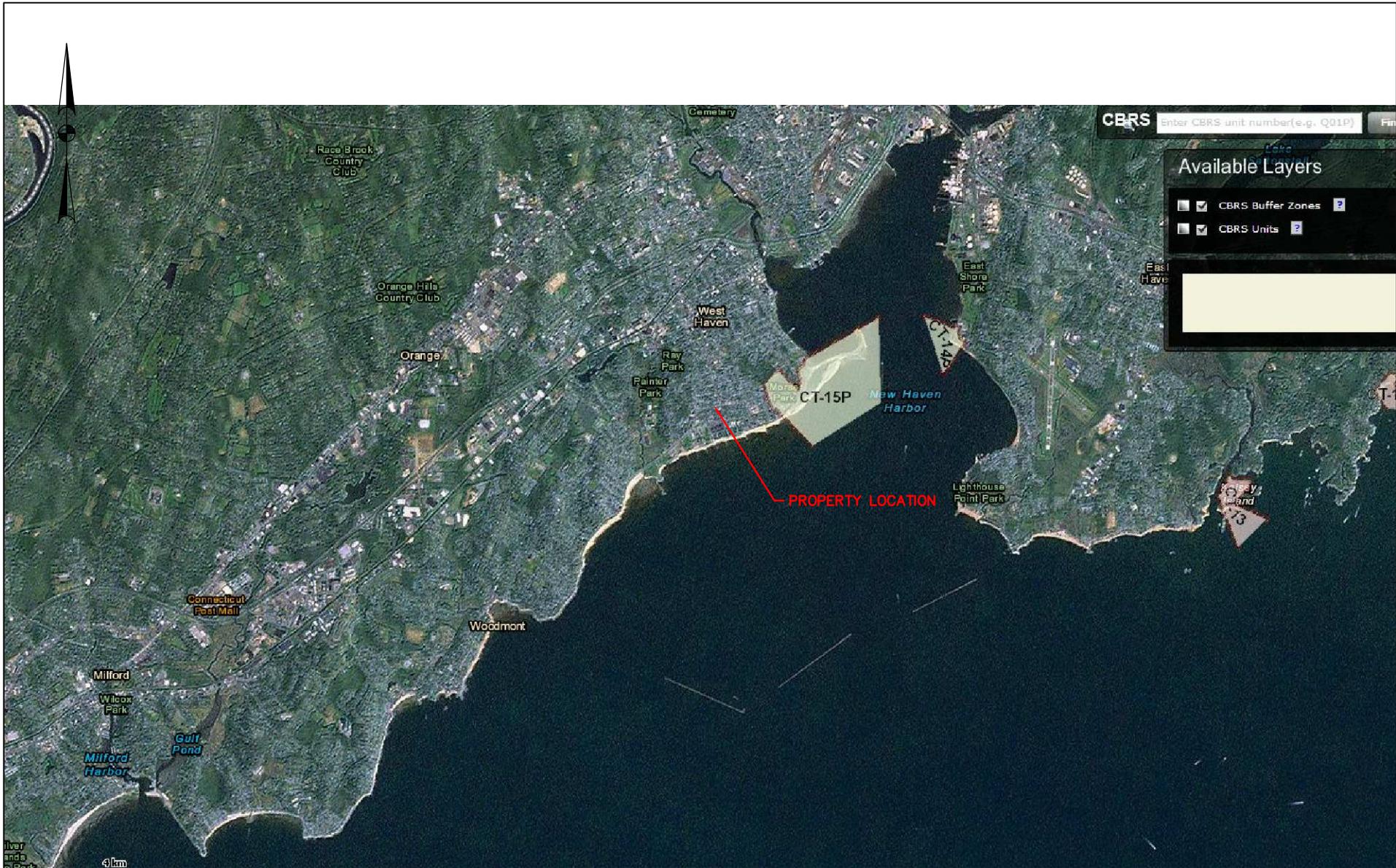
APPLICANT NO: 2140

SCALE: NTS

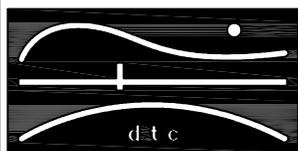
DRAWN BY: LEC

DATE: 06/10/14

CHECKED BY: JAB



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

411 BLOHM STREET  
 WEST HAVEN, CT

ATTACHMENT 9  
 COASTAL BARRIER MAP

SCALE: NTS

DRAWN BY: LEC

DATE: 06/10/14

CHECKED BY: JAB

PROJECT NUMBER: 13-449-008

APPLICANT NO: 2140

# 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

5/2/2014

**LEAD BASED PAINT PRE-RENOVATION XRF SCREENING  
SITE 008 – 411 BLOHM STREET, WEST HAVEN, CT  
APPLICATION #2140  
CS#183-77, 4/25/2014, Page 1 of 4**

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Inspection Report Synopsis	4
Recommendations	4

**Attachments:**

- Scope of Inspection Drawing – 1 page(s)
- XRF data sheets – 2 page(s)
- XRF quality evaluation sheet – 1 page(s)

**Report Distribution:**

Scott Feulner, DTC [Scott.Feulner@teamdtc.com](mailto:Scott.Feulner@teamdtc.com)  
Curtis Graham, DTC [graham.curtis@teamdtc.com](mailto:graham.curtis@teamdtc.com)  
Michael Casey, DTC [michael.casey@teamdtc.com](mailto:michael.casey@teamdtc.com)

**File Location:**

NAS AAUM-Reports\LeadInsp\DS-XRFSVY\_April2014.doc

**LEAD BASED PAINT PRE-RENOVATION XRF SCREENING  
SITE 008 – 411 BLOHM STREET, WEST HAVEN, CT  
APPLICATION #2140  
CS#183-77, 4/25/2014, Page 2 of 4**

**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) **was NOT detected** on surfaces and/or components within the scope of the inspection and are not subject to hazardous waste evaluation requirements. See report details for additional information.

**BUILDING DESCRIPTION:** The subject building is a single-family, two-story house, with an attic and basement totaling approximately 1900 sq ft, which was built in 1906 of wood-frame construction. Heat is supplied from a boiler in the basement. 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. We understand a tree limb caused damage to a basement window, and the paint on the concrete wall below that window. We understand the homeowner fixed the broken window, but the wall below it still needs to be re-painted. We understand the upper roof suffered damage and is scheduled to be replaced.

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

- XRF Screening of Lead Based Paint of representative painted surfaces on the wall below the window in the basement.
- 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.

**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 Ziyang Wang.

Chem Scope's DPH lead license # is CC000164.

**SITE 008 – 411 BLOHM STREET, WEST HAVEN, CT**  
**APPLICATION #2140**  
**CS#183-77, 4/25/2014, Page 3 of 4**

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 2<sup>nd</sup>, 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/cm<sup>2</sup> 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/cm<sup>2</sup> 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/cm<sup>2</sup> and 1.3 mg/cm<sup>2</sup>. 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.

**SITE 008 – 411 BLOHM STREET, WEST HAVEN, CT  
APPLICATION #2140  
CS#183-77, 4/25/2014, Page 4 of 4**

**INSPECTION REPORT SYNOPSIS**

**LOCATION NAME AND ADDRESS:** Site 008  
411 Blohm Street, West Haven, CT

**INSPECTION DATE(S):** 4/25/2014

**XRF TESTING RESULTS:**

**Lead as defined by OSHA and Toxic levels of lead based paint (as defined by USC Title 15 – Chapter 53- Toxic Substance Control) was not detected within scope of inspection.**

**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.

**RECOMMENDATIONS**

No further action is required at this time as Lead Based Paint was not detected within the scope of the inspection and you are exempt from evaluating the construction waste as hazardous waste. However, please keep in mind, lead related work must be done according to applicable regulations (OSHA 1926.62 and USC Title 15 – Chapter 53- Toxic Substance Control) with properly trained personnel using proper work practices and procedures including proper disposal of hazardous lead waste (CT DEEP) and proper precautions to avoid contaminating the building and exposing those present to lead dust or fumes. Before cutting or welding and preparation work, any lead-based paint identified above should be handled with proper precautions to avoid contaminating adjacent areas and exposing those present to lead dust or fumes.

Please note that OSHA 29 CFR 1926.62 requires contractors working at the site must be notified of the location of the lead even if it is not to be disturbed so they make safely work around it.

Also, refer to Chem Scope's Asbestos Pre-Renovation Inspection Report for additional details.

Sincerely,



Dan Sullivan  
Vice President, Operations

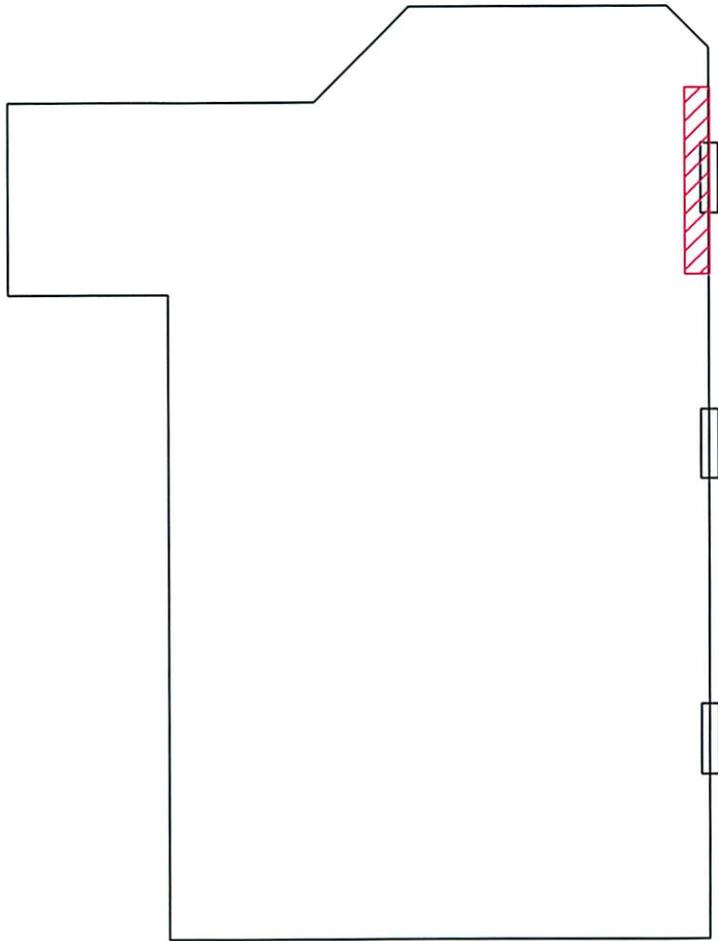
← BLOHM ST →

SIDE A

SIDE D

SIDE B

SIDE C



# ChemScope Inc.

Site 008  
411 Blohm Street, West Haven, CT  
BASEMENT  
CS# 183-77, 4-25-14

SCOPE OF INSPECTION DRAWING



### LEGEND OF SYMBOLS

 Scope of Inspection

### NOTATIONS

DRAWN BY:  
LEIGH HONOROF

**ChemScope Inc.**

SHEET TITLE:  
ASBESTOS AND  
LEAD INSPECTION  
411 BLOHM ST  
WEST HAVEN, CT

Basement

CHEMSCOPE NUMBER: CS# 183-77      DRAWING NUMBER

SCALE  
NOT TO SCALE

DATE  
4/25/14

1 S

Site Name: Site 008

Date of Inspection: 4/25/2014

Site Address: 411 Blohm Street, West Haven, CT

CS# 183-77

Customer Name: Diversified Technology Consultants (DTC)

Customer Address: 2321 Whitney Avenue, Suite 301 / Hamden, CT 06518

Work Area: Basement Wall B Page 1 of 2

Site Description: Single-Family Residential Year of Construction: 1906

Name of Individual Doing Testing: Dan Sullivan CT DPH Lic# 2131

CO-57 Date Source Installed: 11/2/2012 Software version # N/A Serial # 1647

Test #	Clock Time	NIST Calibration Standard	Results QM (mg/CM2)
1	11 <sup>00</sup> <sub>am</sub>	NIST SRM 2573 Red	1.0
2	11 <sup>01</sup>	NIST SRM 2573 Red	1.0
3	11 <sup>03</sup>	NIST SRM 2573 Red	1.0
11	11 <sup>42</sup>	NIST SRM 2573 Red	1.0
12	11 <sup>43</sup>	NIST SRM 2573 Red	1.0
13	11 <sup>44</sup>	NIST SRM 2573 Red	1.0
		NIST SRM 2573 Red	
		NIST SRM 2573 Red	
4	11 <sup>03</sup>	NIST SRM 2570 White (Blank)	-0.2
14	11 <sup>45</sup>	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/cm<sup>2</sup> 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/cm<sup>2</sup> 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, 4/25/14, PA, 5-5-14



**EVALUATING THE QUALITY OF XRF:**

Site Name: Site 008  
 Site Address: 411 Blohm Street, West Haven, CT

CS# 183-77  
 Date: 4/25/2014

Location	Original Reading	Retest Reading	Square of Original Reading	Square of Retest Reading
1. Basement - Side B - Wall	-0.1	-0.2	0.01	0.04
2. Basement - Side B - Wall	-0.4	-0.2	0.16	0.04
3. Basement - Side B - Wall	-0.2	-0.4	0.04	0.16
Sum of three squared averages ("C"):			0.21	0.24
"C" times 0.0072 ("D"):			0.001512	0.00173
"D" plus 0.032 ("E"):			0.033512	0.033728
Square root of "E" ("F"):			0.18306	0.183651845
"F" times 1.645 (Retest Tolerance Limit):			<b>0.3011</b>	0.3021
 Average of the three XRF Readings:			 -0.23	 -0.27
 Absolute difference of the two averages:			 <b>0.0333</b>	

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

# ChemScope INDUSTRIAL HYGIENE • ENVIRONMENTAL CHEMISTRY

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

5/2/2014

**ASBESTOS PRE-RENOVATION INSPECTION  
SITE 008 – 411 BLOHM STREET, WEST HAVEN, CT  
APPLICATION #2140  
CS#183-77, 4/25/2014, Page 1 of 4**

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**Attachments:**

- Scope of inspection drawing-1 page
- ACM location drawing-1 page
- PLM Certificate of Analysis report with chain of custody-5 pages
- Sample location drawing-1 page

**Report Distribution:**

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**File Location:**

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**ASBESTOS PRE-RENOVATION INSPECTION  
SITE 008 – 411 BLOHM STREET, WEST HAVEN, CT  
APPLICATION #2140  
CS#183-77, 4/25/2014, Page 2 of 4**

**INTRODUCTION**

**EXECUTIVE SUMMARY:** Asbestos containing materials (ACM) were detected within the scope of this inspection and will need to be properly removed (abated) and disposed of prior to renovation that would disturb these materials. See Inspection Report Synopsis and Recommendation sections for further details.

**BUILDING DESCRIPTION:** The subject building is a single-family, two-story house, with an attic and basement totaling approximately 1900 sq ft, which was built in 1906 of wood-frame construction. Heat is supplied from a boiler in the basement. 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. We understand a tree limb cause damaged to a basement window, and the paint on the concrete wall below that window. We understand the homeowner fixed the broken window, but the wall below it still needs to be re-painted. We understand the upper roof suffered damage and is scheduled to be replaced.

**SCOPE OF INSPECTION:** Asbestos Pre-Renovation Inspection of the upper roof only at 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 008 – 411 BLOHM STREET, WEST HAVEN, CT**  
**APPLICATION #2140**  
**CS#183-77, 4/25/2014, Page 3 of 4**

INSPECTION REPORT SYNOPSIS

**LOCATION NAME AND ADDRESS:** Site 008, Application #2140  
411 Blohm Street, West Haven, CT

**INSPECTION DATE(S):** 4/25/2014

**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 Ziyang Wang. 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:

<b><i>MATERIAL</i></b>	<b><i>LOCATION</i></b>	<b><i>~FOOTAGE</i></b>
<b>Black ACM roof flashing tar</b> (at penetrations, roof joints, patch areas, etc.)	<b>Upper Roof</b>	<b>10 sq ft</b>

**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):**

<b>Material</b>	<b>Location</b>	<b>Sample #'s</b>	<b>Findings</b>
Black fibrous roof shingle with white granules (on black fibrous roof shingle with red granules on black fibrous paper on wood)	Upper Roof	183-77-3,4	No Asbestos Detected
Black fibrous roof shingle with red granules (under Black fibrous roof shingle with white granules, on black paper on wood)	Upper Roof	183-77-5,6	No Asbestos Detected
Black fibrous paper (under two layers of shingles, on wood)	Upper Roof	183-77-7,8	<1%Chrysotile Asbestos*

\* Materials with <1% asbestos (such as the black fibrous paper) 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 entire roof 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 008 – 411 BLOHM STREET, WEST HAVEN, CT**  
**APPLICATION #2140**  
**CS#183-77, 4/25/2014, Page 4 of 4**

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 and disposal is regulated by federal and state agencies.

In the case of asbestos roofing abatement there is a Memorandum of Understanding (MOU) between OSHA and the National Roofing Contractors Association (NRCA), dated 3/15/95, on how to remove asbestos roofing. Regardless of whether the material is friable or non-friable, DEEP disposal regulations apply.

Since Intact Incidental ACM roofing, which includes cements, coatings, mastics, and flashings, was detected within the scope of this inspection, the removal is to be by individuals with a minimum of OSHA 8-hour roof training. The Intact Incidental ACM roofing is currently non-friable and as long as it stays non-friable by utilizing the manual methods outlined in OSHA 1926.1101(g)(11)(iii) notification to the CT DPH is not required. The recommended manual methods outlined by OSHA include but not be limited to the use of spud, spade, flat-blade or slicing tools, such as axes, mattocks, pry bars, spud bars, crow bars, shovels, flat-blade knives, and utility knives, to slice, cut, strip-off, shear-under, or pry-up the material.

Also, 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.

General Work Requirements for Intact Incidental ACM Roofing Removal (according to OSHA 1926.1101 and MOU between OSHA and NRCA):

- Before work begins and as needed during the job, a competent person shall conduct an inspection of the worksite and determine that the roofing material is intact and will likely remain intact.
- All employees performing work involving only intact incidentals shall be trained (minimum OSHA 8-hour roof training).
- The materials shall not be sanded, abraded, or ground. Manual methods as outlined above in OSHA 1926.1101(g)(11)(iii), that do not render the material non-intact shall be used.
- Material that has been removed shall not be dropped or thrown to the ground. Unless the material is carried or passed to the ground by hand it shall be lowered to the ground via covered, dust-tight chute, crane, or hoist. All such material shall be removed from the roof as soon as practicable, but no later than the end of the workshift. Then properly packaged for disposal.

Materials with <1% asbestos (such as the black fibrous paper) 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.

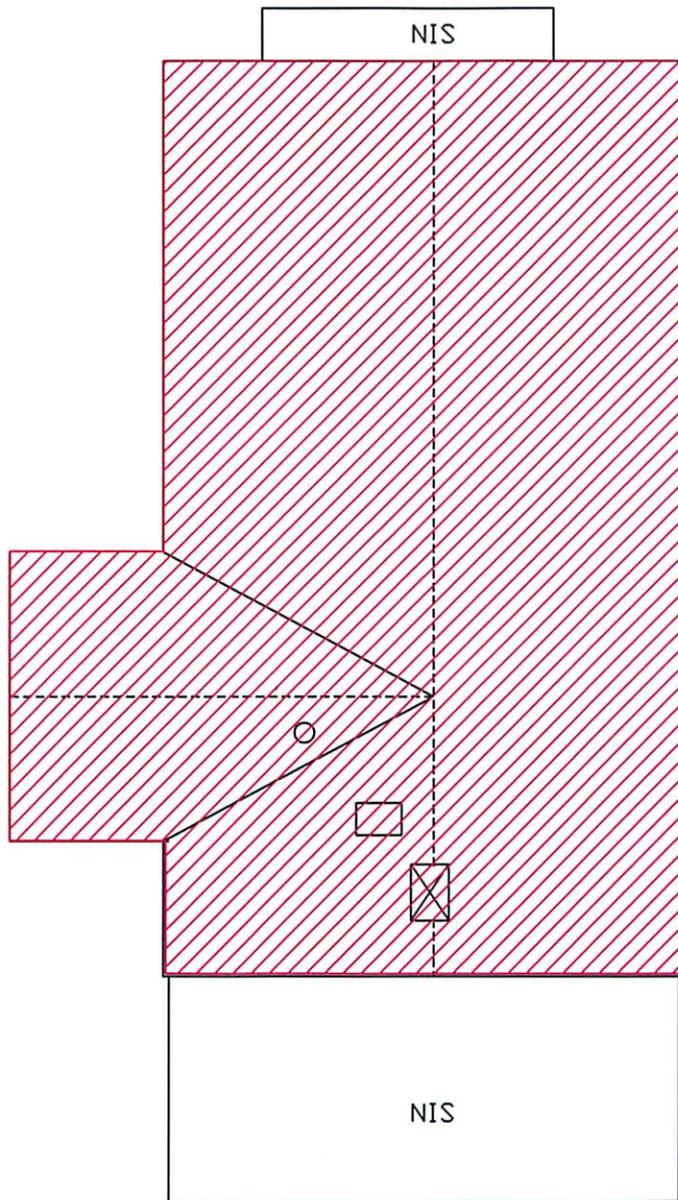
If you have any questions or need more information please call me.

Sincerely,



Dan Sullivan  
Vice President, Operations

← BLOHM ST →



# ChemScope Inc.

Site 008

411 Blohm Street, West Haven, CT

ROOF

CS# 183-77, 4-25-14

SCOPE OF INSPECTION DRAWING



### LEGEND OF SYMBOLS

 Scope of Inspection

NIS Not in Scope

### NOTATIONS

DRAWN BY:  
DAN SULLIVAN

**ChemScope Inc.**

SHEET TITLE:  
**ASBESTOS AND  
LEAD INSPECTION**  
**411 BLOHM ST  
WEST HAVEN, CT**

Roof

CHEMSCOPE NUMBER:  
CS# 183-77

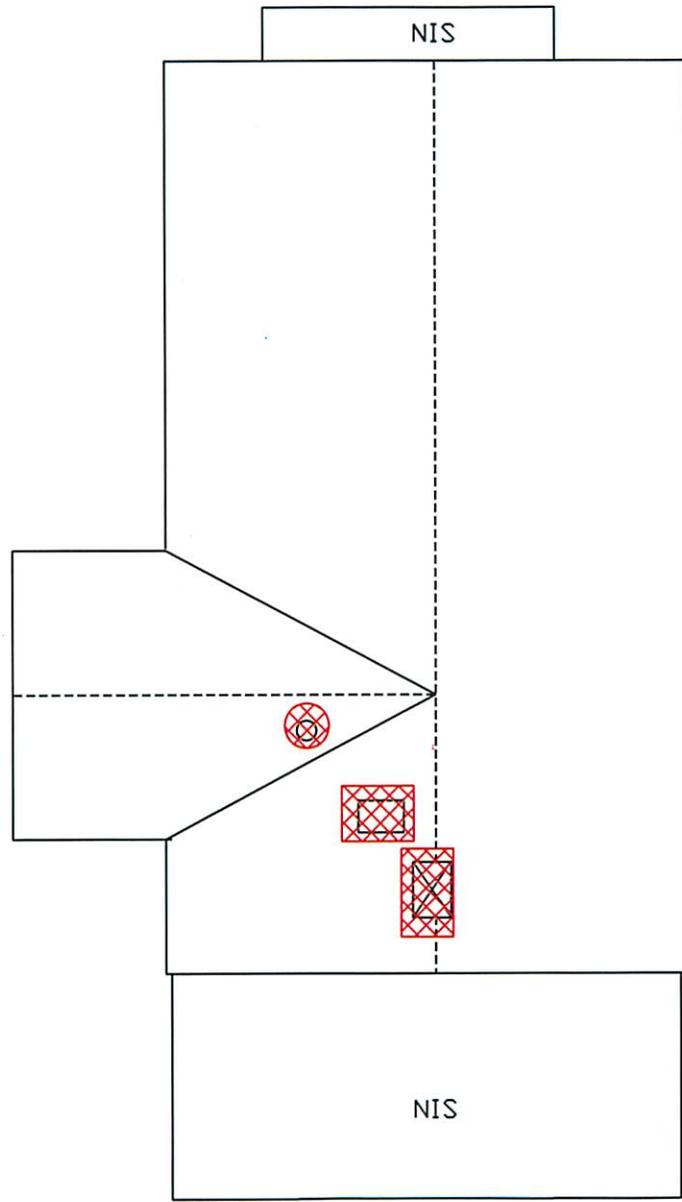
SCALE:  
NOT TO SCALE

DATE:  
4/25/14

DRAWING NUMBER

**1 S**

← BLOHM ST →



# ChemScope Inc.

Site 008  
411 Blohm Street, West Haven, CT  
**ROOF**  
CS# 183-77, 4-25-14



### LEGEND OF SYMBOLS

 ACM Roof Flashing

NIS Not in Scope

### NOTATIONS

DRAWN BY:  
DAN SULLIVAN

**ChemScope Inc.**

SHEET TITLE:  
**ASBESTOS AND  
LEAD INSPECTION**  
411 BLOHM ST  
WEST HAVEN, CT  
  
Roof

CHEMSCOPE NUMBER: CS# 183-77	DRAWING NUMBER
SCALE: NOT TO SCALE	1A
DATE: 4/25/14	

## Certificate Of Analysis

*Diversified Technology Consultants (DTC) - Scott Feulner*

*2321 Whitney Avenue*

*Suite 301*

*Hamden CT 06518*

*5/2/2014*

*CS# 183-77*

*Page 1 of 3*

*Bulk sample(s) from Site 008, 411 Blohm Street, West Haven, CT collected by Dan Sullivan (assisted by Ziyang Wang) on 4/25/2014*

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

### **Sample Identification**

### **Findings (Analyzed 5/2/14)**

*183-77-1 Black sticky fibrous flashing tar (at chimney penetration) / Upper Roof*

*29% Chrysotile Asbestos  
23% Non- Fibrous Particles  
48% Volatile on Ignition*

*183-77-2 Black sticky fibrous flashing tar (at chimney penetration) / Upper Roof*

*Not Analyzed*

*183-77-3 Black fibrous roof shingle with white granules (on black fibrous roof shingle with red granules on black fibrous paper on wood) / Upper Roof*

*No Asbestos Detected  
39% Non- Fibrous Particles  
29% Volatile on Ignition  
32% Fiberglass*

*183-77-4 Black fibrous roof shingle with white granules (on black fibrous roof shingle with red granules on black fibrous paper on wood) / Upper Roof*

*No Asbestos Detected  
42% Non- Fibrous Particles  
23% Volatile on Ignition  
35% Fiberglass*

*183-77-5 Black fibrous roof shingle with red granules (from sample #3) / Upper Roof*

*No Asbestos Detected  
56% Non- Fibrous Particles  
44% Volatile on Ignition*

*Bulk sample(s) from Site 008, 411 Blohm Street, West Haven, CT collected by Dan Sullivan (assisted by Ziyang Wang) on 4/25/2014*

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

**Sample Identification**

**Findings (Analyzed 5/2/14)**

*183-77-6 Black fibrous roof shingle with red granules (from sample #4) / Upper Roof*

*No Asbestos Detected  
45% Non- Fibrous Particles  
55% Volatile on Ignition*

*183-77-7 Black fibrous paper (from sample #3) / Upper Roof*

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

*183-77-8 Black fibrous paper (from sample #4) / Upper Roof*

*<1% Chrysotile Asbestos (point counted)  
5% Non- Fibrous Particles  
95% 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  
  
Rohald Areña  
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**

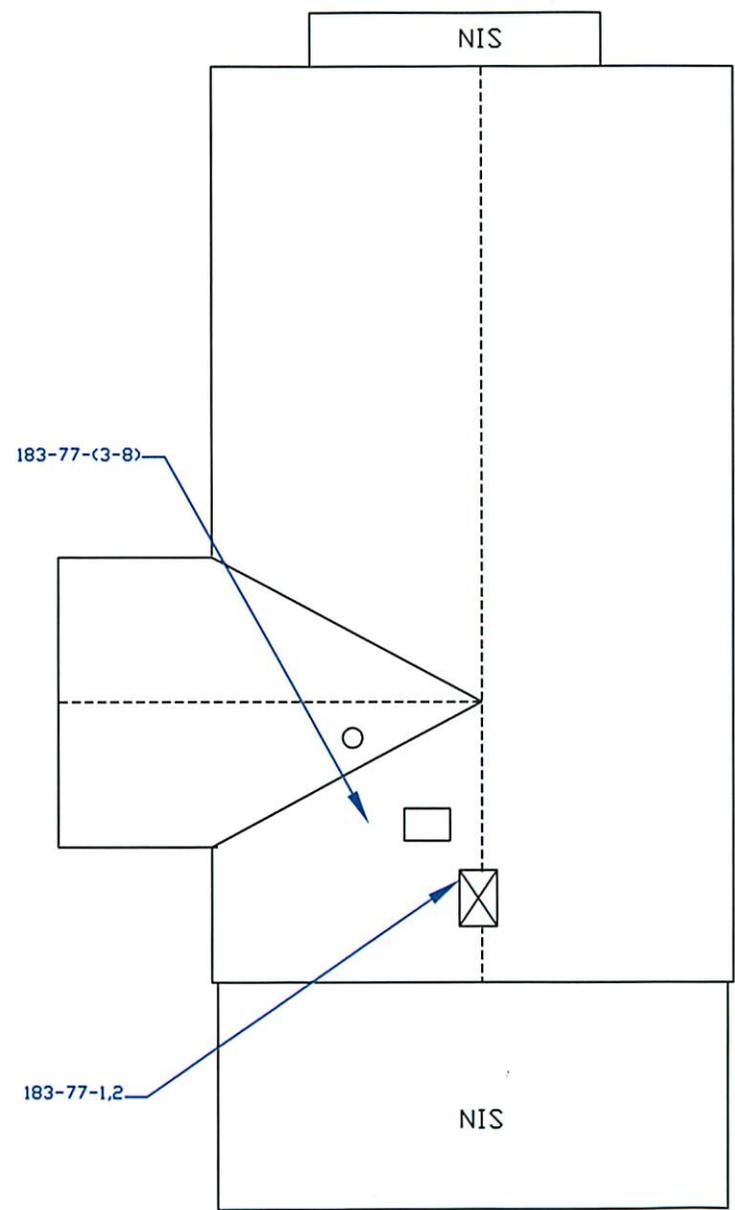
To help us improve our services give your opinions to the following:

- 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

← BLOHM ST →



# ChemScope Inc.

Site 008

411 Blohm Street, West Haven, CT

ROOF

CS# 183-77, 4-25-14

BULK SAMPLE LOCATION DRAWING



**LEGEND OF SYMBOLS**

1	Bulk Sample No.
NIS	Not in Scope

**NOTATIONS**

DRAWN BY:  
DAN SULLIVAN

**ChemScope Inc.**

SHEET TITLE:

**ASBESTOS AND  
LEAD INSPECTION**

**411 BLOHM ST  
WEST HAVEN, CT**

Roof

CHEMSCOPE NUMBER:  
CS# 183-77

DRAWING NUMBER

SCALE  
NOT TO SCALE

**1 B**

DATE  
4/25/14

# ChemScope INDUSTRIAL HYGIENE • ENVIRONMENTAL CHEMISTRY

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

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

6/2/2014

**RADON AIR SAMPLING  
SITE 008 – 411 BLOHM STREET, WEST HAVEN, CT  
APPLICATION #2140  
CS#183-77, 5/21/2014 AND 5/23/2014, PAGE 1 OF 4**

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Radon Sampling Report Synopsis	3
Limitations of the Sampling	4
Recommendations	4

**Attachments:**

- Radon Analysis report, 1 page(s)
- Chain of Custody Document(s), 2 page(s)
- Sample Location Drawing(s), 1 page(s)
- Radon Occupant Notification Forms, 3 page(s)
- Radon Training Qualification, 1 page(s)

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**File Location:**

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**RADON AIR SAMPLING**  
**SITE 008 – 411 BLOHM STREET, WEST HAVEN, CT**  
**APPLICATION #2140**  
**CS#183-77, 5/21/2014 AND 5/23/2014, PAGE 2 OF 4**

INTRODUCTION

**EXECUTIVE SUMMARY:** Radon activity detected was below 4.0 pCi/L. Since the initial results are less than 4.0 pCi/L follow-up testing is probably not needed. The EPA recommends retesting a home every two years.

**PURPOSE:** To determine if Radon is present in the in the subject home and at what levels.

**BUILDING DESCRIPTION:** The subject building is a single-family, two-story house, with an attic and basement totaling approximately 1900 sq ft, which was built in 1906 of wood-frame construction. Heat is supplied from a boiler in the basement.

**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. We understand a tree limb caused damaged to a basement window, and the paint on the concrete wall below that window. We understand the homeowner fixed the broken window, but the wall below it still needs to be re-painted. We understand the upper roof suffered damage and is scheduled to be replaced. The government run program funding the work is requiring that radon be evaluated prior to the renovation work.

**SCOPE OF INSPECTION:** We conducted short-term simultaneous radon testing at the subject home.

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.

**METHOD OF TESTING:** For sampling we followed protocols outlined in "Protocols for Radon and Radon Decay Product Measurements in Homes" (EPA, May 1993). EPA recommends that testing take place in the lowest level of the home, which is currently suitable for occupancy. This means the lowest level that is currently lived in. Measurements should be made in a room, which is used regularly. The basement in this case is mostly unfinished, so samples were run in the living room. Measurements were taken in an area at least 20" above the floor and at least 3' from any door, window or exterior wall. Measurements were not taken near HVAC vents, fans or in an area of frequent drafts.

Samples were collected by ChemScope and analyzed at EMSL (Cinnaminson, NJ). EMSL is a DPH approved Environmental Lab and a NEHA certified Analytical Laboratory. (See analytical reports enclosed). Samples were analyzed using liquid scintillation radon detectors and counted on a liquid scintillation counter using approved EPA testing protocols for Radon in Air testing.

For more information on this method go to:  
[http://www.epa.gov/radon/pdfs/homes\\_protocols.pdf](http://www.epa.gov/radon/pdfs/homes_protocols.pdf)

**RADON AIR SAMPLING**  
**SITE 008 – 411 BLOHM STREET, WEST HAVEN, CT**  
**APPLICATION #2140**  
**CS#183-77, 5/21/2014 AND 5/23/2014, PAGE 3 OF 4**

INSPECTION REPORT SYNOPSIS

**LOCATION NAME AND ADDRESS:** Site 008, Application #2140  
 411 Blohm Street, West Haven, CT

**INSPECTION DATE(S):** 5/21/2014-5/23/2014.

**QUALIFICATIONS:** The survey team consisted of inspector, Dan Sullivan. Dan is a NRPP (National Radon Proficiency Program) trained technician and his certification number is 107005RT.

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

**FINDINGS:** The following chart is a summary of the results of our Radon sampling:

Sample Location	Canister #	Sample #'s	Radon Activity (pCi/L)
Living Room	168946	183-77-1R	0.3
Living Room	168864	183-77-2R	0.2

Note: None of the samples collected were equal to or greater than 4.0 pCi/L. The EPA recommends a follow-up test (either short-term or long-term) if the average of the two short-term simultaneous tests is greater than or equal to 4.0 pCi/L and less than 10 pCi/L. If the average of the follow-up and initial tests is equal to or greater than 4.0 pCi/L then remedial action is required.

**Temperature & Humidity Results**

Location	%RH 5/21/14 9:00am	Air Temp (°F) 5/21/14	Pressure (mm Hg) 5/21/14	%RH 5/23/14 9:00am	Air Temp (°F) 5/23/14	Pressure (mm Hg) 5/23/14
Living Room	60	71	761	63	69	758
Exterior	54	68	761	88	58	758

The sling psychrometer is the classical method for measuring humidity. Two ASTM thermometers are secured to a device that is spun through the air. One of the thermometers has a wick on the end soaked in water (WB or wet bulb reading). The other thermometer has no wick (DB or dry bulb reading = room temperature). The principle is that for a given temperature, the difference in WB and DB readings is a direct measure of the amount of water in the air. If air were very dry, it would evaporate much more water from the DB and the evaporation causes cooling. Results can be converted to %RH and dew point (DP). 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.

**RADON AIR SAMPLING  
SITE 008 – 411 BLOHM STREET, WEST HAVEN, CT  
APPLICATION #2140  
CS#183-77, 5/21/2014 AND 5/23/2014, PAGE 4 OF 4**

GENERAL INFORMATION ABOUT RADON

From "Protocols for Radon and Radon Decay Product Measurements in Homes" (EPA, May 1993): "The average year-round residential indoor radon level is estimated to be about 1.3 pCi/L, and about 0.4 pCi/L of radon is normally found in outside air. The U.S. Congress has set a long-term goal that indoor radon levels be no more than outdoor levels. There is some risk from radon levels below 4 pCi/L, and EPA recommends that the homeowner consider reducing the radon level if the average of the first and second short-term measurements or if a long-term follow-up measurement is between 2 and 4 pCi/L (0.01 and 0.02 WL). While it is not yet technologically achievable for all homes to have their radon levels reduced to outdoor levels, the radon levels in some homes today can be reduced to 2 pCi/L or below."

LIMITATIONS OF SAMPLING

The radon test run was a short-duration test (2-90 days). The test is designed to be run under Closed- building conditions. The occupants were given notice of the testing by our client prior to our testing and given instructions on maintaining Closed-building conditions during the test. ChemScope is not responsible for maintaining Closed-building conditions; that is the responsibility of the occupants. The building conditions appeared to meet Closed-building conditions when we arrived to set-up the test and again when we arrived to pick-up the canister at the conclusion of the test. The occupants have signed our form indicating that Closed-building conditions were kept during the duration of the test (48 hrs). See attached notification forms.

RECOMMENDATIONS

Radon activity detected was below 4.0 pCi/L. Since the initial results are less than 4.0 pCi/L follow-up testing is probably not needed. The EPA recommends retesting a home every two years or if the basement becomes more frequently used.

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



# EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-0327

<http://www.EMSL.com>

[RadonLab@emsl.com](mailto:RadonLab@emsl.com)

EMSL Order:	381402719
CustomerID:	CHEM51
CustomerPO:	
ProjectID:	

Attn: **Dan Sullivan**  
**ChemScope, Inc.**  
**15 Moulthrop Street**  
**North Haven, CT 06473**

Phone: (203) 865-5605  
 Fax: (203) 498-1610  
 Received: 05/27/14 5:20 PM  
 Analysis Date: 5/28/2014  
 Collected: 5/21/2014

Project: 411 Blohm Street

Test Site: **Site 008**  
**411 Blohm Street**  
**West Haven, CT 06516**

### Samples for EMSL Kit 100450

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
168946	Living room	0.3	5/21/2014	5/23/2014	70	62	Customer
381402719-0001			9:00:00 AM	9:00:00 AM			

Sample Notes:

### Samples for EMSL Kit 100457

Liquid Scintillation ID	Location	Radon Activity pCi/L	Start	Stop	Temperature F	Humidity %	Sample Type
168864	Living room	0.2	5/21/2014	5/23/2014	70	62	Customer
381402719-0002			9:00:00 AM	9:00:00 AM			

Sample Notes:

The radon test was performed using a liquid scintillation radon detector/s and counted on a liquid scintillation counter using approved EPA testing protocols for Radon in Air testing. The EPA recommends fixing your home if the average of two short-term tests taken in the lowest lived-in level of the home show radon levels that are equal to or greater than 4.0pCi/L. The EPA recommends retesting your home every two years.

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

### Report Note

Analyst(s) \_\_\_\_\_

Laura Freeman (1)  
 Tiffanie Cosgrove (1)

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

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

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ

Initial report from 05/29/2014 11:22:35

Please visit [www.radontestinglab.com](http://www.radontestinglab.com)

EMSL Analytical, Inc.  
200 Route 130 North  
Cinnaminson, NJ 08077  
Tel: 800-220-3675 • Fax: 856-786-0327  
www.radontestinglab.com

RECEIVED

CINNAMINSON, NJ

183-77-1R

2014 MAY 27 P 5:22



CHEM 51  
5 day

# Radon In Air Data Sheet

## Send Written Report To:

## Property Tested:

Name Dan Sullivan - ChemScope  
Address 15 Mouthrop Street  
City North Haven State CT Zip 06473  
Phone 203-865-5605 Fax 203-498-1610  
Email sullivan.chemscope@snet.net  
Technician Name Dan Sullivan

Name Site 008  
Address 411 Blohm Street  
City West Haven  
Municipality \_\_\_\_\_ County New Haven  
State CT Zip 06516

Technician Certification # 107005 107005 RT  
Technician Signature Dan Sullivan

Check here if this is a Post Mitigation test.  
Technician Name Dan Sullivan  
Technician Certification # 107005 RT  
Technician Signature Dan Sullivan

1ST RED VIAL # 168946

### INDOOR CONDITIONS

#### LOCATION

- Basement  First Floor  Bedroom  Den
- Living Room  Other \_\_\_\_\_
- Location in Room \_\_\_\_\_

Temperature 70 °F Humidity 62 %

2ND RED VIAL # \_\_\_\_\_

### EXPOSURE PERIOD

(If Purchased)

The device has been scientifically tested to provide reliable indoor radon measurements when exposed to temperatures between 60 and 80 degrees F; temperatures outside this range will invalidate the test results.

Beginning Date: 05 / 21 / 2014 <sup>DA 5/21/14</sup>

Time: 9:00 (AM) / PM (Circle)

Ending Date: 05 / 23 / 2014

Time: 9:00 (AM) / PM (Circle)

Kit # 100450 (Outside of Box)

The test device must remain open for 48 to 96 hours • Return this section with the test device to the laboratory

Tear Here



EMSL Analytical, Inc.  
200 Route 130 North  
Cinnaminson, NJ 08077  
Tel: 800-220-3675 • Fax: 856-786-0327  
www.radontestinglab.com

RECEIVED

CINNAMINSON NJ

MAY 27 P 5:23

183-77-2R

*CHEM 51*  
*5 days*

# Radon In Air Data Sheet

## Send Written Report To:

## Property Tested:

Name Dan Sullivan - ChemScope  
Address 15 Mouthrop Street  
City North Haven State CT Zip 06473  
Phone 203-869-5605 Fax 203-498-1610  
Email sullivan.chemscope@snet.net  
Technician Name Dan Sullivan  
Technician Certification # 107005 RT  
Technician Signature Dan Sullivan

Name Site 008  
Address 411 Blohm Street  
City West Haven  
Municipality \_\_\_\_\_ County New Haven  
State CT Zip 06516

Check here if this is a Post Mitigation test.  
Technician Name Dan Sullivan  
Technician Certification # 107005 RT  
Technician Signature Dan Sullivan

1ST RED VIAL # 168864

### INDOOR CONDITIONS

Temperature 70 °F Humidity 62 %

### LOCATION

- Basement  First Floor  Bedroom  Den
- Living Room  Other \_\_\_\_\_
- Location in Room \_\_\_\_\_

### EXPOSURE PERIOD

Beginning Date: 05 / 21 / 2014

Time: 9:00 (AM) / PM (Circle)

Ending Date: 05 / 23 / 2014

Time: 9:00 (AM) / PM (Circle)

2ND RED VIAL # \_\_\_\_\_  
(If Purchased)

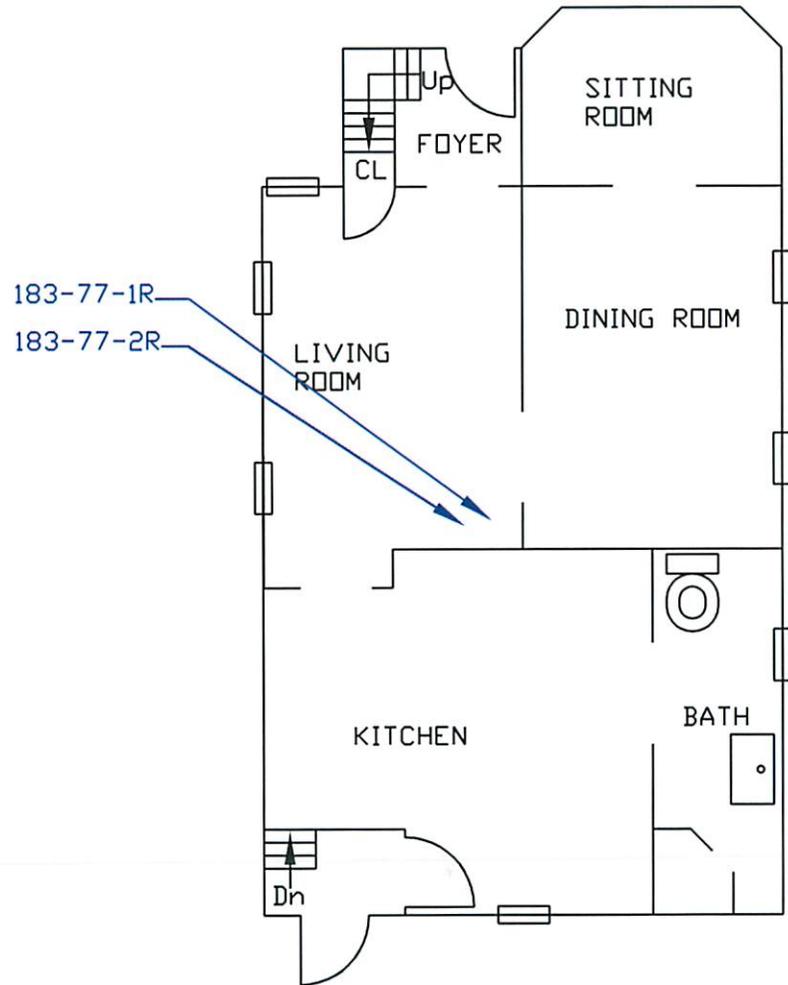
The device has been scientifically tested to provide reliable indoor radon measurements when exposed to temperatures between 60 and 80 degrees F; temperatures outside this range will invalidate the test results.

Kit # 100457 (Outside of Box)

The test device must remain open for 48 to 96 hours • Return this section with the test device to the laboratory

Tear Here

← BLOHM ST →



# ChemScope Inc.

Site 008

411 Blohm Street, West Haven, CT

Main Floor

CS# 183-77, 5/21/2014-5/23/2014



**LEGEND OF SYMBOLS**

NIS Not in Scope

**NOTATIONS**

RADON SAMPLE LOCATION DRAWING

DRAWN BY:  
**LEIGH HONOROF**

**ChemScope Inc.**

SHEET TITLE:  
**RADON INSPECTION**

**411 BLOHM ST  
WEST HAVEN, CT**

**MAIN FLOOR**

CHEMSCOPE NUMBER: CS# 183-77	DRAWING NUMBER
SCALE NOT TO SCALE	<b>3 R</b>
DATE 5/21/14	

## ***RADON SURVEY IN PROGRESS***

### **Required Closed-building conditions:**

- Closed-building conditions must be maintained for 12 hours prior to the initiation of measurements lasting less than four days and throughout the test period.
- All windows on all levels must be kept closed and external doors must be kept closed (except for momentary entry and exit).
- Heating and cooling systems must be set to normal, occupied operating temperatures; fan/blower controls must be set to intermittent activity unless continuous activity is a permanent setting.
- Whole house fans must not be operated.
- Occupants should avoid excessive operation of clothes dryers, range hoods, bathroom fans and other mechanical systems that draw air out of the building.
- Wood burning fireplaces must not be operated unless they are the primary sources of heat for the dwelling.

We thank you for your cooperation in helping to ensure safe and healthy homes.

Sincerely,



Daniel P. Sullivan  
Vice President, Operations  
Office 203-865-5605  
Cell 203-996-3621

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# ChemScope INDUSTRIAL HYGIENE • ENVIRONMENTAL CHEMISTRY

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

## COMPLIANCE AGREEMENT – Page 1 of 2

Dear occupant of 411 Blohm Street, West Haven, CT,

Radon gas is the second leading cause of lung cancer and the leading cause of lung cancer in non-smokers. Radon is a naturally occurring radioactive gas that can be present in some homes at concentrations that are dangerous to you, your family and pets.

An important step is being taken to lower your risk of lung cancer. A radon test is being scheduled for the property.

Radon test devices will be placed in your home for several days to take a reading.

It is important that we can gain access to place test devices and that required test conditions are maintained.

### Required Closed-building conditions

- Closed-building conditions must be maintained for 12 hours prior to the initiation of the test and during the test.
- All windows on all levels and external doors must be kept closed (except for momentary events such as normal entry and exit) before and during the test period.
- Heating and cooling systems must be set to normal occupied operating temperatures and their fan/blower controls must be set to normal intermittent activity unless continuous activity is a permanent setting.
- Window air conditioning units must only be operated in a recirculating mode. Equipment that supplies fresh air to the dwelling must be deactivated except for make-up air to combustion appliances.
- Whole house fans must not be operated. Window fans should be removed or sealed shut. Wood burning fireplaces must not be operated unless they are the primary sources of heat for the dwelling. Avoid excessive operation of clothes dryers, range hoods, bathroom fans and other mechanical systems that draw air out of the building.

Tentative device placement Friday Date 5/21/14 ~~5/16/2014~~ 5/21 Time 11:00AM ~~9:00AM~~ 205/21

We will request your signature and any comments on a form left with the test device.

Tentative device pick-up Monday Date 5/19/2014 ~~5/23/14~~ 205/21 Time 8:00AM ~~9:00AM~~ 205/21

Test devices are not dangerous in any way and a sample test device is available at our office for you to examine if you wish. Copies of EPA's A Citizen's Guide to Radon are available upon request or you can contact your State Radon Office or EPA regional office for additional information on radon.

For any questions, concerns or if you have independently performed radon testing in your home, please contact: Dan Sullivan, ChemScope, Inc. 203-865-5605.

We thank you for your cooperation in helping to ensure safe and healthy homes.

Sincerely,



Daniel P. Sullivan  
Vice President, Operations  
Office 203-865-5605  
Cell 203-996-3621

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# ChemScope INDUSTRIAL HYGIENE • ENVIRONMENTAL CHEMISTRY

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

## COMPLIANCE AGREEMENT – Page 2 of 2

Dear occupant of 411 Blohm Street, West Haven, CT \_\_\_\_\_,

An important step is being taken to help ensure healthy conditions in your home. It is important that required test conditions be maintained.

Please sign this form and add any comments to help ensure accurate tests:

**To the best of my knowledge, the required conditions were kept during the test.**

Occupant X Anthony DeLuca Date 5-23-14

Comments if any: \_\_\_\_\_

Device Pick-up Day Friday Date 5/23/2014 Time 8:00AM  
Monday Date 5/19/2014 Time 9:17am  
at 5/21/14 at 5/21/14 at 5/21/14

### Required Closed-building conditions:

- Closed-building conditions must be maintained for 12 hours prior to the initiation of measurements lasting less than four days and throughout the test period.
- All windows on all levels must be kept closed and external doors must be kept closed (except for momentary entry and exit).
- Heating and cooling systems must be set to normal, occupied operating temperatures; fan/blower controls must be set to intermittent activity unless continuous activity is a permanent setting.
- Whole house fans must not be operated.
- Occupants should avoid excessive operation of clothes dryers, range hoods, bathroom fans and other mechanical systems that draw air out of the building.
- Wood burning fireplaces must not be operated unless they are the primary sources of heat for the dwelling.

We thank you for your cooperation in helping to ensure safe and healthy homes.

Sincerely,



Daniel P. Sullivan  
Vice President, Operations  
Office 203-865-5605  
Cell 203-996-3621

D(dan):\\myfilesds\\mydocuments\\Radon\\Radon Forms 2014.doc

National Radon Proficiency Program



*February 20, 2013*

Daniel Sullivan  
Chem Scope, Inc.  
15 Moulthrop Street  
North Haven, CT 06473

Residential Measurement Provider

NRPP Certification Number: 107005 RT

NRPP Expiration Date: 2/28/2015

*Your NRPP identification card is enclosed. Your certification will expire on the date indicated above. Information regarding the National Radon Program may be obtained by visiting our web site located at [nrpp.info](http://nrpp.info).*

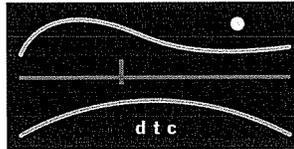
*Comments:*

Best regards,

Angel Anderson Price, Executive Director, NRPP

Non-Photo ID

ENGINEERED  
SOLUTIONS



LAND  
STRUCTURES  
WATER

June 12, 2014

Mr. Anthony DeLuca  
411 Blohm Street  
West Haven, CT 06516  
Application #2140

**SUBJECT: STATE OF CONNECTICUT DEPARTMENT OF HOUSING  
COMMUNITY DEVELOPMENT BLOCK GRANT – DISASTER RECOVERY  
(CDBG-DR); APPLICATION #2140  
RESULTS TRANSMITTAL FOR RADON AIR SAMPLING**

Dear Mr. DeLuca:

Attached herewith are the results for the recently completed Radon Air Sampling assessment for the above-referenced location. This assessment was completed on May 21, 2014 as part of the Community Development Block Grant – Disaster Recovery (CDBG-DR) program, as currently enrolled.

Please review and retain all of the attached information. Additionally, if you have any questions, feel do not hesitate to contact me directly at (203) 239-4200.

A handwritten signature in black ink, appearing to read 'S. Feulner', is written over a horizontal line.

Scott M. Feulner, Sr. Environmental Project Engineer

**Diversified Technology Consultants, Inc.**

Attachments: **ChemScope:**  
Revised Project Summary, dated 6-3-14 (1 pg)  
Radon Air Sampling Report, dated 6-2-14 (6 pgs)

cc: File

*Information contained in this document is proprietary and confidential and may not be disseminated to any party other than the intended recipient without the written consent of Diversified Technology Consultants.*

**2321 WHITNEY AVENUE SUITE 301 HAMDEN CT 06518**

203 239 4200 PH 203 234 7376 FAX

# 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

Revised 6/3/2014  
5/2/2014

**SITE 008 – 411 BLOHM STREET, WEST HAVEN, CT  
APPLICATION #2140  
CS#183-77, 4/25/2014 and 5/16/2014**

PROJECT SUMMARY

Demolition or Renovation	Renovation
Scope of Inspection	Upper Roof and Basement Partial Wall D
CS#	CS#183-77
Date(s) of Inspection	4/25/2014
Reports Dated	5/2/2014
Occupied	Yes
Child <6 yrs residing	No
Heat on	Yes
Water on	Yes
Electricity on	Yes
Asbestos Inspected /Present	Yes – Upper Roof only / Yes
Lead Inspected /Present	Yes – Basement Wall Only / No
Mold Inspected /Present	No / N/A
Radon Tested /Detected $\geq 4.0$ pCi/L	Yes / 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](mailto:Scott.Feulner@teamdtc.com)  
Curtis Graham, DTC [graham.curtis@teamdtc.com](mailto:graham.curtis@teamdtc.com)  
Michael Casey, DTC [michael.casey@teamdtc.com](mailto:michael.casey@teamdtc.com)

**File Location:**

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**Property Information**

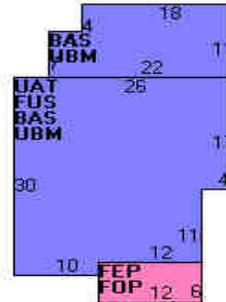
Owner	DELUCA ANTHONY + MIRELLA + SUR
Co-Owner	
Address	411 BLOHM ST
Mailing Address	0411 BLOHM ST WEST HAVEN CT 06516
Land Use	1010 Single Fam MDL-01
Land Class	R

Vision ID	6800
Census Tract	1549
Neighborhood	
Zoning Code	R2
Acreage	0.23
Utilities	Public Water,Public Sewer,Gas

**Photo**



**Sketch**



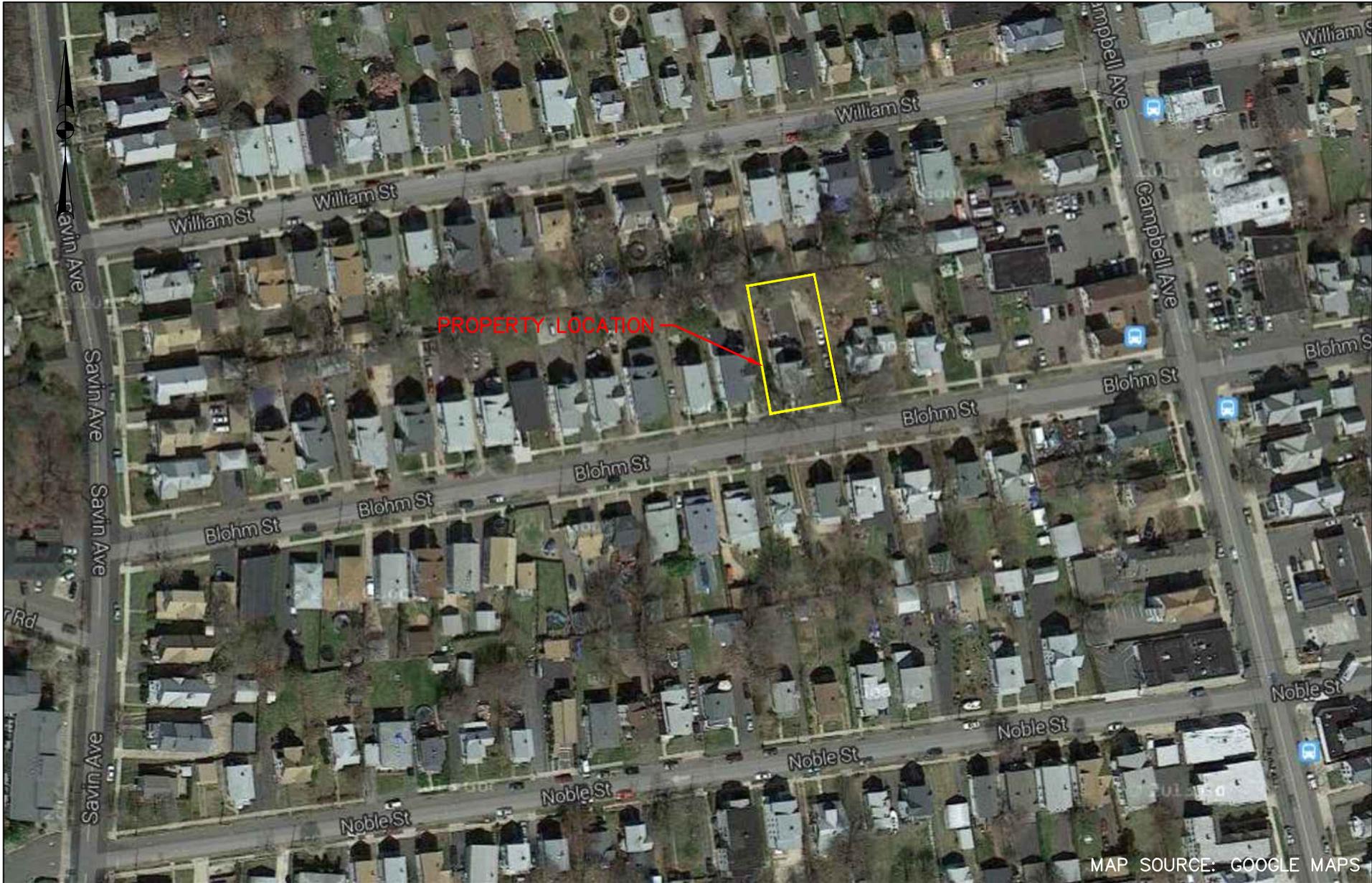
**Primary Construction Details**

Actual Year Built	1906
Effective Year Built	1993
Stories	2.25
Building Style	Conventional
Building Use	Residential
Building Condition	Average
Total Rooms	7 Rooms

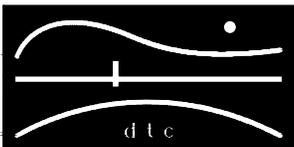
Bedrooms	3 Bedrooms
Full Bathrooms	2
Half Bathrooms	0
Bath Style	Average
Kitchen Style	Average
Roof Style	Gable
Roof Cover	Asph/F Gls/Cmp

Exterior Walls	Vinyl Siding
Interior Walls	Plastered
Heating Type	Hot Water
Heating Fuel	Gas
AC Type	None
Gross Bldg Area	3436
Total Living Area	1889





MAP SOURCE: GOOGLE MAPS



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

411 BLOHM STREET  
 WEST HAVEN, CT

AERIAL PHOTOGRAPH

PROJECT NUMBER: 13-449-008

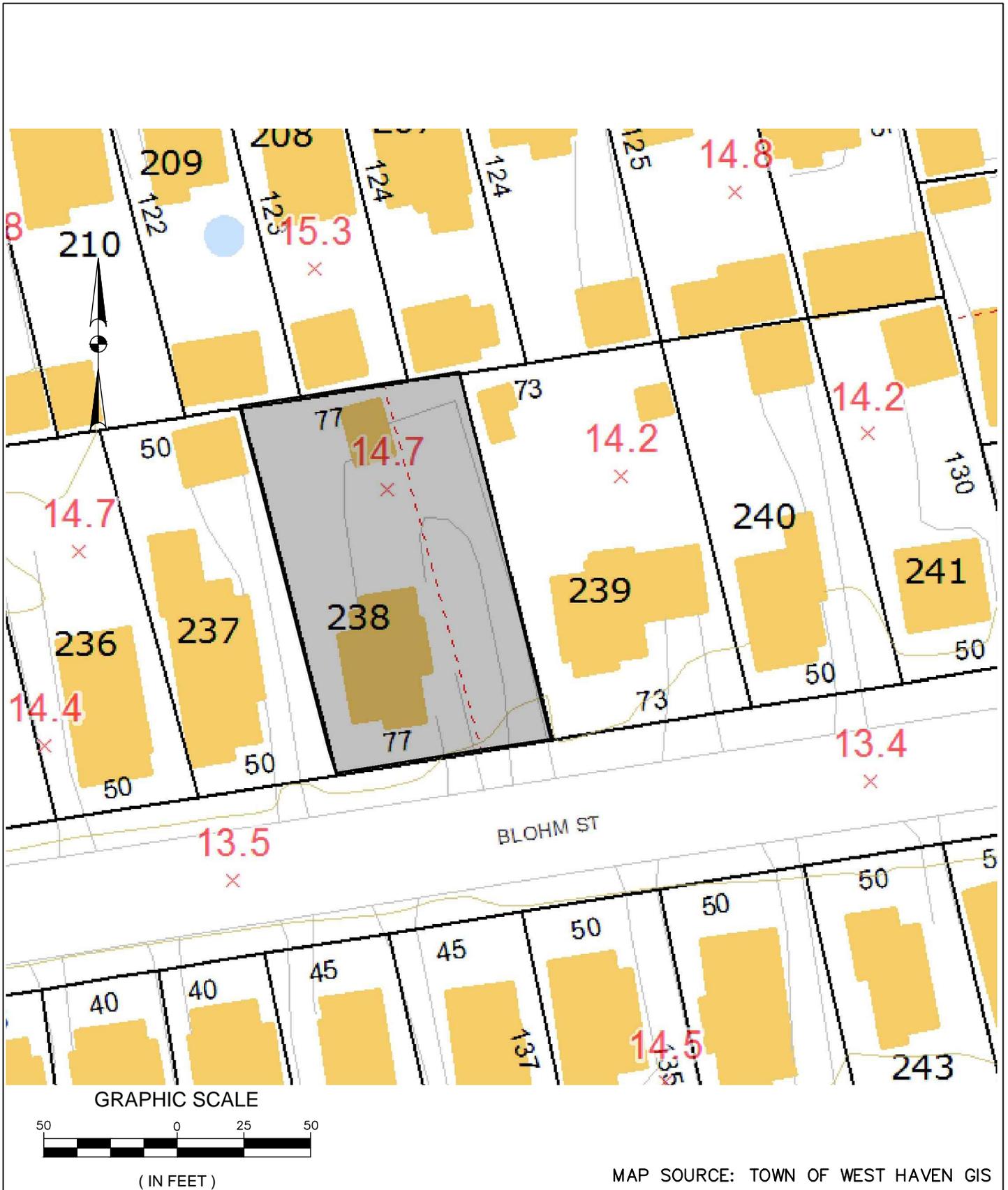
APPLICANT NO: 2140

SCALE: NTS

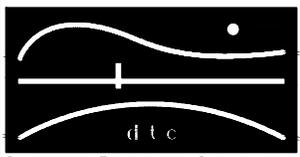
DRAWN BY: LEC

DATE: 06/10/14

CHECKED BY: JAB



MAP SOURCE: TOWN OF WEST HAVEN GIS



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  
 411 BLOHM STREET  
 WEST HAVEN, CT

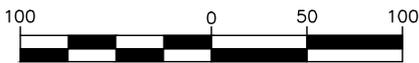
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SCALE: 1"=50'	DRAWN BY: LEC
DATE: 06/10/2014	CHECKED BY: JAB

PROJECT NUMBER: 13-449-008	APPLICANT NO: 2140
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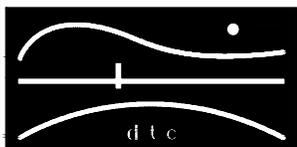


GRAPHIC SCALE



( IN FEET )

MAP SOURCE: TOWN OF WEST HAVEN GIS



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

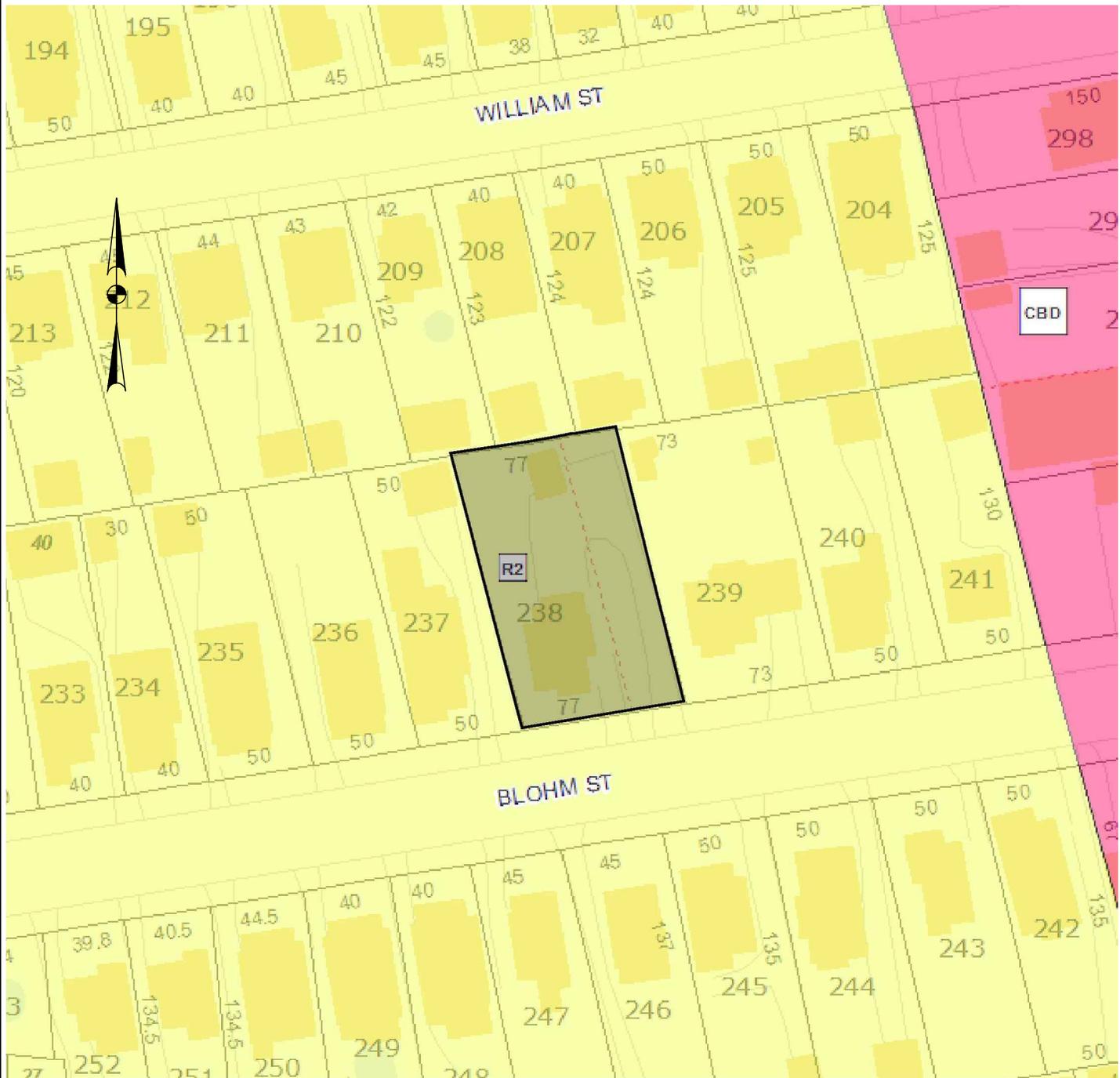
411 BLOHM STREET  
 WEST HAVEN, CT

TAX ASSESSORS MAP

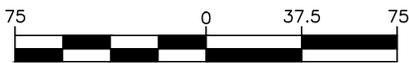
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DATE: 06/10/2014 CHECKED BY: JAB

PROJECT NUMBER: 13-449-008 APPLICANT NO: 2140

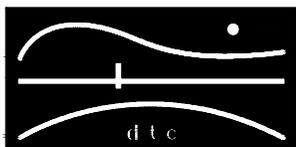


**GRAPHIC SCALE**



( IN FEET )

MAP SOURCE: TOWN OF WEST HAVEN GIS



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

411 BLOHM STREET  
WEST HAVEN, CT

ZONING MAP

SCALE: 1"=75'

DRAWN BY: LEC

PROJECT NUMBER: 13-449-008

APPLICANT NO: 2140

DATE: 06/10/2014

CHECKED BY: JAB