

# ChemScope INDUSTRIAL HYGIENE • ENVIRONMENTAL CHEMISTRY

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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:**

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**File Location:**

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Scott Feulner  
Diversified Technology Consultants (DTC)  
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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**

TABLE OF CONTENTS

<b>Contents</b>	<b>Page(s)</b>
Table of Contents	1
Introduction	2
Inspection Report Synopsis	3
Limitations of the Inspection	4
Recommendations	4

**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

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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>MATERIAL</b>	<b>LOCATION</b>	<b>~FOOTAGE</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.

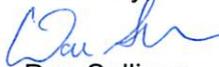
General Work Requirements for Intact Incidental ACM Roofing Removal (according to OSHA 1926.1101 and MOU between OSHA and NRCA):

- 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.

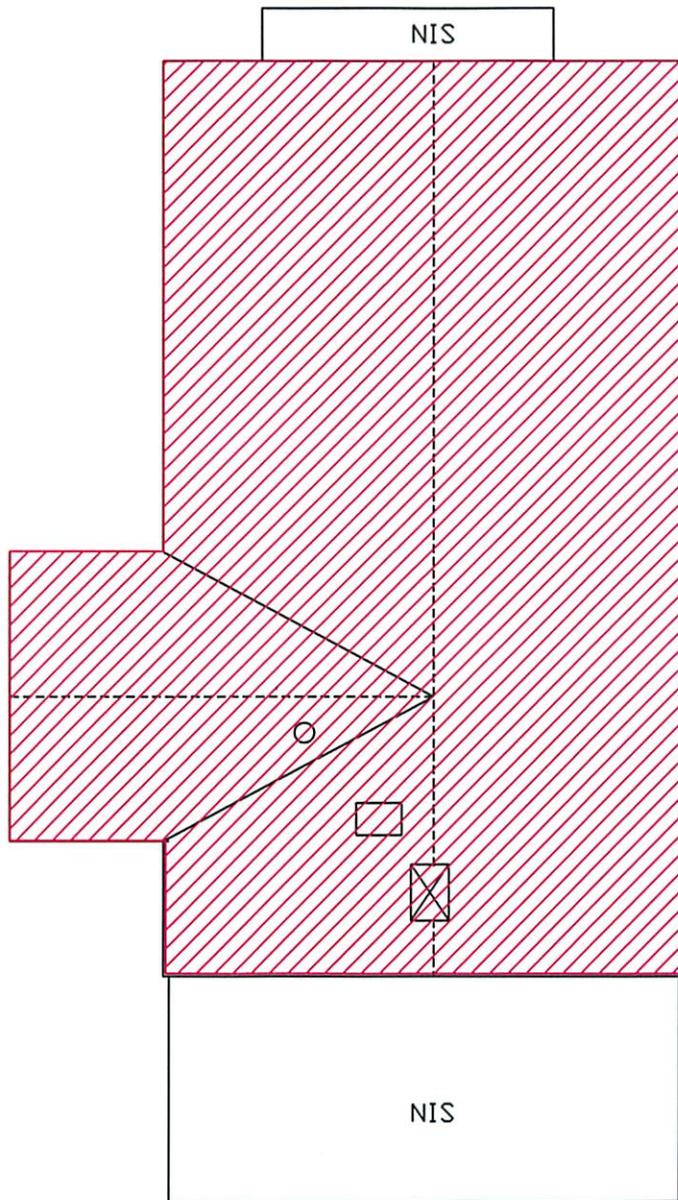
If you have any questions or need more information please call me.

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

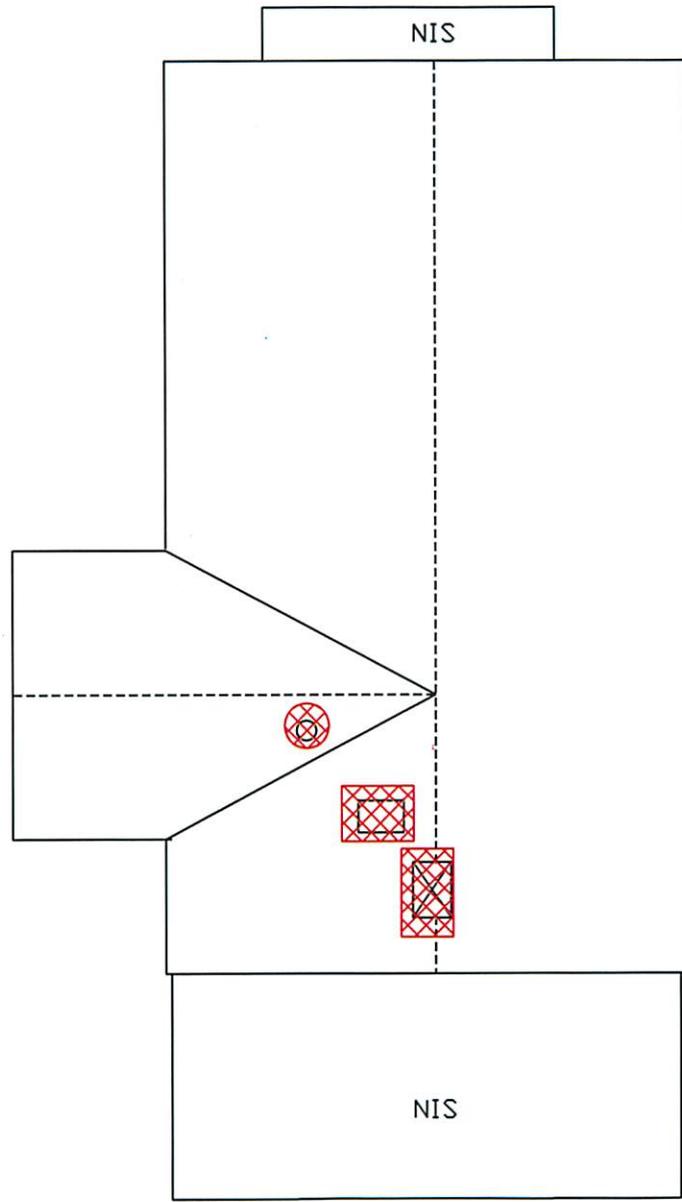
SCALE:  
NOT TO SCALE

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	<b>1A</b>
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**

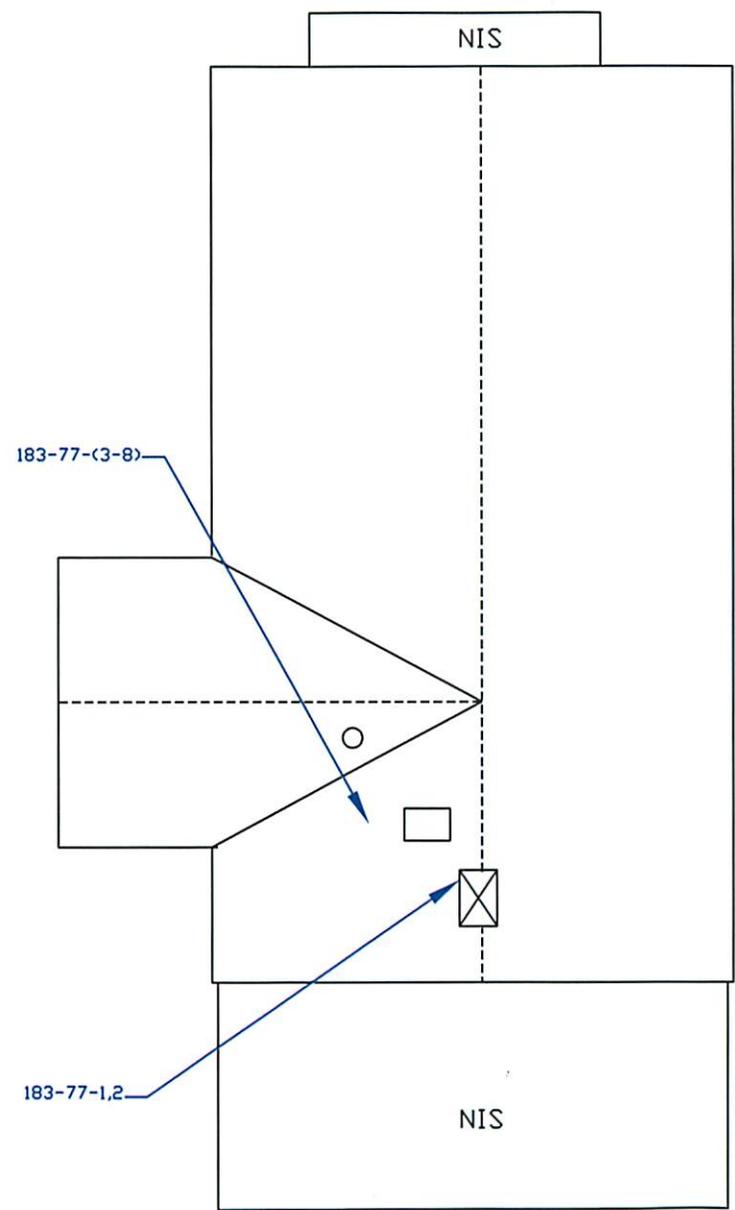
To help us improve our services give your opinions to the following:

- 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	<b>1 B</b>
DATE 4/25/14	

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**

TABLE OF CONTENTS

<b>Contents</b>	<b>Page(s)</b>
Table of Contents	1
Introduction	2-3
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:**

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Michael Casey, DTC [michael.casey@teamdtc.com](mailto:michael.casey@teamdtc.com)

**File Location:**

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**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

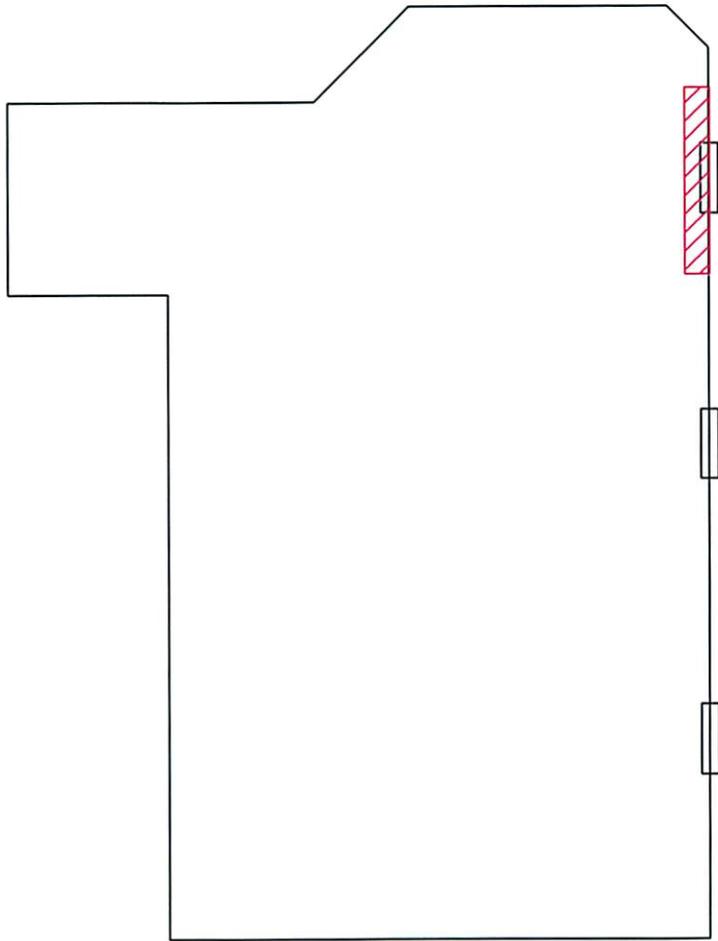
← BLOHM ST →

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      1 S

DATE: 4/25/14

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	1100 am	NIST SRM 2573 Red	1.0
2	1101	NIST SRM 2573 Red	1.0
3	1103	NIST SRM 2573 Red	1.0
11	1142	NIST SRM 2573 Red	1.0
12	1143	NIST SRM 2573 Red	1.0
13	1144	NIST SRM 2573 Red	1.0
		NIST SRM 2573 Red	
		NIST SRM 2573 Red	
4	1103	NIST SRM 2570 White (Blank)	-0.2
14	1145	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.