

# **SURVEY REPORT**

## **PRE-DEMOLITION INVESTIGATIVE SURVEY FOR HAZARDOUS BUILDING MATERIALS**

### **EAST HAMPTON PERSONNEL SHELTER EAST HAMPTON, CONNECTICUT**

Project No. 41-119

*Prepared for*

**State of Connecticut  
Department of Transportation**

Newington, Connecticut

*Prepared by*

**TRC**

Windsor, Connecticut

Issued

November 2018

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Stephen R. Arienti, CHMM  
Senior Project Manager – Program Manager

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Erik R. Plimpton, P.E., CHMM, CMC  
Vice President – Engineer in Charge

TRC Project No. 222165.5751.0710  
Issued-November 2018

**TRC**  
21 Griffin Road North  
Windsor, Connecticut 06095  
Telephone (860) 298-9692  
Facsimile (860) 298-6380

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## PROJECT OUTLINE

DOT Project No.: 41-119  
Assignment No.: 514-5751  
DOT Project Manager: Mandy Socolosky

Site Address: East Hampton Personnel Shelter, East Hampton, CT

TRC Project No.: 222165.5751.0710  
Asbestos Inspector: Jonathan Gentile (LIC #000603)  
David Heelon (LIC #000635)  
Lead Inspector: David Heelon (LIC #002188)  
Date(s) of Inspection: 10/30/18

Historic Significance: None, <50 years old

Asbestos Identified: None  
Lead Paint Identified: None  
Gen. Bldg. Mat. Haz Waste: No, per EPA/CTDEEP memo dated January 26, 2004  
Add'l Haz./Reg. Mat./Waste/Items: Yes (See Table 6)

### Additional Notes:

The property consists of a small one-story wooden personnel shed with concrete slab base, plywood floor and sheetrock walls, located on the East Hampton Salt Shed property. Electricity had not yet been shut-off at the time of the inspection. There were no fuel oil aboveground storage tanks (AST) or underground storage tanks (UST) identified in the subject area. Various small quantities of cleaners/household chemicals are presumed to be removed for re-use prior to demolition.



## **TABLES**

**TABLE 1  
BULK SAMPLE SUMMARY OF SUSPECT ASBESTOS CONTAINING MATERIALS  
EAST HAMPTON PERSONNEL SHELTER  
EAST HAMPTON, CONNECTICUT**

Sample No.	Sample Location	Type of Homogeneous Material	% and Type Asbestos
1	B-side wall	SHR1 – light grey sheetrock	ND
		White joint compound	ND
2	Ceiling above door	SHR1 – light grey sheetrock	ND
		White joint compound	ND
3	Roof	AS1 – brown asphalt shingles	ND
4	Roof	AS1 – brown asphalt shingles	ND <sup>1</sup>
5	Roof	VB1 – tar paper vapor barrier	ND
6	Roof	VB1 – tar paper vapor barrier	ND <sup>1</sup>
7	D-side	C1 – dark grey rubbery caulk	ND
8	D-side	C1 – dark grey rubbery caulk	ND <sup>1</sup>

NA/PVA Not analyzed/positive via inseparable association with a confirmed positive ACM

NA/PS Not analyzed/positive stop, homogeneous to sample proven to contain asbestos

ND<1% Non-detected, less than 1%

NAD No asbestos detected

+ Although found to be negative by analysis, material is homogeneous to a determined ACM and therefore must be considered positive

<sup>1</sup> NOB Result confirmed by TEM analyses

\* Quantified by EPA 400 Point Count Method

**TABLE 2  
 IDENTIFIED ASBESTOS CONTAINING MATERIALS (>1%)  
 EAST HAMPTON PERSONNEL SHELTER  
 EAST HAMPTON, CONNECTICUT**

Material	Sampled/ Assumed (mo/yr)	General Location	NESHAP Category	AHERA Category	Estimated Quantity
<b>NO ASBESTOS CONTAINING MATERIALS WERE IDENTIFIED IN THE SUBJECT AREA</b>					

AHERA Categories = thermal system insulation (TSI), surfacing material or miscellaneous  
 NESHAP Categories = friable, category I non-friable or category II non-friable  
 Friable = crumbled, pulverized or reduced to powder by hand pressure when dry  
 Category I Non-friable = packings, gaskets, resilient floor covering and asphalt roofing  
 Category II Non-friable = all non-friable that is not Category I

**TABLE 3**  
**CONFIRMED NON-ASBESTOS CONTAINING MATERIALS (<1%)**  
**EAST HAMPTON PERSONNEL SHELTER**  
**EAST HAMPTON, CONNECTICUT**

Material	General Location
SHR1 – light grey sheetrock & associated white joint compound	Interior shed – walls & ceiling
AS1 – brown asphalt shingles	Roof
VB1 – tar paper vapor barrier	Roof
C1 – dark grey rubbery caulk	D-side exterior at electrical box

*\* However, associated layers are positive.*

**TABLE 4**  
**SUMMARY OF LEAD PAINT XRF MEASUREMENTS**  
**EAST HAMPTON PERSONNEL SHELTER**  
**EAST HAMPTON, CONNECTICUT**

<b>Structure</b>	<b>No. of Measurements</b>	<b>Calibrations</b>	<b>Void</b>	<b>Lead Detected</b>	<b>No Lead Detected</b>
One story wooden structure on concrete slab base	19	7	0	0	12

See Lead Paint XRF Measurement Table in Appendix I.

**TABLE 5**  
**SUMMARY OF COMPOSITE BUILDING MATERIAL WASTE CHARACTERIZATION**  
**EAST HAMPTON PERSONNEL SHELTER**  
**EAST HAMPTON, CONNECTICUT**

Waste Stream	Metal	mg/L Leachate	Hazardous/Non-Hazardous
Bldg. Material Composite (Excluding metal substrates)	<b><u>No</u> TCLP sample for Lead warranted as XRF readings on non-metallic components were all below 1.0 mg/cm<sup>2</sup> and therefore the debris is presumed as <u>non-hazardous</u> per CTDEEP/USEPA clarification memo of January 26, 2004.</b>		

Note: Any metal components should be recycled to promote waste minimization efforts, rather than disposed of, and the recycling operation is exempt from the USEPA RCRA and CTDEEP Hazardous Waste regulations.

See Appendix J for CTDEEP/USEPA clarification memo of January 26, 2004.

BDL - Below Detection Limit

ND - Not Detected

**TABLE 6**  
**INVENTORY OF ADDITIONAL HAZARDOUS/REGULATED**  
**MATERIALS, WASTES AND ITEMS IDENTIFIED**  
**EAST HAMPTON PERSONNEL SHELTER**  
**EAST HAMPTON, CONNECTICUT**

Quantity	Size	Material / Item	General Location	Potential Hazard
2	-	Fluorescent bulbs	Interior	Universal Waste (UW)
1	-	PCB Lamp Ballast (CR01)	Interior	Connecticut Regulated Waste (CRW CR01-CR05)
1	-	Tank Management System	Interior	Universal Waste (UW)
1	-	Cisco Modem	Interior	Universal Waste (UW)
1	-	Smoke Detectors (LLRW)	Interior	Low-level Radioactive Waste
9	-	Various sm qtys of cleaners/household chemicals probably will be taken for re-use prior to demo.	Interior	Miscellaneous
1	-	Halogen Lamp Ballast (CR01)	Exterior	Connecticut Regulated Waste (CRW CR01-CR05)
1	-	Halogen Lights (Lamps)	Exterior	Universal Waste (UW)

CRW- Connecticut Regulated Waste – PCBs (CR01), Oils (CR02/CR03), waste chemical liquids - antifreeze, latex & solvent paints, sludges, etc. (CR04), waste chemical solids (CR05)

UW- Universal Waste (batteries, thermostat ampoules, fluorescent lamps, used electronics)

IH- Inhalation hazard (silicas, etc.)

I- Ignitable - may contain ingredients which are ignitable (materials which have a flashpoint <140°F) (D001)

C- Corrosive - may contain ingredients which are alkaline or acidic (materials with a PH<2 or >12.5) (D002)

T- Toxic - may contain ingredients which are harmful if swallowed or which release vapors that can cause irritation

R- Reactive – may contain ingredients which are unstable, react violently with water or are explosive (D003)

## **APPENDIX A**

### **SITE PHOTOS WITH DOT ASSIGNMENT AND MAP**





**PHOTO 1.**  
A Side.

EAST HAMPTON PERSONNEL SHELTER





PHOTO 2.  
D Side.

EAST HAMPTON PERSONNEL SHELTER



## Plimpton, Erik

---

**From:** Socolosky, Mandy <Mandy.Socolosky@ct.gov>  
**Sent:** Friday, October 26, 2018 12:47 PM  
**To:** Plimpton, Erik  
**Cc:** Arienti, Stephen  
**Subject:** RE: Marlboro MF

Erik and Steve,

Design is now demolishing the shed-like personnel shelter at East Hampton. Can you have whoever is going to Marlborough next week also do a survey investigation for this structure at the East Hampton Salt Shed? I will arrange for it to be unlocked.

Thank you,

*Mandy Socolosky*

**Environmental Compliance**  
**Connecticut Department of Transportation**

2800 Berlin Turnpike  
Newington, CT 06111  
Phone: (860)594-3396  
E-mail: [Mandy.Socolosky@ct.gov](mailto:Mandy.Socolosky@ct.gov)

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**From:** Plimpton, Erik <EPlimpton@trcsolutions.com>  
**Sent:** Thursday, October 25, 2018 10:40 AM  
**To:** Socolosky, Mandy <Mandy.Socolosky@ct.gov>; Hartley, David <David.Hartley@ct.gov>; Tedesco, Jeffrey M <Jeffrey.Tedesco@ct.gov>  
**Cc:** Arienti, Stephen <SArienti@trcsolutions.com>  
**Subject:** Marlboro MF

I am planning on having a crew out there on Monday/Tuesday next week to do the hazmat survey in prep for the planned renovation.

Can you let whomever needs to know we will be coming.

**Erik R Plimpton, PE, CHMM, CMC**  
Vice President  
Building Sciences & Industrial Hygiene Practice Leader



21 Griffin Road North, Windsor, CT 06095  
T: 860.298.6280 | F: 860.298.6380 | C: 860.798.4699  
[LinkedIn](#) | [Twitter](#) | [Blog](#) | [www.trcsolutions.com](http://www.trcsolutions.com)



[WorkCare \(888\) 449-7787](tel:8884497787)



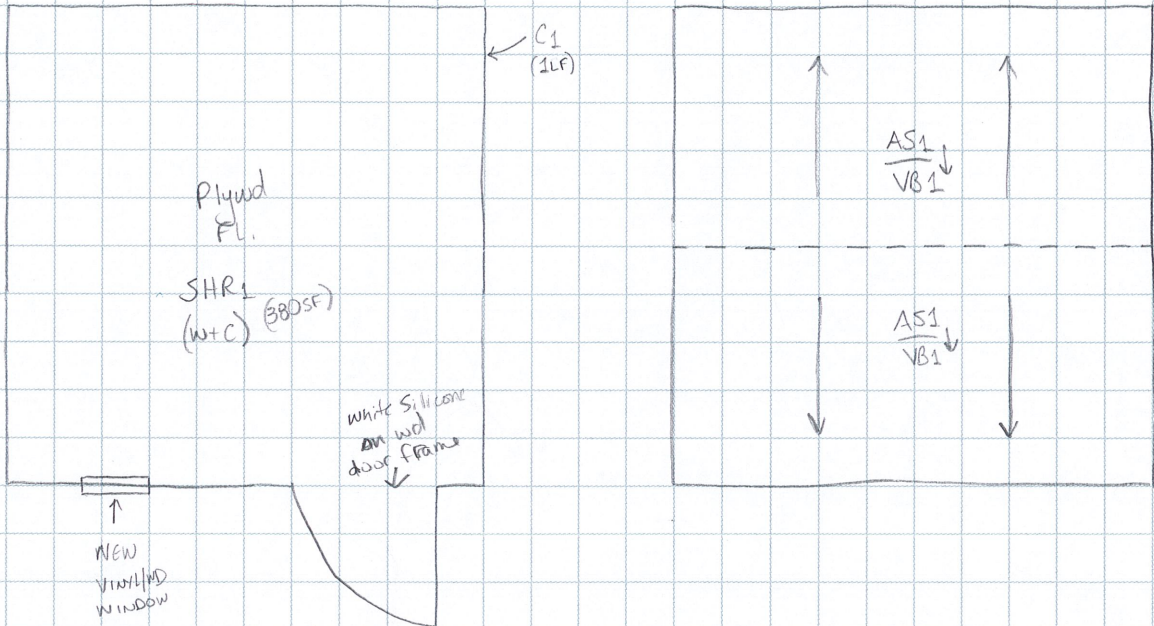
[Incident Notification Report](#)

**APPENDIX B**  
**SITE SKETCHES**



SUBJECT East Hampton Personnel Shelter

1  
1



NOTE: Pole w/ Light + Elect. Meter ~ 4' from D. Side of Shed

**APPENDIX C**

**TRC INSPECTORS LICENSES/CERTIFICATIONS**





State of Connecticut

## Lookup Detail View

Name

Name	JONATHAN D GENTILE
------	--------------------

License Information

lookup

License Type	License Number	Expiration Date	Granted Date	License Name	License Status	Licensure Actions or Pending Charges
Asbestos Consultant-Inspector	603	10/31/2018	11/10/2004	Jonathan D. Gentile	ACTIVE	None

Generated on: 2/2/2018 7:56:51 PM



# CERTIFICATE OF ACHIEVEMENT

*This certifies that*

**Jonathan Gentile**

*has successfully completed the*  
**Asbestos Site Inspector Refresher Training  
Asbestos Accreditation Under TSCA Title II  
40 CFR Part 763**

*conducted by*

**ATC Group Services LLC  
73 William Franks Drive  
West Springfield, MA 01089  
(413) 781-0070**

*Marcus Soutira*

Principal Instructor: **Marcus Soutira**

**November 16, 2017**

Date of Course

**November 16, 2018**

Expiration Date

*Gregory Morsch*

Regional Training Manager: **Gregory Morsch**

**SIAR-5870**

Certificate Number

**November 16, 2017**

Examination Date



WALLET CARD

STATE OF CONNECTICUT  
DEPARTMENT OF PUBLIC HEALTH

NAME

DAVID M. HEELON

VALIDATION NO.

03-702353

CERTIFICATE NO.

000635

CURRENT THROUGH

10/31/19

PROFESSION

ASBESTOS CONSULTANT-INSPECTOR

*David M. Heelon*

SIGNATURE

COMMISSIONER



# CERTIFICATE OF ACHIEVEMENT

*This certifies that*

**David Heelon**

*has successfully completed the*  
**Asbestos Site Inspector Refresher Training  
Asbestos Accreditation Under TSCA Title II  
40 CFR Part 763**

*conducted by*

**ATC Group Services LLC  
73 William Franks Drive  
West Springfield, MA 01089  
(413) 781-0070**

*Gregory Morsch*

*Principal Instructor* Gregory Morsch  
January 18, 2018

*Date of Course*

January 18, 2019

*Expiration Date*

*Gregory Morsch*

*Regional Training Manager* Gregory Morsch  
SLAR 5916

*Certificate Number*

January 18, 2018

*Examination Date*



WALLET CARD

STATE OF CONNECTICUT  
DEPARTMENT OF PUBLIC HEALTH

NAME

DAVID M. HEELON

VALIDATION NO.

03-702354

CERTIFICATE NO.

002188

CURRENT THROUGH

10/31/19

PROFESSION

LEAD INSPECTOR RISK ASSESSOR

*David M. Heelon*

SIGNATURE

COMMISSIONER



# CERTIFICATE OF ACHIEVEMENT

*This certifies that*

**David Heelon**

*18 Hale Street, West Springfield, MA 01089*

*has successfully completed the*  
**EPA Model Lead Risk Assessor Refresher Training**  
**745.225 (c) (8) (i)**



*conducted by*  
**ATC Group Services LLC**  
**73 William Franks Drive**  
**West Springfield, MA 01089**  
**(413) 781-0070**

*Neal S. Freud*

*Principal Instructor: Neal Freud*  
**January 12, 2018**

*Date of Course*

**January 12, 2018**

*Exam Date*

*Gregory Morsch*

*Regional Training Director: Gregory Morsch*

**ELRAR-759**

*Certificate Number*

**APPENDIX D**

**LABORATORY ACCREDITATIONS**



# State of Connecticut, Department of Public Health

## Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

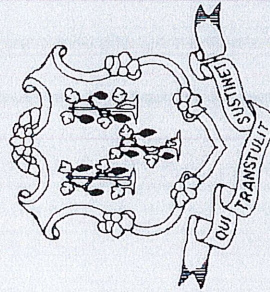
### TRC ENVIRONMENTAL CORPORATION

LOCATED AT 21 Griffin Road North IN Windsor, CT 06095  
AND REGISTERED IN THE NAME OF Erik Plimpton

THIS CERTIFICATE IS ISSUED IN THE NAME OF Kathleen Williamson WHO HAS BEEN DESIGNATED BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

BUILDING MATERIALS  
ASBESTOS FIBERS - PCM  
BULK IDENTIFICATION - PLM

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED  
EFFECTIVE RENEWAL DATE JANUARY 1, 2018  
THIS CERTIFICATE EXPIRES DECEMBER 31, 2019 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH  
DATED AT HARTFORD, CONNECTICUT, THIS 19<sup>th</sup> DAY OF December, 2017



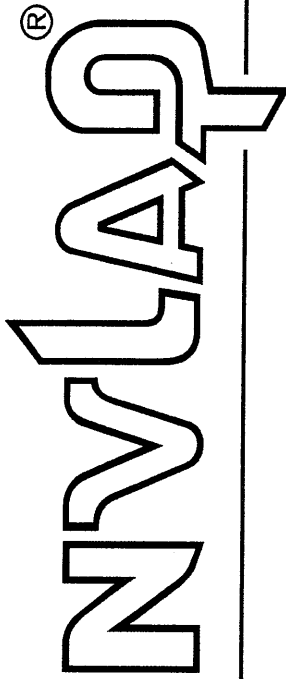
Registration  
No.

PH-0426

**SUZANNE BLANCAFLOR, MS, MPH**  
CHIEF, ENVIRONMENTAL HEALTH SECTION



United States Department of Commerce  
National Institute of Standards and Technology



---

# Certificate of Accreditation to ISO/IEC 17025:2005

---

NVLAP LAB CODE: 101424-0

**TRC Environmental Corporation**  
Windsor, CT

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

## **Asbestos Fiber Analysis**

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

2018-07-01 through 2019-06-30

Effective Dates

A handwritten signature in black ink, appearing to read "Peter S. Luman".

---

For the National Voluntary Laboratory Accreditation Program

# State of Connecticut, Department of Public Health

## Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

### PROSCIENCE ANALYTICAL SERVICES, INC.

LOCATED AT 22 Cummings Park IN Woburn, MA 01801  
AND REGISTERED IN THE NAME OF Harvey Yee  
THIS CERTIFICATE IS ISSUED IN THE NAME OF Aimee Cormier WHO HAS BEEN DESIGNATED  
BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF  
APPROVAL AS FOLLOWS:

#### SOLID WASTE/SOIL

Examination for:

Total Metals

#### ASBESTOS

Bulk Identification (PLM + TEM)

Air-Fiber Counting (PCM + TEM)

#### ENVIRONMENTAL HEALTH & HOUSING

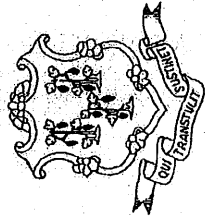
Lead in Paint

Lead (Paint) in Soil

Lead in Dust Wipes

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES December 31, 2018 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH  
DATED AT HARTFORD, CONNECTICUT, THIS 29<sup>th</sup> November 2016

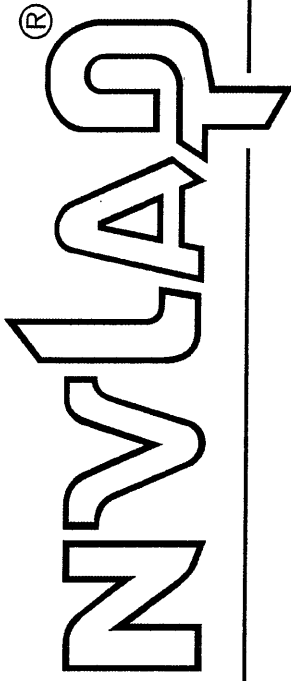


Registration #  
PH-0209

SUZANNE BLANCAFLOR, MS  
CHIEF, ENVIRONMENTAL HEALTH SECTION



United States Department of Commerce  
National Institute of Standards and Technology



---

# Certificate of Accreditation to ISO/IEC 17025:2005

---

NVLAP LAB CODE: 200090-0

**ProScience Analytical Services, Inc.**  
Woburn, MA

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

**Asbestos Fiber Analysis**

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

2018-01-01 through 2018-12-31

Effective Dates

---

A handwritten signature in black ink, appearing to read "Peter S. Saman".

---

For the National Voluntary Laboratory Accreditation Program

**APPENDIX E**

**ASBESTOS BULK SAMPLE  
CHAIN OF CUSTODY FORMS**



21 GRIFFIN ROAD NORTH  
WINDSOR, CONNECTICUT 06095  
TELEPHONE (860) 298-9692  
FAX (860) 298-6380

## ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

Edition: October 2009  
Supersedes Previous Edition

LAB ID #: **52987**

PROJECT NUMBER		PROJECT NAME		PARAMETERS		TURNAROUND TIME																	
						PLM:	TEM:	8hr	24hr	48hr	3day	5day											
222165.5751.0710		ConnDOT East Hampton Personnel Shed, 2-98 Public Works Dr, East Hampton, CT		PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	8hr	24hr	48hr	3day	5day										
SIGNATURE		INSPECTOR David Heelon, Jonathan Gentile							X	X	X	X	X	X	X	X	X						
FIELD SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION		PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL												
				COMP	GRAB						SHR1 - Lt Grey Sheetrock/White Joint Compound	SHR1 - Lt Grey Sheetrock/White Joint Compound	AS1 - Brown Asphalt Shingles	AS1 - Brown Asphalt Shingles	VB1 - Tar Paper Vapor Barrier	VB1 - Tar Paper Vapor Barrier	C1 - Dk Grey Rubbery Caulk	C1 - Dk Grey Rubbery Caulk					
01	10/30/18	08:55	X	B Side Wall	X	X	X	X															
02	10/30/18	08:59	X	Ceiling Above Door	X	X	X	X															
03	10/30/18	09:12	X	Roof	X	X	X	X															
04	10/30/18	09:05	X	Roof	X	X	X	X															
05	10/30/18	09:07	X	Roof	X	X	X	X															
06	10/30/18	09:08	X	Roof	X	X	X	X															
07	10/30/18	09:20	X	D Side	X	X	X	X															
08	10/30/18	09:20	X	D Side	X	X	X	X															

Relinquished by: (Signature) 	Date: 10/30/18	Received by: (Signature) 	Date: 10/30/18	Relinquished by: (Signature) (Printed)	Received by: (Signature) (Printed)
(Printed) Jonathan Gentile	Time: 1300	(Printed) David Heelon	Time: 1300	(Printed)	(Printed)
Remarks:	Condition of Samples: Acceptable: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Comments: Page 1 of 1		



## **APPENDIX F**

### **PLM LABORATORY ANALYSIS DATA**



**BULK ASBESTOS ANALYSIS REPORT**

CLIENT: CT Department of Transportation

Lab Log #: 0052987  
 Project #: 222165.5751.0710  
 Date Received: 10/30/2018  
 Date Analyzed: 10/31/2018

Site: East Hampton Personnel Shed, 2-98 Public Works Drive, East Hampton, CT

**POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116**

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
01	White (joint compound)	No	Yes	1	---	ND	None
01	Light Grey (sheetrock)	No	Yes	2	2% cellulose	ND	None
02	White (joint compound)	No	Yes	1	---	ND	None
02	Light Grey (sheetrock)	No	Yes	2	2% cellulose	ND	None
03	Black/Brown (shingle)	Yes	No	--	10% fibrous glass	ND	None
04	Black/Brown (shingle)	Yes	No	--	10% fibrous glass	ND	None
05	Black (vapor barrier)	Yes	No	--	60% cellulose	ND	None
06	Black (vapor barrier)	Yes	No	--	60% cellulose	ND	None
07	Dark Grey (caulk)	Yes	No	--	---	ND	None
08	Dark Grey (caulk)	Yes	No	--	---	ND	None

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0 AIHA-LAP,LLC #100122 CT #PH-0426 ME LA-0075, LB-0071 MA #AA000052 NY #10980 WV# LT000411  
 RI #AAL-007 TX #300354 VT #AL014538 LA#05011 VA #3333 000283 AZ #A20944 HI #L-09-004 NJ #CT004 CA #2907  
 CO# AL-15020 PHIL# 461 PA#68-03387



**POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116**

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
------------	-------	------------	---------------	-----------	------------------------	------------	---------------

Reporting limit- asbestos present at 1%  
 ND - asbestos was not detected  
 Trace - asbestos was observed at level of less than 1%  
 NA/PS - Not Analyzed / Positive Stop  
 SNA- Sample Not Analyzed- See Chain of Custody for details

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, EPA recommends, and certain states (e.g. NY) require, that negative results be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation 1982 (EPA 600/M4-82-020) Bulk Analysis Code 18/A01 and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials July 1993, R.L. Perkins and B.W. Harvey, (EPA/600/R-93/116) Bulk Analysis Code 18/A03, which utilize polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2019. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2019. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and QC data related to the samples is available upon written request from client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

Analyzed by: K. Williamson      Reviewed by: Cathryn Lemire      **Date Issued**  
 Kathleen Williamson, Laboratory Manager      Cathryn Lemire, Approved Signatory      10/31/2018

**TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS**

NVLAP Lab Code 101424-0      AIHA-LAP,LLC #100122      CT #PH-0426      ME LA-0075, LB-0071      MA #AA000052      NY #10980      WV# LT000411  
 RI #AAL-007      TX #300354      VT #AL014538      LA#05011      VA #3333 000283      AZ #A20944      HI #L-09-004      NJ #CT004      CA #2907  
 CO# AL-15020      PHIL# 461      PA#68-03387

## **APPENDIX G**

### **TEM LABORATORY ANALYSIS DATA**



# ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801  
 781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail general@proscience.net

# Laboratory Report


Client Project #: 222165.5751.0710  
 Client Reference: CT DOT - East Hampton Personnel Shed, 2-98 Public Works Drive, East Hampton, CT  
 PO #: C222165  
 Client #: 297  
 Client Name: TRC Environmental Corp. (CT)

Batch: NT 17538  
 Method: NOB  
 Date Received: 11/1/2018  
 Date Analyzed: 11/5/2018  
 Date of Report: 11/5/2018

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types					TRE	% Other Non-asb.	% Organic Carb.	% Total % Asbestos	Analyzed / Preped / Charged		
					CHR	AMO	ACT	CRO	ANT					Yes	No	
NT132302	04	Brown Asphalt Shingles		.2931	.00	.00	.00	.00	.00	.00	52.40	26.17	21.43	ND	Yes	No
NT132303	06	Tar Paper Vapor Barrier		.3110	.00	.00	.00	.00	.00	.00	2.64	96.27	1.09	ND	Yes	No
NT132304	08	Dk Grey Rubbery Caulk		.3443	.00	.00	.00	.00	.00	.00	1.39	43.25	55.36	ND	Yes	No

**Comments:**

Key: CHR = Chrysotile AMO = Amosite CRO = Crocidolite ACT = Actinolite TRE = Tremolite TR = Trace = < 1% ND = None Detected

  
 Mark Derosier, Analyst

**APPENDIX H**

**LEAD PAINT XRF MEASUREMENT TABLE**



### Lead Based Paint Measurement Summary Table

**Device(s):** Niton XLP301-A (Serial #24792) X Ray Fluorescence (XRF) Spectrum Analyzer  
**Site:** East Hampton Personnel Shelter, East Hampton, Connecticut  
**Project # :** 222165-5751-0710  
**Date(s):** 10/30/2018  
**Inspector:** David Heelon (CT Lead Inspector Risk Assessor License #002188)

Number	Room	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm2)	Precision (mg/cm2)	Depth Index	Duration (sec)	Date/Time
1	Shutter calibration							2.7	0.0	0.0	120.27	10/30/2018 8:41
2	0.0 calibration							0.0	0.0	1	2.67	10/30/2018 8:50
3	0.3 calibration							0.3	0.1	1.1	2.67	10/30/2018 8:50
4	1.6 calibration							1.6	0.3	1.16	2.86	10/30/2018 8:51
5	Shed	C	Wall	Wall	Sheetrock	Yellow	Intact	0.0	0.0	1	6.64	10/30/2018 8:54
6	Shed	B	Wall	Wall	Sheetrock	Yellow	Intact	0.0	0.0	1	3.61	10/30/2018 8:55
7	Shed	--	Ceiling	Ceiling	Sheetrock	White	Intact	0.0	0.0	1	3.04	10/30/2018 8:56
8	Shed	--	Floor	Floor	Wood	Blue	Intact	0.0	0.0	1	2.67	10/30/2018 8:58
9	Shed	--	Floor	Floor	Wood	Blue	Intact	0.0	0.0	1	2.47	10/30/2018 8:59
10	Shed	A	Window	Casing	Wood	Black	Intact	0.0	0.0	1	2.67	10/30/2018 9:01
11	Shed	D	Wall	Wood panel	Wood	Black	Intact	0.0	0.0	1	2.87	10/30/2018 9:04
12	Shed	A	Radiator		Metal	Brown	Intact	0.0	0.0	1.04	2.66	10/30/2018 9:07
13	Exterior shed	A	Shed	Siding	Wood	Brown	Intact	0.0	0.0	1	4.01	10/30/2018 9:11
14	Exterior shed	B	Shed	Siding	Wood	Brown	Intact	0.0	0.0	1	2.66	10/30/2018 9:13
15	Exterior shed	C	Shed	Down Spout	Metal	Brown	Intact	0.0	0.0	1.68	2.85	10/30/2018 9:16
16	Exterior shed	A	Shed	Door	Metal	Brown	Intact	0.0	0.0	1	2.66	10/30/2018 9:17
17	0.0 calibration							0.0	0.0	1	2.65	10/30/2018 9:18
18	0.3 calibration							0.4	0.1	1.17	2.67	10/30/2018 9:19
19	1.6 calibration							1.6	0.3	1.17	3.04	10/30/2018 9:19

Lead paint includes paint found to contain **any detectable** amount of lead by Atomic Absorption Spectrophotometry (AAS) or X-Ray Fluorescence (XRF).

## **APPENDIX I**

# **COMPOSITE BUILDING MATERIAL WASTE CHARACTERIZATION DATA**



STATE OF CONNECTICUT  
DEPARTMENT OF ENVIRONMENTAL PROTECTION



January 26, 2004

Mr. Erik R. Plimpton, P.E., CHMM, Senior Consulting Engineer  
TRC Environmental Corporation  
5 Waterside Crossing  
Windsor, CT 06095

**RE:** Characterization of lead-based paint debris.

Dear Mr. Plimpton:

Pursuant to our recent discussions by email, I am writing to confirm that the policy elaborated in my July 22, 1997 letter to Steven Murdzia of ATC Associates concerning the use of XRF testing to characterize lead-based paint debris is still in effect. In particular, my statement in that letter that obtaining an XRF reading less than 1.0 mg/cm<sup>2</sup> is sufficient to demonstrate that a given debris is not a hazardous waste is still our current policy.

As noted in my July 22, 1997 letter, this policy is subject to the following limitations:

- 1.) The material being sampled consists only of building debris (such as painted wood or masonry). Non-debris materials (such as concentrated paint chips, sand blasting debris, or paint stripping wastes) may not be characterized in this manner.
- 2.) The material being sampled has only surficial lead contamination (i.e. lead-based paint). Materials which have more than just surficial contamination (such as floor boards soaked with lead plating solutions) may not be characterized in this manner.
- 3.) The material is sampled in accordance with appropriate protocols regarding sampling frequency and location, to ensure that the reading of 1.0 mg/cm<sup>2</sup> or less is truly representative of the material as a whole.

I should also note that this approach is only useful in situations in which all of a particular debris stream does not exceed 1.0 mg/cm<sup>2</sup>. If portions of the debris stream exceed 1.0 mg/cm<sup>2</sup>, you cannot use this standard to characterize the debris, and must resort to another method (such as composite sampling). In addition, in employing this method to characterize the debris, the areas which had XRF readings under the 1.0 mg/cm<sup>2</sup> limit must not be ignored (since falling below the standard only means they are not hazardous, not that they are lead-free).

My July 22, 1997 letter also addressed the use of the Connecticut Department of Public Health's 0.5 weight percent limit for a "toxic" level of lead under its lead abatement regulations in order to determine whether or not lead-based paint debris is hazardous. Unlike the 1.0 mg/cm<sup>2</sup> XRF standard, the weight percent number is not appropriate for waste characterization purposes, due to a lack of relevant data. The 1.0 mg/cm<sup>2</sup> XRF policy discussed above was based on certain data generated by EPA correlating XRF readings to TCLP sampling of architectural debris.<sup>1</sup> While EPA's data did not show a predictable relationship between these two measures, it did indicate that there was an XRF threshold below which such debris did not contain sufficient lead to fail TCLP. However, there is no similar data establishing a similar threshold for weight percent lead in lead-based paint below which debris does not fail TCLP.

I should also note that we intend to include the above policy in the next revision of our lead-based paint guidance document, Guidance for the Management and Disposal of Lead-Contaminated Materials Generated in the Lead Abatement, Renovation, and Demolition Industries, which was last revised in 1996, prior to the letter to Mr. Murdzia.

Sincerely,



Ross Q. Bunnell, Sanitary Engineer 3  
Bureau of Waste Management  
Engineering & Enforcement Division

RQB:rqb


Attachment: March, 1993 EPA Guidance Document

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<sup>1</sup> See in particular the March 1993 EPA guidance document entitled "Applicability of RCRA Disposal Requirements to Lead-Based Paint Abatement Wastes," Page 16, Table II. A copy of this guidance document is attached.

**APPENDIX J**  
**RELATED CORRESPONDENCE**

**ConnDOT, East Hampton Personnel Shed, Middlesex, , East Hampton, 06424, CT, US, Public Works Dr, 2-98**

Created 2018-10-30 08:35:00 EDT by Jonathan Gentile  
Updated 2018-10-30 12:38:09 EDT by Jonathan Gentile  
Location 41.5645713732034, -72.5422807038506  
Status  Survey Complete

**Job Information**

Site Name East Hampton Personnel Shed  
Address 2-98 Public Works Dr  
East Hampton, CT 06424  
TRC Project Number 222165.5751.0710  
Project Manager Erik Plimpton  
Inspector(s) David Heelon, Jonathan Gentile  
Client ConnDOT  
Type of Asbestos Survey Reno/Demo  
Additional Analysis for NOB Materials (Calc) TEM NY NOB 198.4  
PLM Turnaround Time (TAT) 48-hour  
TEM Turnaround Time (TAT) 48-hour  
Date 2018-10-30  
General Notes Demo survey of small wooden personnel shed on East Hampton Salt Shed property. Wood structure with Sheetrock walls, plywood floor and Asphalt Shingles. Structure sits on concrete slab base. No lead found so no TCLP required.



Overview Photo



Surveys Performed

Asbestos, XRF, Hazardous Materials Inventory

Asbestos Section

**( 2 ), SHR, 1, Lt Grey Sheetrock/White Joint Compound**

Representative Photos



**01, B Side Wall**

Sample Number	01
Sample Location	B Side Wall
Analyze by Layer	Yes
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-10-30
Time	08:55

**02, Ceiling Above Door**

Sample Number	02
Sample Location	Ceiling Above Door
Analyze by Layer	Yes
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-10-30
Time	08:59

**Material Information**

Sampled or Assumed?	Sampled
Material Acronym	SHR, 1
Material Description	Lt Grey Sheetrock/White Joint Compound



Is Material a Non-Friable Organically Bound (NOB)	No
Homogeneous Area	Walls and Ceiling
Total Approximate Quantity	380 SF
Total Count	( 2 )

**( 2 ), AS, 1, Brown Asphalt Shingles**

Representative Photos



**03, Roof**

Sample Number	03
Sample Location	Roof
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-10-30
Time	09:12

**04, Roof**

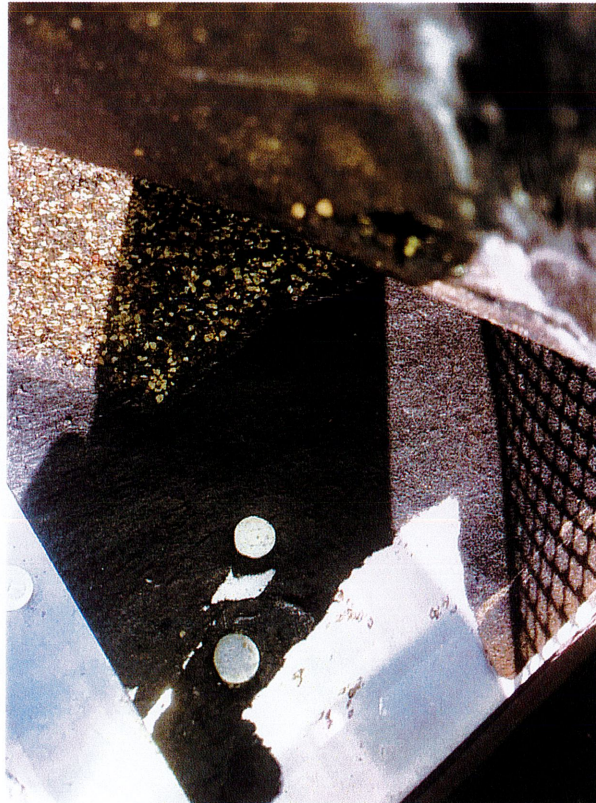
Sample Number	04
Sample Location	Roof
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-10-30
Time	09:05

## Material Information

Sampled or Assumed?	Sampled
Material Acronym	AS, 1
Material Description	Brown Asphalt Shingles
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Roof
Total Approximate Quantity	140 SF
Total Count	( 2 )

## ( 2 ), VB, 1, Tar Paper Vapor Barrier

Representative Photos



## 05, Roof

Sample Number	05
Sample Location	Roof
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-10-30
Time	09:07

## 06, Roof

Sample Number	06
Sample Location	Roof
Analyze by Layer	No



Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-10-30
Time	09:08

**Material Information**

Sampled or Assumed?	Sampled
Material Acronym	VB, 1
Material Description	Tar Paper Vapor Barrier
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Roof under AS1
Total Approximate Quantity	140 SF
Total Count	( 2 )

**( 2 ), C, 1, Dk Grey Rubbery Caulk**

Representative Photos



**07, D Side**

Sample Number	07
Sample Location	D Side
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-10-30
Time	09:20

## 08, D Side

Sample Number	08
Sample Location	D Side
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-10-30
Time	09:20

## Material Information

Sampled or Assumed?	Sampled
Material Acronym	C, 1
Material Description	Dk Grey Rubbery Caulk
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Exterior D Side Wall
Total Approximate Quantity	1 LF
Total Count	( 2 )

## XRF Section

Niton XRF Model No.	24792
XRF Survey Completed	Yes
XRF Data Downloaded	No
XRF Shots >1.0 on non-metallic building materials	Yes
Date Data Downloaded	2018-10-30

## HAZMAT Inventory Section

### Interior

Inventory Area Description	Interior
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### Connecticut Regulated Waste (CRW CR01-CR05), PCB Lamp Ballast (CR01)

HAZMAT Item Description	Connecticut Regulated Waste (CRW CR01-CR05), PCB Lamp Ballast (CR01)
HAZMAT Item Quantity	1

### Universal Waste (UW), Fluorescent bulbs

HAZMAT Item Description	Universal Waste (UW), Fluorescent bulbs
HAZMAT Item Quantity	2

### Universal Waste (UW), Other Electronic Recyclables (Circuit boards)

HAZMAT Item Description	Universal Waste (UW), Other Electronic Recyclables (Circuit boards)
HAZMAT Item Common Name	Tank Management System
HAZMAT Item Quantity	1

### Universal Waste (UW), Other Electronic Recyclables (Circuit boards)

HAZMAT Item Description	Universal Waste (UW), Other Electronic Recyclables (Circuit boards)
HAZMAT Item Common Name	Cisco Modem
HAZMAT Item Quantity	1

### Miscellaneous, Smoke Detectors (LLRW)

HAZMAT Item Description	Miscellaneous, Smoke Detectors (LLRW/Circuit Boards)
HAZMAT Item Quantity	1

### Miscellaneous, Various cleaning supplies & chemicals

HAZMAT Item Description	Miscellaneous, Various cleaning supplies & chemicals
HAZMAT Item Common Name	Various sm qty of cleaners/household chemicals probably will be taken for re-use prior to demo.
HAZMAT Item Quantity	9

HAZMAT Item Photo







## Exterior

Inventory Area Description Exterior

### Connecticut Regulated Waste (CRW CR01-CR05), Halogen Lamp Ballast (CR01)

HAZMAT Item Description Connecticut Regulated Waste (CRW CR01-CR05), Halogen Lamp Ballast (CR01)

HAZMAT Item Quantity 1

### Universal Waste (UW), Halogen Lights (Lamps)

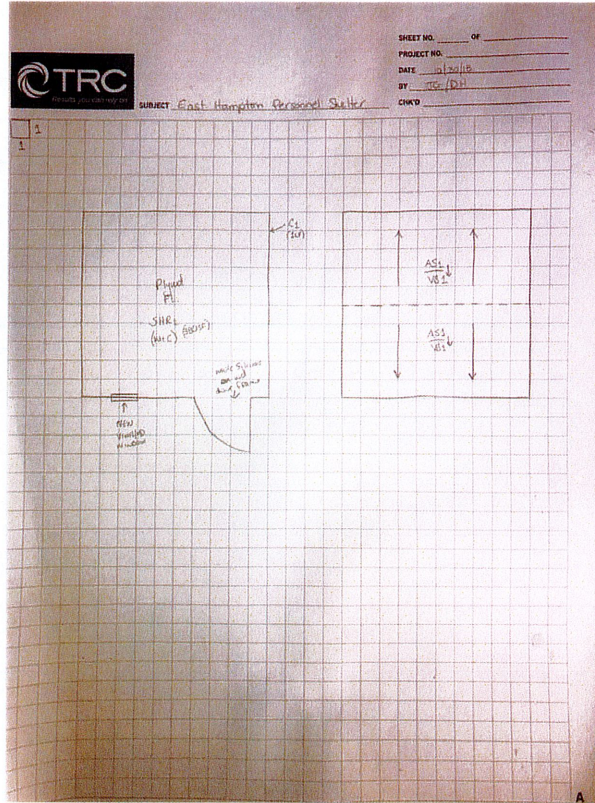
HAZMAT Item Description Universal Waste (UW), Halogen Lights (Lamps)

HAZMAT Item Quantity 1

## General Information



Site Sketch Diagrams



Signature

Signed 2018-10-30 12:36:48 EDT

Asbestos Samples Submitted to TRC Lab	Yes
Date Submitted to Lab	2018-10-30
App Name	WinBSI HBM Survey 1.0

PROJECT ID	DEPT ID	LOCATION ID	LOCATION DESCRIPTION	STREET ADDRESS	CITY	STATE	ZIP	TOTAL COST
<b>TOWN OF EAST GRANBY:</b>								
09400007	094SB		RADIO SHACK	Parnassus Mountain Road	East Haddam	CT	06423	\$ 3,034,661.17
09400486	094 I		GENERATOR HOUSE	Rte. 82	East Haddam	CT	06423	\$ 440.00
09400718	094SF		STORAGE SHED A	Swing Bridge	East Haddam	CT	06423	\$ 30,000.00
<b>TOWN OF EAST HADDAM:</b>								
09300117	093SJ		DRAINAGE/GRADING/PAVING	Route 16 & 66	East Hampton	CT	06424	\$ 7,245.00
09400442	094SE		SALT SHED	RTE 66	EAST HAMPTON	CT	06424	\$ 147,449.00
09400517	094SG		PERSONNEL SHELTER	Route 66	East Hampton	CT	06424	\$ 295,889.00
08100145	081GA		SIGN/MAINTENANCE GARAGE	Rtes. 16 & 66	East Hampton	CT	06424	\$ 7,245.00
08100214	081BC		SIGN STORAGE	161 Clement Road	East Hartford	CT	06118	\$ 85,071.00
08100236	081GB		MAINTENANCE GARAGE	161 Clement Road	East Hartford	CT	06118	\$ 21,963.00
08100672	081BC		PAINT STORAGE BUILDING	161 Clement Road	East Hartford	CT	06118	\$ 154,670.00
09300131	093SI		DRAINAGE/GRADING/PAVING	161 Clement Road	East Hartford	CT	06118	\$ 714,534.00
09300138	093SI		STORAGE PAD	I-84	EAST HARTFORD	CT	06118	\$ 158,450.00
09400439	094SE		SALT SHED	161 CLEMENT ROAD	EAST HARTFORD	CT	06118	\$ 12,000.00
09300357	093SI		PAVING/DRAINAGE	Route I-84 (Silver Lane & Roberts St)	East Hartford	CT	06118	\$ 523,503.00
<b>TOWN OF EAST HARTFORD:</b>								
3100252	081GD		REPAIR GARAGE	N HOLLOW ROAD RTE 20	EAST HARTLAND	CT	06027	\$ 243,516.00
3100392	081BC		MATERIAL STORAGE	507 North High Street	East Haven	CT	06512	\$ 379,179.00
3300110	093SI		CHAIN FENCE	North High Street	East Haven	CT	06512	\$ 18,534.00
3300140	093SI		FENCE/GATE	NORTH HIGH STREET	EAST HAVEN	CT	06512	\$ 6,000.00
100172	081GC		OFFICE/MAINTENANCE GARAGE	507 NORTH HIGH STREET	EAST HAVEN	CT	06512	\$ 1,739.00
200601	082GA		GRAVEL BANK	279 Flanders Road	East Lyme	CT	06333	\$ 101,703.00
200603	082SA		SAND BANK	RTE 1	EAST LYME	CT	06333	\$ 300.00
					EAST LYME	CT	06333	\$ 50.00