

SURVEY REPORT

**PRE-RENOVATION
INVESTIGATIVE SURVEY FOR
HAZARDOUS BUILDING MATERIALS**

**MARLBOROUGH MAINTENANCE
FACILITY
MARLBOROUGH, 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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TRC Project No. 222165.5751.0710
Issued-November 2018

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PROJECT OUTLINE

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

Site Address: Marlborough Maintenance Facility, Marlborough, CT

TRC Project No.: 222165.5751.0710
Asbestos Inspector(s): Jonathan Gentile (LIC #000603)
David Heelon (LIC #000635)
Lead Inspector: David Heelon (LIC #002188)
Date(s) of Inspection: 10/29/18

Asbestos Identified: Yes
Lead Paint Identified: Yes
Gen. Bldg. Mat. Haz Waste: No, the only readings above 1.0 mg/cm² were on components not projected to be impacted by renovation activities.

Add'l Haz./Reg. Mat./Waste/Items: Yes (See Table 6)
EPA PCB Caulks Identified: Yes (Not sampled/confirmed but presumed)

Additional Notes:

The property consists of a one-story Maintenance Facility with garage bays (and a detached shed which was not included in the scope of the inspection). The building is scheduled for renovations including: roof replacement, window infill installation, overhead door replacement, removal of water/sanitary service/wastewater piping and accessories, removal of oil-fired and electric heating systems, removal of obsolete electrical system components, conduit and wiring, sealing of all floor drains/bay area doors and demolition of the bathroom and tool crib/rest area. The building was fully occupied at the time of the inspection. Oil underground storage tanks (UST) of unknown size were buried on the C-side of the building but are not part of the renovation project.

TABLES

**TABLE 1
BULK SAMPLE SUMMARY OF SUSPECT ASBESTOS CONTAINING MATERIALS
MARLBOROUGH MAINTENANCE FACILITY
MARLBOROUGH, CONNECTICUT**

Sample No.	Sample Location	Type of Homogeneous Material	% and Type Asbestos
2001 ENVIROMED INSPECTION			
1	Main Building – Office	12" cream vinyl floor tile (FT2)	NAD
2	Main Building – Office	12" cream vinyl floor tile (FT2)	NAD
3	Main Building – Office	Mastic under 12" cream vinyl floor tile (FT2)	NAD
4	Main Building – Office	Mastic under 12" cream vinyl floor tile (FT2)	NAD
5	Main Building – Women's Bathroom	12" tan vinyl floor tile (FT1?)	NAD
6	Main Building – Women's Bathroom	12" tan vinyl floor tile (FT1?)	NAD
7	Main Building – Women's Bathroom	Mastic under 12" tan vinyl FT1?	NAD
8	Main Building – Women's Bathroom	Mastic under 12" tan vinyl FT1?	NAD
9	Main Building – Women's Bathroom	4" brown cove base (CB1)	NAD
10	Main Building – Office	4" brown cove base (CB1)	NAD
11	Main Building – Women's Bathroom	Glue behind 4" brown cove base (CB1)	NAD
12	Main Building – Office	Glue behind 4" brown cove base (CB1)	NAD
13	Main Building – Office	2'x4' suspended ceiling tile "slots with pin holes" – type 1	NAD
14	Main Building – Office	2'x4' suspended ceiling tile "slots with pin holes" – type 1	NAD
15	Main Building – Hallway	2'x4' suspended ceiling tile "smooth white" – type 2	NAD
16	Main Building – Hallway	2'x4' suspended ceiling tile "smooth white" – type 2	NAD
17	Main's Building – Women's Bathroom	2'x4' suspended ceiling tile "slots with many pin holes" – type 3	NAD
18	Main's Building – Women's Bathroom	2'x4' suspended ceiling tile "slots with many pin holes" – type 3	NAD
19	Main Building – Men's Bathroom	Wallboard	NAD
20	Main Building – Men's Bathroom	Wallboard	NAD
21	Main Building – Men's Bathroom	Ceiling cardboard	NAD
22	Main Building – Men's Bathroom	Ceiling cardboard	NAD

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

1 NOB Result confirmed by TEM analyses

** However, result refuted by subsequent sampling by TRC in 2011.

**TABLE 1
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MARLBOROUGH MAINTENANCE FACILITY
MARLBOROUGH, CONNECTICUT**

Sample No.	Sample Location	Type of Homogeneous Material	% and Type Asbestos
23	Main Building – Bay floor	Black expansion joint	NAD
24	Main Building – Bay floor	Black expansion joint	NAD
25	Main Building – garage window, west bays	Interior window glazing	5%
26	Main Building – garage window, east bays	Interior window glazing	3%
27	Main Building garage – east bays	Interior door frame sealer	NAD
28	Main Building – hallway	Interior door frame sealer	NAD
29	Main Building – exterior office	Exterior office window sealer (C1)	NAD
30	Main Building – exterior office	Exterior office window sealer (C1)	NAD
31	Main Building – exterior west bays	Exterior overhead door sealer (C2)	NAD
32	Main Building – exterior east bays	Exterior overhead door sealer (C2)	NAD
33	Main Building – exterior west door	Exterior door frame sealer (C2)	NAD
34	VOID	VOID	VOID
35	Main Building – exterior garage wall	Exterior block wall expansion sealer (C3)	NAD
36	Main Building – exterior garage wall	Exterior block wall expansion sealer (C3)	NAD
37	Main Building – garage bay space heater #1	Burner gasket	NAD
38	Main Building – garage bay space heater #1	Fire chamber felt	NAD
39	Main Building – garage bay space heater #2	Burner gasket	NAD
40	Main Building – garage bay space heater #2	Fire chamber felt	NAD
41	Main Building – garage bay space heater #3	Burner gasket	NAD
42	Main Building – garage bay space heater #3	Fire chamber felt	NAD
43	Main Building – Men's Bathroom	Wallboard compound	NAD
44	Main Building – Men's Bathroom	Wallboard compound	NAD

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MARLBOROUGH MAINTENANCE FACILITY
MARLBOROUGH, CONNECTICUT**

Sample No.	Sample Location	Type of Homogeneous Material	% and Type Asbestos
45	Main Building – Men’s Bathroom	Wallboard compound	NAD
46	Main Building – garage bay window east	Interior window glazing	NAD ⁺
47	Main Building – roof	Built-up roofing material top layer – cement	NAD
48	Main Building – roof	Built-up roofing material second layer – felt	3%**
49	Main Building – roof	Built-up roofing material third layer – felt	3%**
50	Main Building – roof	Built-up roofing material bottom layer – cement	NAD
51	Main Building – roof	Gray felt paper flashing	55%
52	Main Building – roof	Gray felt paper flashing	55%
53	Main Building – roof	Gray flashing cement	40%
54	Main Building – roof	Gray flashing cement	40%
55	Main Building – exterior	Gutter sealer	NAD
56	Main Building – exterior	Gutter sealer	NAD
57	Shed 1 – roof	Tan asphalt roof shingle	NAD
58	Shed 1 – roof	Tan asphalt roof shingle	NAD
59	Shed 1 – roof	Siding felt paper	NAD
60	Shed 1 – roof	Siding felt paper	NAD
61	Shed 2 – roof	Gray asphalt roof shingle	NAD
62	Shed 2 – roof	Gray asphalt roof shingle	NAD
63	Shed 2 – roof	Felt paper under roof shingles	NAD
64	Shed 2 – roof	Felt paper under roof shingles	NAD
2011 TRC INSPECTION			
01	C-side roof	Silver tar, black tar, black tar	ND<1% ¹
02	A-side roof	Silver tar, black tar, black tar	ND<1%
03	C-side roof	Black tar coating on decking	ND<1% ¹
04	A-side roof	Black tar coating on decking	ND<1%

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MARLBOROUGH MAINTENANCE FACILITY
MARLBOROUGH, CONNECTICUT**

Sample No.	Sample Location	Type of Homogeneous Material	% and Type Asbestos
05	C-side roof perimeter	Silver tar w/tar underside – flashing	20% chrysotile
06	D-side roof perimeter	Silver tar w/tar underside – flashing	NA/PS
07	Roof – location A	Silver/black top & middle layer roofing	ND<1%
08	Roof – location A	Black tar coating on corrugated metal deck	ND<1%
09	Roof – location B	Silver/black top & middle tar layer roofing	ND<1% ¹
10	Roof – location B	Black tar coating on corrugated metal deck	ND<1% ¹
11	Roof – location C	Silver/black top & middle tar layer roofing	ND<1%
12	Roof – location C	Black tar coating on corrugated metal deck	ND<1%
2018 TRC INSPECTION			
1	Bay 2 exterior roll-up door frame	C1 – grey rubbery exterior window/roll-up door caulk	ND ¹
2	Bay 2 exterior roll-up door frame	C2 – brown rubbery exterior roll-up door caulk	ND ¹
3	Exterior D-side by Men’s Bathroom	C3 – white pliable exterior building caulk (Note: material was added to fill cracks in mortar joints so is not in all joints)	ND ¹
4	Women’s Bathroom	CB1 – 4” brown cove base	ND ¹
		Cream glue associated with CB1	ND ¹
5	Hall door to Break area	DWG1 – grey sticky/gummy metal door window glaze	9.57% chrysotile ¹
6	Hall door to Garage Bays 4-9	DWG1 – grey sticky/gummy metal door window glaze	Trace chrysotile ⁺
7	Office door	DWG2 – light grey gummy wood door window glaze	Trace anthophyllite ¹
8	Office door	DWG2 – light grey gummy wood door window glaze	ND
9	Base of exterior wall C-side by rest area	EJ1 – black tar-like floor expansion joint pad	Trace chrysotile ¹

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**TABLE 1
BULK SAMPLE SUMMARY OF SUSPECT ASBESTOS CONTAINING MATERIALS
MARLBOROUGH MAINTENANCE FACILITY
MARLBOROUGH, CONNECTICUT**

Sample No.	Sample Location	Type of Homogeneous Material	% and Type Asbestos
10	Women's Bathroom	FT1 – 12"x12" tan w/light & dark brown streaks floor tile	ND ¹
		Black mastic associated with FT1	ND ¹
11	Women's Bathroom	FT1 – 12"x12" tan w/light & dark brown streaks floor tile	ND
		Black mastic associated with FT1	ND
12	Office	FT2 – 12"x12" cream w/thin brown streaks floor tile	ND ¹
		Yellow mastic associated with FT2	ND ¹

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

¹ NOB Result confirmed by TEM analyses

** However, result refuted by subsequent sampling by TRC in 2011.

**TABLE 2
IDENTIFIED ASBESTOS CONTAINING MATERIALS (>1%)
MARLBOROUGH MAINTENANCE FACILITY
MARLBOROUGH, CONNECTICUT**

Material	Sampled/ Assumed (mo/yr)	General Location	NESHAP Category	AHERA Category	Estimated Quantity
Interior window glazing	EnviroMed 2001	Main Building – garage bays, office	Category II Non-friable	Miscellaneous	15 EA
Gray felt paper flashing	EnviroMed 2001	Main Building – roof perimeter over bay doors	Category I Non-friable	Miscellaneous	150 SF
Gray flashing cement	EnviroMed 2001	Main Building – roof perimeter over bay doors	Category I Non-friable	Miscellaneous	150 SF
Silver tar w/tar underside – flashing	TRC Sampled 10/11	Roof perimeter/ penetrations	Category I Non-friable	Miscellaneous	400 SF
DWG1 – grey sticky/gummy metal door window glaze	TRC Sampled 10/18	Hall int door to Break area, Hall int door to Garage Bays 4-9	Category II Non-friable	Miscellaneous	2 EA

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%)
MARLBOROUGH MAINTENANCE FACILITY
MARLBOROUGH, CONNECTICUT

Material	General Location
12" cream vinyl floor tile & associated mastic (FT2)	Main Building – Office
12" tan vinyl floor tile & associated mastic (FT1?)	Main's Building – Women's Bathroom
4" brown cove base & associated glue (CB1)	Main's Building – Women's Bathroom, Office
2'x4' suspended ceiling tile "slots with pin holes" – type 1	Main Building – Office
2'x4' suspended ceiling tile "smooth white" – type 2	Main Building – Hallway
2'x4' suspended ceiling tile "slots with many pin holes" – type 3	Main's Building – Women's Bathroom
Wallboard	Main Building – Men's Bathroom
Ceiling cardboard	Main Building – Men's Bathroom
Black expansion joint	Main Building – Bay floor
Interior door frame sealer	Main Building – hallway , east bays
Exterior office window sealer (C1)	Main Building – bays at sides of each roll-up frame
Exterior overhead door sealer (C2)	Main Building – bays at sides of each roll-up frame
Exterior door frame sealer (C2)	Main Building – exterior west door
Exterior block wall expansion sealer (C3)	Main Building – exterior garage wall at vents & joints
Burner gasket	Main Building – garage bay space heater #1, heater #2, heater #3
Fire chamber felt	Main Building – garage bay space heater #1, heater #2, heater #3
Wallboard compound	Main Building – Men's Bathroom
Built-up roofing material top layer – cement	Main Building – roof
Built-up roofing material bottom layer – cement	Main Building – roof
Built-up roofing materials – all layers	Main Building - roof
Gutter sealer	Main Building – exterior
Tan asphalt roof shingle	Shed 1 – roof
Siding felt paper	Shed 1 – roof
Gray asphalt roof shingle	Shed 2 – roof
Felt paper under roof shingles	Shed 2 – roof
DWG2 – light grey gummy wood door window glaze	Office door
EJ1 – black tar-like floor expansion joint pad	Base of exterior wall C-side by rest area, interior B, C & D-walls
FT1 – 12"x12" tan w/light & dark brown streaks floor tile & associated black mastic	Women's Bathroom
FT2 – 12"x12" cream w/thin brown streaks floor tile & associated yellow mastic	Office

* However, associated layers are positive.

TABLE 4 SUMMARY OF LEAD PAINT XRF MEASUREMENTS MARLBOROUGH MAINTENANCE FACILITY MARLBOROUGH, CONNECTICUT					
Structure	No. of Measurements	Calibrations	Void	Lead Detected	No Lead Detected
EnviroMed Sampling 2001					
Maintenance Facility	20	1	0	19	0
TRC Sampling 2018					
One-story Maintenance Facility	36	8	0	4	24

See Lead Paint XRF Measurement Table in Appendix H.

**TABLE 5
SUMMARY OF COMPOSITE BUILDING MATERIAL WASTE CHARACTERIZATION
MARLBOROUGH MAINTENANCE FACILITY
MARLBOROUGH, CONNECTICUT**

Waste Stream	Metal	mg/L Leachate	Hazardous/Non-Hazardous
Bldg. Material Composite (Excluding metal substrates)	<p style="text-align: center;"><u>No</u> TCLP sample for Lead warranted as XRF readings on non-metallic components scheduled for renovation impact were all below 1.0 mg/cm² and therefore the debris is presumed as <u>non-hazardous</u> per CTDEEP/USEPA clarification memo of January 26, 2004. Readings above 1.0 mg/cm² were only identified on components not projected to be impacted by renovation activities.</p>		

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 I 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
MARLBOROUGH MAINTENANCE FACILITY
MARLBOROUGH, CONNECTICUT**

Quantity	Size	Material / Item	General Location	Potential Hazard
5	-	Halogen Lamp Ballast (CR01)	Tool Crib/Break Area	Connecticut Regulated Waste (CRW CR01-CR05)
5	-	Halogen Lights (Lamps)	Tool Crib/Break Area	Universal Waste (UW)
2	-	Emergency Lighting (Batteries/Hg Lamps)	Tool Crib/Break Area	Universal Waste (UW)
3	-	Motion Sensors/Heat Sensors (Circuit boards)	Tool Crib/Break Area	Universal Waste (UW)
1	-	Mercury Thermostats (Ampoule)	Tool Crib/Break Area	Universal Waste (UW)
2	-	Fire Alarm Pull Box	Tool Crib/Break Area	Universal Waste (UW)
1	-	Fire Alarm Strobe	Tool Crib/Break Area	Universal Waste (UW)
8	-	PCB Lamp Ballast (CR01)	Bathrooms and Office	Connecticut Regulated Waste (CRW CR01-CR05)
17	-	Fluorescent bulbs	Bathrooms and Office	Universal Waste (UW)
2	-	Motion Sensors/Heat Sensors (Circuit boards)	Bathrooms and Office	Universal Waste (UW)
1	-	Air Conditioner	Bathrooms and Office	Refrigerants (CFCs/Freon)
1	-	Water Fountains	Bathrooms and Office	Refrigerants (CFCs/Freon)

- 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)

**TABLE 6
INVENTORY OF ADDITIONAL HAZARDOUS/REGULATED
MATERIALS, WASTES AND ITEMS IDENTIFIED
MARLBOROUGH MAINTENANCE FACILITY
MARLBOROUGH, CONNECTICUT**

Quantity	Size	Material / Item	General Location	Potential Hazard
11	-	Halogen Lamp Ballast (CR01)	Main Garage Area (Bays 4-9)	Connecticut Regulated Waste (CRW CR01-CR05)
11	-	Halogen Lights (Lamps)	Main Garage Area (Bays 4-9)	Universal Waste (UW)
2	-	Emergency Lighting (Batteries/Hg Lamps)	Main Garage Area (Bays 4-9)	Universal Waste (UW)
2	-	Fire Alarm Strobe	Main Garage Area (Bays 4-9)	Universal Waste (UW)
1	-	Fire Alarm Pull Box	Main Garage Area (Bays 4-9)	Universal Waste (UW)
1	-	Mercury Thermostats (Ampoule)	Main Garage Area (Bays 4-9)	Universal Waste (UW)
4	-	Motion Sensors/Heat Sensors (Circuit boards)	Main Garage Area (Bays 4-9)	Universal Waste (UW)
3	-	Halogen Ballasts	Exterior	Connecticut Regulated Waste (CRW CR01-CR05)
3	-	Halogen Lights	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)

**TABLE 7
IDENTIFIED/PRESUMED PCB CONTAINING MATERIALS
BROOKFIELD MAINTENANCE FACILITY – MAIN BUILDING
BROOKFIELD, CONNECTICUT**

Material	Sample Date (mo/yr)	General Location	Adjacent Substrates	Estimated Quantity
CTDEEP REGULATED PCB CONTAINING MATERIALS (> 1 ppm, < 50 ppm)				
NO CTDEEP REGULATED PCB CONTAINING MATERIALS WERE POSITIVELY IDENTIFIED IN THE SUBJECT AREA				
EPA REGULATED PCB BULK PRODUCT WASTE (≥ 50 ppm)				
NO EPA REGULATED PCB BULK PRODUCT WASTES WERE POSITIVELY IDENTIFIED IN THE SUBJECT AREA				
<u>POTENTIAL</u> EPA REGULATED PCB BULK PRODUCT WASTE (≥ 50 ppm)				
WG1 – Grey Brittle Interior Window Glaze*	Not yet sampled- manage as possible PCB unless confirmed/refuted	Main Building – garage bays, office	Metal/Glass	15 EA
C1 – Grey Rubbery Roll-Up Door/Window Caulk	Not yet sampled- manage as possible PCB unless confirmed/refuted	Main Building – bays at sides of each roll-up frame & exterior office windows	Metal/CMU Metal/Wood Metal/Brick	
C2 – Brown Rubbery Roll-Up Door Caulk	Not yet sampled- manage as possible PCB unless confirmed/refuted	Main Building – bays at sides of each roll-up frame & exterior personnel doors and office windows	Metal/CMU	
C3 – White Pliable Ext Bldg Caulk	Not yet sampled- manage as possible PCB unless confirmed/refuted	Main Building – exterior garage wall at vents and expansion joints	CMU/CMU WoodCMU	

◆ Asbestos containing material (>1%)

APPENDIX A

SITE PHOTOS WITH DOT ASSIGNMENT AND MAP



PHOTO 1. A-Side.

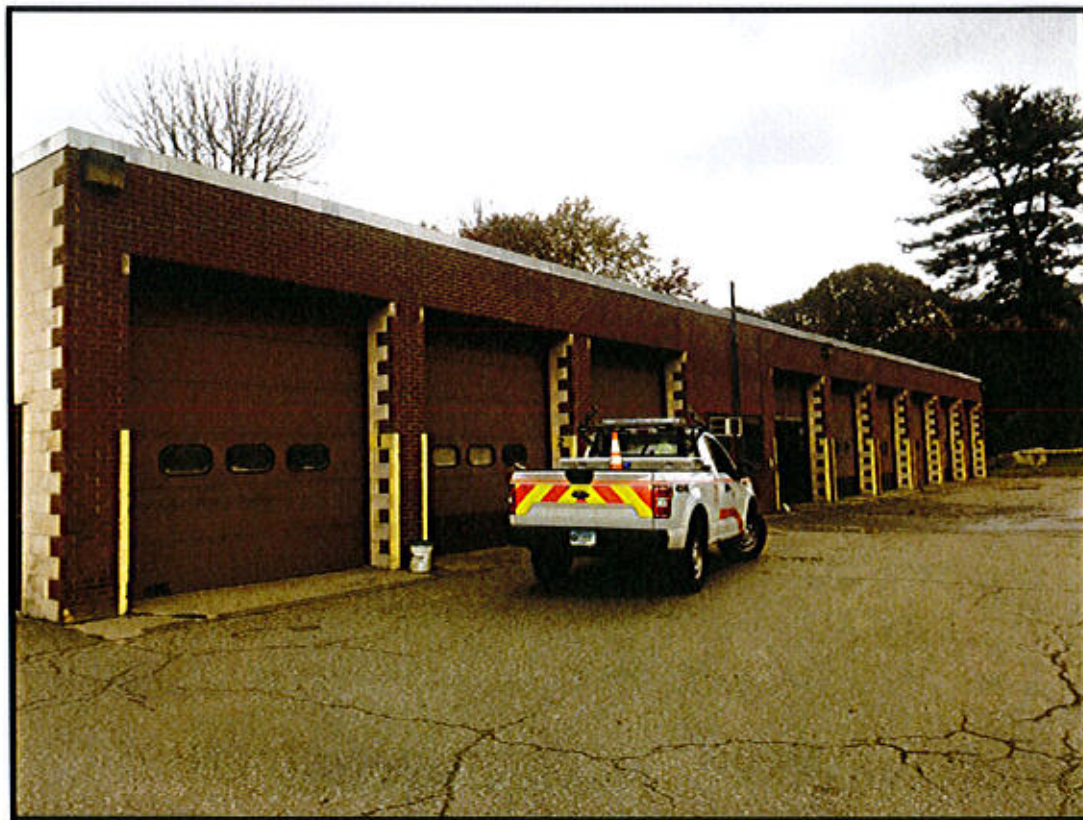


PHOTO 2. B-Side.

MARLBOROUGH MAINTENANCE FACILITY, MARLBOROUGH, CT



PHOTO 3. C-Side.



PHOTO 4. D-Side.

MARLBOROUGH MAINTENANCE FACILITY, MARLBOROUGH, CT



PHOTO 5. D-side Septic Tank & Monitoring Wells.

APPENDIX B
SITE SKETCHES

APPENDIX C

TRC INSPECTORS LICENSES/CERTIFICATIONS

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

David M. Heelon

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

HC Group Services LLC
3 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Gregory M. Smith

Executive Director
January 18, 2018
HC Group Services LLC

Doreen M. Smith

Regional Training Manager
January 18, 2018
HC Group Services LLC

Executive Director
January 18, 2018
HC Group Services LLC

Regional Training Manager
January 18, 2018
HC Group Services LLC



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**

Principal Instructor: Mircuk Souza

November 16, 2017

Date of Course

November 16, 2018

Expiration Date

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

03-702354

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 B. Freud

Principal Instructor: Neal Freud

January 12, 2018

Date of Course

January 12, 2018

Exam Date

Gregory Morsch

Regional Training Director: Gregory Morsch

ELLRAR-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:

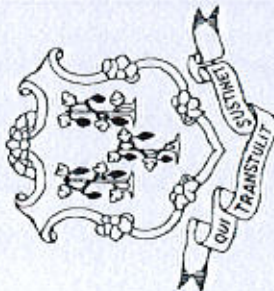
BUILDING MATERIALS
ASBESTOS FIBERS - PCM
BULK IDENTIFICATION - PLM

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 19th 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



Patricia S. Lunden
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

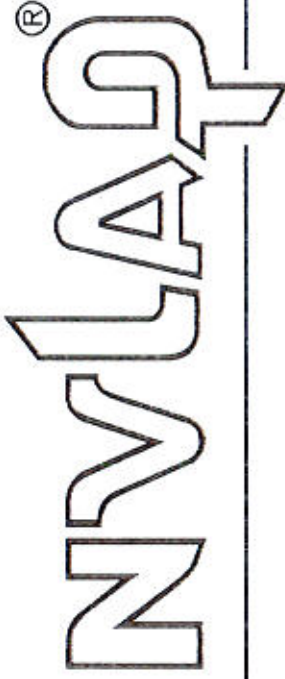
THIS CERTIFICATE EXPIRES December 31, 2018 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH
DATED AT HARTFORD, CONNECTICUT, THIS 29th November 2016



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. D'Amico".

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
Supersede Previous Edition

PROJECT NUMBER

222165.5751.0710

PROJECT NAME

ConnDOT
Marlborough Maintenance Facility,
64 S Main St, Marlborough, CT

LAB ID #.

52988

TURNAROUND TIME

PLM:	8hr	24hr	48hr	3day
TEM:	24hr	48hr	3day	5day

PARAMETERS

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 N98.4 (IF PLM SERIES NEG)	

MATERIAL

SIGNATURE

INSPECTOR

David Heelon, Jonathan Gentile

FIELD SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION
			COMP	GRAB	
1	10/29/18	10:46	X	X	Bay 2 Ext Roll-Up Door Frame
2	10/29/18	10:49	X	X	Bay 2 Ext Roll-Up Door
3	10/29/18	11:14	X	X	Ext D-Side by Men's Bathroom
4	10/29/18	09:30	X	X	Women's Bathroom
5	10/29/18	13:12	X	X	Hall Door to Break Area
6	10/29/18	13:14	X	X	Hall Door to Garage Bays 4-9
7	10/29/18	13:17	X	X	Office Door
8	10/29/18	13:17	X	X	Office Door
9	10/29/18	10:30	X	X	Base of Ext Wall C-Side by Rest Area

C1 - Grey Rubbery Ext Window/Roll-Up Door Caulk	X
C2 - Brown Rubbery Ext Roll-Up Door Caulk	X
C3 - White Pliable Ext Bldg Caulk (Note: Material was added to fill cracks in mortar joints so is not in all joints.)	X
CBI - 4" Brown Covebase & Cream Glue	X
DWG1 - Grey Sticky/Gummy Metal Door Window Glaze	X
DWG1 - Grey Sticky/Gummy Metal Door Window Glaze	
DWG2 - Lt Grey Gummy Wood Door Window Glaze	X
DWG2 - Lt Grey Gummy Wood Door Window Glaze	
EJ1 - Black Tar-Like Floor Expansion Jt Pad	X

Relinquished by: (Signature) 	Date: 10/30/18	Received by: (Signature) 	Date: 10/30/18
(Printed) Jonathan Gentile	Time: 1400	Relinquished by: (Signature) (Printed)	Time: (Printed)
Remarks: Samples with only 1 in series are being submitted for TEM to confirm previous PLM only negative results.	Condition of Samples: Acceptable: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Page 1 of 2



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

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

Edition: October 2009
Supersede Previous Edition

LAB ID #. 52988

PROJECT NUMBER 222165.5751.0710		PROJECT NAME ConnDOT Marlborough Maintenance Facility, 64 S Main St, Marlborough, CT		PARAMETERS					
SIGNATURE 		INSPECTOR David Heelon, Jonathan Gentile		SAMPLE LOCATION		PLM EPA 600/R93/116 (POSITIVE STOP)			
						PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)			
FIELD SAMPLE NUMBER	DATE	TIME	TYPE	COMP	GRAB	ANALYZE BY LAYER	POINT COUNT (# > 1% & < 10%)		
						TEM NY N98.4 (IF PLM SERIES NEG)			
10	10/29/18	09:21	X		X	X	FT1 - 12"x12" Tan w/Lt & Dk Brown Streaks FT & Black Mastic		
11	10/29/18	09:21	X		X	X	FT1 - 12"x12" Tan w/Lt & Dk Brown Streaks FT & Black Mastic		
12	10/29/18	10:23	X		X	X	FT2 - 12"x12" Cream w/Thin Brown Streaks FT & Yellow Mastic		
							MATERIAL		
						8hr	24hr	48hr	3day
						24hr	48hr	3day	5day

Relinquished by: (Signature) 	Date: 10/30/18	Received by: (Signature) 	Date: 10/30/18
(Printed) Jonathan Gentile	Time: 1400	(Printed) David Heelon	Time: 1400
Remarks: Samples with only 1 in series are being submitted for TEM to confirm previous PLM only negative results.		Condition of Samples: Acceptable: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
		Page 2 of 2	

APPENDIX F

TRC PLM LABORATORY ANALYSIS DATA

BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #: 0052988
 Project #: 222165.5751.0710
 Date Received: 10/30/2018
 Date Analyzed: 10/31/2018

Site: Marlborough Maintenance Facility, 64 S. Main Street, Marlborough, CT

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

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
1	Grey (caulk)	Yes	No	--	---	ND	None
2	Brown (caulk)	Yes	No	--	---	ND	None
3	White (caulk)	Yes	No	--	---	ND	None
4	Cream (glue)	No	Yes	1	---	ND	None
4	Brown (cove base)	No	Yes	2	---	ND	None
5	Grey (glaze)	Yes	No	--	---	Trace	Chrysotile
6	Grey (glaze)	Yes	No	--	---	Trace	Chrysotile
7	Grey (glaze)	Yes	No	--	10% synthetic fiber	ND	None
8	Grey (glaze)	Yes	No	--	10% synthetic fiber	ND	None
9	Black (expansion pad)	Yes	No	--	20% cellulose	ND	None
10	Black (mastic)	No	Yes	1	---	ND	None
10	Tan/Brown (tile)	No	Yes	2	---	ND	None
11	Black (mastic)	No	Yes	1	---	ND	None
11	Tan/Brown (tile)	No	Yes	2	---	ND	None
12	Yellow (mastic)	No	Yes	1	---	ND	None
12	Cream/Brown (tile)	No	Yes	2	---	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 WY# 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: 10/31/2018
 Kathleen Williamson, Laboratory Manager Cathryn Lemire, Approved Signatory

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 #1-09-004 NJ #CT004 CA #2907
 CO# AL-15020 PHH.# 461 PA#68-03387

APPENDIX G

TRC 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 - Marlborough Maintenance, 64S Main street, marlborough, CT
 PO #: C222165
 Client #: 297
 Client Name: TRC Environmental Corp. (CT)

Batch: NT 17539
 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	CHR	AMC	% Asbestos Types			TRE	% Other			Total % Asbestos	Analyzed / Charged	Preped / Charged	
							ACT	CRO	ANT		Non-asb.	Organic	Carb.				
NT132305	1	Grey Rubbery Ext Window/Roll-up Door Caulk		.1872	.00	.00	.00	.00	.00	.00	.00	8.28	34.88	56.84	ND	Yes	No
NT132306	2	Brown Rubbery Ext Roll-up Door Caulk		.1869	.00	.00	.00	.00	.00	.00	.00	14.76	21.46	63.78	ND	Yes	No
NT132307	3	White Pliable Ext Bldg Caulk		.2648	.00	.00	.00	.00	.00	.00	.00	10.49	33.01	56.50	ND	Yes	No
NT132308	4G	Cream Glue		.2237	.00	.00	.00	.00	.00	.00	.00	3.22	32.68	64.10	ND	Yes	No
NT132309	4	4" Brown Cove Base		.4219	.00	.00	.00	.00	.00	.00	.00	5.35	23.30	71.34	ND	Yes	No
NT132310	5	Grey Sticky/Gummy metal Door Window Glaze		.1103	9.57	.00	.00	.00	.00	.00	.00	22.35	60.56	7.52	9.57	Yes	No
NT132311	7	LI Grey Gummy Wood Door Window Glaze		.1825	.00	.00	.00	.00	.88	.00	.00	17.64	38.25	44.11	TR	Yes	No
NT132312	9	Black Tar-like Floor Expansion Jt Pad		.1872	.26	.00	.00	.00	.00	.00	.00	25.69	62.13	12.18	TR	Yes	No
NT132313	10M	Black Mastic		.1115	.00	.00	.00	.00	.00	.00	.00	28.16	40.63	31.21	ND	Yes	No
NT132314	10	12"x12" Tan w/LI & Dk Brown Streaks		.3004	.00	.00	.00	.00	.00	.00	.00	12.28	14.48	73.24	ND	Yes	No
NT132315	12M	Yellow Mastic		.0360	.00	.00	.00	.00	.00	.00	.00	11.39	70.28	18.33	ND	Yes	No
NT132316	12	12"x12" Cream w/Think Brown Streaks Floor Tile		.2734	.00	.00	.00	.00	.00	.00	.00	.99	6.33	92.68	ND	Yes	No

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 - Marlborough Maintenance, 64S Main street, marlborough, CT
 PO #: C222165
 Client #: 297
 Client Name: TRC Environmental Corp. (CT)

Batch: NT 17539
 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	CHR	AMO	ACT	CRO	ANT	TRE	Non-asp.	Organic Carb.	Asbestos	Total % Analyzed / Charged	% Other	% Asbestos Types	Preped / Charged

Comments:

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


 Mark Derossier, 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: Marlborough Maintenance Facility, Marlborough, Connecticut
 Project #: 222165-5751-0710
 Date(s): 10/29/2018
 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							2.4	0.0		52.39	10/29/2018 9:14
2	Shutter calibration							2.7	0.0		120.17	10/29/2018 9:18
3	0.0 calibration							0.0	0.0	1	2.68	10/29/2018 9:23
4	0.3 calibration							0.3	0.1	1.01	5.34	10/29/2018 9:23
5	1.6 calibration							1.4	0.1	1.16	4.95	10/29/2018 9:24
6	Outside Women Bath by Tool Crib	D	Wall		Block	Grey	Intact	0.0	0.0	1.39	3.42	10/29/2018 9:28
7	Outside Women Bath by Tool Crib	D	Wall		Block	White	Intact	0.0	0.0	1	4.74	10/29/2018 9:28
8	Outside Women Bath by Tool Crib	D	Door		Metal	Brown	Intact	0.0	0.0	1	3.99	10/29/2018 9:30
9	Outside Women Bath by Tool Crib	D	Door	Casing	Metal	Brown	Intact	0.0	0.0	1	2.65	10/29/2018 9:31
10	Women Bathroom	A	Wall		Block	White	Intact	0.0	0.0	1	4.74	10/29/2018 9:35
11	Men Bathroom	D	Stall Door		Metal	Brown	Intact	0.0	0.0	1	2.67	10/29/2018 9:45
12	Men Bathroom	D	Wall		Sheetrock	White	Intact	0.0	0.0	1	3.04	10/29/2018 9:46
13	Garage Bay 3	B	Door	Garage	Vinyl	White	Intact	0.0	0.0	1	2.66	10/29/2018 9:50
14	Garage Bay 3	A	Wall		Block	White	Intact	0.0	0.0	2.13	4.77	10/29/2018 9:51
15	Garage Bay 3	A	Wall		Block	Grey	Intact	0.1	0.0	2.75	4.76	10/29/2018 9:52
16	Office	B	Door		Wood	Brown	Intact	0.0	0.0	1	2.66	10/29/2018 9:54
17	Office	B	Door	Casing	Wood	Brown	Intact	0.0	0.0	1.17	4	10/29/2018 9:54
18	Garage Bay 4	C	Wall		Block	White	Intact	0.0	0.0	2.29	5.91	10/29/2018 10:08
19	Garage Bay 4	C	Wall		Block	Grey	Intact	0.1	0.0	2.58	4.75	10/29/2018 10:09
20	Garage Bay 9	A	Wall		Block	Grey	Intact	0.0	0.1	6.04	5.15	10/29/2018 10:11
21	Garage Bay 9	A	Wall		Block	White	Intact	0.0	0.0	3.48	4.75	10/29/2018 10:12
22	Garage Bay 9	A	Door		Metal	Brown	Intact	0.0	0.0	1	4.01	10/29/2018 10:13
23	Garage Bay 9	A	Door	Casing	Metal	Brown	Intact	0.0	0.0	1	4.2	10/29/2018 10:14
24	Exterior	A	Wall		Block	Tan/Beige	Intact	0.0	0.0	1	4.18	10/29/2018 10:16
25	Exterior	A	Window	Casing	Metal	Brown	Intact	0.0	0.0	1	2.65	10/29/2018 10:17
26	Exterior	D	Window	Casing	Metal	Brown	Intact	0.0	0.0	1.52	6.09	10/29/2018 10:19
27	Exterior	D	Wall		Block	Tan/Beige	Intact	0.0	0.0	4.41	4	10/29/2018 10:18
28	Exterior	C	Door		Metal	Brown	Intact	0.0	0.0	1	2.65	10/29/2018 10:20
29	Exterior	C	Door	Shed	Wood	Grey	Intact	0.0	0.0	1	2.66	10/29/2018 10:22
30	Exterior	C	Wall	Shed	Wood	Grey	Intact	0.0	0.0	1.52	2.67	10/29/2018 10:23
31	Exterior Bay 2	B	Door	Garage	Metal	Brown	Intact	0.0	0.0	1	2.66	10/29/2018 10:24
32	Exterior Bay 3	B	Wall		Brick	Yellow	Intact	4.7	1.2	2.37	1.92	10/29/2018 10:26
33	Exterior Bay 5	B	Wall		Brick	Yellow	Intact	4.9	1.2	2.33	1.91	10/29/2018 10:27
34	0.0 calibration							0.0	0.0	1	2.66	10/29/2018 10:29
35	0.3 calibration							0.4	0.1	1.29	4.38	10/29/2018 10:30

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



Lead Based Paint Measurement Summary Table

Device(s): Niton XLP301-A (Serial #24792) X Ray Fluorescence (XRF) Spectrum Analyzer
 Site: Marlborough Maintenance Facility, Marlborough, Connecticut
 Project # : 222165-5751-0710
 Date(s): 10/29/2018
 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
36	1.6 calibration							1.5	0.2	1.11	3.99	10/29/2018 10:30

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^2 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^2 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^2 . If portions of the debris stream exceed 1.0 mg/cm^2 , 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^2 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/cm² XRF standard, the weight percent number is not appropriate for waste characterization purposes, due to a lack of relevant data. The 1.0 mg/cm² XRF policy discussed above was based on certain data generated by EPA correlating XRF readings to TCLP sampling of architectural debris.¹ 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,

A handwritten signature in black ink, appearing to read "Ross Q. Bunnell". The signature is fluid and cursive, with a large initial "R" and "B".

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

RQB:rqb

Attachment: March, 1993 EPA Guidance Document

¹ 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

**PREVIOUS 2001 & 2011 ACM/LBP INSPECTION
REPORTS**

Subject: Asbestos Roof Inspection and
Abatement Specification
Marlborough Maint. Facility

m e m o r a n d u m

date: November 16, 2011

to: Mr. Daniel J. Smachetti
Director of Property & Facilities
Bureau of Finance and Administration

from: Gregory Dorosh
Trans. Principal Engineer
Bureau of Engineering
and Construction

MIKE - FJI
M
DAN B.

Attached please find the results of the asbestos inspection for the roof at the Marlborough Maintenance Facility that was conducted by TRC. This inspection was conducted to support the upcoming roof replacement project.

The investigation found Asbestos Containing Material (ACM) to be present in the perimeter/penetration roof flashing. This concurs with the previous inspection that was conducted by Enviromed in 2001. However, although Enviromed detected ACM in the roofing material, this result could not be duplicated by TRC. TRC obtained samples of the different layers of the roof on two separate occasions and analyzed a multiple of samples by two different analytical methods, PLM and TEM/gravimetric reduction. None of these analyses were able to duplicate Enviromed's results. Therefore, the main field of the rolled roofing will not be managed as ACM.

Also attached is the specification for the removal of the ACM flashing material. Because the work involves the abatement of exterior, non-friable ACM, the contractor conducting the flashing removal does not need to be a licensed CTDPH Asbestos Abatement Contractor, provided that the removal doesn't cause the ACM to become friable. However, it is still an OSHA Class II asbestos removal activity, so individuals performing the work need training within the last 12 months complying with 29 CFR 1926.1101(k)(9)(i), (ii), (iv) & (viii), which is a minimum of 8-hours and must cover specific topics, including the removal practices for Class II asbestos roofing materials found under section (g)(7)(i) & (iv) and (g)(8)(ii). 2-hour asbestos awareness training does not meet this requirement.

If you should have any questions regarding this matter, please feel free to contact Denise Young at 594-2686.

Denise Young/
cc: David Hartley
Chris Bonsignore - Denise Young





October 21, 2011

Mr. Gregory M. Dorosh, P.E.
Principal Engineer
Environmental Compliance Section
Bureau of Engineering and Highway Operations
State of Connecticut Department of Transportation
2800 Berlin Turnpike, P.O. Box 317546
Newington, CT 06131-7546

Attention: C. Bonsignore, PE/D. Young

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance
Agreement No. 03.19-05 (08)
Asbestos Roof Inspection
Marlborough Maintenance Facility, Marlborough, CT
ConnDOT Assignment No. 503-4152
ConnDOT Project No. 170-1877
TRC Project No. 151990.4152.00710

Dear Mr. Dorosh:

At your request, on September 26 and October 11, 2011, TRC has performed an inspection for asbestos containing materials (ACM) associated with the roofing replacement project planned for the Marlborough Maintenance Facility. TRC has identified the perimeter/penetration roof flashing material to be ACM. This result concurs with prior sampling data from Enviromed in 2001. However, despite repeated sampling and analysis via both PLM and TEM/gravimetric reduction techniques by both TRC and EMSL laboratories, TRC did not identify the main rolled roofing field as ACM. This result does not concur with the prior single PLM sample result from Enviromed in 2001.

Enclosed please find laboratory sample data and field site sketches.

If you have any questions, please call TRC at (860) 298-9692.

Very Truly Yours,

TRC

A handwritten signature in black ink, appearing to read "Erik R. Plimpton", is written over a horizontal line.

Erik R. Plimpton, P.E., CHMM
Program Manager

CC: D. Hartley, ConnDOT P&F
E. Burke, P.E., TRC



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

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

Edition: October 2009
Supersede Previous Edition

LAB ID #. 39752

PROJECT NUMBER	PROJECT NAME	PARAMETERS				TURNAROUND TIME							
		PLM EPA 600/R93/16 (POSITIVE STOP)	PLM EPA 600/R93/16 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 1984 (IF PLM SERIES NEG)	PLM:	TEM:	3day	5day			
151990, 4152, 0710	CT DOT - <u>M.E. Roof</u> 64 S. Main St. Marlborough, CT	INSPECTOR <u>Chris Gaines</u> <u>Greg K.</u>	DATE	TIME	TYPE	GRAB	SAMPLE LOCATION	MATERIAL	8hr	24hr	48hr	3day	5day
01	9-26-11	10:53	X		X		C-side - Roof	Silver tar, black tar, black tar			X		
02		11:00	X		X		A-side - Roof	Silver tar, black tar, black tar				X	
03		10:53	X		X		C-side - Roof	Black tar coating on decking					
04		11:00	X		X		A-side - Roof	Black tar coating on decking					
05		11:20	X		X		C-side - Roof perimeter	Silver tar w/ tar underside - Flashing					
06		11:15	X		X		D-side - Roof perimeter	Silver tar w/ tar underside - Flashing					

Relinquished by: (Signature) <u>Chris Gaines</u>	Date: 9/26/11	Received by: (Signature) <u>Greg K.</u>	Date: 9/27/11
(Printed) <u>Chris Gaines</u>	Time: 1500	(Printed) <u>Greg K.</u>	Time:
Remarks:	Condition of Samples: <u> </u> Yes <u> </u> No <u> </u>		
	Comments: <u> </u>		



Industrial Hygiene Laboratory
21 Griffin Road North
Windsor, CT 06095
(860) 298-6308

BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Site: M. F. Roof, 64 S. Main Street, Marlborough, CT
Lab Log #: 39752
Project #: 151990.4152.0710
Date Received: 09/27/11
Date Analyzed: 09/27/11

RESULTS

Sample No.	Color	Homogeneous	Multi-Layered	Layer No.	Other Matrix Mat'ls	Asbestos %	Asbestos Type
01	Black/Silver/Brown	Yes	No	--	2% cellulose 10% fiberglass	ND<1%	None
02	Black/Silver/Brown	Yes	No	--	10% fiberglass	ND<1%	None
03	Black	Yes	No	--	30% cellulose	ND<1%	None
04	Black	Yes	No	--	30% cellulose	ND<1%	None
05	Black/Silver	Yes	No	--	20% cellulose 10% fiberglass	20%	Chrysotile
06	--	--	--	--	--	NA/PS	--

NA/PS- Not Analyzed/Positive Stop

Reporting limit- asbestos present at 1%
ND<1% - asbestos was not detected
Trace- asbestos was observed at level of less than 1%

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, negative results must 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), and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey which utilizes 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, 2012. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through October 1, 2012. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and the QC data related to the samples is available upon written request from the 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.

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0 AIHA #100122 CT #PH-0426 ME LA-0075, LB-0071 MA #AA000052 NY #10980 WV# LT000356
RI #AAL-007C3 TX #300354 VT #AL014538 VA #3333 000283 AZ #A20944 HI #L-09-004 NJ #CT004 CA #1027SCA

Analyst: Kathleen Williamson

QC Analyst: Kathleen Williamson

Reviewed by: 
Laboratory Analyst

Approved 
Signatory: Kathleen Williamson
Laboratory Manager

Date issued: 9/28/11

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0	AIHA #100122	CT #PH-0426	ME LA-0075, LB-0071	MA #AA000052	NY #10980	WV# LT000356
RI #AAL-007C3	TX #300354	VT #AL014538	VA #3333 000283	AZ #A20944	HI #L-09-004	NJ #CT004
						CA #1027SCA

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801
 781-936-3212 ~ Fax: 781-932-4857 ~ E-Mail: general@proscience.net

Laboratory Report

Client Project #: 151990.4152.0710
 Client Reference: CT DOT - 64 South Main Street, Marlborough, CT
 PO #: C151990
 Client #: 297
 Client Name: TRC Environmental Corp. (CT)

Batch: NT 12841
 Method: NOB
 Date Received: 9/28/2011
 Date Analyzed: 9/30/2011
 Date of Report: 9/30/2011

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other Non-asp.	% Organic	% Carb. Asbestos	Total % Analyzed / Charged	Preped / Charged
					CHR	AMO	ACT	CRO	ANT	TRE					
NT97633	01	Roofing		.5140	.00	.00	.00	.00	.00	.00	91.01	4.09	ND	Yes	No
NT97634	03	Roofing		.0786	.00	.00	.00	.00	.00	1.65	71.25	27.10	ND	Yes	No

Comments:

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


 Mark Derosier, Analyst



Industrial Hygiene Laboratory
21 Griffin Road North
Windsor, CT 06095
(860) 298-6308

BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Site: Marlborough Maintenance Facility, Marlborough, CT
Lab Log #: 39818
Project #: 151990.4152.0710
Date Received: 10/11/11
Date Analyzed: 10/13/11

RESULTS

Sample No.	Color	Homogeneous	Multi-Layered	Layer No.	Other Matrix Mat'ls	Asbestos %	Asbestos Type
07	Black/Brown/Silver	Yes	No	--	10% fiberglass	ND<1%	None
08	Black/Brown	Yes	No	--	30% cellulose	ND<1%	None
09	Black/Brown/Silver	Yes	No	--	10% cellulose 20% fiberglass	ND<1%	None
10	Black/Brown	Yes	No	--	10% cellulose 20% fiberglass	ND<1%	None
11	Black/Brown	Yes	No	--	10% fiberglass	ND<1%	None
12	Black/Brown	Yes	No	--	--	ND<1%	None

Reporting limit- asbestos present at 1%
ND<1% - asbestos was not detected
Trace- asbestos was observed at level of less than 1%

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, negative results must 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), and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey which utilizes 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, 2012. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through October 1, 2012. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and the QC data related to the samples is available upon written request from the client.

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Analyst: Kathleen Williamson

QC Analyst: Kathleen Williamson

Reviewed by: 
Laboratory Analyst

Approved: 
Signatory: Kathleen Williamson
Laboratory Manager

Date Issued: 10/14/11

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0 AIHA #100122 CT #PH-0426 ME LA-0075, LB-0071 MA #AA000052 NY #10990 WVV# LT000356
RI #AAL-007C3 TX #300354 VT #AL014538 VA #3333 000283 AZ #A20944 HI #L-09-004 NJ #CT004 CA #10275CA

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801
 781-935-3212 ~ Fax 781-832-4857 ~ E-Mail general@proscience.net

Laboratory Report

Client Project #: 151990-4152-0710
 Client Reference: CT DOT - Marlborough Maintenance Facility
 PO #: C151990
 Client #: 297
 Client Name: TRC Environmental Corp. (CT)

Batch: NT 12869
 Method: NOB
 Date Received: 10/17/2011
 Date Analyzed: 10/19/2011
 Date of Report: 10/19/2011

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other Non-Asb.	% Carb.	Total % Asbestos	Analyzed / Charged	Preped / Charged
					CHR	AMO	ACT	CRO	ANT	TRE					
NT97822	09	Roofing		.1649	.00	.00	.00	.00	.00	.00	3.70	10.01	ND	Yes	No
NT97823	10	Tar		.0552	.00	.00	.00	.00	.00	.00	1.99	.00	ND	Yes	No

Comments:

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

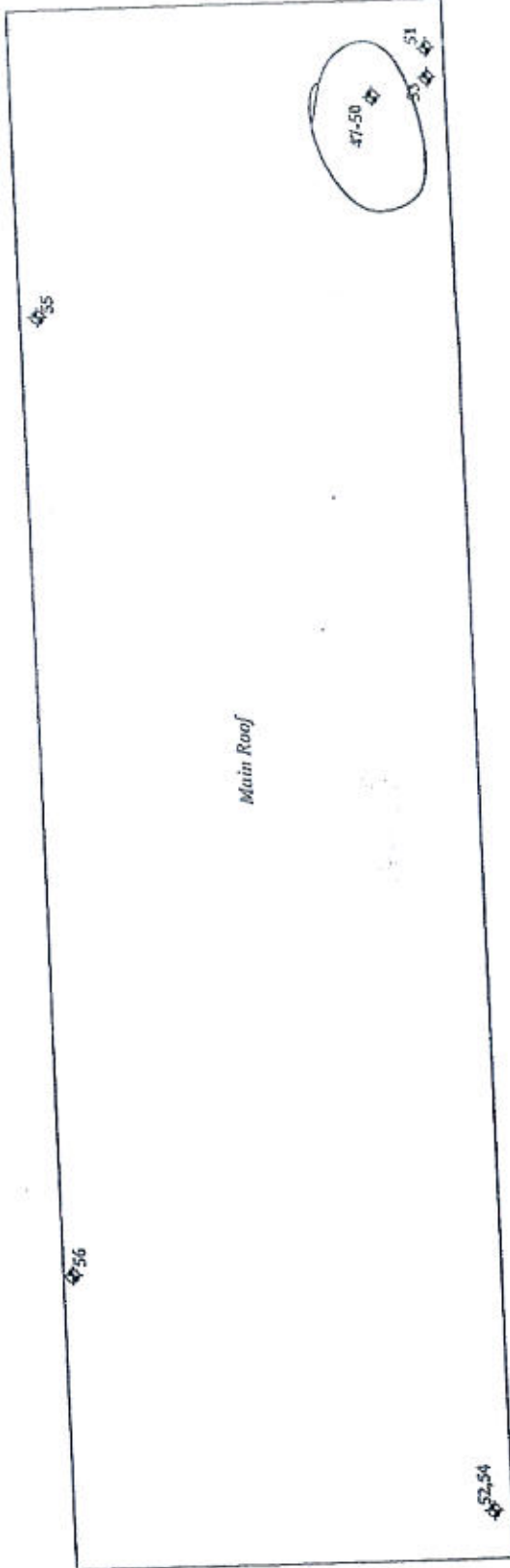
Aimee Cormier
 Aimee Cormier, Analyst

Sample Number	Location	Material Sampled	Percent Asbestos
24	main building bay floor	black expansion joint	NAD
25	main building garage window - west bays	interior window glazing	5
26	main building garage window - east bays	interior window glazing	3
27	main building garage - east bays	interior door frame sealer	NAD
28	main building hallway	interior door frame sealer	NAD
29	main building - exterior office	exterior office window sealer	NAD
30	main building - exterior office	exterior office window sealer	NAD
31	main building - exterior west bays	exterior overhead door sealer	NAD
32	main building - exterior east bays	exterior overhead door sealer	NAD
33	main building - exterior west door	exterior door frame sealer	NAD
34	void	void	void
35	main building - exterior garage wall	exterior block wall expansion sealer	NAD
36	main building - exterior garage wall	exterior block wall expansion sealer	NAD
37	main building - garage bay space heater #1	burner gasket	NAD
38	main building - garage bay space heater #1	fire chamber felt	NAD
39	main building - garage bay space heater #2	burner gasket	NAD
40	main building - garage bay space heater #2	fire chamber felt	NAD
41	main building - garage bay space heater #3	burner gasket	NAD
42	main building - garage bay space heater #3	fire chamber felt	NAD
43	main building men's bathroom	wallboard compound	NAD
44	main building men's bathroom	wallboard compound	NAD
45	main building men's bathroom	wallboard compound	NAD
46	main building garage bay window - east	interior window glazing	NAD
47	main building roof	built-up roofing material top layer - cement	NAD
48	main building roof	built-up roofing material second layer - felt	3
49	main building roof	built-up roofing material third layer - felt	3

NAD - No Asbestos Detected

Sample Number	Location	Material Sampled	Percent Asbestos
50	main building roof	built-up roofing material bottom layer - cement gray felt paper flashing	NAD
51	main building roof	gray felt paper flashing	55
52	main building roof	gray flashing cement	40
53	main building roof	gray flashing cement	40
54	main building exterior	gutter sealer	NAD
55	main building exterior	gutter sealer	NAD
56	shed 1 roof	tan asphalt roof shingle	NAD
57	shed 1 roof	tan asphalt roof shingle	NAD
58	shed 1 roof	siding felt paper	NAD
59	shed 1 roof	siding felt paper	NAD
60	shed 2 roof	gray asphalt roof shingle	NAD
61	shed 2 roof	gray asphalt roof shingle	NAD
62	shed 2 roof	felt paper under roof shingles	NAD
63	shed 2 roof	felt paper under roof shingles	NAD
64	shed 2 roof	felt paper under roof shingles	NAD

NAD - No Asbestos Detected



Drawing Title:	Asbestos Bulk Sample Location Diagram
Date:	5/29/01
Prepared by:	EnviroMed Services, Inc. 25 Science Park, New Haven, CT 06511
Project:	Marlborough DOT - Maintenance Garage Roof Plan Marlborough, Connecticut
Drawn by:	DER
Approved By:	G.B.
Prepared for:	State of Connecticut Department of Transportation Newington, Connecticut
Drawing No.:	
File #	BAS # B-01-355

Legend :
◆ = Sample Number & Location

ITEM 0020801A – ASBESTOS ABATEMENT

Work under this item shall include the abatement of asbestos containing materials (ACM) and associated work by persons who are knowledgeable, qualified, trained and licensed in the removal, treatment, handling, and disposal of ACM and the subsequent cleaning of the affected environment. These Specifications govern all work activities that disturb asbestos containing materials. All activities shall be performed in accordance with, but not limited to, the current revision of the OSHA General Industry Standard for Asbestos (29 CFR 1926.1001), the OSHA Asbestos in Construction Regulations (29 CFR 1926.1101), the USEPA Asbestos National Emission Standards for Hazardous Air Pollutants (NESHAP) Regulations (40 CFR Part 61 Subpart M), the CTDPH Standards for Asbestos Abatement, Licensure and Training (19a-332a-1 through 16, 20-440-1 through 9 & 20-441), and the CTDEP Special Waste Disposal Regulations (22a-209-8(i)). The Contractor shall utilize all appropriate engineering controls and safety and protective equipment (including protective clothing and respirators) while performing the work in accordance with OSHA, USEPA, USDOT, CTDEP and CTDPH regulations.

Marlborough Maintenance Facility - Exterior Roof

Includes the removal of:

➤ **Perimeter/Penetration flashing**

An exterior regulated area shall be established at the perimeter of the work area, and access shall be controlled by the Contractor. A remote personnel decontamination unit shall be utilized. Removal of the NESHAP Category I Non-Friable ACM shall be undertaken in accordance with OSHA Class II and USEPA Asbestos NESHAP requirements, utilizing wet methods, HEPA vacuums and techniques which do not render the ACM roofing material friable.

No CTDPH/USEPA asbestos abatement notification is required as the project involves a renovation impacting only exterior category I non-friable ACM.

All ACM waste shall be properly packed, sealed and labeled with USEPA NESHAP generator labels, OSHA danger labels and DOT shipping labels and removed from the regulated area for proper transport and disposal as ACM waste at an approved asbestos landfill. For each shipment of ACM waste, the Contractor shall complete an EPA-approved asbestos waste shipment record (WSR) and return a fully executed copy of the WSR to the Engineer within 30 days of waste removal from the site. Final payment for asbestos abatement will not be made until the fully executed WSR is provided to the Engineer.

<u>Pay Item</u>	<u>Pay Unit</u>
Asbestos Abatement	Lump Sum

END OF SECTION



**Asbestos Inspection Report
for
Department of Transportation
Marlborough Maintenance Garage
Marlborough, Connecticut**

Building # 81-606

prepared for:

State of Connecticut
Department of Transportation

May 29, 2001

EnviroMed Project # IH-01-355

25 Science Park • New Haven, CT 06511
(203) 786-5580 • facsimile (203) 786-5579

III. SAMPLE LOG AND RESULTS TABLE

Sample Number	Location	Material Sampled	Percent Asbestos
1	main building office	12" cream vinyl floor tile	NAD
2	main building office	12" cream vinyl floor tile	NAD
3	main building office	mastic under 12" cream vinyl floor tile	NAD
4	main building office	mastic under 12" cream vinyl floor tile	NAD
5	main building women's bathroom	12" tan vinyl floor tile	NAD
6	main building women's bathroom	12" tan vinyl floor tile	NAD
7	main building women's bathroom	mastic under 12" tan vinyl floor tile	NAD
8	main building women's bathroom	mastic under 12" tan vinyl floor tile	NAD
9	main building women's bathroom	4" brown cove base	NAD
10	main building office	4" brown cove base	NAD
11	main building women's bathroom	glue behind 4" brown cove base	NAD
12	main building office	glue behind 4" brown cove base	NAD
13	main building office	2'x4' suspended ceiling tile "slots with pin holes" - type 1	NAD
14	main building office	2'x4' suspended ceiling tile "slots with pin holes" - type 1	NAD
15	main building hallway	2'x4' suspended ceiling tile "smooth white" - type 2	NAD
16	main building hallway	2'x4' suspended ceiling tile "smooth white" - type 2	NAD
17	main building women's bathroom	2'x4' suspended ceiling tile "slots with many pin holes" - type 3	NAD
18	main building women's bathroom	2'x4' suspended ceiling tile "slots with many pin holes" - type 3	NAD
19	main building men's bathroom	wallboard	NAD
20	main building men's bathroom	wallboard	NAD
21	main building men's bathroom	ceiling cardboard	NAD
22	main building men's bathroom	ceiling cardboard	NAD
23	main building bay floor	black expansion joint	NAD

FT 2
TEM only

FT 2
TEM only

Poor FT descrip
So took 2
FT 01

CBL
TEM only

CBL
TEM only

NAD - No Asbestos Detected

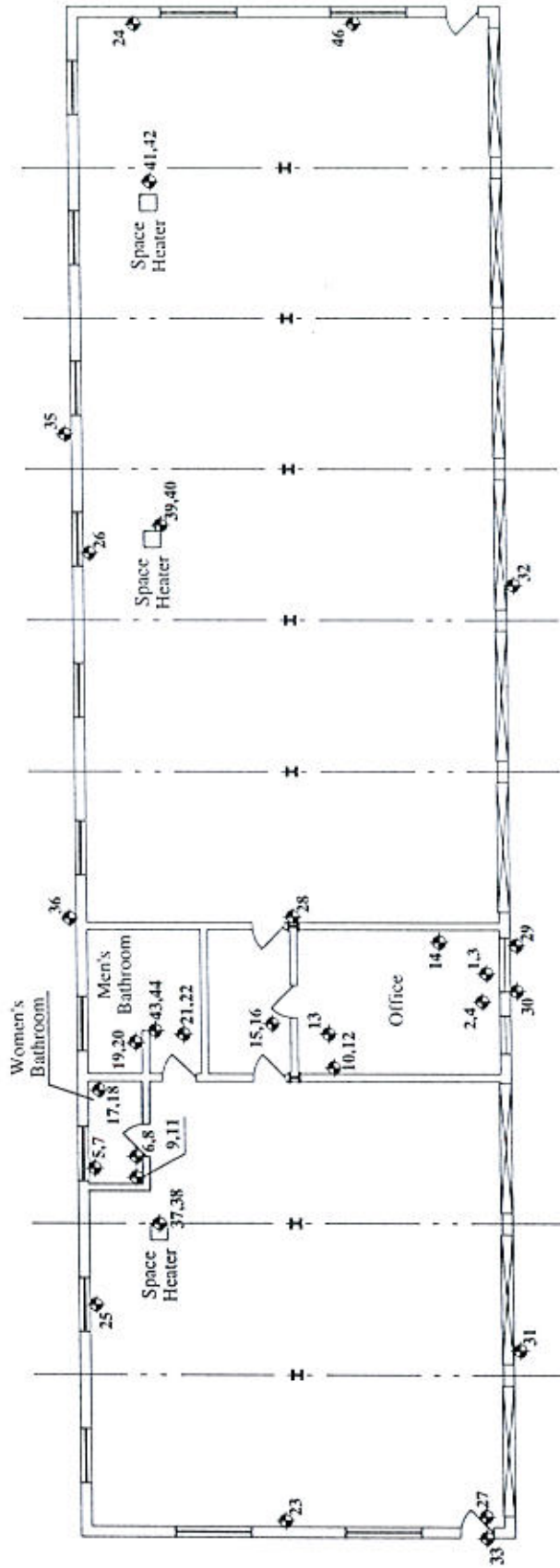
Sample Number	Location	Material Sampled	Percent Asbestos
24	main building bay floor	black expansion joint	NAD
25	main building garage window - west bays	interior window glazing	5
26	main building garage window - east bays	interior window glazing	3
27	main building garage - east bays	interior door frame sealer	NAD
28	main building hallway	interior door frame sealer	NAD
29	main building - exterior office	exterior office window sealer	NAD
30	main building - exterior office	exterior office window sealer	NAD
31	main building - exterior west bays	exterior overhead door sealer	NAD
32	main building - exterior east bays	exterior overhead door sealer	NAD
33	main building - exterior west door	exterior door frame sealer	NAD
34	void	void	void
35	main building - exterior garage wall	exterior block wall expansion sealer	NAD
36	main building - exterior garage wall	exterior block wall expansion sealer	NAD
37	main building - garage bay space heater #1	burner gasket	NAD
38	main building - garage bay space heater #1	fire chamber felt	NAD
39	main building - garage bay space heater #2	burner gasket	NAD
40	main building - garage bay space heater #2	fire chamber felt	NAD
41	main building - garage bay space heater #3	burner gasket	NAD
42	main building - garage bay space heater #3	fire chamber felt	NAD
43	main building men's bathroom	wallboard compound	NAD
44	main building men's bathroom	wallboard compound	NAD
45	main building men's bathroom	wallboard compound	NAD
46	main building garage bay window - east	interior window glazing	NAD
47	main building roof	built-up roofing material top layer - cement	NAD
48	main building roof	built-up roofing material second layer - felt	3
49	main building roof	built-up roofing material third layer - felt	3

✓
✓
C1 TEM only
C2 TEM only
C3 TEM only

NAD - No Asbestos Detected

Sample Number	Location	Material Sampled	Percent Asbestos
50	main building roof	built-up roofing material bottom layer - cement	NAD
51	main building roof	gray felt paper flashing	55
52	main building roof	gray felt paper flashing	55
53	main building roof	gray flashing cement	40
54	main building roof	gray flashing cement	40
55	main building exterior	gutter sealer	NAD
56	main building exterior	gutter sealer	NAD
57	shed 1 roof	tan asphalt roof shingle	NAD
58	shed 1 roof	tan asphalt roof shingle	NAD
59	shed 1 roof	siding felt paper	NAD
60	shed 1 roof	siding felt paper	NAD
61	shed 2 roof	gray asphalt roof shingle	NAD
62	shed 2 roof	gray asphalt roof shingle	NAD
63	shed 2 roof	felt paper under roof shingles	NAD
64	shed 2 roof	felt paper under roof shingles	NAD

NAD - No Asbestos Detected



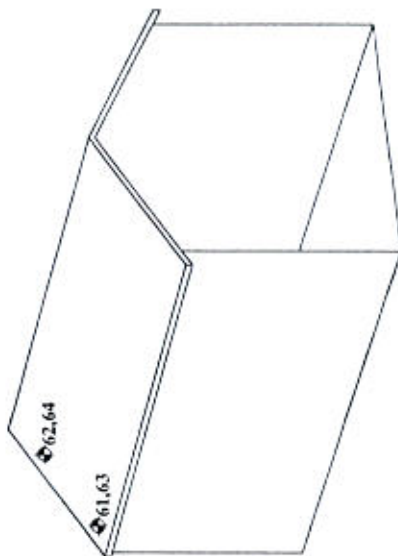
Drawing Title: Asbestos Bulk Sample Location Diagram	
Prepared by: EnviroMed Services, Inc. 25 Science Park, New Haven, CT 06511	Date: 5/29/01
Project: Marlborough DOT - Maintenance Garage Floor Plan Marlborough, Connecticut	Scale: N.T.S.
Prepared for: State of Connecticut Department of Transportation Newington, Connecticut	Drawn By: DER
	Approved By: G.H.
	Drawing No: 1 of 1
EMS # 01401-355	

Legend :
◆ = Sample Number & Location

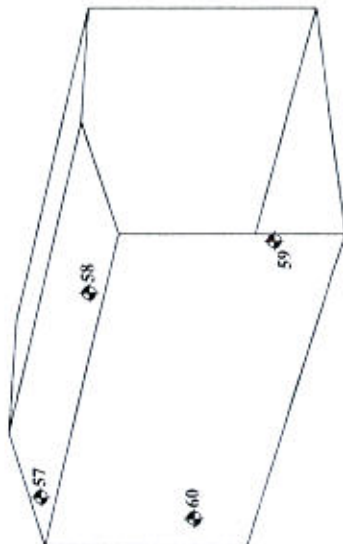


Drawing Title: Asbestos Bulk Sample Location Diagram	
Prepared by: ENVITOMed SERVICES, INC. 25 Science Park, New Haven, CT 06511	Date: 9/29/01
Project: Marlborough DOT - Maintenance Garage Roof Plan Marlborough, Connecticut	Scale: N.T.S.
Prepared for: State of Connecticut Department of Transportation Newington, Connecticut	Drawn By: DER Appraised By: G.R. Drawing No: 2 of 3
DMS # 114-01-335	

Legend :
◆ = Sample Number & Location



Shed #2



Shed #1

Legend :

◆ = Sample Number & Location

Drawing Title: Asbestos Bulk Sample Location Diagram	
Prepared by: ENVIRONMed Services, Inc. 25 Science Park, New Haven, CT 06511	Date: 5/29/01
Project: Marlborough DOT - Shed #1 & Shed #2 Marlborough, Connecticut	Scale: N.T.S.
Prepared for: State of Connecticut Department of Transportation Newington, Connecticut	Drawn By: DELK Approved By: G.B. Drawing No.: 3 of 3
DMS # BH-01-355	



Lead Inspection Report

for

**Department of Transportation
Building #81-606
Marlborough Garage**

Marlborough, Connecticut

Client Project #: 581269

prepared for:

**State of Connecticut
Department of Transportation
Hartford, Connecticut 06106**

**May 29, 2001
EnviroMed Project #: IH-01-355**

**25 Science Park • New Haven, CT 06511
(203) 786-5580 • facsimile (203) 786-5579**

LEAD INSPECTION DATA PAGE

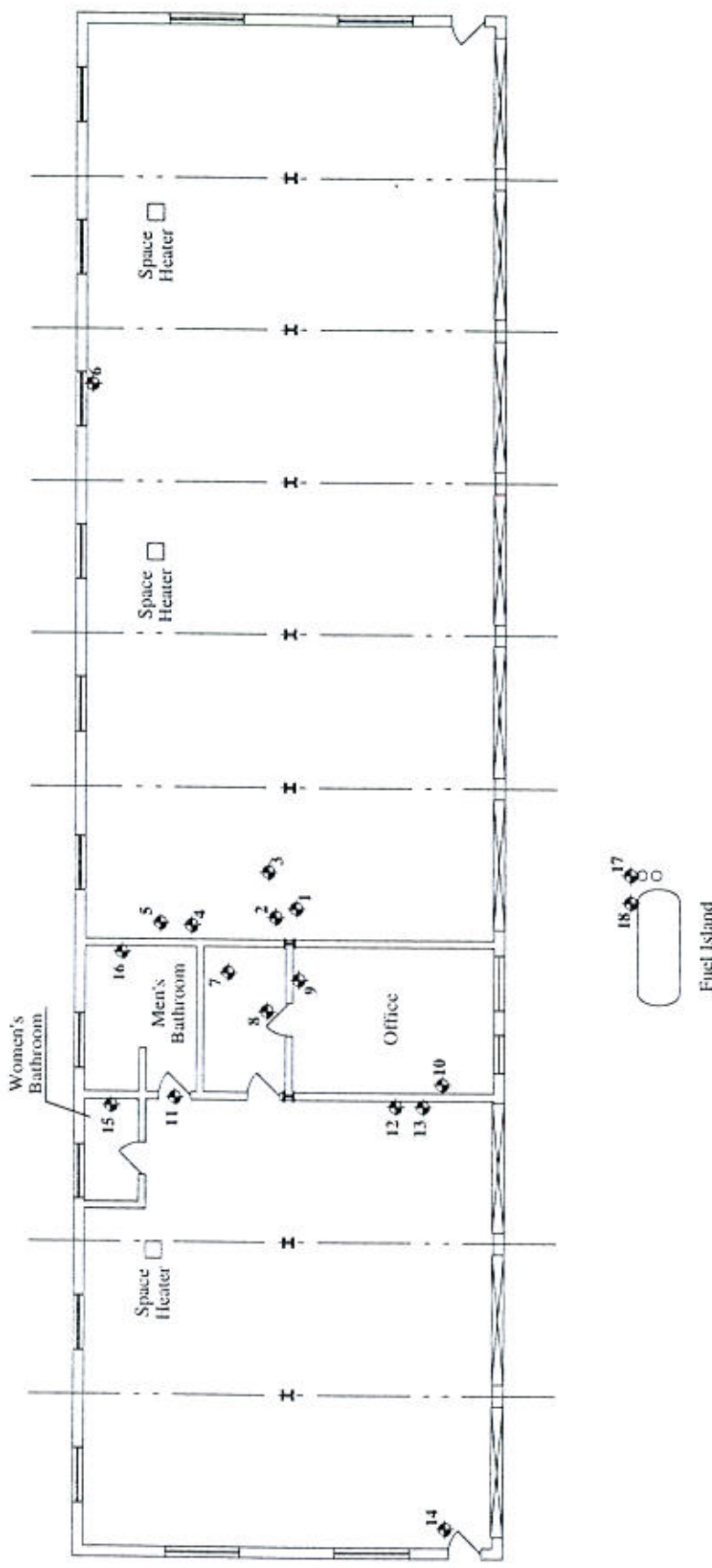
PROJECT NAME: CONN. DOT / IH-01-355 NO. DOORS: N/A
 UNIT NUMBER: MAL Bldg. # 81-606 NO. WINDOWS: N/A

SAMPLE NUMBER	RESULTS (Mg/cm ²)	SURFACE TYPE	SUBSTRATE	CONDITION	COMMENT
1.1		Not level PE STAINING			
1	0.2	DC	Metal	1	(-)
2	0.3	DR	metal	1	(-)
3	0.1	yellow staining on concrete		2	(-)
4	0.1	LW	concrete	1	(-)
5	0.3	LW	concrete	1	(-)
6	0.4	WM	Steel	1	(-)
7	0.1	fine ft	concrete	1	(-)
8	0.5	fine DR	wall	1	(-)
9	0.1	fine WL	wall	1	(-)
10	0.2	fine WL	concrete	1	(-)
11	0.5	DR	metal	1	(-)
12	0.1	LW	concrete	1	(-)
13	0.2	LW	concrete	1	(-)
14	0.1	DR	metal	1	(-)
15	0.4	WL 3/A	concrete	1	(-)
16	0.2	WL DR	concrete	1	(-)
17	2.4	Enamel coating	Steel	1	(+)
18	2.2	Gas Island Form	concrete	1	(+)
19	2.3	Enamel WL	wall	1	(+)

III. SUMMARY OF TOXIC LEVEL (≥ 1.0 mg/cm²) XRF SAMPLE RESULTS

Summary of
Toxic Level (≥ 1.0 mg/cm²) Results

<i>Sample Number</i>	<i>Sample Location</i>	<i>Component (s) Tested</i>	<i>Results (mg/cm²)</i>
17	Bay 2 exterior	lolly column	2.4
18	Bay 2	gas island foundation	2.2
19	Exterior - Shed 2	wall	2.3



Legend :

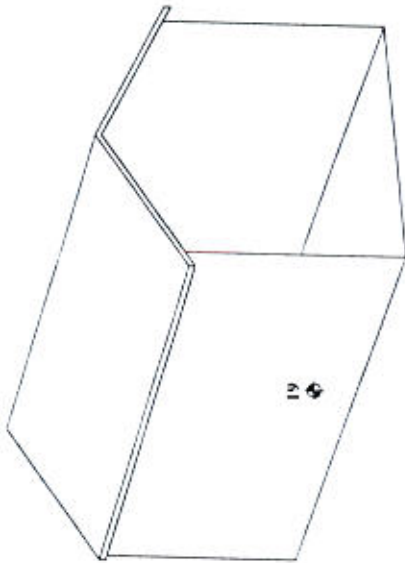
◆ = Sample Number & Location

Drawing Title:

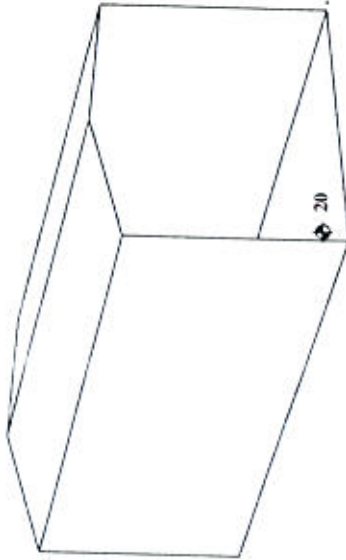
Lead Sample Location Diagram

Prepared by: EnviroMed Services, Inc. 25 Science Park, New Haven, CT 06511	Date: 5/29/01
Project: Marlborough DOT - Maintenance Garage Floor Plan	Scale: N.T.S.
Prepared for: State of Connecticut Department of Transportation Newington, Connecticut	Drawn By: DER
	Approved By: I.K.
	Drawing No. 1 of 3

DMS # 01-01-355



Shed #2



Shed #1

Legend :

◆ = Sample Number & Location

Drawing Title: Lead Sample Location Diagram	
Prepared by: EnviroMed Services, Inc. 25 Science Park, New Haven, CT 06511	Date: 5/29/01
Project: Marlborough DOT - Shed #1 & Shed #2 Marlborough, Connecticut	Scale: N.T.S.
Prepared for: State of Connecticut Department of Transportation Newington, Connecticut	Drawn By: DER
	Approved By: G.B.
	Drawing No. 2 of 2
EMS # 1H-01-335	

APPENDIX k
RELATED CORRESPONDENCE

Plimpton, Erik

From: Bordonaro, Joseph S <Joseph.Bordonaro@ct.gov>
Sent: Friday, October 19, 2018 11:14 AM
To: Socolosky, Mandy
Cc: Plimpton, Erik; Arienti, Stephen
Subject: RE: 41-119 and 78-94 East Hampton and Marlborough

Mandy,

Yes, Project 41-119 FDP is Dec 5th. Although the submission from designers is due November 28th.

Thanks, Joe

From: Socolosky, Mandy
Sent: Tuesday, October 16, 2018 5:25 PM
To: Erik Plimpton (eplimpton@trcsolutions.com) <eplimpton@trcsolutions.com>; Arienti, Stephen <SArienti@trcsolutions.com>
Cc: Bordonaro, Joseph S <Joseph.Bordonaro@ct.gov>
Subject: FW: 41-119 and 78-94 East Hampton and Marlborough

Can you please send us an RFA for 710/20 for Marlborough Maintenance? FDP is Dec 5th – Joe, please correct me if that date is wrong.

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

From: Socolosky, Mandy
Sent: Tuesday, September 11, 2018 10:27 AM
To: Erik Plimpton (eplimpton@trcsolutions.com) <eplimpton@trcsolutions.com>
Subject: FW: 41-119 and 78-94 East Hampton and Marlborough

Yes, please see the attached. At Marlborough they are:

- 1) Replacing the roof
- 2) Installing window infills
- 3) May replace overhead doors. Remove above ground domestic water and sanitary service piping, and wastewater piping and accessories in place. Remove oil-fired and electric heating systems. Retain electrical system to the extent necessary to retain interior lighting and 1 block heater receptacle per bay. Remove obsolete electrical system components, conduit, wiring. Salvage generator and transfer switch.
- 4) Sealing all floor drains/bay area doors
- 5) Demo bathroom

6) Demo tool crib/rest area

Mandy Socolosky

Environmental Compliance

Connecticut Department of Transportation

2800 Berlin Turnpike

Newington, CT 06111

Phone: (860)594-3396

E-mail: Mandy.Socolosky@ct.gov

From: Plimpton, Erik [<mailto:EPlimpton@trcsolutions.com>]

Sent: Tuesday, September 11, 2018 10:07 AM

To: Socolosky, Mandy

Cc: Arienti, Stephen; Young, Denise A

Subject: RE: 41-119 and 78-94 East Hampton and Marlborough

Did you get the scope of work for Marlboro MF reno?

Erik R. Plimpton, PE, CHMM, CMC

TRC

860-798-4699

eplimpton@trcsolutions.com

From: Socolosky, Mandy [<mailto:Mandy.Socolosky@ct.gov>]

Sent: Thursday, August 30, 2018 2:06 PM

To: Plimpton, Erik <EPlimpton@trcsolutions.com>

Cc: Arienti, Stephen <SArienti@trcsolutions.com>; Young, Denise A <Denise.Young@ct.gov>; Coite, Jason M. <Jason.Coite@ct.gov>

Subject: RE: 41-119 and 78-94 East Hampton and Marlborough

Ignore that scope that I had sent last. I am trying to get a new scope for Marlborough as it relates to the Maintenance Facility.

Mandy Socolosky

Environmental Compliance

Connecticut Department of Transportation

2800 Berlin Turnpike

Newington, CT 06111

Phone: (860)594-3396

E-mail: Mandy.Socolosky@ct.gov

From: Plimpton, Erik [<mailto:EPlimpton@trcsolutions.com>]

Sent: Thursday, August 30, 2018 1:38 PM

To: Socolosky, Mandy

Cc: Arienti, Stephen; Young, Denise A; Coite, Jason M.

Subject: RE: 41-119 and 78-94 East Hampton and Marlborough

So just so I'm totally clear:

It's the East Hampton Salt Shed, we did under assignment 5751, and already have the specs done for. They stay as is.

Now we are adding the Marlboro Maint Facility (not salt shed), which will have various renovations, so we need to do a survey, then add that info into the specs we already have for east Hampton salt shed.

And you are right, we did do just a survey of the roof of the Marlboro MF back in 2011 under assignment 4152, 3 contracts ago.

The Marlboro Salt Shed is part of a salt shed roof replace project under 5608 that we just did, and it stays as is and has nothing to do with this.

I got that correct?

Erik R. Plimpton, PE, CHMM, CMC

TRC
860-798-4699
eplimpton@trcsolutions.com

From: Socolosky, Mandy [<mailto:Mandy.Socolosky@ct.gov>]
Sent: Tuesday, August 21, 2018 2:35 PM
To: Plimpton, Erik <EPlimpton@trcsolutions.com>
Cc: Arienti, Stephen <SArienti@trcsolutions.com>; Young, Denise A <Denise.Young@ct.gov>; Coite, Jason M. <Jason.Coite@ct.gov>
Subject: 41-119 and 78-94 East Hampton and Marlborough

Hi Erik,

I have attached the specs that you originally had completed for the East Hampton Salt Shed. We are quickly approaching the 90% mark for both East Hampton and Marlborough and a few scope changes have been made which will affect the specs needed for the Marlborough portion of the project. It looks like Marlborough will have a new roof, windows, some interior walls, an abandoned septic tank and replacement of some bay doors. Although design is not completely sure of all of the specifics, the previous Marlborough inspection that you had completed for Denise a while back should provide some background knowledge on hazmat items that may be present there. Once we have a more finalized scope, we can see if a mod is necessary to cover the costs incurred from doing another inspection and spec amendments for Marlborough. In the meantime, we will need TRC to survey the Marlborough site and add to the existing specs as needed, keeping in mind that some items may be unknown at the 90% still.

Thank you and let me know if you need anything.

Mandy Socolosky

Environmental Compliance
Connecticut Department of Transportation
2800 Berlin Turnpike
Newington, CT 06111

Phone: (860)594-3396

E-mail: Mandy.Socolosky@ct.gov

Plimpton, Erik

From: Socolosky, Mandy <Mandy.Socolosky@ct.gov>
Sent: Friday, October 26, 2018 2:40 PM
To: Hayman, John C
Cc: Brouillard, Brian D; Young, Denise A; Plimpton, Erik; Arienti, Stephen
Subject: FW: Marlboro MF

Good Afternoon John,

Our environmental consultant (TRC) will be visiting the Marlborough Maintenance Facility next Monday or Tuesday to do a hazardous building materials investigative survey for project 0078-0094. Also, on one of those days, they will need to inspect the personnel shelter at the East Hampton Salt Shed for project 0041-0119. If that shelter is locked, please have it unlocked so TRC can access it for their investigation.

Thank you and have a nice weekend,

Mandy Socolosky

Environmental Compliance
Connecticut Department of Transportation
2800 Berlin Turnpike
Newington, CT 06111
Phone: (860)594-3396
E-mail: Mandy.Socolosky@ct.gov

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



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



[Incident Notification Report](#)

Don Repair, Stores – CT15 NB to CT2 EB (after end of expressway) – left onto Harland Rd – right onto Hunters Rd – left onto CT12 – facility is on right – 486 River Rd

Litchfield Maint – CT72 WB to US6 WB to CT8 NB exit 44 – left onto US202 – garage is on right – 438 Bantam Road

Mansfield Maint – CT15 NB to I84 EB to I384 EB to US6 EB Storrs exit (Rte 195) – left onto High St. – right onto SR632 (North Frontage Rd.) – garage is on left – 100 North Frontage Rd.

Marlborough Maint – CT15 NB to CT2 EB to exit 13 – right onto CT66 – left onto South Main St. – garage is on right – 64 South Main St.

Meriden Maint – CT15 SB exit onto Miller Ave. – garage is on left

Middletown Maint – CT15 SB to CT9 SB exit 11 – take a left – garage is +/- ¼ mile – Randolph Rd.

Milford Maint, Repair, Bridge, Elect, Stores – CT15 SB exit for Milford Connector to I95 NB exit 40 – left onto Old Gate Lane – left onto Woodmont – left onto Banner Drive – garage is on right – 44 Banner Dr.

Montville Elect – CT15 NB to CT2 EB to I395 SB exit 79A to CT2A exit 1 – left onto CT32 – garage is on left – 2090 Norwich/New London Turnpike

New Canaan Maint – CT15 SB exit 37 – continue on Gerdes Rd – garage is on right – 47 Gerdes Road

New Haven District III – CT15 SB exit 59 – right onto Whalley Ave. – take a left onto Pond Lily – office is on left – 140 Pond Lily

New Haven (Blvd) Maint – CT15 SB to I91 SB to I95 SB exit 45 – left onto Sea St. – garage is on right

New London State Pier, CVRR pier – CT15 SB to CT9 SB to I95 NB exit 83 – at light take a left onto Williams St. – take a right onto Cole St. – take a right onto State Pier Rd.

New Milford Maint - CT15 SB to I691 WB to I84 WB exit 7 to US7 NB – garage is on left – 43 Kent Rd.

Newington Region 1 P&F – CT15 NB – left onto CT287 – left onto Flagler St. – facility is on right – 17 Flagler St.

Norfolk Maint – CT9 NB to I84 WB to US4 WB – right onto CT10 – left onto US44 – right onto CT272 – garage is on right – 190 North St.

North Canaan Maint – CT9 NB to I84 WB to US4 WB – right onto CT10 – left onto US44 – right onto Gandolfo Dr. – garage is in back past RR tracks

North Haven Maint, signs & mkgs – CT15 SB to I91 SB exit 10 to CT40 – 1st exit – right onto Devine St. – right onto US5 – garage is on left – 311 State St.

ASSET ID	CLASS/SC	ASSET DESCRIPTION	ACQ. DATE	DEPT ID	LOCATION ID	LOCATION DESCRIPTION	STREET ADDRESS	CITY	STATE	ZIP	TOTAL COST
094000564	094BC	COLD STORAGE SHED	7/11/1947	DOT57262	AJES000878	Cold Storage Shed	Route 632	Mansfield	CT	06250	\$ 317.00
094000602	094SG	PERSONNEL SHELTER	12/11/1996	DOT57262	AJES0003919	Personnel Shelter	Plains Road	Mansfield	CT	06250	\$ 10,000.00
094000603	094SE	SALT SHED	12/11/1996	DOT57252	AJES0003920	Salt Shed	Plains Road	Mansfield	CT	06250	\$ 200,000.00
094000658	094SE	SALT SHED	5/11/2001	DOT57262	AJES0004052	Salt Shed	100 Frontingh Road	Mansfield	CT	06250	\$ 41,700.00
TOWN OF MANSFIELD:											
081000006	081GB	MAINTENANCE GARAGE	7/11/1962	DOT57262	AJES0003629	Maintenance Garage	64 South Main Street, Route 583 W/S	Marlborough	CT	06447	\$ 116,852.00
093000005	093SI	SITE IMPROVEMENT	8/11/1982	DOT57262	ADOT0930005	SITE IMPROVEMENT	BI-S-159	MARLBOROUGH	CT	06447	\$ 850.00
09300118	093SI	DRAINAGE/GRADING/PAVING	6/11/1991	DOT57262	ADOT0931118	DRAINAGE/GRADING/PAVING	64 SOUTH MAIN STREET	MARLBOROUGH	CT	06447	\$ 97,199.00
094000016	094HA	JET HANGAR (4 BAYS)	6/11/1964	DOT57262	AJES0003809	Jet Hangar (4 Bays)	Route 583	Marlborough	CT	06447	\$ 3,457.00
094000443	094SE	SALT SHED	12/11/1989	DOT57262	AJES0004046	Salt Shed	South Main Street	Marlborough	CT	06447	\$ 281,182.00
09400628	094SF	STORAGE SHED	7/11/2000	DOT57262	AJES0004068	Storage Shed	64 South Main Street	Marlborough	CT	06447	\$ 5,000.00
TOWN OF MARLBOROUGH:											
08100685	081GB	MAINTENANCE GARAGE	11/11/1997	DOT57253	AJES0004022	Maintenance Garage	239 Miller Avenue	Meriden	CT	06451	\$ 2,220,730.00
093000075	093SI	FENCE/GATE	4/11/1988	DOT57253	ADOT0930075	FENCE/GATE	MILLER AVENUE	MERIDEN	CT	06450	\$ 8,147.00
093000289	093SI	PAVING/DRAINAGE/LANDSCAPING	6/11/1998	DOT57253	ADOT093289	PAVING/DRAINAGE/LANDSCAPE	239 MILLER AVENUE	MERIDEN	CT	06450	\$ 813,298.00
094000542	094SO	BUS SHELTER	8/11/1994	DOT57931	AJES0003855	Bus Shelter	Boe Street	Meriden	CT	06451	\$ 5,082.00
094000610	094SE	SALT SHED	11/11/1996	DOT57253	AJES0004026	Salt Shed	Miller Avenue	Meriden	CT	06451	\$ 466,218.00
094000667	094 I	EQUIPMENT SHELTER	9/11/2001	DOT57253	AJES0004063	Equipment Shelter	Miller Avenue	Meriden	CT	06451	\$ 9,850.00
TOWN OF MERIDEN:											
09000108	090 I	GARAGE	6/11/1999	DOT57126	AJES0004225	Garage	Rte. 9 & Aston St.	Middletown	CT	06457	\$ 50,000.00
081000007	081GB	MAINTENANCE GARAGE	7/11/1963	DOT57253	AJES0003817	Maintenance Garage	Paddock Ave & Randolph Road	Middletown	CT	06457	\$ 1,893,713.00
081000076	081SA	INFORMATION CENTER & REST AREA	9/11/1979	DOT57253	AJES0003623	Information Center & Rest Area	Rte I-91 N/B	Middletown	CT	06457	\$ 692,131.00
081000077	081BC	WATER EQUIPMENT STORAGE	9/11/1979	DOT57253	AJES0003632	Water Equipment Storage	Rte I-91 N/B	Middletown	CT	06457	\$ 15,000.00
081000078	081BC	EQUIPMENT STORAGE	9/11/1979	DOT57253	AJES0003643	Equipment Storage	Rte I-91 N/B	Middletown	CT	06457	\$ 8,000.00
08400158	084 I	MIDDLETOWN	7/11/1963	DOT57253	AJES0004999	DOT083LAND	Paddock Ave & Randolf	Middletown	CT	06457	\$ 14,200.00
08400360	084 I	LAND-SECONDARY ROW-MIDDLETOW	3/11/1987	DOT57951	AJES0004685	DOT LAND	SECONDARY ROW	Middletown	CT	06457	\$ 489,433.00
09300165	093SI	DRAINAGE/GRADING/PAVING	4/11/1993	DOT57253	ADOT093165	DRAINAGE/GRADING/PAVING	PADDOCK AVENUE	MIDDLETOWN	CT	06455	\$ 200,685.00
093000331	093SI	SECURITY GATES	6/11/1995	DOT57253	ADOT093331	SECURITY GATES	RTE I-91 N/B	MIDDLETOWN	CT	06457	\$ 2,310.00
093000336	093SI	DRAINAGE/PAVING/FENCE	6/11/1995	DOT57253	ADOT093336	DRAINAGE/PAVING/FENCE	PADDOCK AVENUE	MIDDLETOWN	CT	06457	\$ 240,008.00

ConnDOT, Marlborough Maintenance Facility, Hartford, , Marlborough, 06447, CT, US, S Main St, 64

Created 2018-10-29 09:18:59 EDT by Jonathan Gentile
Updated 2018-10-30 13:10:22 EDT by Jonathan Gentile
Location 41.6256204620391, -72.4533097353507
Status ■ Survey Complete

Job Information

Site Name Marlborough Maintenance Facility
Address 64 S Main St
Marlborough, CT 06447
TRC Project Number 2221655751.0710
Project Manager Erik Plimpton
Inspector(s) Jonathan Gentile, David Heelon
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 2018-10-29
General Notes Inspection for the renovation of the building. Roof to be replaced and several changes to be made to the interior of the building. Note that some NOB samples only collected for TEM analysis as they were already analyzed negative through PLM during EnviroMed 2001 survey. Also, interior window glazing already deemed ACM during same survey and not re-sampled this time. Roof unchanged since TRC survey of 9/2011. Refer to sample results from that survey.

Overview Photo







Surveys Performed

Asbestos, PCB Bulks, XRF, Hazardous Materials Inventory

Asbestos Section

(2), FT, 1, 12"x12", Tan w/Lt & Dk Brown Streaks FT & Black Mastic

Representative Photos



Women's Bathroom

Sample Location	Women's Bathroom
Analyze by Layer	Yes
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-10-29
Time	09:21

Women's Bathroom

Sample Location	Women's Bathroom
Analyze by Layer	Yes
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-10-29
Time	09:21

Material Information

Sampled or Assumed?	Sampled
Material Acronym	FT, 1, 12'x12'
Material Description	Tan w/Lt & Dk Brown Streaks FT & Black Mastic
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Women's Bathroom
Total Approximate Quantity	50 SF

Total Count (2)

(1), CB, 1, 4" Brown Covebase & Cream Glue

Representative Photos



Women's Bathroom

Sample Location	Women's Bathroom
Analyze by Layer	Yes
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-10-29
Time	09:30

Material Information

Sampled or Assumed?	Sampled
Material Acronym	CB, 1
Material Description	4" Brown Covebase & Cream Glue
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Women's Bathroom
Total Approximate Quantity	30 LF
Total Count	(1)

(1), FT, 2, 12"x12", Cream w/Thin Brown Streaks FT & Yellow Mastic

Representative Photos



Office

Sample Location	Office
Analyze by Layer	Yes
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-10-29
Time	10:23

Material Information

Sampled or Assumed?	Sampled
Material Acronym	FT, 2, 12"x12"
Material Description	Cream w/Thin Brown Streaks FT & Yellow Mastic
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Office
Total Approximate Quantity	250 SF
Total Count	(1)

(1), EJ1, Black Tar-Like Floor Expansion Jt Pad

Representative Photos



Base of Ext Wall C-Side by Rest Area

Sample Location	Base of Ext. Wall C-Side by Rest Area
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-10-29
Time	10:30

Material Information

Sampled or Assumed?	Sampled
Material Acronym	EJ1
Material Description	Black Tar-Like Floor Expansion Jt Pad
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Floor at A, C & D side walls
Total Approximate Quantity	225 LF
Total Count	(1)

(1), C, 1, Grey Rubbery Ext Window/Roll-Up Door Caulk

Representative Photos



Bay 2 Ext Roll-Up Door Frame

Sample Location	Bay 2 Ext Roll-Up Door Frame
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-10-29
Time	10:46

Material Information

Sampled or Assumed?	Sampled
Material Acronym	C, 1
Material Description	Grey Rubbery Ext Window/Roll-Up Door Caulk
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Ext Roll-Up Doors and Office Windows
Total Approximate Quantity	255 LF
Total Count	(1)

(1), C, 2, Brown Rubbery Ext Roll-Up Door Caulk

Representative Photos



Bay 2 Ext Roll-Up Door

Sample Location	Bay 2 Ext Roll-Up Door
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-10-29
Time	10:49

Material Information

Sampled or Assumed?	Sampled
Material Acronym	C, 2
Material Description	Brown Rubbery Ext Roll-Up Door Caulk
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Ext Roll-Up Door Frames
Total Approximate Quantity	220 LF
Total Count	(1)

(1), C, 3, White Pliable Ext Bldg Caulk

Representative Photos



Ext D-Side by Men's Bathroom

Sample Location	Ext D-Side by Men's Bathroom
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-10-29
Time	11:14

Material Information

Sampled or Assumed?	Sampled
Material Acronym	C, 3
Material Description	White Pliable Ext Bldg Caulk
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Ext D-Side Wall Expansion Jts
Total Approximate Quantity	30 LF
Notes	Material was added to fill cracks in mortar joints so is not in all joints.
Total Count	(1)

(2), DWG, 1, Grey Sticky/Gummy Metal Door Window Glaze

Representative Photos



Hall Door to Break Area

Sample Location	Hall Door to Break Area
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-10-29
Time	13:12

Hall Door to Garage Bays 4-9

Sample Location	Hall Door to Garage Bays 4-9
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-10-29
Time	13:14

Material Information

Sampled or Assumed?	Sampled
Material Acronym	DWG, 1
Material Description	Grey Sticky/Gummy Metal Door Window Glaze
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Hallway Doors
Total Approximate Quantity	2

Total Count

(2)

(2), DWG, 2, Lt Grey Gummy Wood Door Window Glaze

Representative Photos



Office Door

Sample Location
Analyze by Layer
Asbestos Bulk Analysis
Grab or Composite
Date
Time

Office Door
No
PLM EPA 600/R93/116
Grab
2018-10-29
13:17

Office Door

Sample Location
Analyze by Layer
Asbestos Bulk Analysis
Grab or Composite
Date
Time

Office Door
No
PLM EPA 600/R93/116
Grab
2018-10-29
13:17

Material Information

Sampled or Assumed?
Material Acronym
Material Description
Is Material a Non-Friable Organically Bound (NOB)

Sampled
DWG, 2
Lt Grey Gummy Wood Door Window Glaze
Yes

Homogeneous Area	Office Door
Total Approximate Quantity	1
Total Count	(2)

PCB Bulk Section

(3), WG, 1, Grey Brittle Interior Window Glaze

Tool Crib Wdw

Sample Location	Tool Crib Wdw
PCB Bulk Analysis	EPA 8082/3540C (Soxhlet)
Grab or Composite	Grab
Date	2018-10-29
Time	10:10

Men's Bathroom

Sample Location	Men's Bathroom
PCB Bulk Analysis	EPA 8082/3540C (Soxhlet)
Grab or Composite	Grab
Date	2018-10-29
Time	10:24

Garage Bay 4 Wdw

Sample Location	Garage Bay 4 Wdw
PCB Bulk Analysis	EPA 8082/3540C (Soxhlet)
Grab or Composite	Grab
Date	2018-10-29
Time	10:29

Material Information

Accessible Material	Access ble
Material Interior or Exterior?	Interior
Material Acronym	WG, 1
Material Description	Grey Brittle Interior Window Glaze
Substrate Adjacent to Material	Metal
Total Approximate Quantity	14
Total Count	(3)

(3), C, 2, Brown Rubbery Roll-Up Door Caulk

Ext Bay 2 Roll-Up Door

Sample Location	Ext Bay 2 Roll-Up Door
PCB Bulk Analysis	EPA 8082/3540C (Soxhlet)
Grab or Composite	Grab
Date	2018-10-29
Time	11:14

Ext Bay 3 Roll-Up Door

Sample Location	Ext Bay 3 Roll-Up Door
PCB Bulk Analysis	EPA 8082/3540C (Soxhlet)
Grab or Composite	Grab
Date	2018-10-29
Time	11:29

Ext Bay 6 Roll-Up Door

Sample Location	Ext Bay 6 Roll-Up Door
PCB Bulk Analysis	EPA 8082/3540C (Soxhlet)
Grab or Composite	Grab
Date	2018-10-29
Time	11:37

Material Information

Accessible Material	Accessible
Material Interior or Exterior?	Exterior
Material Acronym	C, 2
Material Description	Brown Rubbery Roll-Up Door Caulk
Substrate Adjacent to Material	CMU
Exterior Ground Cover Below Material	Concrete
Homogeneous Area	B Side Roll-Up Doors
Total Count	(3)

(3), C, 1, Grey Rubbery Roll-Up Door/Window Caulk

Ext by Bay 2

Sample Location	Ext by Bay 2
PCB Bulk Analysis	EPA 8082/3540C (Soxhlet)
Grab or Composite	Grab
Date	2018-10-29
Time	10:51

Ext by Wdw near Bay 3

Sample Location	Ext by Wdw near Bay 3
PCB Bulk Analysis	EPA 8082/3540C (Soxhlet)
Grab or Composite	Grab
Date	2018-10-29
Time	10:57

Ext by Bay 8

Sample Location	Ext by Bay 8
PCB Bulk Analysis	EPA 8082/3540C (Soxhlet)
Grab or Composite	Grab
Date	2018-10-30
Time	11:06

Material Information

Accessible Material	Accessible
Material Interior or Exterior?	Exterior
Material Acronym	C, 1
Material Description	Grey Rubbery Roll-Up Door/Window Caulk
Substrate Adjacent to Material	CMU, Wood, Metal, Brick
Exterior Ground Cover Below Material	Concrete, Asphalt
Homogeneous Area	Ext B Side Roll-Up Doors & Windows
Total Count	(3)

(3), C, 3, White Pliable Ext Bldg Caulk

Ext D Side Expansion Jt by Men's Bathroom

Sample Location	Ext D Side Expansion Jt by Men's Bathroom
PCB Bulk Analysis	EPA 8082/3540C (Soxhlet)
Grab or Composite	Grab
Date	2018-10-29
Time	13:06

Ext D Side Expansion Jt by Bay 4

Sample Location	Ext D Side Expansion Jt by Bay 4
PCB Bulk Analysis	EPA 8082/3540C (Soxhlet)
Grab or Composite	Grab
Date	2018-10-29
Time	13:15

Ext D Side Vent by Tool Crib

Sample Location	Ext D Side Vent by Tool Crib
PCB Bulk Analysis	EPA 8082/3540C (Soxhlet)
Grab or Composite	Grab
Date	2018-10-30
Time	09:57

Material Information

Accessible Material	Accessible
Material Interior or Exterior?	Exterior
Material Acronym	C, 3
Material Description	White Pliable Ext Bldg Caulk
Substrate Adjacent to Material	CMU, Wood
Exterior Ground Cover Below Material	Soil
Homogeneous Area	D Side Expansion Jts and Exhaust Vents
Total Count	(3)

XRF Section

Niton XRF Model No.	24792
XRF Survey Completed	Yes

XRF Data Downloaded	Yes
XRF Shots >1.0 on non-metallic building materials	No
Date Data Downloaded	2018-10-30

HAZMAT Inventory Section

Tool Crib/Break Area

Inventory Area Description	Tool Crib/Break Area
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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	5

Universal Waste (UW), Halogen Lights (Lamps)

HAZMAT Item Description	Universal Waste (UW), Halogen Lights (Lamps)
HAZMAT Item Quantity	5

Universal Waste (UW), Emergency Lighting (Batteries/Hg Lamps)

HAZMAT Item Description	Universal Waste (UW), Emergency Lighting (Batteries/Hg Lamps)
HAZMAT Item Quantity	2

Universal Waste (UW), Motion Sensors/Heat Sensors (Circuit boards)

HAZMAT Item Description	Universal Waste (UW), Motion Sensors/Heat Sensors (Circuit boards)
HAZMAT Item Quantity	3

Universal Waste (UW), Mercury Thermostats (Ampoule)

HAZMAT Item Description	Universal Waste (UW), Mercury Thermostats (Ampoule)
HAZMAT Item Quantity	1

Fire Alarm Pull Box

HAZMAT Item Description	Fire Alarm Pull Box
HAZMAT Item Quantity	2

Fire Alarm Strobe

HAZMAT Item Description	Fire Alarm Strobe
HAZMAT Item Quantity	1

Bathrooms and Office

Inventory Area Description	Bathrooms and Office
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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	8

Universal Waste (UW), Fluorescent bulbs

HAZMAT Item Description	Universal Waste (UW), Fluorescent bulbs
HAZMAT Item Quantity	17

Universal Waste (UW), Motion Sensors/Heat Sensors (Circuit boards)

HAZMAT Item Description	Universal Waste (UW), Motion Sensors/Heat Sensors (Circuit boards)
HAZMAT Item Quantity	2

Refrigerants (CFCs/Freon), Air Conditioner

HAZMAT Item Description	Refrigerants (CFCs/Freon), Air Conditioner
HAZMAT Item Quantity	1

Refrigerants (CFCs/Freon), Water Fountains

HAZMAT Item Description	Refrigerants (CFCs/Freon), Water Fountains
HAZMAT Item Quantity	1

Main Garage Area (Bays 4-9)

Inventory Area Description	Main Garage Area (Bays 4-9)
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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	11

Universal Waste (UW), Halogen Lights (Lamps)

HAZMAT Item Description	Universal Waste (UW), Halogen Lights (Lamps)
HAZMAT Item Quantity	11

Universal Waste (UW), Emergency Lighting (Batteries/Hg Lamps)

HAZMAT Item Description	Universal Waste (UW), Emergency Lighting (Batteries/Hg Lamps)
HAZMAT Item Quantity	2

Fire Alarm Strobe

HAZMAT Item Description	Fire Alarm Strobe
HAZMAT Item Quantity	2

Fire Alarm Pull Box

HAZMAT Item Description	Fire Alarm Pull Box
HAZMAT Item Quantity	1

Universal Waste (UW), Mercury Thermostats (Ampoule)

HAZMAT Item Description	Universal Waste (UW), Mercury Thermostats (Ampoule)
HAZMAT Item Quantity	1

Universal Waste (UW), Motion Sensors/Heat Sensors (Circuit boards)

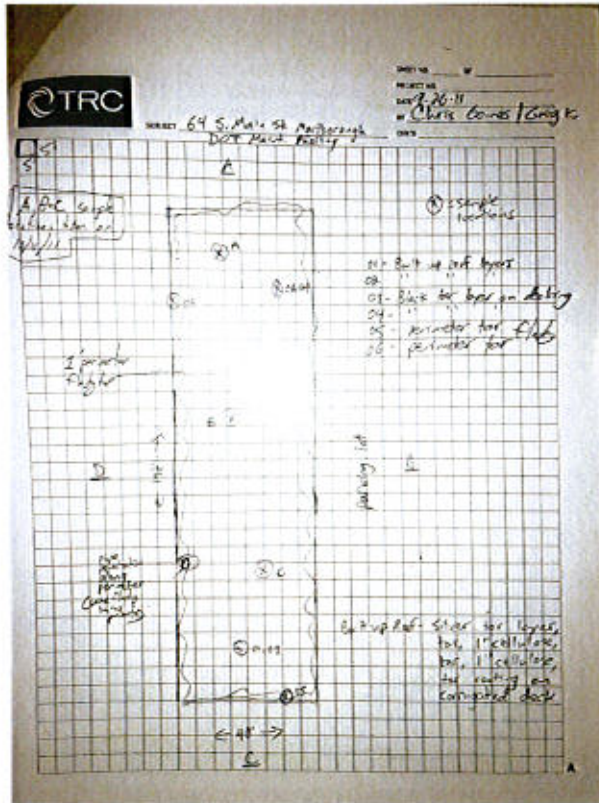
HAZMAT Item Description	Universal Waste (UW), Motion Sensors/Heat Sensors (Circuit boards)
HAZMAT Item Quantity	4

Exterior

Inventory Area Description	Exterior
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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 Common Name	Halogen Ballasts
HAZMAT Item Quantity	3



Signature

Signed 2018-10-29 12:48:24 EDT

Asbestos Samples Submitted to TRC Lab

Yes

Date Submitted to Lab

2018-10-30

PCB Samples Submitted to Lab

No

App Name

WinBSI HBM Survey 1.0