



March 20, 2018

Mr. Adam Fox, P.E.  
Principal Engineer  
Environmental Compliance Section  
Bureau of Engineering and Construction  
State of Connecticut Department of Transportation  
2800 Berlin Turnpike, P.O. Box 317546  
Newington, CT 06131-7546

Attention: Amie Maines, P.E. / Felix Mathieu

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance  
Agreement No. 04.27-01(15)  
HazMat Inspection – Route 8 Highway Resigning, 0.00 MP to 12.50 MP, Bridgeport,  
Trumbull & Shelton, CT  
ConnDOT Assignment No. 514-5696  
ConnDOT Project No. 173-441  
TRC Project No. 222165.5696.00710

Dear Mr. Fox:

TRC performed a limited survey for hazardous building materials associated with highway resigning along Route 8 (0.00 MP to 12.50 MP) in Bridgeport, Trumbull & Shelton, Connecticut. Results of the survey identified the following on the sign support surfaces at the following Sign Support Nos.:

- All side-mounted panel signs had galvanized legs that were unpainted, therefore no lead paint was identified.
- Galvanized (unpainted) sign support poles were confirmed present at Sign Support Nos. 20509, 20510, **20511 (20813 marked)**, 20512, **20513 (marked 22003)**, 20523, 20529, 20530, 20531, **20533, 20535**, 20592 (marked 21945), **20593**, 20594, **20600**, 20601, 20604, 20607, **20610**, 20612, 20615A, 20615B & 20616, therefore no lead paint was identified.
- Detectable amounts of lead in paint were confirmed present at Sign Support Nos. **20514, 20515, 20516**, 20517, **20518**, 20519, 20520, 20521, 20522 (bridge), 20524, 20525, 20526, 20527, 20528, 20534, 20591, 20595, 20596, 20597, 20598, 20599, 20602, 20603, 20606, 20608 (bridge), **20609**, 20611, 20613, 20614 & 20617.
- Projected paint waste debris was characterized as non-hazardous, non-RCRA waste at Sign Support Nos. **20514, 20515, 20516**, 20517, **20518**, 20519, 20520, 20521, 20522 (bridge), 20524, 20525, 20526, 20527, 20528, 20534, 20591, 20595, 20596, 20597, 20598, 20599, 20602, 20603, 20606, 20608 (bridge), **20609**, 20611, 20613, 20614, 20617.
- Projected paint waste debris from bridge anchor points at Sign Support Nos. 20522 & 20608 was characterized as CTDEEP/RCRA hazardous waste.
- Caulking (C1, C2 & C4) around & potentially beneath the metal sign support baseplates and concrete foundations at Sign Support Nos. **20515**, 20517, 20525, 20528, 20591, 20598, 20603, 20606, **20609**, 20613, 20614 & 20617 were found to contain asbestos. Dark grey rubbery caulking (C3) at base of Sign Support No. 20516 was found to contain no asbestos.

**\*Sign Support Nos. in bold were part of the initial hazardous building materials investigation scope, but are now not projected to be impacted as part of the construction project according to Preliminary Design (60%) Traffic Drawings for ConnDOT Project No. 173-441.**

Laboratory data, Site No. information and inspector notes are attached.

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

Very Truly Yours,

**TRC**



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



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



### Lead Based Paint Measurement Summary Table

Device(s): Niton XLP301-A (Serial #24792) X Ray Fluorescence (XRF) Spectrum Analyzer  
 Site: ConnDOT - Route 8 Highway Resigning, Bridgeport, Trumbull, Shelton, CT  
 Project #: 222165.5696.0710  
 Date(s): 1/15/2018, 1/16/2018  
 Inspectors: Zach Smith

Number	Interior/ Exterior	Location	Sign Support No.	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm <sup>2</sup> )	Precision (mg/cm <sup>2</sup> )	Depth Index	Duration (sec)	Date/Time
1		Self Calibration								0.0	0.0	1.0	78.3	1/15/2018 10:30
2		0.0 Calibration								0.7	0.1	1.1	2.0	1/15/2018 10:32
3		0.7 Calibration								1.7	0.1	1.2	3.7	1/15/2018 10:32
4		1.6 Calibration											12.1	1/15/2018 10:33
5	Exterior		20519		sign post		Metal	Tan/beige	Intact	0.2	0.1	2.8	4.9	1/15/2018 10:35
6	Exterior		20519		sign post		Metal	Brown	Intact	0.1	0.1	4.6	6.3	1/15/2018 10:35
7	Exterior		20519		sign post cross beam		Metal	Tan/beige	Intact	0.3	0.1	4.2	5.8	1/15/2018 10:36
8	Exterior		20519		sign post bolt		Metal	Brown	Intact	0.1	0.1	7.9	8.6	1/15/2018 10:37
9	Exterior		20519		sign post bolt		Metal	Brown	Intact	0.1	0.2	3.8	1.2	1/15/2018 10:38
10	Exterior		20520		sign post cross beam		Metal	Tan/beige	Intact	0.3	0.1	4.9	6.6	1/15/2018 10:53
11						VOID								
12	Exterior		20520		sign post		Metal	Brown	Intact	0.2	0.2	10.0	9.0	1/15/2018 10:54
13	Exterior		20520		sign post		Metal	Brown	Intact	0.0	0.0	1.0	2.6	1/15/2018 10:55
14						VOID								
15	Exterior		20521		sign post		Metal	Tan/beige	Intact	0.1	0.1	4.6	7.2	1/15/2018 11:04
16	Exterior		20521		sign post base		Metal	Black	Intact	0.1	0.1	1.8	4.9	1/15/2018 11:06
17	Exterior		20522		bridge beam		Metal	Tan/beige	Intact	5.3	1.4	1.7	4.3	1/15/2018 11:18
18	Exterior		20524		sign post		Metal	Tan/beige	Intact	0.2	0.1	5.3	6.9	1/15/2018 11:26
19	Exterior		20524		sign post base		Metal	Tan/beige	Intact	0.1	0.1	2.2	5.2	1/15/2018 11:27
20	Exterior		20525		sign post		Metal	Tan/beige	Intact	0.2	0.1	3.6	6.3	1/15/2018 11:36
21	Exterior		20525		sign post cross beam		Metal	Tan/beige	Intact	0.3	0.1	4.6	8.7	1/15/2018 11:37
22	Exterior		20526		sign post		Metal	Tan/beige	Intact	0.2	0.1	4.4	5.5	1/15/2018 11:51
23	Exterior		20526		sign post base		Metal	Tan/beige	Intact	0.2	0.1	2.9	5.5	1/15/2018 11:52
24	Exterior		20527		sign post		Metal	Tan/beige	Intact	0.2	0.1	6.0	9.5	1/15/2018 12:05
25						VOID								
26	Exterior		20528		sign post		Metal	Tan/beige	Intact	0.2	0.1	6.0	8.1	1/15/2018 12:14
27	Exterior		20528		sign post base		Metal	Tan/beige	Intact	0.2	0.1	2.2	4.1	1/15/2018 12:15
28	Exterior		20534		sign post		Metal	Tan/beige	Intact	0.2	0.1	4.8	6.7	1/15/2018 12:46
29	Exterior		20534		sign post base		Metal	Tan/beige	Intact	0.1	0.1	3.5	5.5	1/15/2018 12:46
30		0.0 Calibration								0.0	0.0	1.0	2.0	1/15/2018 13:41
31		0.7 Calibration								0.8	0.1	1.1	7.5	1/15/2018 13:41
32		1.6 Calibration								1.6	0.1	1.2	6.1	1/15/2018 13:42
33		Self Calibration											78.2	1/16/2018 10:24
34		0.0 Calibration								0.0	0.0	1.0	2.0	1/16/2018 10:25
35		0.7 Calibration								0.7	0.1	1.1	5.4	1/16/2018 10:25
36		1.6 Calibration								1.6	0.1	1.2	5.8	1/16/2018 10:25
37	Exterior		20591		sign post		Metal	Tan/beige	Intact	0.2	0.1	5.1	6.9	1/16/2018 10:30
38	Exterior		20591		sign post base		Metal	Tan/beige	Intact	0.3	0.1	4.6	6.1	1/16/2018 10:31
39	Exterior		20595		sign post		Metal	Tan/beige	Intact	0.3	0.1	4.4	8.1	1/16/2018 10:46
40	Exterior		20595		sign post base		Metal	Tan/beige	Intact	0.1	0.1	3.1	5.5	1/16/2018 10:46

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

Side A = Street side; Sides B,C,D follow clockwise





### Lead Based Paint Measurement Summary Table

Device(s): Niton XLP301-A (Serial #24792) X Ray Fluorescence (XRF) Spectrum Analyzer  
 Site: ConnDOT - Route 8 Highway Resigning, Bridgeport, Trumbull, Shelton, CT  
 Project #: 222165.5696.0710  
 Date(s): 1/15/2018, 1/16/2018  
 Inspectors: Zach Smith

Number	Interior/ Exterior	Location	Sign Support No.	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm <sup>2</sup> )	Precision (mg/cm <sup>2</sup> )	Depth Index	Duration (sec)	Date/Time
41	Exterior		20596		sign post		Metal	Tan/beige	Intact	0.2	0.1	3.7	4.9	1/16/2018 10:51
42	Exterior		20596		sign post base		Metal	Tan/beige	Intact	0.1	0.1	10.0	4.3	1/16/2018 10:52
43	Exterior		20596		sign post base		Metal	Tan/beige	Intact	0.0	0.0	2.0	3.2	1/16/2018 10:53
44	Exterior		20597		sign post		Metal	Tan/beige	Intact	0.3	0.1	5.2	7.5	1/16/2018 10:58
45	Exterior		20597		sign post base		Metal	Tan/beige	Intact	0.2	0.2	3.4	3.5	1/16/2018 10:59
46	Exterior		20598		sign post	VOID	Metal	Tan/beige	Intact	0.3	0.1	5.2	10.1	1/16/2018 11:05
47														
48	Exterior		20598		sign post base		Metal	Tan/beige	Intact	0.2	0.1	3.6	4.6	1/16/2018 11:06
49	Exterior		20599		sign post	VOID	Metal	Tan/beige	Intact	0.0	0.0	2.2	3.5	1/16/2018 11:10
50														
51	Exterior		20599		sign post base		Metal	Tan/beige	Intact	0.1	0.1	5.0	6.9	1/16/2018 11:11
52	Exterior		20602		sign post		Metal	Tan/beige	Intact	0.7	0.1	2.0	5.2	1/16/2018 11:16
53	Exterior		20602		sign post base		Metal	Black	Intact	0.6	0.3	1.7	1.4	1/16/2018 11:17
54	Exterior		20603		sign post		Metal	Tan/beige	Intact	0.4	0.2	10.0	6.9	1/16/2018 11:23
55	Exterior		20603		sign post		Metal	Tan/beige	Intact	0.2	0.1	4.5	4.3	1/16/2018 11:23
56	Exterior		20603		sign post cross beam		Metal	Tan/beige	Intact	0.2	0.1	4.3	4.6	1/16/2018 11:24
57	Exterior		20606		sign post		Metal	Tan/beige	Intact	0.2	0.1	3.8	4.3	1/16/2018 11:37
58	Exterior		20606		sign post cross beam		Metal	Tan/beige	Intact	0.2	0.1	3.8	4.3	1/16/2018 11:38
59	Exterior		20608		bridge beam		Metal	Brown	Intact	2.1	0.3	2.1	4.0	1/16/2018 11:45
60	Exterior		20608		bridge beam		Metal	Brown	Intact	3.8	0.6	1.6	3.2	1/16/2018 11:46
61	Exterior		20611		sign post		Metal	Tan/beige	Intact	0.2	0.1	2.9	4.6	1/16/2018 11:53
62	Exterior		20611		sign post cross beam		Metal	Tan/beige	Intact	0.3	0.2	6.7	4.3	1/16/2018 11:54
63	Exterior		20613		sign post		Metal	Tan/beige	Intact	0.2	0.1	2.6	4.3	1/16/2018 12:01
64	Exterior		20613		sign post cross beam		Metal	Tan/beige	Intact	0.2	0.1	3.1	5.5	1/16/2018 12:02
65	Exterior		20614		sign post		Metal	Tan/beige	Intact	0.2	0.1	3.9	4.0	1/16/2018 12:08
66	Exterior		20614		sign post cross beam		Metal	Tan/beige	Intact	0.3	0.1	4.4	4.3	1/16/2018 12:08
67	Exterior		20617		sign post		Metal	Tan/beige	Intact	0.2	0.2	2.8	3.5	1/16/2018 12:15
68	Exterior		20617		sign post cross beam		Metal	Tan/beige	Intact	0.4	0.1	4.6	8.1	1/16/2018 12:15
69	Exterior		20514		sign post		Metal	Tan/beige	Intact	0.3	0.1	3.3	4.3	1/16/2018 12:23
70	Exterior		20514		sign post cross beam		Metal	Tan/beige	Intact	0.3	0.1	3.1	4.3	1/16/2018 12:24
71	Exterior		20515		sign post		Metal	Tan/beige	Intact	2.1	0.5	4.8	17.8	1/16/2018 12:28
72	Exterior		20515		sign post		Metal	Tan/beige	Intact	1.9	0.7	4.1	8.9	1/16/2018 12:28
73	Exterior		20515		sign post cross beam		Metal	Tan/beige	Intact	0.3	0.1	6.0	5.7	1/16/2018 12:29
74	Exterior		20516		sign post		Metal	Tan/beige	Intact	0.3	0.2	5.4	4.3	1/16/2018 12:33
75	Exterior		20516		sign post cross beam		Metal	Tan/beige	Intact	0.3	0.1	3.7	4.9	1/16/2018 12:34
76						VOID								
77	Exterior		20517		sign post		Metal	Tan/beige	Intact	0.0	0.0	1.0	2.9	1/16/2018 12:39
78	Exterior		20517		sign post cross beam		Metal	Tan/beige	Intact	0.2	0.1	2.0	3.2	1/16/2018 12:39
79	Exterior		20518		sign post		Metal	Tan/beige	Intact	0.1	0.0	2.4	6.1	1/16/2018 12:45
80	Exterior		20518		sign post cross beam		Metal	Tan/beige	Intact	0.4	0.1	4.5	6.6	1/16/2018 12:45

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

Side A = Street side; Sides B,C,D follow clockwise



### Lead Based Paint Measurement Summary Table

**Device(s):** Niton XLP301-A (Serial #24792) X Ray Fluorescence (XRF) Spectrum Analyzer  
**Site:** ConnDOT - Route 8 Highway Resigning, Bridgeport, Trumbull, Shelton, CT  
**Project # :** 222165.5696.0710  
**Date(s):** 1/15/2018, 1/16/2018  
**Inspectors:** Zach Smith

Number	Interior/ Exterior	Location	Sign Support No.	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm <sup>2</sup> )	Precision (mg/cm <sup>2</sup> )	Depth Index	Duration (sec)	Date/Time
81		0.0 Calibration								0.0	0.0	1.8	2.3	1/16/2018 14:23
82		0.7 Calibration								0.8	0.1	1.2	9.5	1/16/2018 14:24
83		1.6 Calibration								1.5	0.3	1.1	2.6	1/16/2018 14:24

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

Side A = Street side; Sides B, C, D follow clockwise

80 Lupes Drive  
Stratford, CT 06615



Tel: (203) 377-9984  
Fax: (203) 377-9952  
e-mail: cet1@cetlabs.com

Client: Mr. Erik Plimpton  
TRC Environmental Consultants  
21 Griffin Rd., North  
Windsor, CT 06095

# Analytical Report

## CET# 8010385



Report Date: January 22, 2018  
Project: Traffic Signs, Rt. 8, Bridgeport-Shelton  
Project Number: 222165.5696.0710

Connecticut Laboratory Certificate: PH 0116  
Massachusetts laboratory Certificate: M-CT903



New York NELAP Accreditation: 11982  
Rhode Island Certification: 199



CET # : 8010385

Project: Traffic Signs, Rt. 8, Bridgeport-Shelton

Project Number: 222165.5696.0710

**SAMPLE SUMMARY**

The sample(s) were received at 24.9°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
01	8010385-01	Paint Chip	1/15/2018 10:30	01/17/2018
02	8010385-02	Paint Chip	1/15/2018 11:10	01/17/2018
03	8010385-03	Paint Chip	1/15/2018 11:40	01/17/2018
04	8010385-04	Paint Chip	1/15/2018 11:00	01/17/2018

**Analyte: TCLP Lead [EPA 6020A]**

**Analyst: CED**

**Prep: EPA 3005A-1311**

**Matrix: Extract**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
8010385-01	01	0.33	0.013	mg/L	1	B8A1825	01/18/2018	01/19/2018 15:15	
8010385-02	02	0.089	0.013	mg/L	1	B8A1825	01/18/2018	01/19/2018 15:20	
8010385-03	03	0.14	0.013	mg/L	1	B8A1825	01/18/2018	01/19/2018 15:25	
8010385-04	04	150	0.013	mg/L	1	B8A1825	01/18/2018	01/19/2018 15:44	

CET # : 8010385

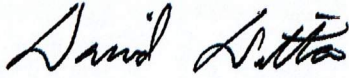
Project: Traffic Signs, Rt. 8, Bridgeport-Shelton

Project Number: 222165.5696.0710

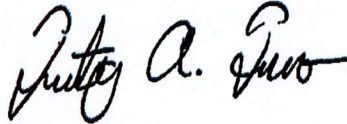
All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

This technical report was reviewed by Timothy Fusco



David Ditta  
Laboratory Director



Project Manager

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- \*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- \*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- \*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- \*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- I- The Analyte exceeds %RSD limits for the Initial Calibration. This is a non-directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

RL is the Reporting Limit.

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.



CET # : 8010385

Project: Traffic Signs, Rt. 8, Bridgeport-Shelton

Project Number: 222165.5696.0710

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<i>EPA 6020A in Water</i>	
Lead	NY,CT

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2018
NY	New York Certification (NELAC)	11982	04/01/2018



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

8010385

**TCLP CHAIN OF CUSTODY**

Edition: November 2013  
 Supersede Previous Edition

Page 5 of 5

FIELD SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	PARAMETERS				TURNAROUND TIME				MATERIAL					
					RCRA Pb	RCRA Pb, AS, CR, CD	8 RCRA Metals	TCLP Pb	SPLP Pb	24hr	48hr	3day		5day				
01	1/15/18	1030	X	All Overhead Round Signs				X				X	48hr					
02	1/15/18	1110	X	All Overhead Square Signs				X				X	48hr					
03	1/15/18	1140	X	All Cantilever Round Signs				X				X	48hr					
04	1/16/18	1120	X	Bridge Mount Sign 201008				X				X	48hr					

PROJECT NAME  
 53 Traffic Signs Rt. 8  
 Bridgeport - Shelton

INSPECTOR: (SIGNATURE)

INSPECTOR: (PRINTED)  
 J. Gentile

PROJECT NUMBER  
 222105.5696.0710

LAB ID #

Relinquished by: (Signature) 	Date: 1/16/18	Received by: (Signature) 	Date: 1/17/18	Relinquished by: (Signature) 	Date: 1/17/18	Received by: (Signature) 
(Printed) J. Gentile	Time:	(Printed) Robert Perazzo	Time: 11:17 AM	(Printed) Robert Perazzo	Time: 11:17 AM	(Printed) J. Gentile
Send results to EPlampton@TRCSolutions.com			JEMP N 24-9			Page 1 of 1



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

## ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

Edition: October 2009  
 Supersedes Previous Edition

LAB ID #. 51827

PROJECT NUMBER 222165.5696.0710		PROJECT NAME CT DOT Rt Sign Poles Shelton-Bridgeport		INSPECTOR J. Gentile/Z. Smith		PARAMETERS					TURNAROUND TIME						
						PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	PLM:	8hr	24hr	48hr	3day	TEM:	24hr
FIELD SAMPLE NUMBER	DATE	TIME	TYPE	GRAB	SAMPLE LOCATION	MATERIAL											
							COMP										
01	1/15/18	1043	X	X	Sign 20525 (Type OH Rd Pole)	Lt Grey Brittle Sign Pole Base Caulk (C1)	X										
02	1/16/18	1100	X	X	Sign 20613 (Type OH Rd Pole)	Lt Grey Brittle Sign Pole Base Caulk (C1)	X										
03	1/16/18	1110	X	X	Sign 20606 (Type OH Rd Pole)	Lt Grey Brittle Sign Pole Base Caulk (C1)	X										
04	1/16/18	1125	X	X	Sign 20515 (Type OH Rd Pole)	Lt Grey Brittle Sign Pole Base Caulk (C1)	X										
05	1/16/18	1050	X	X	Sign 20603 (Type OH Rd Pole)	Tan/Grey Brittle Sign Pole Base Caulk (C2)	X										
06	1/16/18	1109	X	X	Sign 20614 (Type OH Rd Pole)	Tan/Grey Brittle Sign Pole Base Caulk (C2)	X										
07	1/16/18	1140	X	X	Sign 20517 (Type OH Rd Pole)	Tan/Grey Brittle Sign Pole Base Caulk (C2)	X										
08	1/16/18	1134	X	X	Sign 20516 (Type OH Rd Pole)	Dk Grey Rubbery Sign Pole Base Caulk (C3)	X										
09	1/16/18	1135	X	X	Sign 20516 (Type OH Rd Pole)	Dk Grey Rubbery Sign Pole Base Caulk (C3)	X										
10	1/15/18	1120	X	X	Sign 20528 (Type Cant Rd Pole)	Lt Grey Brittle Sign Pole Base Caulk (C4)	X										
11	1/16/18	0949	X	X	Sign 20591 (Type Cant Rd Pole)	Lt Grey Brittle Sign Pole Base Caulk (C4)	X										

Relinquished by: (Signature) 	Date: 1/16/18	Received by: (Signature) 	Date: 1/16/18
(Printed) Jonathan Gentile	Time: 1030	(Printed) Z. Smith	Time: 1030
Remarks:	Condition of Samples: Acceptable: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		





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

## ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

Edition: October 2009  
 Supersedes Previous Edition

LAB ID #. 51827

PROJECT NUMBER 222165.5696.0710		PROJECT NAME CT DOT Rt Sign Poles Shelton-Bridgeport		PARAMETERS				TURNAROUND TIME	
				PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	PLM: 8hr
SIGNATURE 		INSPECTOR J. Gentile/Z. Smith		MATERIAL					
				FIELD SAMPLE NUMBER 12	DATE 1/16/18	TIME 1032	TYPE GRAB	SAMPLE LOCATION Sign 20598 (Type Cant Rd Pole)	PLM EPA 600/R93/116 (POSITIVE STOP)

Relinquished by: (Signature) 	Date: 1/16/18	Received by: (Signature) 	Date: 1/16/18
(Printed) Jonathan Gentile	Time: 1630	(Printed) 	Time: 
Remarks:		Condition of Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Comments:	

**BULK ASBESTOS ANALYSIS REPORT**

CLIENT: CT Department of Transportation

Lab Log #: 0051827  
 Project #: 222165.5696.0710  
 Date Received: 01/16/2018  
 Date Analyzed: 01/19/2018

Site: Rt Sign Poles, Shelton- Bridgeport, CT

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

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
01	Light Grey (caulk)	Yes	No	--	---	3%	Chrysotile
02	--	--	--	--	--	NA/PS	--
03	--	--	--	--	--	NA/PS	--
04	--	--	--	--	--	NA/PS	--
05	Tan/Grey (caulk)	Yes	No	--	---	3%	Chrysotile
06	--	--	--	--	--	NA/PS	--
07	--	--	--	--	--	NA/PS	--
08	Dark Grey/Orange (caulk)	Yes	No	--	---	ND	None
09	Dark Grey/Orange (caulk)	Yes	No	--	---	ND	None
10	Light Grey (caulk)	Yes	No	--	---	3%	Chrysotile
11	--	--	--	--	--	NA/PS	--
12	--	--	--	--	--	NA/PS	--

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

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

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

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

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

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

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation 1982 (EPA 600/M4-82-020) Bulk Analysis Code 18/A01 and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials July 1993, R.L. Perkins and B.W. Harvey, (EPA/600/R-93/116) Bulk Analysis Code 18/A03, which utilize polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2018. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2018. 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: 01/19/2018  
 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 #L-09-004 NJ #CT004 CA #2907  
 CO# AL-15020 PHIL# 461 PA#68-03387



# Proscience Analytical Services, Inc.

22 Cummings Park, Woburn, MA 01801 Ph. 781-935-3212 Fax 781-932-4857  
 TEM Bulk Chain of Custody Record

NTM111

Date: 03/16/18

PO#: C222165

Client: TRC

Client Job#: 222165.5696.0710

Client Job Ref./Loc.: CT DOT- Sign Poles- Shelton-Bridgeport

Relinquished by: K. Williamson- KWilliamson@trcsolutions.com

Received by: *[Signature]* 3/19/18 9:00am

Report to: E. Plimpton- EPlimpton@trcsolutions.com & SArienti@trcsolutions.com

Samplers Name: J. Gentile

Analysis Type: Chatfield EPA N.O.B Qualitative

Turnaround Time: <12 Hour <24 Hour <48 Hour <3 Day 5 Day Other:

Client ID #	Lab ID#	Description	Location	For Lab Use Only			
				Acceptable on Receipt	Comments		
09	51827	Caulk	See COC				
For Lab Use Only		# Spies	Total	Client #	Batch #	Results Reported	Comments

# 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 #: 222165.5696.0710  
 Client Reference: CT DOT - Sign Poles - Shelton-Bridgeport  
 PO #: C222165  
 Client #: 297  
 Client Name: TRC Environmental Corp. (CT)

Batch: NT 17111  
 Method: NOB  
 Date Received: 3/19/2018  
 Date Analyzed: 3/20/2018  
 Date of Report: 3/20/2018

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						
NT128990	109	Dk Grey Rubbery Sign Pole Base Caulk		.4925	.00	.00	.00	.00	.00	.00	31.05	59.63	9.32	ND	Yes	No

**Comments:**

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

  
 Mark Derosier, Analyst

**PROJECT 173-441**  
**ROUTE 8 HIGHWAY RESIGNING AND EXIT RENUMBERING**

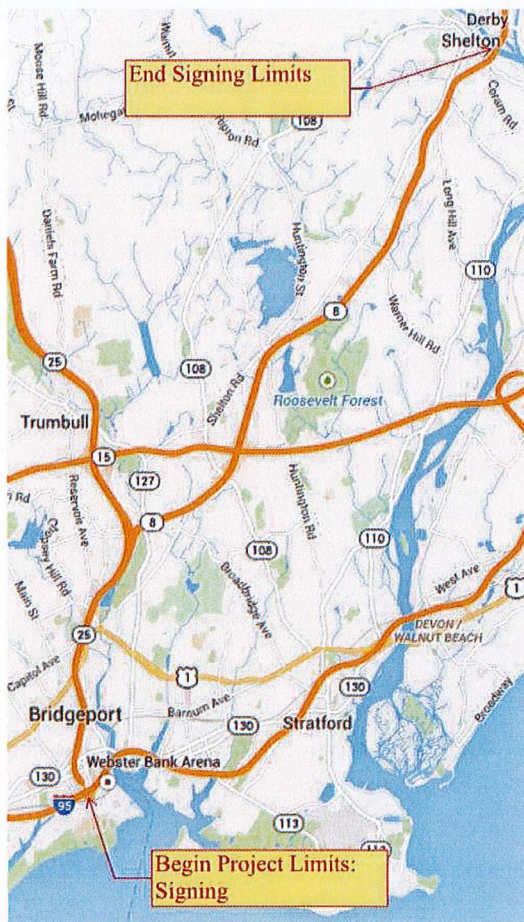
**PROJECT DESCRIPTION**

The beginning section of Project No. 173-441 (Project) involves resigning CT Route 8 Northbound, including entrance and exit ramps, from the I-95 interchange in Bridgeport (Mile Point 0.00) to the Shelton/Derby town line (Mile Point 12.50 – Commodore Hull Bridge). The resigning includes replacing, relocating, and removing existing overhead and side mounted signs, installing additional signs if needed, and replacing deficient overhead sign supports. The following municipalities will be affected by this section of the Project (in order from South to North):

- City of Bridgeport
- Town of Trumbull
- Town of Shelton

**PROJECT LOCATION**

Project location aerial showing the project limits are provided below (not to scale).



www.google.com/ma



PROJECT 173-441 LIST OF OVERHEAD SIGN SUPPORT REMOVAL SITES

Number	Route	Direction	Mileage	Type	Paint
✓ 20617	8	SB	0.23	OVH Rd	Yes
✓ 20616	8	SB	0.39	OVH	<del>Yes</del> Not Painted
✓ 20509	8	NB	0.46	CANTI	No
✓ 20510	8	NB	0.59	CANTI	No
✓ <del>20511</del> 20813	8	NB	0.75	OVH	<del>Yes</del> No No Paint
✓ 20512	8	NB	0.92	BM	No
✓ 20615A	8	SB	0.92	BM	No
✓ 20615B	8	SB	0.92	BM	No
✓ 20614	8	SB	1.17	OVH Rd	Yes
✓ 20613	8	SB	1.25	OVH Rd	Yes
✓ <del>20513</del> 22003	8	NB	1.47	OVH CANTI	Yes no no paint
✓ 20611	8	SB	1.60	OVH Rd	Yes
✓ No number 20612	8	SB	1.69	OVH	Yes no paint
✓ 20514	8	NB	1.74	OVH Rd	Yes
✓ 20515	8	NB	1.90	OVH Rd	Yes
✓ 20610	8	SB	2.01	CANTI	No New electronic traffic sign

- 20613 = C1 type caulk → 4 @ 4LF ea ~ 16LF total
- 20614 = C2 type caulk → 4 @ 4LF ea ~ 16LF Total
- 20617 = C1 type caulk → 4 @ 4LF ea ~ 16LF total
- 20515 = C1 type caulk → 4 @ 4LF ea ~ 16LF Total

PROJECT 173-441 LIST OF OVERHEAD SIGN SUPPORT REMOVAL SITES

Number	Route	Direction	Mileage	Type	Paint
✓ 20609	8	SB	2.19	OVH Rd	Yes
✓ 20516	8	NB	2.38	OVH Rd	Yes
• ✓ 20517	8	NB	2.70	OVH Rd	Yes
• ✓ 20608	8	SB	2.78	BM	Yes
• ✓ 20607	8	SB	3.30	CANTI	No
✓ 20518	8	NB	3.22	OVH Rd	Yes
• ✓ 20606	8	SB	3.26	OVH Rd	Yes
• ✓ 20519	8	NB	5.95 <sup>3.5</sup>	OVH Rd	Yes
• ✓ 20520	8	NB	4.13	OVH Rd	Yes
• ✓ 20521	8	NB	4.93	OVH Sq	Yes
• ✓ 20522	8	NB	5.44	BM	Yes
• ✓ 20523	8	NB	5.83	BM	No
• ✓ 20604	8	SB	6.12	CANTI	<del>Yes</del>
• ✓ 20603	8	SB	6.22	OVH Rd	Yes
• ✓ 20524	8	NB	6.49	CANTI	Yes
• ✓ 20602	8	SB	6.76	OVH Sq	Yes

No access  
Narrow shoulder  
+ on bridge

+ PD  
no access to  
get chips  
(see pic)

Not Painted

- 20603 = C<sub>1</sub> type caulk → 4 @ 4 LF ea ~ 16 LF total
- 20606 = C<sub>1</sub> type caulk → 4 @ 4 LF ea ~ 16 LF Total
- 20516 = C<sub>3</sub> = dk Gray Rubber base caulk 4 @ 4 LF ea ~ 16 LF Total
- 20517 = C<sub>1</sub> type caulk → 4 @ 4 LF ea ~ 16 LF total



**PROJECT 173-441 LIST OF OVERHEAD SIGN SUPPORT REMOVAL SITES**

	Number	Route	Direction	Mileage	Type	Paint
• ✓	20525	8	NB	6.82	OVH <small>Rd.</small>	Yes
• ✓	20601	8	SB	7.10	CANTI	No
✓	20600	8	SB	7.32	CANTI	No
• ✓	20599	8	SB	7.52	CANTI	No
• ✓	20598	8	SB	7.83	CANTI	Yes
• ✓	20526	8	NB	8.08	CANTI	Yes
• ✓	20597	8	SB	8.17	CANTI	Yes
• ✓	20527	8	NB	8.57	CANTI	Yes
• ✓	20596	8	SB	8.69	CANTI	Yes
• ✓	20528	8	NB	8.88	CANTI	Yes
• ✓	20595	8	SB	9.30	CANTI	Yes
• ✓	20594	8	SB	9.61	CANTI	No
✓	20593	8	SB	10.12	CANTI	No
• ✓	20529	8	NB	10.38	CANTI	No
• ✓	20530	8	NB	10.84	CANTI	No
• ✓	20531	8	NB	11.17	CANTI	No

→ New electronic traffic sign  
 → very thin paint layer up to ~10' same as all others

- **20525** = <sup>(V)</sup>CL = grey brittle caulk @ base ~ 4 LF @ each pole base ~ 16 LF total
- **20528** = <sup>(W)</sup>CL grey brittle caulk @ base ~ 8 LF total
- **20598** = <sup>(W)</sup>CL type "caulk" → ~ 8 LF total



**PROJECT 173-441 LIST OF OVERHEAD SIGN SUPPORT REMOVAL SITES**

Number	Route	Direction	Mileage	Type	Paint	
• ✓ 20592 21945	8	SB	11.37	BM	Unknown	
✓	20533	8	NB & SB	11.76	OVH	No
• ✓	20534	8	NB	12.15	CANTI	Yes
• ✓	20591	8	SB	12.20	CANTI	Yes
• ✓	20535	8	NB & SB	12.46	OVH	No

*Not printed  
Different number*

• 20591 = C4 type caulk → (~ 8LF)