



January 15, 2019

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 – I-84 Safety & Capacity Improvements (Bridge Nos. 01743A, 01743B, 01744, 01745, 01746, 01747, 03486, 03489 & 03490 and Sign Support Nos. 21579, 21580, 21581, 21682, 21683, 21684 & 21685) West Hartford, CT
ConnDOT Assignment No. 514-5716
ConnDOT Project No. 155-171
TRC Project No. 222165.5716.0710

Dear Mr. Fox:

TRC performed a limited survey for hazardous building materials associated with the I-84 Safety & Capacity Improvements in West Hartford, Connecticut which included Bridge Nos. 01743A, 01743B, 01744, 01745, 01746, 01747, 03486, 03489 & 03490 and Sign Support Nos. 21579, 21580, 21581, 21682, 21683, 21684 & 21685.

Results of the survey identified lead paint to be present or presumed on the structural steel/metal bridge/railing components of Bridge Nos. 01743A, 01743B, 01744, 01745, 01747, 03486, 03489 & 03490. No lead painted bridge components are projected to be impacted at Bridge Nos. 01743A, 01747, 03486, 03489 & 03490. Bridge No. 01746 was constructed entirely of unpainted concrete, therefore no lead paint was identified.

Detectable amounts of lead in paint were identified on the supports of Sign Nos. 21579, 21580 & 21581. No lead paint was detected on the supports of Sign No. 21682, 21683 & 21685. Sign Nos. 21684 was galvanized (unpainted), therefore no lead paint was identified.

Results obtained from TCLP waste stream sampling and analysis for leachable lead from the paint on the structural steel/metal bridge components including the railing systems at Bridge Nos. 01743B, 01744 & 01745 characterized the paint waste streams as CTDEEP/RCRA hazardous waste. No projected lead paint waste is expected to be generated at Bridge Nos. 01743A, 01747, 03486, 03489 & 03490. Results obtained from TCLP waste stream sampling and analysis for leachable lead from Sign Nos. Sign Nos. 21579, 21580 & 21581 characterized those paint waste streams as non-hazardous, non-RCRA waste.

Light grey brittle caulking around the base supports of the metal railing systems at Bridge Nos. 01743B, 01744 & 01745 and off-white brittle caulking at the base of Sign Support Nos. 21682, 21683 & 21685 were sampled and found to contain asbestos. Also, light grey brittle caulking around the base supports of the metal railing systems at Bridge Nos. 01743A, eight (8) asbestos cement pipes (transite) under Bridge No. 01747 and tar-like pipe penetrations at Bridge No. 01746 (box culvert) were identified and/or presumed to be ACM, however they are not projected to be impacted by the project. Other various caulks and tars at the above mentioned sites were sampled and found to contain no detectable levels of asbestos.

No bird/pigeon guano accumulations were observed in accessible areas of Bridge Nos. Bridge Nos. 01743A, 01743B, 01744, 01745, 01746, 01747, 03486, 03489 & 03490.

Universal Waste/Connecticut Regulated Waste in the forms of fluorescent/mercury vapor/halogen bulbs with

ballasts were observed at 01743A, 01743B, 01744 & 01745, however the bulbs/ballast are not projected to be impacted at Bridge No. 01743A.

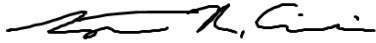
Associated laboratory data, inspector notes, TRC Mobile Data Solutions report, project descriptions and site maps are attached.

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

Very Truly Yours,

TRC

Reviewed by:



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 - I-84, Safety & Operational Improvements, West Hartford, CT
Project # : 222165.5716.0710
Date(s): 3/22/2018, 3/23/2018
Inspectors: David Heelon (CT Lic # 002188)

Number	Interior/ Exterior	Location	Bridge/Sign Support No.	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm ²)	Precision (mg/cm ²)	Depth Index	Duration (sec)	Date/Time
1			Self-Calibration										86.3	3/22/2018 10:55
2			0.0 Calibration							0.0	0.0	1.3	3.1	3/22/2018 10:58
3			0.3 Calibration							0.3	0.1	1.1	3.9	3/22/2018 10:58
4			1.6 Calibration							1.6	0.3	1.2	3.4	3/22/2018 10:58
5	Exterior	West Hartford	Bridge 1743b		BEAM	HORIZONTAL	Steel	Grey	Intact	29.1	5.6	1.9	2.6	3/22/2018 11:02
6	Exterior	West Hartford	Bridge 1743b		BEAM	HORIZONTAL	Steel	Grey	Intact	22.9	4.9	10.0	2.6	3/22/2018 11:03
7	Exterior	West Hartford	Bridge 1743b		CROSS MEMBER	HORIZONTAL	Steel	Grey	Intact	27.7	5.4	10.0	2.6	3/22/2018 11:05
8	Exterior	West Hartford	Bridge 1743b		ROCKER SUPPORT	HORIZONTAL	Steel	Grey	Defective	2.1	0.9	2.0	5.2	3/22/2018 11:06
9	Exterior	West Hartford	Bridge 1743b		ROCKER SUPPORT	HORIZONTAL	Steel	Grey	Defective	0.7	0.9	9.1	1.6	3/22/2018 11:08
10	Exterior	West Hartford	Bridge 1743b		ROCKER SUPPORT	HORIZONTAL	Steel	Grey	Defective	3.1	1.1	9.4	5.2	3/22/2018 11:08
11	Exterior	West Hartford	Bridge 1743b		ROCKER SUPPORT	HORIZONTAL	Steel	Grey	Defective	16.5	4.0	6.9	2.9	3/22/2018 11:10
12	Exterior	West Hartford	Bridge 1743b		BEAM	HORIZONTAL	Steel	Grey	Defective	22.5	5.2	8.0	2.4	3/22/2018 11:11
13	Exterior	West Hartford	Bridge 1743b		BEAM	HORIZONTAL	Steel	Grey	Defective	28.1	5.4	2.1	2.6	3/22/2018 11:11
14	Exterior	West Hartford	Bridge 1743b		CROSS MEMBER	HORIZONTAL	Steel	Grey	Defective	33.0	5.8	10.0	2.6	3/22/2018 11:14
15	Exterior	West Hartford	Bridge 1743b		RAILING	HORIZONTAL	Metal	Grey	Defective	3.9	0.7	1.5	2.6	3/22/2018 11:18
16	Exterior	West Hartford	Bridge 1743b		RAILING	HORIZONTAL	Metal	Grey	Defective	6.5	3.1	1.4	2.4	3/22/2018 11:18
17	Exterior	West Hartford	Bridge 1743b		RAILING	SUPPORT	Metal	Grey	Defective	0.5	0.1	2.1	6.5	3/22/2018 11:20
18	Exterior	West Hartford	Bridge 1743b		RAILING	SUPPORT	Metal	Grey	Defective	0.2	0.2	2.3	4.4	3/22/2018 11:20
19	Exterior	West Hartford	Bridge 1743b		RAILING	SUPPORT	Metal	Grey	Defective	1.5	0.3	1.6	3.7	3/22/2018 11:21
20	Exterior	West Hartford	Bridge 1743b		RAILING	SUPPORT	Metal	Grey	Defective	1.7	0.4	1.7	3.9	3/22/2018 11:22
21	Exterior	West Hartford	Bridge 1744		BEAM	HORIZONTAL	Steel	Grey	Defective	21.1	4.7	2.2	2.6	3/22/2018 12:27
22	Exterior	West Hartford	Bridge 1744		BEAM	HORIZONTAL	Steel	Grey	Defective	22.8	4.9	8.3	2.6	3/22/2018 12:27
23	Exterior	West Hartford	Bridge 1744		CROSS MEMBER	HORIZONTAL	Steel	Grey	Defective	20.8	4.7	5.8	2.6	3/22/2018 12:29
24	Exterior	West Hartford	Bridge 1744		CROSS MEMBER	HORIZONTAL	Steel	Grey	Defective	16.2	2.0	9.4	4.4	3/22/2018 12:30
25	Exterior	West Hartford	Bridge 1744		ROCKER SUPPORT	HORIZONTAL	Steel	Grey	Defective	7.2	1.4	7.4	5.0	3/22/2018 12:30
26	Exterior	West Hartford	Bridge 1744		ROCKER SUPPORT	HORIZONTAL	Steel	Grey	Defective	9.6	2.0	10.0	3.1	3/22/2018 12:31
27	Exterior	West Hartford	Bridge 1744		ROCKER SUPPORT	HORIZONTAL	Steel	Grey	Defective	3.0	1.0	4.7	5.2	3/22/2018 12:33
28	Exterior	West Hartford	Bridge 1744		ROCKER SUPPORT	HORIZONTAL	Steel	Grey	Defective	7.2	1.7	6.8	3.1	3/22/2018 12:34
29	Exterior	West Hartford	Bridge 1744		BEAM	HORIZONTAL	Steel	Grey	Defective	17.6	4.2	10.0	2.6	3/22/2018 12:34
30	Exterior	West Hartford	Bridge 1744		BEAM	HORIZONTAL	Steel	Grey	Defective	26.2	5.3	1.7	2.6	3/22/2018 12:35
31	Exterior	West Hartford	Bridge 1744		CROSS MEMBER	HORIZONTAL	Steel	Grey	Defective	25.8	5.1	8.3	2.6	3/22/2018 12:35
32	Exterior	West Hartford	Bridge 1744		CROSS MEMBER	HORIZONTAL	Steel	Grey	Defective	18.5	4.4	4.1	2.6	3/22/2018 12:36
33	Exterior	West Hartford	Bridge 1744		RAILING	HORIZONTAL	Metal	Grey	Defective	0.3	0.1	1.5	3.4	3/22/2018 12:41
34	Exterior	West Hartford	Bridge 1744		RAILING	HORIZONTAL	Metal	Grey	Defective	1.6	0.4	1.6	3.7	3/22/2018 12:42
35	Exterior	West Hartford	Bridge 1744		RAILING	SUPPORT	Metal	Grey	Defective	0.4	0.2	3.4	4.5	3/22/2018 12:42
36	Exterior	West Hartford	Bridge 1744		RAILING	SUPPORT	Metal	Grey	Defective	2.2	0.5	1.7	2.6	3/22/2018 12:43
37	Exterior	West Hartford	Bridge 1745		BEAM	HORIZONTAL	Steel	Grey	Defective	25.6	5.2	10.0	2.6	3/22/2018 12:55
38	Exterior	West Hartford	Bridge 1745		BEAM	HORIZONTAL	Steel	Grey	Defective	20.9	5.7	1.8	1.8	3/22/2018 12:56
39	Exterior	West Hartford	Bridge 1745		BEAM	HORIZONTAL	Steel	Grey	Defective	20.8	11.6	1.9	1.1	3/22/2018 12:56
40	Exterior	West Hartford	Bridge 1745		CROSS MEMBER	HORIZONTAL	Steel	Grey	Defective	27.4	2.6	10.0	4.5	3/22/2018 12:57

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: ConnDOT - I-84, Safety & Operational Improvements, West Hartford, CT
Project #: 222165.5716.0710
Date(s): 3/22/2018, 3/23/2018
Inspectors: David Heelon (CT Lic # 002188)

Number	Interior/ Exterior	Location	Bridge/Sign Support No.	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm ²)	Precision (mg/cm ²)	Depth Index	Duration (sec)	Date/Time
41	Exterior	West Hartford	Bridge 1745		CROSS MEMBER	HORIZONTAL	Steel	Grey	Defective	24.4	5.0	7.9	2.6	3/22/2018 12:57
42	Exterior	West Hartford	Bridge 1745		ROCKER SUPPORT	HORIZONTAL	Steel	Grey	Defective	1.9	0.7	1.9	4.7	3/22/2018 12:59
43	Exterior	West Hartford	Bridge 1745		ROCKER SUPPORT	HORIZONTAL	Steel	Grey	Defective	15.3	3.9	5.5	2.6	3/22/2018 12:59
44	Exterior	West Hartford	Bridge 3489		BEAM	HORIZONTAL	Steel	Grey	Intact	0.0	0.0	1.4	3.1	3/22/2018 13:28
45	Exterior	West Hartford	Bridge 3489		BEAM	HORIZONTAL	Steel	Grey	Intact	0.0	0.0	1.0	3.1	3/22/2018 13:29
46	Exterior	West Hartford	Bridge 3489		CROSS MEMBER	HORIZONTAL	Steel	Grey	Intact	0.0	0.0	1.0	3.1	3/22/2018 13:30
47	Exterior	West Hartford	Bridge 3489		CROSS MEMBER	HORIZONTAL	Steel	Grey	Intact	0.0	0.0	1.1	3.1	3/22/2018 13:31
48	Exterior	West Hartford	Bridge 3489		ROCKER SUPPORT	HORIZONTAL	Steel	Grey	Intact	0.0	0.0	1.0	3.1	3/22/2018 13:31
49	Exterior	West Hartford	Bridge 3489		ROCKER SUPPORT	HORIZONTAL	Steel	Grey	Intact	0.0	0.0	1.0	3.1	3/22/2018 13:32
50	Exterior	West Hartford	Bridge 3489		ROCKER SUPPORT	HORIZONTAL	Steel	Grey	Intact	0.0	0.0	1.0	3.1	3/22/2018 13:33
51	Exterior	West Hartford	Bridge 3489		ROCKER SUPPORT	HORIZONTAL	Steel	Grey	Intact	0.0	0.0	1.0	0.5	3/22/2018 13:33
52	Exterior	West Hartford	Bridge 3489		ROCKER SUPPORT	HORIZONTAL	Steel	Grey	Intact	0.0	0.1	3.6	1.8	3/22/2018 13:33
53	Exterior	West Hartford	Bridge 3489		BEAM	HORIZONTAL	Steel	Grey	Intact	0.0	0.0	1.1	3.2	3/22/2018 13:34
54	Exterior	West Hartford	Bridge 3489		BEAM	HORIZONTAL	Steel	Grey	Intact	0.0	0.0	1.0	3.1	3/22/2018 13:34
55	Exterior	West Hartford	Bridge 3489		CROSS MEMBER	HORIZONTAL	Steel	Grey	Intact	0.0	0.0	1.0	3.1	3/22/2018 13:35
56	Exterior	West Hartford	Bridge 3489		RAILING	HORIZONTAL	Metal	Grey	Intact	0.1	0.1	1.9	3.2	3/22/2018 13:37
57	Exterior	West Hartford	Bridge 3489		RAILING	HORIZONTAL	Metal	Grey	Intact	0.1	0.1	2.5	3.2	3/22/2018 13:38
58	Exterior	West Hartford	Bridge 3486		BEAM	HORIZONTAL	Steel	Grey	Intact	0.0	0.0	1.0	3.2	3/22/2018 13:49
59	Exterior	West Hartford	Bridge 3486		BEAM	HORIZONTAL	Steel	Grey	Intact	26.6	5.3	1.9	2.6	3/22/2018 13:50
60	Exterior	West Hartford	Bridge 3486		BEAM	HORIZONTAL	Steel	Grey	Intact	33.4	6.0	2.0	2.6	3/22/2018 13:50
61	Exterior	West Hartford	Bridge 3486		CROSSMEMBER	HORIZONTAL	Steel	Grey	Intact	0.0	0.0	1.9	16.2	3/22/2018 13:52
62	Exterior	West Hartford	Bridge 3486		CROSSMEMBER	HORIZONTAL	Steel	Grey	Intact	0.0	0.0	1.3	5.5	3/22/2018 13:53
63	Exterior	West Hartford	Bridge 3486		ROCKER SUPPORT	HORIZONTAL	Steel	Grey	Intact	0.0	0.0	1.1	4.7	3/22/2018 13:55
64	Exterior	West Hartford	Bridge 3486		ROCKER SUPPORT	HORIZONTAL	Steel	Grey	Intact	0.0	0.1	5.5	6.3	3/22/2018 13:56
65	Exterior	West Hartford	Bridge 3486		ROCKER SUPPORT	HORIZONTAL	Steel	Grey	Intact	0.6	0.4	2.7	16.7	3/22/2018 13:57
66	Exterior	West Hartford	Bridge 3486		ROCKER SUPPORT	HORIZONTAL	Steel	Grey	Intact	0.1	0.0	2.2	5.2	3/22/2018 13:58
67	Exterior	West Hartford	Bridge 3486		BEAM	HORIZONTAL	Steel	Grey	Intact	25.9	5.2	2.0	2.6	3/22/2018 13:59
68	Exterior	West Hartford	Bridge 3486		BEAM	HORIZONTAL	Steel	Grey	Intact	33.6	14.5	1.9	1.1	3/22/2018 13:59
69	Exterior	West Hartford	Bridge 3486		RAILING	HORIZONTAL	Metal	Grey	Defective	0.0	0.1	1.1	0.8	3/22/2018 14:06
70	Exterior	West Hartford	Bridge 3486		RAILING	HORIZONTAL	Metal	Grey	Defective	0.0	0.1	1.0	0.8	3/22/2018 14:06
71						VOID								
72	Exterior	West Hartford	Bridge 3490		BEAM	HORIZONTAL	Steel	Grey	Intact	0.0	0.0	1.2	3.2	3/22/2018 14:11
73	Exterior	West Hartford	Bridge 3490		BEAM	HORIZONTAL	Steel	Grey	Intact	0.0	0.0	1.0	3.1	3/22/2018 14:12
74	Exterior	West Hartford	Bridge 3490		CROSS MEMBER	HORIZONTAL	Steel	Grey	Intact	0.0	0.0	1.0	3.1	3/22/2018 14:13
75	Exterior	West Hartford	Bridge 3490		CROSS MEMBER	HORIZONTAL	Steel	Grey	Intact	0.0	0.0	1.8	3.4	3/22/2018 14:13
76	Exterior	West Hartford	Bridge 3490		ROCKER SUPPORT	HORIZONTAL	Steel	Grey	Intact	0.0	0.0	1.0	3.1	3/22/2018 14:14
77	Exterior	West Hartford	Bridge 3490		ROCKER SUPPORT	HORIZONTAL	Steel	Grey	Intact	0.0	0.1	3.5	3.1	3/22/2018 14:15
78	Exterior	West Hartford	Bridge 3490		ROCKER SUPPORT	HORIZONTAL	Steel	Grey	Intact	0.0	0.0	1.6	3.1	3/22/2018 14:15
79	Exterior	West Hartford	Bridge 3490		ROCKER SUPPORT	HORIZONTAL	Steel	Grey	Intact	0.0	0.0	2.1	3.7	3/22/2018 14:16
80	Exterior	West Hartford	Bridge 3490		BEAM	HORIZONTAL	Steel	Grey	Intact	0.0	0.0	1.0	3.1	3/22/2018 14:17

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: ConnDOT - I-84, Safety & Operational Improvements, West Hartford, CT
Project #: 222165.5716.0710
Date(s): 3/22/2018, 3/23/2018
Inspectors: David Heelon (CT Lic # 002188)

Number	Interior/ Exterior	Location	Bridge/Sign Support No.	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm ²)	Precision (mg/cm ²)	Depth Index	Duration (sec)	Date/Time
81	Exterior	West Hartford	Bridge 3490		BEAM	HORIZONTAL	Steel	Grey	Intact	0.0	0.0	1.0	3.2	3/22/2018 14:17
82	Exterior	West Hartford	Bridge 3490		RAILING	HORIZONTAL	Metal	Grey	Intact	0.2	0.2	2.4	3.1	3/22/2018 14:19
83	Exterior	West Hartford	Bridge 3490		RAILING	HORIZONTAL	Metal	Grey	Intact	0.2	0.2	2.5	3.2	3/22/2018 14:19
84	Exterior	West Hartford	Bridge 3490		RAILING	SUPPORT	Metal	Grey	Intact	0.2	0.2	3.2	3.4	3/22/2018 14:20
85	Exterior	West Hartford	Bridge 3490		RAILING	SUPPORT	Metal	Grey	Intact	0.3	0.3	4.0	3.1	3/22/2018 14:21
86			0.0 Calibration							0.0	0.0	1.0	3.1	3/22/2018 14:33
87			0.3 Calibration							0.3	0.1	1.0	3.1	3/22/2018 14:33
88			0.7 Calibration							0.8	0.1	1.2	6.0	3/22/2018 14:34
89			Self-Calibration										86.3	3/23/2018 10:36
90			0.0 Calibration							0.0	0.0	1.0	2.9	3/23/2018 10:37
91			0.3 Calibration							0.4	0.1	1.2	4.2	3/23/2018 10:38
92			1.6 Calibration							1.6	0.1	1.2	7.0	3/23/2018 10:38
93	Exterior	West Hartford	support 21682		sign support		Metal	Grey	Intact	0.0	0.1	5.5	3.9	3/23/2018 10:42
94						VOID								
95	Exterior	West Hartford	support 21682		sign support		Metal	Grey	Intact	0.0	0.0	1.0	2.9	3/23/2018 10:43
96	Exterior	West Hartford	support 21579		sign support		Metal	Grey	Intact	0.0	0.0	1.4	5.0	3/23/2018 11:12
97	Exterior	West Hartford	support 21579		sign support		Metal	Grey	Intact	0.5	0.3	10.0	30.0	3/23/2018 11:13
98	Exterior	West Hartford	support 21579		sign support	base plate	Metal	Grey	Intact	0.0	0.0	1.0	3.1	3/23/2018 11:14
99	Exterior	West Hartford	support 21581		sign support		Metal	Grey	Intact	0.0	0.0	2.4	4.7	3/23/2018 11:32
100	Exterior	West Hartford	support 21581		sign support		Metal	Grey	Intact	0.0	0.0	1.1	5.2	3/23/2018 11:32
101	Exterior	West Hartford	support 21581		sign support	cross support	Metal	Grey	Intact	0.0	0.0	3.3	5.8	3/23/2018 11:34
102	Exterior	West Hartford	support 21581		sign support	base plate	Metal	Grey	Intact	0.5	0.3	10.0	30.0	3/23/2018 11:36
103			0.0 Calibration							0.0	0.0	1.0	4.2	3/23/2018 12:15
104			0.7 Calibration							0.8	0.1	1.2	6.5	3/23/2018 12:16
105			1.6 Calibration							1.5	0.1	1.1	5.5	3/23/2018 12:16

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. Stephen Arienti
TRC Environmental Consultants
21 Griffin Rd., North
Windsor, CT 06095

Analytical Report

CET# 8030676



Report Date: March 29, 2018
Project: CTDOT, Bridge
Project Number: I84 Bridges and Sign Poles, West Hartford
PO Number: 222165.5716.0710

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



New York NELAP Accreditation: 11982
Rhode Island Certification: 199

CET # : 8030676

Project: CTDOT, Bridge

Project Number: I84 Bridges and Sign Poles, West Hartford

SAMPLE SUMMARY

The sample(s) were received at 24.5°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
1 Bridge 01743B-Guardrails	8030676-01	Paint Chip	3/22/2018 11:40	03/26/2018
2 Bridge 01743B	8030676-02	Paint Chip	3/22/2018 11:10	03/26/2018
3 Bridge 01744	8030676-03	Paint Chip	3/22/2018 12:45	03/26/2018
4 Bridge 01745	8030676-04	Paint Chip	3/22/2018 12:58	03/26/2018
5 Bridge 03490	8030676-05	Paint Chip	3/22/2018 14:25	03/26/2018
7 Bridge 03486	8030676-06	Paint Chip	3/22/2018 13:57	03/26/2018
8 Bridge 03489	8030676-07	Paint Chip	3/22/2018 13:35	03/26/2018
10 Pole 21682	8030676-08	Paint Chip	3/23/2018 10:34	03/26/2018
12 Pole 21579	8030676-09	Paint Chip	3/23/2018 11:25	03/26/2018
13 Pole 21581	8030676-10	Paint Chip	3/23/2018 11:40	03/26/2018

CET # : 8030676

Project: CTDOT, Bridge

Project Number: I84 Bridges and Sign Poles, West Hartford

Analyte: Total Lead [EPA 6010C]

Analyst: SS

Prep: EPA 3051A

Matrix: Paint Chip

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
8030676-05	5 Bridge 03490	ND	0.10	%	1	B8C2818	03/28/2018	03/29/2018 13:33	
8030676-07	8 Bridge 03489	ND	0.10	%	1	B8C2818	03/28/2018	03/29/2018 13:37	
8030676-08	10 Pole 21682	ND	0.10	%	1	B8C2818	03/28/2018	03/29/2018 13:41	

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
8030676-01	1 Bridge 01743B-Guardrails	91	0.013	mg/L	1	B8C2814	03/28/2018	03/28/2018 18:08	
8030676-02	2 Bridge 01743B	480	0.013	mg/L	1	B8C2814	03/28/2018	03/28/2018 18:13	
8030676-03	3 Bridge 01744	540	0.013	mg/L	1	B8C2814	03/28/2018	03/28/2018 18:18	
8030676-04	4 Bridge 01745	470	0.013	mg/L	1	B8C2814	03/28/2018	03/28/2018 18:32	
8030676-06	7 Bridge 03486	470	0.013	mg/L	1	B8C2814	03/28/2018	03/28/2018 18:37	
8030676-09	12 Pole 21579	1.2	0.013	mg/L	1	B8C2814	03/28/2018	03/28/2018 18:42	
8030676-10	13 Pole 21581	1.4	0.013	mg/L	1	B8C2814	03/28/2018	03/28/2018 18:47	

CET # : 8030676

Project: CTDOT, Bridge

Project Number: I84 Bridges and Sign Poles, West Hartford

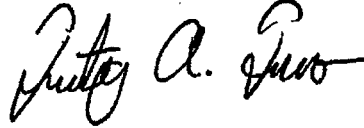
All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

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 # : 8030676

Project: CTDOT, Bridge

Project Number: I84 Bridges and Sign Poles, West Hartford

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 6010C in Solid</i>	
Lead	CT
<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



8030676

Edition: November 2013
Supersede Previous Edition

TCLP CHAIN OF CUSTODY

LAB ID #

TURNAROUND TIME

24hr	X	48hr		3day		5day
24hr		48hr		3day		5day

PROJECT NUMBER

222165.5716.0710

PROJECT NAME

CT DOT- 184 Bridges and Sign Poles West Hartford, CT

PARAMETERS

RCRA Pb
 RCRA Pb, AS, CR, CD
 8 RCRA Metals
 TCLP Pb
 SPLP Pb
 Total Pb

INSPECTOR: (SIGNATURE)

David Webster

(PRINTED)

D Webster, T Martin

MATERIAL

FIELD SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION	RCRA Pb	RCRA Pb, AS, CR, CD	8 RCRA Metals	TCLP Pb	SPLP Pb	Total Pb	MATERIAL
			COMP	GRAB								
1	3-22-18	1140	X		Bridge 01743B- Guardrails				X			Paint Chips
2	3-22-18	1110	X		Bridge 01734B- Girders, rocker pads, cross beams				X			Paint Chips
3	3-22-18	1245	X		Bridge 01744- Girders, rocker pads, cross beams				X			Paint Chips
4	3-22-18	1258	X		Bridge 01745- Girders, rocker pads, cross beams				X			Paint Chips
5	3-22-18	1425	X		Bridge 03490- Girders, rocker pads, cross beams				X			Paint Chips
6*	3-22-18	1425	X		Bridge 03490- Girders, rocker pads, cross beams				X			Paint Chips
7	3-22-18	1357	X		Bridge 03486- Girders, rocker pads, cross beams				X			Paint Chips
8	3-22-18	1335	X		Bridge 03489- Girders, rocker pads, cross beams					X		Paint Chips
9*	3-22-18	1335	X		Bridge 03489- Girders, rocker pads, cross beams				X			Paint Chips

Relinquished by: (Signature)

David Webster

Date:

3-23-18

Received by: (Signature)

Michael...

Relinquished by: (Signature)

Michael...

Date:

3-22-18

Received by: (Signature)

Michael...

(Printed)

David Webster

Time:

1355

(Printed)

Michael...

(Printed)

Michael...

Time:

1355

(Printed)

Michael...

*Only analyze TCLP sample if corresponding sample above if Total Pb analyses fails. (ex. Only analyze sample 6 if sample 5 fails)
**Send results to EPlimpton@TRCSolutions.com and SArteni@TRCSolutions.com

TBMF 24.50



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 #. 52037

PROJECT NUMBER	PROJECT NAME				PARAMETERS					TURNAROUND TIME				
	CTDOT - various overhead signs/bridge inspections West Hartford, CT				PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF > 1% & < 10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	PLM:	8hr	24hr	48hr	3day
	INSPECTOR													
222165-5716-0710	Tom Martin				MATERIAL									
FIELD SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	GRAB	COMP	TYPE	MATERIAL						
														TIME
1	3/22/18	1059		Bridge 01743B			X	C1 - grey, brittle electrical conduit caulk						
2	3/22/18	1100		Bridge 01743B			X	C1 - grey, brittle electrical conduit caulk						
3	3/22/18	1125		Bridge 01743B			X	C2 - light grey, brittle guardrail supports caulk						
4	3/22/18	1126		Bridge 01743B			X	C2 - light grey, brittle guardrail supports caulk						
5	3/22/18	1224		Bridge 01744			X	C3 - grey/white, flexible parapet caulk (8 - 6' locations)						
6	3/22/18	1225		Bridge 01744			X	C3 - grey/white, flexible parapet caulk (8 - 6' locations)						
7	3/22/18	1228		Bridge 01744			X	C4 - light grey, brittle guardrail supports caulk						
8	3/22/18	1229		Bridge 01744			X	C4 - light grey, brittle guardrail supports caulk						
9	3/22/18	1322		Bridge 03490			X	C5 - grey/white, flexible parapet caulk (8 - 6' locations)						

Relinquished by: (Signature) <i>Tom Martin</i>	Date: 3/23/18	Received by: (Signature) <i>3/23/18</i>	Date:	Relinquished by: (Signature)	Date:	Received by: (Signature)
(Printed) Tom Martin	Time: 1410	(Printed) 1500	Time:	(Printed)	Time:	(Printed)
Remarks:	Condition of Samples: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Page 1 of 3			



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 #. 52037

PROJECT NUMBER		PROJECT NAME		PARAMETERS				TURNAROUND TIME					
								PLM:	8hr	24hr	48hr	3day	
222165-5716-0710		CTDOT - various overhead signs/bridge inspections West Hartford, CT		PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	TEM:	24hr	48hr	3day	5day
SIGNATURE		INSPECTOR		MATERIAL									
<i>Tom Martin</i>		Tom Martin											
FIELD SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION									
				COMP	GRAB								
10	3/22/18	1323		Bridge 03490		X			X				
11	3/22/18	1335		Bridge 03486		X							
12	3/22/18	1336		Bridge 03486		X			X				
13	3/22/18	1340		Bridge 03489		X							
14	3/22/18	1341		Bridge 03489		X			X				
15	3/23/18	1031		Sign Support 21682		X							
16	3/23/18	1032		Sign Support 21682		X			X				
17	3/22/18	1155		Sign Support 21684		X							
18	3/22/18	1156		Sign Support 21684		X			X				

Relinquished by: (Signature) <i>Tom Martin</i> (Printed)	Date: 3/23/18	Received by: (Signature) <i>Tom Martin</i> 3/23/18	Relinquished by: (Signature)	Date:	Received by: (Signature)
	Time: 1410	(Printed) 1500	(Printed)	Time:	(Printed)
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
Supersede Previous Edition

LAB ID #. 52037

PROJECT NUMBER	PROJECT NAME	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:	TEM:	8hr	24hr	48hr	3day						
222165-5716-0710	CTDOT - various overhead signs/bridge inspections West Hartford, CT	X	X							X	X							
INSPECTOR		MATERIAL																
Tom Martin																		
FIELD SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	GRAB	COMB	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)	TURNAROUND TIME						
												8hr	24hr	48hr	3day	5day		
19	3/23/18	1350		Bridge 03489			X											
20	3/23/18	1353		Bridge 03489			X			X								
21	3/23/18	0927		Bridge/Culvert 01746			X											
22	3/23/18	0928		Bridge/Culvert 01746			X			X								

Relinquished by: (Signature) <i>Tom Martin</i> (Printed)	Date: 3/23/18	Received by: (Signature) <i>Tom Martin</i> (Printed)	Date: 3/23/18	Relinquished by: (Signature)	Date:	Received by: (Signature)
	Time: 1410	Time: 1500	(Printed)	(Printed)	Time:	(Printed)
Remarks: Tom Martin	Condition of Samples: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Comments:			

BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #: 0052037
 Project #: 22165.5716.0710
 Date Received: 03/23/2018
 Date Analyzed: 03/26/2018

Site: Various Overhead Signs & Bridge Inspections, West Hartford, 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	Grey (caulk)	Yes	No	--	---	ND	None
3	Light Grey (caulk)	Yes	No	--	---	3%	Chrysotile
4	--	--	--	--	--	NA/PS	--
5	Grey/White (caulk)	Yes	No	--	---	ND	None
6	Grey/White (caulk)	Yes	No	--	---	ND	None
7	Grey (caulk)	Yes	No	--	---	Trace	Chrysotile
8	Grey (caulk)	Yes	No	--	---	Trace	Chrysotile
9	Grey/White (caulk)	Yes	No	--	---	ND	None
10	Grey/White (caulk)	Yes	No	--	---	ND	None
11	Light Grey (caulk)	Yes	No	--	---	ND	None
12	Light Grey (caulk)	Yes	No	--	---	ND	None
13	Grey (caulk)	Yes	No	--	---	ND	None
14	Grey (caulk)	Yes	No	--	---	ND	None
15	Off White (caulk)	Yes	No	--	---	Trace	Chrysotile
16	Off White (caulk)	Yes	No	--	---	Trace	Chrysotile
17	White (caulk)	Yes	No	--	---	ND	None

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0 AIHA-LAP, LLC #100122 CT #PHI-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
18	White (caulk)	Yes	No	--	---	ND	None
19	Black (tar)	Yes	No	--	---	ND	None
20	Black (tar)	Yes	No	--	---	ND	None
21	Black (tar)	Yes	No	--	---	ND	None
22	Black (tar)	Yes	No	--	---	ND	None

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: *Cathryn Lempre*
 Cathryn Lempre, Laboratory Analyst

Reviewed by: *K. Williamson*
 Kathleen Williamson, Laboratory Manager

Date Issued
 03/26/2018

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

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

Proscience Analytical Services, Inc.

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

NT1937

Date: 03/27/18

PO#: C222165

Client: TRC

Client Job#: 222165.5710.0710

Client Job Ref./Loc.: CT DOT- Various overhead signs/bridge intersections, West Hartford, CT

Relinquished by: C. Lemire- CLemire@trcsolutions.com

Received by: *Draugh Vermeese 3-28-18 9:35*

Report to:

E. Plimpton- EPlimpton@trcsolutions.com & SArienti@trcsolutions.com

Samplers Name: T. Martin

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	
2	52037	Caulk	See COC			
6	52037	Caulk				
8	52037	Caulk				
10	52037	Caulk				
12	52037	Caulk				
14	52037	Caulk				
16	52037	Caulk				
18	52037	Caulk				
20	52037	Tar				
22	52037	Tar				
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

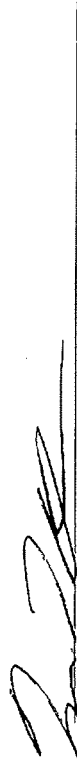
Client Project #: 222165.5710.0710
Client Reference: CT DOT - Various Overhead Sign/Bridge Intersections, West Hartford, CT
PO #: C222165
Client #: 297
Client Name: TRC Environmental Corp. (CT)

Batch: NT 17137
Method: NOB
Date Received: 3/28/2018
Date Analyzed: 4/3/2018
Date of Report: 4/3/2018

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types					% Other Non-asp.	% Organic Carb.	% Total % Asbestos	Analyzed / Charged	Preped / Charged		
					CHR	AMO	ACT	CRO	ANT						TRE	
NT129160	2	Grey, Brittle Electrical Conduit Caulk		.0483	.00	.00	.00	.00	.00	.00	4.15	91.30	4.55	ND	Yes	No
NT129161	6	Grey/ White, Flexible Parapet Caulk		.1088	.00	.00	.00	.00	.00	.00	46.96	31.07	21.97	ND	Yes	No
NT129162	8	Light Grey, Brittle Guardrail Supports		.2795	7.29	.00	.00	.00	.00	.00	21.87	12.88	57.96	7.29	Yes	No
NT129163	10	Grey/White, Flexible Parapet Caulk		.3211	.00	.00	.00	.00	.00	.00	32.55	32.45	35.00	ND	Yes	No
NT129164	12	Light Grey, Semi-flexible Parapet/Bituminous Surface Junction Caulk		.5931	.00	.00	.00	.00	.00	.00	20.60	39.10	40.30	ND	Yes	No
NT129165	14	Grey, Semi-flexible, Chalky Parapet Caulk		.2228	.00	.00	.00	.00	.00	.00	3.06	31.37	65.57	ND	Yes	No
NT129166	16	Off-White, Brittle Support Caulk		.2241	1.44	.00	.00	.00	.00	.00	5.74	12.72	80.10	1.44	Yes	No
NT129167	18	White, Stretchy, Rubbery Caulk		.2044	.00	.00	.00	.00	.00	.00	37.91	31.07	31.02	ND	Yes	No
NT129168	20	Tar		.1951	.00	.00	.00	.00	.00	.00	5.17	86.01	8.82	ND	Yes	No
NT129169	22	Tar Pipe Wall Penetrations		.0788	3.27	.00	.00	.00	.00	.00	9.80	84.52	2.41	3.27	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



SUBJECT DOT - Bridge inspections

w. H&D area

SHEET NO. 1 OF 2
PROJECT NO. 222165-5716-0710
DATE 3/22, 23/18
BY SM, Delt DH
CHK'D _____

Bridge 01743B

- ✓ C1 - grey, brittle elec conduit caulk (≈ 10 SF)
- ✓ C2 - lt grey, " guardrail supports " (≈ 90 each, ≈ 1 LF/each)
- * NO exp joint material present on both 01743 A & B concrete abutments *

Bridges 01745 & 01744

- ✓ C3 - grey/wh, flexible parapet caulk (8-6' locations)
- ✓ C4 - lt grey, brittle guardrail supports caulk (100 each; ≈ 1 LF/each)

* NO C1 on elec conduits *

Bridges 03489, 03486, 03490

03490 - ✓ C5 - grey/wh, flexible parapet caulk (8-6' locations)

03486 - ✓ C6 - lt grey, semi-flex parapet/road surface ^{junction} caulk
* C4 present; inaccessible *

03489 - ✓ C7 - grey, semi-flex, chalky parapet caulk (8-6' locations)

* C4 present, inaccessible *

✓ T1 - tar @ bottom of parapet wall (≈ 250 LF; ≈ 1 " bead)

Bridge 01746 - culvert under RT 84;

✓ T1 - tar pipe on west culvert wall (6 total)



SUBJECT DOT - Bridge insp's cont.

SHEET NO. 2 OF 2

PROJECT NO. 222/65-5716-0710

DATE 3/23/18

BY RM, DLW

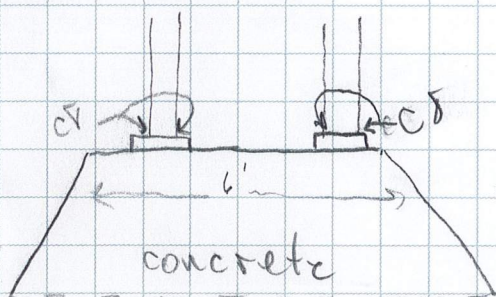
CHK'D

Bridge 01747

Going EB, there are 8 transite pipes running North/South between the 2nd + 3rd truss; no sample → inaccessible

Sign support 21682

✓✓ CT - off-wh, brittle support caulk (4 SF total)



* 2 conc supports, each side of Hwy. *

Sign support 21578

- NO SUSP ACM -

Sign support 21581

- NO SUSP ACM -

Sign support 21684

✓✓ VC9 - wh, stretchy rubbery caulk around bolts @ base

I 84 Bridges and Sign Poles West Hartford

Created	2018-03-22 14:47:59 UTC by Dave Webster
Updated	2018-03-23 18:17:24 UTC by Dave Webster
Location	41.7280349973978, -72.7578298934482
Status	■ Survey Complete

Job Information

Job Name	I 84 Bridges and Sign Poles West Hartford
Address	I-84 W West Hartford, CT 06110
TRC Job #	222165.5716.0710
Project Manager	Erik Plimpton
Inspector(s)	David Webster, David Heelon, Tom Martin
User	Dave Webster
Client	CT DOT
Date	2018-03-22
General Notes	Various bridges and sign poles

Overview Photo



01743B



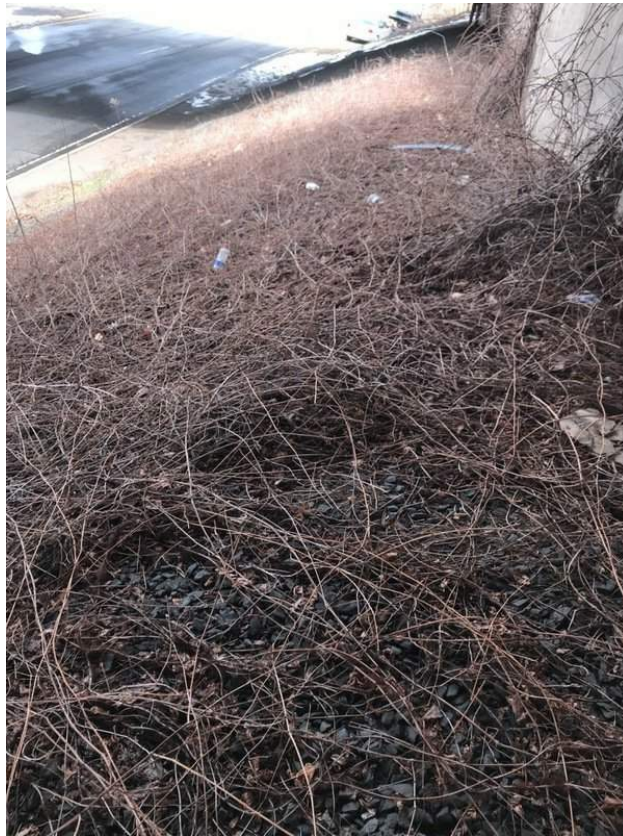
Topside 01743B



Bridges 01743 A and B



01743A



01743 a and b vines. Several poison ivy.



Topside Bridge 01743A



01743A side



Underside 01744



01744 topside



01744 side



01745 underside



01745 topside



01745 side



03490 side



Underside 03490



Underside 03486



03486 side



03486 topside



03489 topside



03489 side



03489 underside



Bridge 01746



01746 underside



Dry underside 01746



01746 east bound fence



01747 8 Transite pipes



01747 underside



01747 side



21682



21682 support



21683



21579 sign



21579 base



21580



21581 base



21581 signs



21684 base



21684 sign



21685 base

Surveys Performed

Asbestos, XRF, Hazardous Materials Inventory, Bridge/Signs/Light Pole/Traffic Signal Items, TCLP Sampling

Asbestos Section

(2), C1- Grey brittle caulk

Sample Location	Pipe on 01743B
Grab or Composite	Grab
Date	2018-03-22
Time	11:00

Sample Location	Pipe on 01743B
Grab or Composite	Grab
Date	2018-03-22
Time	11:00

Material Information

Accessible Material	Accessible
Material Description	C1- Grey brittle caulk
Homogeneous Area	Pipe along side 01743B
Total Count	(2)

(2), C2- Lt Grey brittle

Sample Location	01743B guardrail pedestals
Grab or Composite	Grab
Date	2018-03-22
Time	11:46

Sample Location	01743B guardrail pedestals
Grab or Composite	Grab
Date	2018-03-22
Time	11:46

Material Information

Accessible Material	Accessible
Material Description	C2- Lt Grey brittle
Homogeneous Area	Guardrail support pedestal
Total Approximate Quantity	100 total by 1 lf
Total Count	(2)

(2), C3- Lt Grey flexible caulk

Sample Location	01744- parapet wall
Grab or Composite	Grab
Date	2018-03-22
Time	12:31

Sample Location	01744 parapet wall
Grab or Composite	Grab
Date	2018-03-22
Time	12:32

Material Information

Accessible Material	Accessible
Material Description	C3- lt Grey flexible caulk
Homogeneous Area	01744 and 01745 Parapet wall joint
Total Approximate Quantity	8 6 lf joints
Total Count	(2)

(2), C4- lt Grey brittle caulk

Sample Location	01744 guardrail pedestal
Grab or Composite	Grab
Date	2018-03-22
Time	12:33

Sample Location	01744 guardrail pedestal
Grab or Composite	Grab
Date	2018-03-22
Time	12:33

Material Information

Accessible Material	Accessible
Material Description	C4- lt Grey brittle caulk
Homogeneous Area	01744 and 01745 Guardrail pedestals
Total Count	(2)

(2), C5- lt Grey flexible caulk

Sample Location	03490 Parapet wall
Grab or Composite	Grab
Date	2018-03-22
Time	13:28

Sample Location	03490 Parapet wall
Grab or Composite	Grab
Date	2018-03-22
Time	13:28

Material Information

Accessible Material	Accessible
Material Description	C5- lt Grey flexible caulk
Homogeneous Area	03490 Parapet wall expansion joints
Total Approximate Quantity	8 total by 6 lf
Total Count	(2)

(2), C6- lt Grey semi flexible

Sample Location	03486- Parapet wall
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Grab or Composite	Grab
Date	2018-03-22
Time	13:43
Sample Location	03486 Parapet wall
Grab or Composite	Grab
Date	2018-03-22
Time	13:43

Material Information

Accessible Material	Accessible
Material Description	C6- lt Grey semi flexible
Homogeneous Area	03486- bottom of parapet wall
Total Approximate Quantity	250 lf
Total Count	(2)

(2), C7- Grey chalky flexible caulk

Sample Location	03489 Parapet wall joint
Grab or Composite	Grab
Date	2018-03-22
Time	13:56

Sample Location	03489 Parapet wall joint
Grab or Composite	Grab
Date	2018-03-22
Time	13:56

Material Information

Accessible Material	Accessible
Material Description	C7- Grey chalky flexible caulk
Homogeneous Area	03489 Parapet wall joints
Total Approximate Quantity	8 joints 6 lf
Total Count	(2)

(2), T1- black tar

Sample Location	03489 Parapet wall
Grab or Composite	Grab
Date	2018-03-22
Time	13:58

Sample Location	03489 Parapet wall
Grab or Composite	Grab
Date	2018-03-22
Time	13:58

Material Information

Accessible Material	Accessible
Material Description	T1- black tar
Homogeneous Area	03489 bottom of Parapet wall
Total Approximate Quantity	250 lf
Total Count	(2)

(2), TP1- black drain pipe tar

Sample Location	01746 drain pipes
Grab or Composite	Grab
Date	2018-03-23
Time	09:29

Sample Location	01746 drain pipes
Grab or Composite	Grab
Date	2018-03-23
Time	09:29

Material Information

Accessible Material	Accessible
Material Description	TP1- black drain pipe tar
Homogeneous Area	Drain pipes 01746
Total Approximate Quantity	28 pipes
Total Count	(2)

Transite

Material Information

Accessible Material	Inaccessible
Material Description	Transite
Homogeneous Area	01747
Total Approximate Quantity	8 pipes run length of bridge.

(2), C8- white brittle caulk

Sample Location	21682 pole base
Grab or Composite	Grab
Date	2018-03-23
Time	10:27

Sample Location	21682 pole base
Grab or Composite	Grab
Date	2018-03-23
Time	10:27

Material Information

Accessible Material	Accessible
Material Description	C8- white brittle caulk

Homogeneous Area	21682 Pole bases
Total Approximate Quantity	16 lf total
Total Count	(2)

Caulk same as 21682 (C8)

Material Information

Accessible Material	Inaccessible
Material Description	Caulk same as 21682 (C8)
Homogeneous Area	21683, 21685
Total Approximate Quantity	16 lf around base of poles
Notes	Inaccessible due to shoulder width. Same as 21682

(2), C9- white stretchy rubbery caulk

Sample Location	Base of 21684
Grab or Composite	Grab
Date	2018-03-23
Time	11:58

Sample Location	Base of 21684
Grab or Composite	Grab
Date	2018-03-23
Time	11:58

Material Information

Accessible Material	Accessible
Material Description	C9- white stretchy rubbery caulk
Homogeneous Area	Around bolts at base of 21684
Total Count	(2)

XRF Section

Niton XRF Model No.	24792
XRF Survey Completed	Yes
XRF Data Downloaded	Yes
XRF Shots >1.0 on non-metallic building materials	Yes
Date Data Downloaded	2018-03-23

HAZMAT Inventory Section

Bridge 01743B

Inventory Area Description	Bridge 01743B
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Universal Waste (UW), Emergency Lighting (Batteries/Hg Lamps)

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

Bridge 01743A

Inventory Area Description	Bridge 01743A
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Universal Waste (UW), Emergency Lighting (Batteries/Hg Lamps)

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

Bridge 01744

Inventory Area Description	Bridge 01744
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Universal Waste (UW), Emergency Lighting (Batteries/Hg Lamps)

HAZMAT Item Description	Universal Waste (UW), Emergency Lighting (Batteries/Hg Lamps)
HAZMAT Item Common Name	Hg lamp
HAZMAT Item Quantity	1

Bridge 01745

Inventory Area Description	Bridge 01745
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Universal Waste (UW), Emergency Lighting (Batteries/Hg Lamps)

HAZMAT Item Description	Universal Waste (UW), Emergency Lighting (Batteries/Hg Lamps)
HAZMAT Item Common Name	Hg lamp
HAZMAT Item Quantity	1

Bridge 03490

Inventory Area Description	Bridge 03490
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Universal Waste (UW), Emergency Lighting (Batteries/Hg Lamps)

HAZMAT Item Description	Universal Waste (UW), Emergency Lighting (Batteries/Hg Lamps)
HAZMAT Item Common Name	Hg lamp
HAZMAT Item Quantity	1

Bridge 03486

Inventory Area Description	Bridge 03486
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Universal Waste (UW), Emergency Lighting (Batteries/Hg Lamps)

HAZMAT Item Description	Universal Waste (UW), Emergency Lighting (Batteries/Hg Lamps)
HAZMAT Item Common Name	Hg lamp
HAZMAT Item Quantity	1

Bridge 03489

Inventory Area Description	Bridge 03489
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Universal Waste (UW), Emergency Lighting (Batteries/Hg Lamps)

HAZMAT Item Description	Universal Waste (UW), Emergency Lighting (Batteries/Hg Lamps)
HAZMAT Item Common Name	Hg lamp
HAZMAT Item Quantity	1

TCLP/SPLP/Total Lead Section

01743B- guardrails

TCLP/SPLP/Total Lead Sample Description	01743B- guardrails
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Paint Chips

Material	Paint Chips
Type of Analysis	TCLP Lead
Date	2018-03-22
Time	11:24
TCLP/SPLP/Total Lead Notes	+

01743B- Girders, rocker pads, cross beams

TCLP/SPLP/Total Lead Sample Description	01743B- Girders, rocker pads, cross beams
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Paint Chips

Material	Paint Chips
Type of Analysis	TCLP Lead
Grab or Composite	Composite
Date	2018-03-22
Time	11:02
TCLP/SPLP/Total Lead Notes	+

01744- girder, rocker pads, cross beams

TCLP/SPLP/Total Lead Sample Description	01744- girder, rocker pads, cross beams
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Paint Chips

Material	Paint Chips
Type of Analysis	TCLP Lead
Grab or Composite	Composite
Date	2018-03-22
Time	12:39
TCLP/SPLP/Total Lead Notes	+

01745- girders, cross beam, rocker pads

TCLP/SPLP/Total Lead Sample Description	01745- girders, cross beam, rocker pads
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Paint Chips

Material	Paint Chips
Type of Analysis	TCLP Lead
Grab or Composite	Composite
Date	2018-03-22
Time	12:54
TCLP/SPLP/Total Lead Notes	+

03490- girders, cross beams, rocker pads

TCLP/SPLP/Total Lead Sample Description	03490- girders, cross beams, rocker pads
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Paint Chips

Material	Paint Chips
Type of Analysis	Total Lead, TCLP Lead
Grab or Composite	Composite
Date	2018-03-22
Time	14:10
TCLP/SPLP/Total Lead Notes	-

03486- girders, rocker pads, cross beams

TCLP/SPLP/Total Lead Sample Description	03486- girders, rocker pads, cross beams
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Paint Chips

Material	Paint Chips
Type of Analysis	TCLP Lead
Grab or Composite	Composite
Date	2018-03-22
Time	14:03
TCLP/SPLP/Total Lead Notes	+

03489- girders, cross beams, rocker pads

TCLP/SPLP/Total Lead Sample Description	03489- girders, cross beams, rocker pads
Type of Analysis	TCLP Lead, Total Lead
Grab or Composite	Composite
Date	2018-03-22
Time	14:03
TCLP/SPLP/Total Lead Notes	-

Pole 21682

TCLP/SPLP/Total Lead Sample Description	Pole 21682
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Paint Chips

Material	Paint Chips
Type of Analysis	TCLP Lead, Total Lead
Grab or Composite	Composite
Date	2018-03-23
Time	10:28
TCLP/SPLP/Total Lead Notes	-

Pole 21579

TCLP/SPLP/Total Lead Sample Description	Pole 21579
Type of Analysis	TCLP Lead
Grab or Composite	Composite
Date	2018-03-23
Time	11:11
TCLP/SPLP/Total Lead Notes	+

Pole 21581

TCLP/SPLP/Total Lead Sample Description	Pole 21581
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Type of Analysis	TCLP Lead, Total Lead
Grab or Composite	Composite
Date	2018-03-23
Time	11:32
TCLP/SPLP/Total Lead Notes	-, base plate was +

Bridge/Signs/Light Pole/Traffic Signal Items

Bridge 01743B

Bridge/Signs/Light Pole/Traffic Signal No.	Bridge 01743B
Bridge/Signs/Light Pole/Traffic Signal General Notes	9 steel girders run length of bridge, 5 concrete pillars support middle divider, 36 rocker pads, 50 guardrail pedestals on both sides. Poison ivy present.
Guano Present?	No
Homeless Activity	No
Bloodborne Pathogen Concerns?	No
Mice/Mouse Nests/Droppings	No

Bridge 01743A

Bridge/Signs/Light Pole/Traffic Signal No.	Bridge 01743A
Bridge/Signs/Light Pole/Traffic Signal General Notes	9 steel girders run length of bridge, 36 rocker pads, 5 concrete pillar supports in middle of bridge, 50 guardrail pedestals total. Poison ivy present. Same paint on guardrail and girders and C2 under pedestals as bridge 01743B.
Guano Present?	No
Homeless Activity	No
Bloodborne Pathogen Concerns?	No
Mice/Mouse Nests/Droppings	No

Bridge 01744

Bridge/Signs/Light Pole/Traffic Signal No.	Bridge 01744
Bridge/Signs/Light Pole/Traffic Signal General Notes	9 steel girders run length of bridge, 12 concrete support pillars, 54 rocker pads, 46 pedestals total.
Guano Present?	No
Homeless Activity	No
Bloodborne Pathogen Concerns?	No
Mice/Mouse Nests/Droppings	No

Bridge 01745

Bridge/Signs/Light Pole/Traffic Signal No.	Bridge 01745
Bridge/Signs/Light Pole/Traffic Signal General Notes	8 girders run length of bridge, 48 rocker pads, 46 guardrail pedestals total, 10 support pillars total, same caulks on guardrail pedestals and parapet wall joints (C3 and C4) as 01744.
Guano Present?	No
Homeless Activity	No
Bloodborne Pathogen Concerns?	No
Mice/Mouse Nests/Droppings	No

Bridge 03490

Bridge/Signs/Light Pole/Traffic Signal No.	Bridge 03490
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Bridge/Signs/Light Pole/Traffic Signal General Notes	6 girders run length of the bridge (newer paint), 6 total concrete pillar supports, 36 rocker pad supports, 42 guardrail pedestals.
Guano Present?	No
Homeless Activity	No
Bloodborne Pathogen Concerns?	No
Mice/Mouse Nests/Droppings	No

Bridge 03486

Bridge/Signs/Light Pole/Traffic Signal No.	Bridge 03486
Bridge/Signs/Light Pole/Traffic Signal General Notes	8 girders run length of bridge, 8 total concrete support pillars, 48 rocker pads, 34 guardrail pedestals. Guardrail pedestals caulk present however inaccessible.
Guano Present?	No
Homeless Activity	No
Bloodborne Pathogen Concerns?	No
Mice/Mouse Nests/Droppings	No

Bridge 03489

Bridge/Signs/Light Pole/Traffic Signal No.	Bridge 03489
Bridge/Signs/Light Pole/Traffic Signal General Notes	8 steel girders run length of bridge (newer paint), 48 rocker pads, 8 concrete pillar supports, 42 guardrail pedestals.
Guano Present?	No
Homeless Activity	No
Bloodborne Pathogen Concerns?	No
Mice/Mouse Nests/Droppings	No

Bridge 01746

Bridge/Signs/Light Pole/Traffic Signal No.	Bridge 01746
Bridge/Signs/Light Pole/Traffic Signal General Notes	Concrete culvert. Limited survey. 28 total drain pipes.
Guano Present?	No
Homeless Activity	No
Bloodborne Pathogen Concerns?	No
Mice/Mouse Nests/Droppings	No

Bridge 01747

Bridge/Signs/Light Pole/Traffic Signal No.	Bridge 01747
Bridge/Signs/Light Pole/Traffic Signal General Notes	Limited inspection, 11 girders run length of bridge, 33 rocker pads, 6 concrete pillar supports, 8 transite pipes run length of bridge. No access to painted girders or transite due to embankment and highway. Assume paint is lead (suspect old deteriorated Grey paint).
Guano Present?	No
Homeless Activity	No
Bloodborne Pathogen Concerns?	No
Mice/Mouse Nests/Droppings	No

Sign pole 21682

Bridge/Signs/Light Pole/Traffic Signal No.	Sign pole 21682
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Bridge/Signs/Light Pole/Traffic Signal General Notes	Painted sign pole
Guano Present?	No
Homeless Activity	No
Bloodborne Pathogen Concerns?	No
Mice/Mouse Nests/Droppings	No

Sign Pole 21683

Bridge/Signs/Light Pole/Traffic Signal No.	Sign Pole 21683
Bridge/Signs/Light Pole/Traffic Signal General Notes	Inaccessible due to width of shoulder. Same caulk and paint scheme as 21682 was observed
Guano Present?	No
Homeless Activity	No
Bloodborne Pathogen Concerns?	No
Mice/Mouse Nests/Droppings	No

Sign Pole 21579

Bridge/Signs/Light Pole/Traffic Signal No.	Sign Pole 21579
Bridge/Signs/Light Pole/Traffic Signal General Notes	Painted pole
Guano Present?	No
Homeless Activity	No
Bloodborne Pathogen Concerns?	No
Mice/Mouse Nests/Droppings	No

Sign pole 21580

Bridge/Signs/Light Pole/Traffic Signal No.	Sign pole 21580
Bridge/Signs/Light Pole/Traffic Signal General Notes	Inaccessible due to shoulder width. Same pole paint scheme as 21579
Guano Present?	No
Homeless Activity	No
Bloodborne Pathogen Concerns?	No
Mice/Mouse Nests/Droppings	No

Sign pole 21581

Bridge/Signs/Light Pole/Traffic Signal No.	Sign pole 21581
Bridge/Signs/Light Pole/Traffic Signal General Notes	Painted pole.
Guano Present?	No
Homeless Activity	No
Bloodborne Pathogen Concerns?	No
Mice/Mouse Nests/Droppings	No

Sign pole 21684

Bridge/Signs/Light Pole/Traffic Signal No.	Sign pole 21684
Bridge/Signs/Light Pole/Traffic Signal General Notes	Galvanized Pole.
Guano Present?	No

Homeless Activity	No
Bloodborne Pathogen Concerns?	No
Mice/Mouse Nests/Droppings	No

Sign pole 21685

Bridge/Signs/Light Pole/Traffic Signal No.	Sign pole 21685
Bridge/Signs/Light Pole/Traffic Signal General Notes	Inaccessible due to shoulder width same pole as 21682. Painted pole.
Guano Present?	No
Homeless Activity	No
Bloodborne Pathogen Concerns?	No
Mice/Mouse Nests/Droppings	No

General Information

SHEET NO. 1 of 2
PROJECT NO. 22266-5716-0740
DATE 3/22/18
BY Chris, Dale & H
CHKD

TRC
Trinity River Council

W. HFD area
SUBJECT DOT - Bridge Inspections

Bridge 01743B

- ✓ C1 - grey, brittle + elec. conduit caulk (± 10 SF)
- ✓ C2 - 14 grey, " guardrail supports " (± 90 each, ± 1 LF/each)
- * NO exp. joint material present on both 01743 A & B concrete abutments *

Bridges 01745 & 01744

- ✓ C3 - grey/wh, flexible parapet caulk (7-6' locations)
- ✓ C4 - 14 grey, brittle guardrail supports caulk (200 each; ± 1 LF/each)
- * NO C1 or elec. conduit *

Bridges 03479, 03476, 03499

03479 - 14 grey/wh, flexible parapet caulk (7-6' locations)

03476 - 14 grey, semi-flex parapet/road surface caulk (7-6' locations)
* C4 present; inaccessible *

03499 - 14 grey, semi-flex, chalky parapet caulk (7-6' locations)
* C4 present; inaccessible *

W.T.I. - tar @ bottom of parapet wall (± 250 LF; ± 1" bead)

Bridge 01746 - culvert under RT 84,
14" - tar pipe on west culvert wall (6 total)

SHEET NO. 2 of 2
PROJECT NO. 22266-5716-0740
DATE 3/23/18
BY Chris, Dale
CHKD

TRC
Trinity River Council

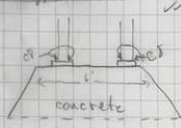
SUBJECT DOT - Bridge Insps cont.

Bridge 01742

Going EB, there are 8 transite pipes running North/South between the 2nd & 3rd truss; no sample → inaccessible

Sign support 21672

✓ C1 - off-wh, brittle support caulk (4 SF total)



* 2 concrete supports, each side of Hwy. 74

Sign support 21578

- NO supp. Act -

Sign support 21571

- NO supp. Act -

Signature

A handwritten signature in black ink that reads "David West". The letters are cursive and somewhat stylized.

Signed 2018-03-23 16:08:02 UTC

Asbestos Samples Submitted to TRC Lab	Yes
Date Submitted to Lab	2018-03-23
TCLP/SPLP Samples Submitted to Lab	Yes
TCLP/SPLP Samples Submitted To:	CET
Date Submitted to Lab	2018-03-23

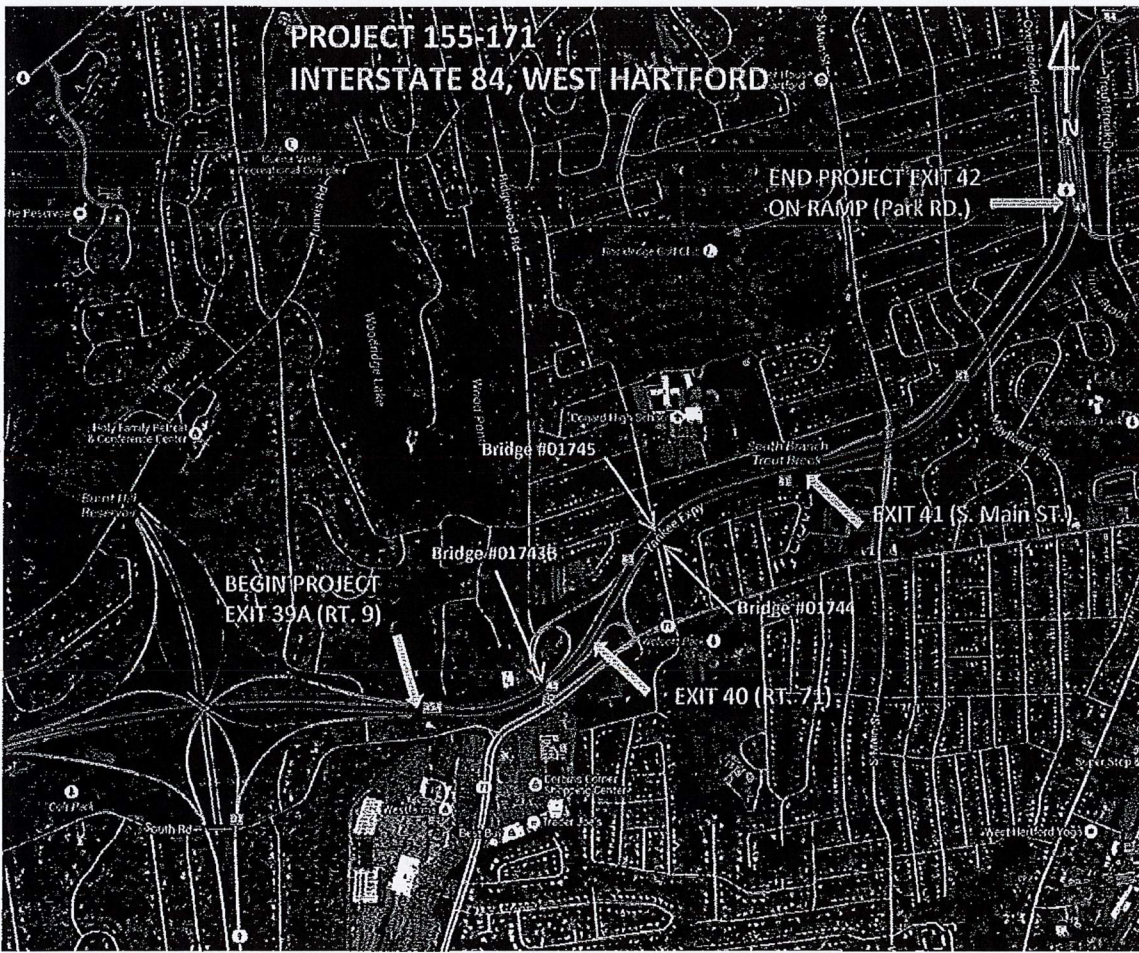
**PROJECT NO. 155-171
SAFETY AND OPERATIONAL IMPROVEMENTS ON I-84
TOWNS OF WEST HARTFORD**

*EXIT 39A
TO
EXIT 42
MEDIAN?*

PURPOSE & NEED OF PROJECT: The purpose of this project is to provide safety and operational improvements to address concerns with congestion and traffic operations on I-84 in the Town of West Hartford. These improvements are included as part of the Governor's Let's GO CT 5 year ramp up plan for transportation initiatives.

To address existing congestion concerns and projected traffic volumes on I-84 WB, an additional thru travel lane is proposed from the Park Road on-ramp to Exit 39A by widening I-84 towards the median. The fourth thru lane will reduce congestion and crash frequencies between the closely spaced interchanges by improving weaving operations. To address congestion concerns, improve acceleration/deceleration lanes and reduce crash frequencies on I-84 EB, an auxiliary lane is proposed between Exit 40 and Exit 41. To accommodate the auxiliary lane, I-84 will be widened towards the median.

PROJECT LOCATION MAP:



Project Location