

April 18, 2016

Mr. Christopher Bonsignore, 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: Judy Nemecek, P.E. / Stephen Clout

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance

Agreement No. 04.27-01(15)

HazMat Inspection - Sign Supports at Twenty Three (23) Sites, I-95, Groton, Stonington & North

Stonington, CT

ConnDOT Assignment No. 514-5281 ConnDOT Project No. 172-342 TRC Project No. 222165.5281.00710

Dear Mr. Bonsignore:

TRC performed a limited survey for hazardous building materials associated with sign support removals at 23 Sites on I-95 in Groton, Stonington and North Stonington, Connecticut. Results of the survey identified the following on the sign support surfaces at the following Sites:

Sign Support Removal Sites:

- Detectable amounts of lead in paint were confirmed present at Site Nos. 1-10, Site No. 12 & Site Nos. 16-22
- No detectable amounts of lead were identified at Site No. 11, Site No. 13 (galvanized), Site No. 14 (galvanized), Site No. 15 & Site No. 23 (galvanized).
- Projected paint waste debris was characterized as RCRA/CTDEEP hazardous waste at Site Nos. 2-5, Site No. 7, Site No. 12 & Site Nos. 16-20.
- Projected paint waste debris was characterized as non-hazardous, non-RCRA waste at Site No. 1, Site No. 11, Site No. 15, Site No. 21, & Site No. 22.
- Any paint waste debris to be generated at Site No. 6, Site No. 8, Site No. 9 & Site No. 10 is presently
 presumed as EPA RCRA/CTDEEP hazardous waste pending actual characterization testing when
 accessible.
- White/grey caulking at the base of the sign support poles at Site Nos. 1-5, Site No. 7, Site No. 16, & Site Nos. 18-22 was found to contain asbestos. A black "gasket-like" suspect asbestos containing material between the upper connection plates at Site No. 14 and Site No. 15 was inaccessible and is presently presumed to contain asbestos.
- No pigeon/bird guano accumulations were identified at any of the Sites.

Laboratory data, Site No. information and photos are attached.

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

Very Truly Yours,

Jana RM

TRC

Erik R. Plimpton, P.E., CHMM, CMC Vice President - Program Manager

Edmund J. Burke, P.E. Engineer-in-Charge

Device(s): Site: Project #: Date(s):	Niton XLP301-A (Sign Supports - T. 222165.5281.0710 2/29/16-3/02/16	1-A (Serial #24792) s - Twenty Three (2 0710	Niton XLP301-A (Serial #24792) X Ray Fluorescence (XRF) Spectrum Analyzer Sign Supports - Twenty Three (23) I-95 Resigning, Groton & Stonington 222165,5281.0710 2/29/16-3/02/16) Spectrum Analyzer n & Stonington									
Inspector:	Mike Stewart	Mike Stewart (Lead Inspector/RA #002115)	A #002115)										
Number	Interior/	Location	Site No.	Structure	Feature	Material	Color	Condition	Reading	Reading Precision	Depth	Duration	Date/Time
,	Exterior		Colf College						(mg/cm2)	(mg/cm2)	Index	(sec)	
- 0			Self-Calibration									225.5	2/29/2016 11:12
2			0.7 calibration						0.7	0.2	1.0	2.9	2/29/2016 11:16
m .			0.3 calibration						0.3	0.1	1.0	6.9	2/29/2016 11:17
4 "	1	Otto Mar 4	1.6 calibration						4.4	0.5	1.1	6.2	2/29/2016 11:18
0	Exterior	Site No. 1	Sign #21193	Support		Metal	Green	Intact	0.1	0.1	2.4	6.4	2/29/2016 11:35
9	Exterior	Site No. 1	Sign #21193	Support		Metal	Green	Intact	0.2	0.1	4.3	10.1	2/29/2016 11:36
7	Exterior	Site No. 2	Sign #21194	Support		Metal	Grey	Intact	3.3	0.3	1,3	5.1	2/29/2016 12:10
00	Exterior	Site No. 2	Sign #21194	Support		Metal	Grey	Intact	6.2	1.4	1.4	7.6	2/29/2016 12:32
6	Exterior	Site No. 3	Sign #21195	Support		Metal	Grey	Intact	4.8	1.2	1,4	9.1	2/29/2016 12:54
10	Exterior	Site No. 3	Sign #21195	Support		Metal	Grey	Intact	5.3	1.4	1.4	7.3	2/29/2016 12:55
-	Exterior	Site No. 4	Sign #21197	Support		Metal	Grey	Intact	4.0	0.4	1.3	5.0	2/29/2016 13:52
12	Exterior	Site No. 4	Sign #21197	Support		Metal	Grey	Intact	3.4	0.4	1.3	4.4	2/29/2016 13:52
13	Exterior	Site No. 21	Sign #21293	Support		Metal	Grey	Intact	4.0	0.4	1.4	4.4	2/29/2016 15:48
14	Exterior	Site No. 21	Sign #21293	Support		Metal	Grey	Intact	4.6	0.4	1.4	5.5	2/29/2016 15:48
15			0.7 calibration						0.7	0.1	1.0	3.7	2/29/2016 16:09
16			0.3 calibration			1			0.4	0.1	1.1	3.7	2/29/2016 16:09
17			1.6 calibration			Į.			1.6	0.1	1.2	8.7	2/29/2016 16:10
18			Self-Calibration									221.5	3/1/2016 10:47
13			0.7 calibration						0.8	0.1	1.1	10.2	3/1/2016 10:50
20			1.0 calibration						1.2	0.1	1.1	9.5	3/1/2016 10:50
21			1.6 calibration						1.7	0.1	1.2	10.4	3/1/2016 10:51
22			3.6 calibration						3.5	2.6	1.3	4.0	3/1/2016 10:51
23			3.6 calibration						3.7	0.2	1.3	10.6	3/1/2016 10:52
24	Exterior	Site No. 5	Bridge 21198	Support		Metal	Grey	Defective	3.7	0.7	1.3	3.0	3/1/2016 10:54
25	Exterior	Site No. 5	Bridge 21198	Support		Metal	Grey	Defective	4.0	0.4	1.3	3.9	3/1/2016 10:55
26	Exterior	Site No. 8	Bridge 21201A	Bracket		Metal	Orange	Defective	3.7	1.0	1.6	1.9	3/1/2016 11:37
27	Exterior	Site No. 8	Bridge 21201A	Bracket		Metal	Orange	Defective	2.7	9.0	1.3	2.6	3/1/2016 11:37
28	Exterior	Site No. 9	Bridge 21201B	Bracket		Metal	Orange	Defective	2.3	0.3	1.4	3.4	3/1/2016 11:38
59	Exterior	Site No. 9	Bridge 21201B	Bracket		Metal	Orange	Defective	2.7	0.3	1.3	4.6	3/1/2016 11:39
30	Exterior	Site No. 6	Bridge 21199	Bracket		Metal	Orange	Defective	22.8	2.5	1.8	7.1	3/1/2016 11:57
31	Exterior	Site No. 6	Bridge 21199	Bracket		Metal	Orange	Defective	9.9	2.3	1.8	3.2	3/1/2016 11:57
32	Exterior	Site No. 7	Sign 21200	Support		Metal	Grey	Defective	9.6	4.1	1.4	2.1	3/1/2016 12:19
33	Exterior	Site No. 7	Sign 21200	Support		Metal	Grey	Defective	6.3	1.9	1.6	4.2	3/1/2016 12:20
34	Exterior	Site No. 7	Sign 21200	Support		Metal	Grey	Defective	3.8	0.4	1.3	5.5	3/1/2016 12:20
35	Exterior	Site No. 15	Sign 21210	Support		Metal	Grey	Defective	0.0	0.0	1.7	3.9	3/1/2016 14:06
36	Exterior	Site No. 15	Sign 21210	Support		Metal	Grey	Defective	0.0	0.0	6.1	10.1	3/1/2016 14:07

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Location Site No. Structure Feature Material Color Condition Reading Precision Precision Depth Duration Depth Duration Exterior Site No. 6 Sign 2712 Support Metal Gery Defective 6.6 1.6 1.6 5.7 Exterior Site No. 17 Sign 2712 Support Metal Gery Defective 6.6 1.6 1.4 6.7 Exterior Site No. 17 Sign 7203 Backet Metal Gery Defective 6.7 1.4 6.7 Exterior Site No. 10 Sign 7203 Backet Metal Gery Defective 0.7 1.1 6.7 Exterior Site No. 10 Sign 7203 Backet Metal Gery Defective 0.7 1.1 1.7 Exterior Site No. 10 Sign 7204 Backet Metal Gery Defective 0.7 0.1 1.1 1.7	Device(s): Site: Project #: Date(s): Inspector:	Niton XLP30 Sign Suppor 222165.5281 2/29/16-3/02/ Mike Stewar	11-A (Serial #24792) rts - Twenty Three (2 .0710 116 t (Lead Inspector/RA	X Ray Fluorescence (XR 23) I-95 Resigning, Groto 4#002115)	F) Spectrum Analyzer in & Stonington									
Exterior Sien of Sien Sien Sien Sien Sien Sien Sien Sien	Number	Interior/	Location	Site No.	Structure	Feature	Material	Color	Condition			Depth	Duration	Date/Time
Exercino Siles Mod 16 Sign 21212 Support Metal Grey Defective 6.5 1.3 1.5 7.7 Exercino Siles Mod 17 Sign 21214 Support Metal Grey Defective 6.5 1.5 1.6 5.7 Exercino Siles Mod 17 Sign 21214 Support Metal Grey Defective 6.5 1.6 1.6 5.0 Exercino Siles Mod 10 Sign 21203 Bracket Metal Grey Defective 1.0 1.1 1.1 6.5 Exercino Siles Mod 10 Sign 21203 Bracket Metal Grey Defective 1.0 1.1 1.1 6.5 Exercino Siles Mod 12 Sign 21204 Support Metal Grey 0.0 1.1 1.1 6.5 Exercino Siles Mod 12 Sign 21204 Bracket Metal Grey Defective 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 <		Exterior								(mg/cm2)	(mg/cm2)	Index	(sec)	
Exercino Silen kol 15 Silgn 21212 Support Metal Gray Defective 6.5 1.6 1.6 5.7 Exercino Silen kol 17 Sign 21214 Support Metal Gray Defective 8.4 1.6 1.4 6.7 Exercino Silen kol 10 Sign 21234 Support Metal Gray Defective 8.7 1.1 1.2 5.7 Exercino Silen kol 10 Sign 21230 Bracket Metal Gray Defective 8.7 1.1 1.2 5.8 Exercino Silen kol 10 Sign 21203 Bracket Metal Gray Defective 0.7 1.1 1.2 5.8 Exercino Silen kol 10 Sign 21204 Bracket Metal Gray Defective 0.7 1.1 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1	37	Exterior		Sign 21212	Support		Metal	Grey	Defective	5.5	1.3	1.5	7.2	3/1/2016 14:33
Exterior Site M4 17 Sign 21214 Signport Metal Grey Defective 6.6 1.6 1.4 5.7 Exterior Site M4 17 Sign 21244 Sign 21244 Sign 21244 Sign 21244 1.6 1.7 1.1 1.2 5.8 Exterior Site M4 10 Sign 21203 Benacet Metal Green Defective 1.7 1.1 5.8 Exterior Site M4 11 Sign 21204 Benacet Metal Green Defective 1.7 1.1 1.7 1.1 Exterior Site M4 12 Sign 21204 Benacet Metal Green Defective 1.7 1.1 1.7 1.8 Exterior Site M4 12 Sign 21204 Benacet Metal Green Defective 1	38	Exterior	Site No. 16	Sign 21212	Support		Metal	Grey	Defective	10.2	2.0	1.6	5.7	3/1/2016 14:33
Exterior Site Ind. 17 Sign 21204 Support Metal Oneside 8.4 1.6 1.4 6.7 Exterior Site Ind. 10 Sign 21202 Bandert Metal Orange Defective 1.0 0.1 1.2 3.5 Exterior Site Ind. 10 Sign 21203 Bandert Metal Orange Defective 1.0 0.1 1.1 1.2 3.5 Exterior Site Ind. 11 Sign 21203 Bencher Metal Orange Defective 0.0 0.0 1.0	39	Exterior	Site No. 17	Sign 21214	Support		Metal	Grey	Defective	9.9	1.6	1.4	5.7	3/1/2016 15:12
Exterior Site No. 10 Sign 21203 Bracket Metal Orange Defective 2.3 1.5 5.0 Exterior Site No. 10 Sign 21203 Bracket Metal Orange Defective 1.0 0.1 1.1 5.8 Exterior Site No. 10 Sign 21203 Bracket Metal Orange Defective 1.0 0.1 1.1 5.8 Exterior Site No. 11 Sign 21203 Bracket Site No. 1 Sign 21204 Support Metal Orange Defective 0.0 0.0 0.0 1.1 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.2 1.1 1.1 1.2 1.1 1.2 1.1 1.2 1.	40	Exterior	Site No. 17	Sign 21214	Support		Metal	Grey	Defective	8.4	1.6	1.4	6.7	3/1/2016 15:13
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Exterior Siles Nd, 10 Sign 21203 Bracket Metal Orange Defective 1.0 0.1 1.2 5.8 Exterior Siles Nd, 11 Sign 21203 Bracket Netal Orange 1.1 1.0 1.1 1.2 Exterior Siles Nd, 11 Sign 21204 Support Metal Green Defective 0.0 0.0 1.1 1.2 Exterior Siles Nd, 12 Sign 21205 Beam Metal Green Defective 4.1 1.1 1.5 1.8 Exterior Siles Nd, 12 Sign 21205 Bracket Metal Blue Defective 4.1 1.1 1.5 1.8 Exterior Siles Nd, 12 Sign 21205 Bracket Metal Blue Defective 3.2 1.8 1.1 1.1 1.5 1.1 1.1 1.5 1.1 1.1 1.1 1.5 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 </td <td>42</td> <td>Exterior</td> <td></td> <td>Sign 21203</td> <td>Bracket</td> <td></td> <td>Metal</td> <td>Orange</td> <td>Defective</td> <td>0.7</td> <td>0.1</td> <td>1.2</td> <td>3.5</td> <td>3/1/2016 15:39</td>	42	Exterior		Sign 21203	Bracket		Metal	Orange	Defective	0.7	0.1	1.2	3.5	3/1/2016 15:39
Extention Siles keld, 10 Sign 21204 Support Metal Orange Defective 1.1 0.1 1.2 1.2 The transmission of the control of the contro	43	Exterior	Site No. 10	Sign 21203	Bracket		Metal	Orange	Defective	1.0	0.1	1.1	5.8	3/1/2016 15:39
Exterior Site Nd, 11 Sign 21204 Support Metal Green Defective 0.0 0.0 0.0 1.7 1.17 Exterior Site Nd, 12 Sign 21204 Support Metal Glee Defective 6.5 3.7 4.7 5.0 Exterior Site Nd, 12 Sign 21205 Beam Metal Blue Defective 4.1 1.1 1.5 1.8 Exterior Site Nd, 12 Sign 21205 Bracket Metal Blue Defective 4.1 1.1 1.5 1.8 Exterior Site Nd, 12 Sign 21205 Bracket Metal Blue Defective 4.1 1.1 1.0 1.1 1.0 1.1 1.0 1.0 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.0 1.0 1.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 <t< td=""><td>44</td><td>Exterior</td><td>Site No. 10</td><td>Sign 21203</td><td>Bracket</td><td></td><td>Metal</td><td>Orange</td><td>Defective</td><td>1.1</td><td>0.1</td><td>1.2</td><td>12.7</td><td>3/1/2016 15:40</td></t<>	44	Exterior	Site No. 10	Sign 21203	Bracket		Metal	Orange	Defective	1.1	0.1	1.2	12.7	3/1/2016 15:40
Exterior Site Nd, 11 Sign 21204 Support Metal Green Defective 0.0 4.1 6.2 Exterior Site Nd, 12 Sign 21205 Beam Metal Bible Defective 6.5 3.7 1.7 3.0 Exterior Site Nd, 12 Sign 21205 Bracket Metal Bible Defective 2.9 0.7 1.5 2.1 Exterior Site Nd, 12 Sign 21205 Bracket Metal Bible Defective 2.9 0.7 1.5 2.1 Exterior Site Nd, 12 Sign 21205 Bracket Metal Bible Defective 2.9 0.7 1.5 2.1 Exterior Site Nd, 12 Sign 21205 Bracket Metal Bible Defective 2.9 0.7 1.1 1.03 Exterior Site Nd, 12 Sign 21205 Bracket Metal Bible Defective 2.9 0.7 1.1 1.03 1.1 1.1 1.1 1.1	45	Exterior	Site No. 11	Sign 21204	Support		Metal	Green	Defective	0.0	0.0	7.0	11.7	3/1/2016 15:51
Exterior Sile Nd, 12 Sign 21205 Beam Metal Blue Defective 6.5 3.7 1.7 3.0 Exterior Sile Nd, 12 Sign 21205 Brancket Metal Blue Defective 4.1 1.5 2.1 3.0 Exterior Sile Nd, 12 Sign 21205 Brancket Metal Blue Defective 4.1 1.5 2.1 3.0 Exterior Sile Nd, 12 Sign 21205 Brancket Metal Blue Defective 2.9 0.7 1.5 2.1 1.0 3.1 1.0 3.1 1.0 3.1 1.0 3.1 <td>46</td> <td>Exterior</td> <td>Site No. 11</td> <td>Sign 21204</td> <td>Support</td> <td></td> <td>Metal</td> <td>Green</td> <td>Defective</td> <td>0.0</td> <td>0.0</td> <td>4.1</td> <td>6.2</td> <td>3/1/2016 15:52</td>	46	Exterior	Site No. 11	Sign 21204	Support		Metal	Green	Defective	0.0	0.0	4.1	6.2	3/1/2016 15:52
Site No. 12 Sign 21205 Beam Metal Blue Defective 4.1 1.5 1.8 1.8 1.8 1.4 1.1 1.5 1.8 1.8 1.8 Defective 4.1 1.5 1.8 1.8 1.8 1.8 1.8 1.8 1.5 0.7 1.5 1.5 1.5 1.5 0.5 1.5 1.5 1.5 1.5 0.5 1.5 0.5 1.5 0.5 0.5 1.5 0.5 0.5 0.5 0.5 0.5 0.5 1.5 0.5 <	47	Exterior	Site Na. 12	Sign 21205	Beam		Metal	Blue	Defective	6.5	3.7	1.7	3.0	3/1/2016 16:35
Site No. 12 Sign 21205 Bracket Metal Blue Defective 3.2 0.8 1.6 2.1 Site No. 12 Sign 21205 Bracket Metal Blue Defective 5.2 3.2 1.5 2.1 Site No. 12 Sign 21205 Bracket Metal Blue Defective 5.3 3.2 1.5 2.1 1.0 Sign 21205 Bracket Metal Metal C 7 0.1 1.1 10.3 1.1 10.3 1.1 10.3 1.1 10.3 1.1 10.3 1.1 10.3 1.1 10.3 1.1 10.3 1.1 10.3 1.1 10.3 1.1 10.3 1.1 10.3 1.1 10.3 1.1 10.3 1.1 10.3 1.1 10.3 1.1 10.3 1.1 10.5 1.1 1.1 10.5 1.1 1.1 10.5 1.1 1.1 10.5 1.1 1.1 10.3 1.1 1.1 1		Exterior		Sign 21205	Beam		Metal	Blue	Defective	4.1	1.1	1.5	1.8	3/1/2016 16:36
Site Nd. 12 Sign 21205 Bracket Metal Blue Defective 2.9 0.7 1.5 2.1 5.2 1.5 0.7 1.5 0.7 1.5 0.7 1.5 0.7 1.5 0.7 1.5 0.7 1.1 1.0 0.7 0.1 1.1 1.0 0.7 0.1 1.1		Exterior	Site No. 12	Sign 21205	Bracket		Metal	Blue	Defective	3.2	8.0	1.6	2.1	3/1/2016 16:36
Site Nd, 12 Sign 21205 Bracket Metal Blue Defective 5.2 3.2 1.5 0.5 1. Calibration 1. Galibration 3. Galibration 0.7 0.1 1.1 10.0 2. Calibration 2. Galibration 3. Galibration 1. Galibration <t< td=""><td></td><td>Exterior</td><td>Site No. 12</td><td>Sign 21205</td><td>Bracket</td><td></td><td>Metal</td><td>Blue</td><td>Defective</td><td>2.9</td><td>0.7</td><td>1.5</td><td>2.1</td><td>3/1/2016 16:36</td></t<>		Exterior	Site No. 12	Sign 21205	Bracket		Metal	Blue	Defective	2.9	0.7	1.5	2.1	3/1/2016 16:36
O.7 Calibration O.8 O.1 Calibration O.9 Calibration O.9 Calibration O.1 Ca		Exterior		Sign 21205	Bracket		Metal	Blue	Defective	5.2	3.2	1.5	0.5	3/1/2016 16:38
1.6 calibration 1.6 calibration 1.6 calibration 1.1 calibr				0.7 calibration						0.7	0.1	1.1	10.3	3/1/2016 16:47
Self-Calibration 3.6 calibration 3.9 0.3 1.3 10.6 Self-Calibration Self-Calibration Action of Calibration				1.6 calibration						1.5	1.0	1.2	11.1	3/1/2016 16:48
Self-Calibration Confibration Confibrat				3.6 calibration						3.9	0.3	1.3	10.6	3/1/2016 16:49
O.7 Calibration 0.7 Calibration 0.7 Calibration 0.8 0.1 1.1 1.2.3 Site No. 18 3.6 calibration 3.6 calibration 1.4 0.1 1.1 10.5 Site No. 18 Sign 21288 Support Metal Grey Defective 2.8 0.3 1.4 0.4 Site No. 18 Sign 21288 Support Metal Grey Defective 4.4 0.4 1.4 6.7 Site No. 22 Sign 21284 Support Metal Grey Defective 4.2 0.4 1.4 6.7 Site No. 22 Sign 21294 Support Metal Grey Defective 4.2 0.4 1.4 6.7 Site No. 20 Sign 21294 Support Metal Grey Defective 4.2 0.4 1.4 4.4 Site No. 20 Sign 21292 Support Metal Grey Defective 3.3 0.6 1.4 3.9 Site No. 19 Sign 21291 Support				Self-Calibration									219.5	3/2/2016 11:12
1.6 calibration 1.6 calibration 1.1 calibration <t< td=""><td></td><td></td><td></td><td>0.7 calibration</td><td></td><td></td><td></td><td></td><td></td><td>0.8</td><td>0.1</td><td>1.1</td><td>12.3</td><td>3/2/2016 11:14</td></t<>				0.7 calibration						0.8	0.1	1.1	12.3	3/2/2016 11:14
Site No. 18 Sign 21288 Support Metal Grey Defective 3.5 0.2 1.3 10.4 Site No. 18 Sign 21288 Support Metal Grey Defective 2.8 0.3 1.2 4.1 Site No. 22 Sign 21294 Support Metal Grey Defective 4.4 0.4 1.4 6.7 Site No. 22 Sign 21294 Support Metal Grey Defective 4.2 0.4 1.4 6.7 Site No. 22 Sign 21294 Support Metal Grey Defective 2.8 0.3 1.2 4.4 Site No. 20 Sign 21292 Support Metal Grey Defective 4.9 0.5 1.4 3.9 Site No. 20 Sign 21291 Support Metal Grey Defective 4.9 0.6 1.3 3.2 Site No. 19 Sign 21291 Support Metal Grey Defective 3.6 0.4 1.3 4.2 <td></td> <td></td> <td></td> <td>1.6 calibration</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4.</td> <td>0.1</td> <td>1.1</td> <td>10.5</td> <td>3/2/2016 11:15</td>				1.6 calibration						4.	0.1	1.1	10.5	3/2/2016 11:15
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Site No. 18 Sign 21288 Support Metal Grey Defective 2.8 0.3 1.2 4.1 Site No. 18 Sign 21284 Support Metal Grey Defective 4.4 0.4 1.4 6.7 Site No. 22 Sign 21294 Support Metal Grey Defective 2.8 0.3 1.2 4.4 Site No. 20 Sign 21292 Support Metal Grey Defective 3.1 0.6 1.2 3.2 Site No. 20 Sign 21292 Support Metal Grey Defective 4.9 0.5 1.4 3.9 Site No. 19 Sign 21291 Support Metal Grey Defective 3.5 0.6 1.3 4.2 Site No. 19 Sign 21291 Support Metal Grey Defective 3.6 0.4 1.3 4.2 And Annual Company Sign 21291 Support Metal Grey Defective 3.6 0.4 1.3		Exterior		Sign 21288	Support		Metal	Grey	Defective	3.6	2.8	1.4	0.4	3/2/2016 11:18
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				3.6 calibration						3.8	0.3	1.3	10.3	3/2/2016 12:51

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WINDSOR, TELEPHON	WINDSOR, CONNECTICE TELEPHONE (860) 298-969	H &			HAIN OF CUSTODY	OF CUS	STO	DY							
FAX (860) 298-6380	8-6380	i.	T	1	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND		1			1	LAI	LABID#.			
PROJECT NUMBER	UMBEK	-		CT-DOT	CT-DOT	۵	ARAM	PARAMETERS	-		TUKNAKOUND TIME	TIME 48hr	×	3day	Sday
222165-5281-00710	00710			I-95 N. St	I-95 Resigning, Groton, Stonington, N. Stonington, CT						24hr	48hr		3day	Sday
INSPECTOR	INSPECTOR: (SIGNATURE)	RE)	1	(PR	(PRINTED) Hilton Hernandez		etals	q	q	q		18			
			F	TYPE		_		d d'	d d'	I IB		MATERIAL	RIAL		
FIELD SAMPLE NUMBER	DATE	TIME	COMP	СВАВ	SAMPLE LOCATION	яску ы	8 KCK	IOT	IdS	JoT .					
10	02/29/16	1100		×	Sign #21193, US-1 NB			×			Light green paint chips	chips	SA	10	,
0.5	02/29/16	1120		X	Sign #21194, I-95 NB		2	x			Silver/grey paint chips	chips		N	
03	02/29/16	1220		×	Sign #21195, Route 184 EB			X			Silver/grey paint chips	ships		W	
94	02/29/16	1300		×	Sign #21197, I-95 NB			×			Silver/grey paint chips	hips		h	
92	03/01/16	1004		×	Sign #21198, I-95 NB	,		×			Silver/grey paint chips	ships		5	
90	03/01/16	1138		×	Sign #21200, I-95 NB			X			Silver/grey paint chips	hips		4	
. 40	03/01/16	1503		×	Sign #21204, I-95 NB					×	Light green paint chips	chips			/
80	02/29/16	1504		×	Sign #21204, I-95 NB		u.	×			Light green paint chips	chips		11	
60	03/01/16	1543		×	Sign #21205, I-95 SB	7	,	X			Blue paint chips			1	~1
10	03/01/16	1315		×	Sign #21210, I-95 SB					×	Light green paint chips	chips		18	1
11	03/01/16	1320		×	Sign #21210, I-95 SB	ý.		×			Light green paint chips	chips		18	
12	03/01/16	1350		×	Sign #21212, I-95 SB			×			Silver/grey paint chips	hips		1	0
Relinquished by: (Signature)	(Signature)	, \$	Date:	Date: 3/7/12	Received by: (Signature)	Relin	Truished b	Relinquished by: (Signature)	(ame)		Date: 3/7/16	Received by: (Signature)	by: (Sign	nature)	
(Printed) / Hilton Hernandez	dez		3/7	Time: 11365	36 (Printed) R.3 6 h 5	(Printed)	(pa				Time:	(Printed) U.Z. Marker	3	3	
Remarks: On Re	ly analyze #8 sults to Steve	if #7 sh	ows	detec	Remarks: Only analyze #8 if #7 shows detectable lead. Only analyze #11 if #10 shows detectable lead. Results to Steve Arienti and Hilton Hernandez, please.	shows det	ectable	lead.					Page	Page 1 of 2	

21 GRIFFIN ROAD NO WINDSOR, CONNECT TELEPHONE (860) 296- FAX (860) 298-6380	ROAD NO CONNECT (860) 29 2-6380	603	201	8 4	P CHAIN OF CUSTODY	JF CL	STC	YOU			1	Sup LAB ID#		Previous	Supersede Previous Edition D#.
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222165-5281-00710	00710		7.5	CT-DOT	CT-DOT L95 Recigning Groton Stonington		PARAMETERS	METER	S	Ш	22	24hr	48hr	X 3day	Sday
1000	0.7100			N. Stonin	N. Stonington, CT			Ē,			24	24hr	48hr	3day	Sday
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FIELD SAMPLE NUMBER	DATE	TIME	сомь	СВУВ	SAMPLE LOCATION	RCRA P	8 BCB	2777	IdS	оТ					
13	03/01/16	1425		X Sign	Sign #21214, I-95 SB			×		Si	Silver/grey paint chips	rt chips	1.	4	
14	03/02/16	1039	111	X Sign	Sign #21288, Route 349 SB			X		Si	Silver/grey paint chips	it chips		8	
15	03/02/16	1157		X Sign	Sign #21291, Route 349 NB			X		Si	Silver/grey paint chips	rt chips		51	
16	03/05/16	1141		X Sign	Sign #21292, Route 349 NB			×		Si	Silver/grey paint chips	it chips		20	
17	03/02/16	1500		X Sign	Sign #21293, Route 349 NB.			X		Si	Silver/grey paint chips	it chips		12	
18	03/02/16	1114		X Sign	Sign #21294, Route 349 SB	1	2	. ×		Si	Silver/grey paint chips	it chips		22	
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inquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
Sections	37/14	KBI ST ST	1. S. P. S.	3)1/5	James -
nted)	Time:	(Printed)	(Printed)	Time:	(Printed)
Hilton Hernandez	1130			1251	JIZ PRINCE
marks: Only analyze #8 if #7 shows detectable lead.	ows detects	Remarks: Only analyze #8 if #7 shows detectable lead. Only analyze #11 if #10 shows detectable lead.	ws detectable lead.		Page 2 of 2



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# 6030148

Report Date: March 11, 2016

Project: I-95 Resigning, Groton, Stonington, N. Stonignton

Project Number: 222165-5281-00710

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



New York Certification: 11982 Rhode Island Certification: 199

Project: I-95 Resigning, Groton, Stonington, N. Stonignton

Project Number: 222165-5281-00710

SAMPLE SUMMARY

The sample(s) were received at 6.0°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
01	6030148-01	Paint Chip	2/29/2016 11:00	03/07/2016
02	6030148-02	Paint Chip	2/29/2016 11:20	03/07/2016
03	6030148-03	Paint Chip	2/29/2016 12:20	03/07/2016
04	6030148-04	Paint Chip	2/29/2016 13:00	03/07/2016
05	6030148-05	Paint Chip	3/01/2016 10:04	03/07/2016
06	6030148-06	Paint Chip	3/01/2016 11:38	03/07/2016
07	6030148-07	Paint Chip	3/01/2016 15:03	03/07/2016
09	6030148-08	Paint Chip	3/01/2016 15:43	03/07/2016
10	6030148-09	Paint Chip	3/01/2016 13:15	03/07/2016
12	6030148-10	Paint Chip	3/01/2016 13:50	03/07/2016
13	6030148-11	Paint Chip	3/01/2016 14:25	03/07/2016
14	6030148-12	Paint Chip	3/02/2016 10:39	03/07/2016
15	6030148-13	Paint Chip	3/02/2016 11:57	03/07/2016
16	6030148-14	Paint Chip	3/02/2016 11:41	03/07/2016
17	6030148-15	Paint Chip	3/02/2016 15:00	03/07/2016
18	6030148-16	Paint Chip	3/02/2016 11:14	03/07/2016

Project: I-95 Resigning, Groton, Stonington, N. Stonignton

Project Number: 222165-5281-00710

Analyte: Total Lead [EPA 6010C]

Analyst: SS

Matrix: Paint Chip

Pren:	EPA	3050B
		JULUL

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
6030148-07	07	ND	0.10	%	Ĭ	B6C0812	03/08/2016	03/08/2016 18:23	
6030148-09	10	ND	0.10	%	1	B6C0812	03/08/2016	03/08/2016 18:28	

Analyte: TCLP Lead [EPA 6010C]

Analyst: SS

Prep: EPA 3005A-1311

Matrix: Extract

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
6030148-01	01	0.89	0.013	mg/L	Ü	B6C1013	03/10/2016	03/10/2016 16:49	
6030148-02	02	83	0.013	mg/L	1	B6C1013	03/10/2016	03/10/2016 17:07	
6030148-03	03	74	0.013	mg/L	<1	B6C1013	03/10/2016	03/10/2016 17:20	
6030148-04	04	75	0.013	mg/L	<1	B6C1013	03/10/2016	03/10/2016 17:25	
6030148-05	05	46	0.013	mg/L	<1)	B6C1013	03/10/2016	03/10/2016 17:29	
6030148-06	06	36	0.013	mg/L	<1	B6C1013	03/10/2016	03/10/2016 17:34	
6030148-08	09	140	0.013	mg/L	<1	B6C1013	03/10/2016	03/10/2016 17:38	
6030148-10	12	59	0.013	mg/L	1	B6C1013	03/10/2016	03/10/2016 17:43	
6030148-11	13	55	0.013	mg/L	1	B6C1013	03/10/2016	03/10/2016 17:47	
6030148-12	14	24	0.013	mg/L	1	B6C1013	03/10/2016	03/10/2016 17:52	
6030148-13	15	150	0.013	mg/L	1	B6C1013	03/10/2016	03/10/2016 17:56	
6030148-14	16	81	0.013	mg/L	1	B6C1013	03/10/2016	03/10/2016 18:01	
6030148-15	17	0.096	0.013	mg/L	1	B6C1013	03/10/2016	03/10/2016 18:14	
6030148-16	18	1.1	0.013	mg/L	1	B6C1013	03/10/2016	03/10/2016 18:19	

Project: I-95 Resigning, Groton, Stonington, N. Stonignton

Project Number: 222165-5281-00710

QUALITY CONTROL SECTION

Batch B6C0812 - EPA 6010C

Analyte	Result (%)	RL (%)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B6C0812-BLK1)					Prepared: 3/	/8/2016 Analyz	ed: 3/8/2016		
Lead	ND	0.10							

Project: I-95 Resigning, Groton, Stonington, N. Stonignton

Project Number: 222165-5281-00710

Batch B6C1013 - EPA 6010C

	Danieli	DI	C Ho	n const		0/ 5		DDD	
Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B6C1013-BLK1)					Prepared: 3	/10/2016 Analy	zed: 3/10/201	6	
Lead	ND	0.013							
LCS (B6C1013-BS1)					Prepared: 3/	/10/2016 Analy	zed: 3/10/201	6	
Lead	0.189	0.013	0.200		94.7	80 - 120			
Duplicate (B6C1013-DUP1)		Source: 6030	148-01		Prepared: 3/	/10/2016 Analy	zed: 3/10/201	6	
Lead	0.897	0.013		0.890			0.794	20	
Matrix Spike (B6C1013-MS1)		Source: 6030	148-01		Prepared: 3/	/10/2016 Analy	zed: 3/10/201	6	
Lead	1.07	0.013	0.200	0.890	88.4	75 - 125			
Matrix Spike Dup (B6C1013-MSD1)		Source: 6030	148-01		Prepared: 3/	/10/2016 Analy	zed: 3/10/201	6	
Lead	1.10	0.013	0.200	0.890	107	75 - 125	3.41	20	

Project: I-95 Resigning, Groton, Stonington, N. Stonignton

Project Number: 222165-5281-00710



80 Lupes Drive Stratford, CT 06615 Tel: (203) 377-9984 Fax: (203) 377-9952 email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS) An Analyte added to each sample or sample extract. An internal standard is used to monitor retention

time, calculate relative response, and quantify analytes of interest.

Surrogate Recovery The % recovery for non-tarer organic compounds that are spiked into all samples. Used to determine

method performance.

Continuing Calibration An analytical standard analyzed with each set of samples to verify initial calibration of the system.

Batch Samples that are analyzed together with the same method, sequence and lot of reagents within the same

time period.

ND Not detected RL Reporting Limit

Dilution Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high

concentration of target compounds.

Duplicate Result from the duplicate analysis of a sample.

Result Amount of analyte found in a sample.

Spike Level Amount of analyte added to a sample

Matrix Spike Result Amount of analyte found including amount that was spiked.

Matrix Spike Dup Amount of analyte foun in duplicate spikes including amount that was spike.

Matrix Spike % Recovery % Recovery of spiked amount in sample.

Matrix Spike Dup % Recovery % Recovery of spiked duplicate amount in sample.

RPD Relative percent difference between Matrix Spike and Matrix Spike Duplicate.

Blank Method Blank that has been taken through all steps of the analysis.

LCS % Recovery Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.

Recovery Limits A range within which specified measurements results must fall to be compliant.

CC Calibration Verification

Flags:

H- Recovery is above the control limits

L- Recovery is below the control limits

B- Compound detected in the Blank

P- RPD of dual column results exceeds 40%

#- Sample result too high for accurate spike recovery.



Connecticut Laboratory Certification PH0116 Massachussets Laboratory Certification M-CT903

New York Certification 11982 Rhode Island Certification 199

Project: I-95 Resigning, Groton, Stonington, N. Stonignton

Project Number: 222165-5281-00710

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

Sincerely,

David Ditta Laboratory Director

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 Homogenity 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.

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 the specified detection limit

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

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

Project: I-95 Resigning, Groton, Stonington, N. Stonignton

Project Number: 222165-5281-00710

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications	
EPA 6010C in Soil		
Lead	CT,NY	
EPA 6010C in Solid		
Lead	СТ	

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2016
NY	New York Certification (NELAC)	11982	04/01/2016

Edition: October 2009 Supersede Previous Edition アナロナか TURNAROUND TIME × MATERIAL 24hr 48hr LAB ID# × Off-white base caulk Off-white base caulk 8hr 24hr White base caulk White base caulk White base caulk White base caulk Grey base caulk Grey base caulk Grey base caulk Grey base caulk PLM: TEM: (IE DEW SERIES NEC) × × × × × **TEM NY NOB 198.4** (IE>1% & <10%) **ASBESTOS BULK SAMPLING PARAMETERS** POINT COUNT VAVLYZE BY LAYER CHAIN OF CUSTODY (POSITIVE STOP) (w) gravimetric reduction) PLM EPA 600/R93/116 (POSITIVE STOP) × × × × × × × × × × PLM EPA 600/R93/116 I-95 Resigning, Groton, Stonington, Sign #21193, support column Sign #21193, support column Sign #21194, support column Sign #21194, support column Sign #21195, support column Sign #21195, support column Sign #21197, support column Sign #21197, support column Sign #21198, support column Sign #21198, support column SAMPLE LOCATION PROJECT NAME N. Stonington, CT Hilton Hernandez INSPECTOR CEVE × × × × × × × × × × TYPE COMP WINDSOR, CONNECTICUT 06095 TIME 1218 1220 1240 1005 1006 0931 0932 1125 1241 21 GRIFFIN ROAD NORTH TELEPHONE (860) 298-9692 02/29/16 02/29/16 02/29/16 02/29/16 02/29/16 02/29/16 02/29/16 02/29/16 03/01/16 03/01/16 DATE PROJECT NUMBER FAX (860) 298-6380 222165.5281.00710 SIGNATURE SAMPLE NUMBER FIELD 02 0 03 9 05 90 07 80 60 10

Sday 3day

48hr 3day

Page 1 of 3 Received by: (Signature) (Printed) Time: Date: No Condition of Samples: Acceptable: Yes Comments: Relinquished by: (Signature) (Printed) 1000 Received by: (Signature) (Printed) Remarks: Results to Steve Arienti and Hilton Hernandez 91/10/20 25:41 Time: Date: Relinquished by: (Signature) Hilton Hernandez

Grey base caulk

×

×

Sign #21200, support column

×

1131

03/01/16

21 GRIFFIN ROAD NORTH

WINDSOR, CONNECTICUT 06095

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

Edition: October 2009

Supersede Previous Edition

3day Sday

とするしい 48hr 3day TURNAROUND TIME × MATERIAL 24hr 48hr LAB ID#. × 24hr 8hr Grey base caulk TEM: PLM: (IE PLM SERIES NEG) × × × TEM NY NOB 198.4 (1F>1% & <10%) PARAMETERS POINT COUNT VAVIASE BY LAYER (POSITIVE STOP) (w/ gravimetric reduction) **BEW EPA 600/R93/116** (POSITIVE STOP) × × × × × × × **b**FW Eby 600/R93/116 I-95 Resigning, Groton, Stonington, Sign #21200, support column Sign #21206, support column Sign #21212, support column Sign #21212, support column Sign #21288, support column Sign #21288, support column Sign #21206, support column SAMPLE LOCATION PROJECT NAME Hilton Hernandez N. Stonington, CT INSPECTOR CEVB × × × × × × × TYPE COMP 1514 1515 1342 1026 1026 1341 TELEPHONE (860) 298-9692 03/01/16 03/01/16 03/01/16 03/01/16 03/01/16 03/02/16 03/02/16 DATE PROJECT NUMBER FAX (860) 298-6380 222165.5281.00710 SIGNATURE SAMPLE NUMBER FIELD 15 12 16 13 14 17 18

Relinquished by: (Signature)	Date: 103/01/16	Received by: (Signature) 3 /= // c	Relinquished by: (Signature)	Date:	Received by: (Signature)
(Printed) Hilton Hernandez	Time: 1425	(Printed) 1600	(Printed)	Time:	(Printed)
Remarks: Results to Steve Arienti and Hilton Hernandez	enti and Hilton He		Condition of Samples: Acceptable: Yes No	No	Page 2 of 3

Grey base caulk Grey base caulk Grey base caulk Grey base caulk

×

×

× ×

Sign #21291, support column Sign #21292, support column Sign #21292, support column

Sign #21291, support column

× × ×

1149 1150 1128 1129

03/02/16 03/02/16 03/02/16

19 20 21 22

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03/02/16

ede Previous Edition	24042		3day 5day			12	12	22	n						
Supersede Previous Edition	7	TURNAROUND TIME	48hr 3day		_										
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Sup	LAB ID#.	ARO			IATE		ase caulk ase caulk ase caulk ase caulk								
	CAB	URN	, F		2										
	7	T	8hr 24hr			caulk	caulk	caulk	caulk						
			PLM: TEM:			Grey base caulk	Grey base caulk	Grey base caulk	Grey base caulk						
		Γ			(IE PLM SERIES	×		X							
	C		S		(IF >1% & <1										
	Ž		ETEF		VAVE SK E						H				
ASBESTOS BULK SAMPLING CHAIN OF CUSTODY	AMPL		PARAMETERS	duction)	PLM EPA 600/R										
	KS				PLM EPA 600/R	×	X	X	×						
	ASBESTOS BUL CHAIN OF	PROJECT NAME	CT-DOT I-95 Resigning, Groton, Stonington, N. Stonington, CT	INSPECTOR Hilton Hernandez	SAMPLE LOCATION	Sign #21293, support column	Sign #21293, support column	Sign #21294, support column	Sign #21204, support column						
		PRC	CT 98.N	INSI	COMP Z	×	×	×	×						
	960														
H. 0090	ГН :UT 06 692			V	TIME	1500	1501	1103	1104						
	30AD NOR' ONNECTIC (860) 298-99	IMBER	0710		DATE	02/29/16	02/29/16	03/02/16	03/02/16						
7 7	21 GRIFFIN ROAD NORTH WINDSOR, CONNECTICUT 06095 TELEPHONE (860) 298-9692 FAX (860) 298-6380	PROJECT NUMBER	222165.5281.00710	SIGNATURE	FIELD SAMPLE NUMBER	23	24	25	26						

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Relinquished by (Signature)	Date:	Received by: (Signature) 3 / 1/6	Relinquished by: (Signature)	Date:	Received by: (Signature)
(Printed) Hilton Hernandez	Time: 14, 25	(Printed) / 1500	(Printed)	Time:	(Printed)
Remarks: Results to Steve Arienti and Hilton Hernandez	nti and Hilton He		Condition of Samples: Acceptable: Yes No Comments:	No	Page 3 of 3

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



BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #:

0047649

Project #:

222165.5281.0710

Date Received:

03/08/2016

Date Analyzed:

03/08/2016

Site:

I-95 Resigning, Groton, Stonington & N. Stonington, CT

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

Sample No.	Color	Homogenous	Multi- Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
01	White	Yes	No	7.7	-164	3%	Chrysotile
02	- 94		- 75-	79	- 4-	NA/PS	2.4
03	White	Yes	No	1,46,7		3%	Chrysotil
04	62) Lie		- 10	9.0	NA/PS	- 7
05	Grey	Yes	No	- UU	1444	3%	Chrysotil
06	6-	4,4	(4/4)		(-s	NA/PS	
07	Off White	Yes	No	14.0	>1+17	5%	Chrysotil
08		++	++	75	~	NA/PS	145
09	Grey	Yes	No	7-4	7	3%	Chrysotil
10			1,23,	9.0	144	NA/PS	0.27
п	Grey	Yes	No		***	3%	Chrysotil
12			11	75%	**	NA/PS	32
13	Grey	Yes	No		-644	ND	None
14	Grey	Yes	No	×-		ND	None
15	Grey	Yes	No	(T.P.)	2,645	3%	Chrysoti
16	7.5	- F.F.	45		i kiyir	NA/PS	
17	Grey	Yes	No	86		5%	Chrysoti

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



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

Sample No.	Color	Homogenous	Multi- Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
18	9.0		60	100	1.5.1	NA/PS	
19	Grey	Yes	No		1-8-7	5%	Chrysotile
20	10	1.7			++1	NA/PS	- 44
21	Grey	Yes	No) - E	(191)	3%	Chrysotile
22			4.8	de la	9.51	NA/PS	KH
23	Grey	Yes	No	V	2515	3%	Chrysotile
24		35	-44	75	14.6	NA/PS	18,4
25	Grey	Yes	No	4.	H-4-1	3%	Chrysotile
26	,	4.5		192		NA/PS	××

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), 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, 2016. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through October 1, 2016. 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.

Analyzed by:

Kathleen Williamson, Laboratory Manager

Reviewed by: Mary and Planyan

Margaret Flanagan, Approved Signatory

Date Issued

03/08/2016

NT15644

Analysis Type: Chatfield EPA N.O.B Qualitative

Proscience Analytical Services, Inc.

22 Cummings Park, Woburn, MA 01801 Ph. 781-935-3212 Fax 781-932-4857

TEM Bulk Chain of Custody Record

Date: 03/08/16

C222165

Client:

TRC

222165.5281.0710 Client Job#:

Client Job Ref./Loc.: CT DOT- I-95 Resigning, Groton, Stonington & N. Stonington

Relinquished by:

Received by: Report to:

H. Hemandez Samplers Name: <12 Hour Turn Around Time:

<48 Hour <24 Hour

<3 Day

Other: 5 Day

Client ID # Lab ID# Description Lo		For Lab U
47649 Caulk	Location Acceptable on Receipt	le Comments
	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

Client Project #:

222165.5281.0710 CT DOT - I-95 Resigning, Groton, Stonington & N. Stonington Client Reference:

NT 15644 NOB

Batch: Method:

Laboratory Report

3/9/2016 3/11/2016

Date Analyzed: Date of Report: Date Received:

N/A

Client #: PO#

TRC Environmental Corp. (CT) 297

Client Name:	TRCEN	TRC Environmental Corp. (C1)											3	care of report.	31:	21071110
100000000000000000000000000000000000000				Initial		%	Asbesto	s Types		%	Other	%	%	Total %	Analyzed /	Preped /
LABID	Field ID	Description:	Color	Weight	CHR	AMO	ACT	CRO	ANT	TRE No	n-asp. (Organic	Carb.	Weight CHR AMO ACT CRO ANT TRE Non-asb. Organic Carb. Asbestos Charged Charged	Charged	Chargeo
											1	100000				
NT119380 13	Gre	Grey base caulk		.3869	00.	00.		00.	8,	8.	32.03	32.03 31.27 36.70	36.70	Q	Yes	8 N
									-		-					

Comments:

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

Mark Derosier, Analyst



SHEET NO. PROJECT NO. 2321655281,00710

	DATE 82/29/16
©TRC	BY HA + KGA
Results you can rely on SUBJECT CT-DT, Resigning EN to PI CI	95") CHK'D
Total Pb Tala (TV / 10)	10 7-10
0 = prist chips + TCLP (Total Po 1st IF has	Mon 1868)
ICLP regardless	
Oll or come just 108	places, Lea
(8:1)	Photographen > 101
# 21193 (Site 1) supports + overhead	(P)
- Grean painted, over rend I95 NB, attached	to conc. sepert pul Companie
- XRF = 0.13 + 0.23	O. 89 Ta
- top of pids 8 x2 depth wike	4 ha
- Before ex 86 (white Arm coulk	tes - ha
#21194 (S.42)	1 11-1-10
- Silver/Grey supports only Pb 3.3. No paint of - on concrete pads 18 8 x 21 depth unknown	showhead, PD 612 P
- an concrete pads 18 x 27 depth unknown	8 3 10
- over I95 NB. before ex 86	les - Ac
- sangled support column cack (Acom) (white)	1×1" Where afforments x'1 XR
- on concrete fleds & 8 x 2 depter anxioning - over I 95 NB. before ex 86 - sungled suggest colour could (Acm?) (white)	
#21195 (Site 3)	
- silver grey painted support columns + overhead	P
-XRF Pb -5+ upained	79 To
- XRF P6 - 5+ infainted - an conc. pads A 8'x2' depth unk. (Ex86 R	tes - Account Correr FR
- Sampled support colorera coule (ACM) "1×1"	buse @ cokum (Girey) xa
- has lighted stop Ahead Flushing sign	
- column prier port has silicene soulant	
#21197 (Site 7)	
-silver/grey puntod support columns + are head - XRF - 41	[PI
-XRF -41	75 1
- on concrete uppossed too 2.5 x 10' Dipla	visible up to 5 Yes - 100
- on concrete upposent of top 2.5'x 10' Dieph.	certain (off-white) xa
#21954 (S(c 23)	
- but dived actionized to ain + confleved sine some	TPM TPM
1 1 1 1 1 1 1 1 1 1 1 1	
base care - pound 7 dia della UNK. no must	
- hot digred galunized to print confleved sign support	



SHEET NO. 2 OF 4 PROJECT NO. 222165. 5281.00710 DATE 02/29/16 + 03/01/16 BY HH+KG and H++WMS

	DATE 02/29/16 + 05/01/16
Results you can rely on subject CT-DoT Resigning EXBS to Rt (I-95)	BY HHAKG and HH+WAS
SUBJECT (T-DOT Resigning EXBS to RT (I-98)	снкід
((4. 2)	No.
#21293 (Site 21)	0.096 - Fra Yes - Acc
- Silver/gray point XRF "4+ point on columns & over heard	0.096- 14
- 394 NB	Yes - Ac
- Attached to cenc. support pad (no point) - sampled support colour calk gray materia! /x1' c	XR
- sangled signed enlight call was notived /x/'	each X4
Jan Jan Charles Jan Jan Carlotte Charles The Charles The Carlotte Charles The Charles The Charles The Charles The Charles The Charles T	aca ' /
01/16	
HHHMS	
1 + ((1 -)	1
#2119B (S.Ce.5)	Ph
- silver gray paint XRF 4+ paint on colones + over head	Z-95 NB 46 (Tal
= Attached to come supert pads no point	Z-95 NB 46 Fich Yes - Aca
- Attached to conc. support pads no point - sampled support column cock () 1×1 base	(xa
(S) 0 + C= 5)	T
1#21201A 9B (Sik 9+5ta 9)	Tuc
-BAL orange paint , on bridge 2 No Alless	TCU
- NO Acm & Ex	PCH.
- NO Acm - YRS -2.7 ±	× R ⁴
#21199 (S.te.6)	Ph
10 6 m - 22 10 m o mind (20 AVIPSE	AB
- XRf 6-22 orange paint of NO ACCESS - over Flordar's Rd ISSNBS for paint chips	Ta.
- over flores pd ISSNB for paint cuips	, Ac
	[xil
#212005 -XRF 38-6 (S.Le.7)	
-XRF 33-6 (3.	Ph
- painted colomn + over head cuttarry silver farey	36 Ta
- rarray rank smalled 2'x2' bace	Yes - ACV
- care, pad top 7'x4 top depth waker 4' visible no	Table 1
- care, pad rep 111 rep septa sound 1 visite po	pula
- column hase	



SHEET	r NO.	3	OF _	4	
PROJE	CT NO	.222	165,5	281.00	710
DATE	_0.	3/01/	16		
BY	HH	& me	9		

CIRC	BY HHEWS	
Results you can rely on SUBJECT CT-BOT, Resigning E	XBS+RI(I95) CHK'D	
#21209 I-SK SB (S.le 14)		
- Hot dipped galvined conting (w nist werden (a love)	
- in affect goundred carries C.	will be do the water	
- NO carte in concrete prof print	to a septem inknown	
- upper plates a both earls	more supper quareries	
21210 I - 95 58 (S.te 15)		
- painted green 0 x 0.1 ser houd no coult in cont. n pad 4x4' +	+ Collins	
- No caste in cont. And 4x4 to	op, depte ineasin	
- upper pluses @ with ends he	he suspect naterial no	lend
but an't access		
#21212 I-955B (Site Ke)		-
Vac - min		
- XRF = "10 pantod overhead - 1×1 base has grey caulk Goung depth inknown	+ columns silver/gray	210
- IXI puse has grey caule same	need) on canc. un painted page 8x	6 57
depth inknown		Yes-
21214 I-95513 (Site 17)		les
7-95 5/3 (3:00 (1)		-
-gilve/grey paint XRF = 68+ - an cone. part 3'x3' depth un	Continuey part printed	
- an cone part 3x3 depth un	Konst not punted	55
a compact ix		
21203 I 95 NB (Ste 18)		PH T
- orange paint 2.3 = an XRT	NO ACCESS	PHI
	an Braye core in	CLP
	tence x	ND
	2	WO km
((+ 1))		
1204 ()·le (1)		
XRF = 0.02 + 6.01 green paint		
3x3 canc bese definition perpet	a top both sides plate just h	5/
of the state of th	7 /,	
suspect makenul (no Acress. painter	I colowes + overhead. Note	end
XRF = 0.02 + 8.01 green paint 3×3' conc base of 10 year except suspect makenal (no Acress, painter	of colours of overhead. Not	end



SHEET	NO. 4 OF 4
PROJE	CCT NO
DATE	03/01/16,-03/02/16
ву	HH + MS

Results you can rely on SUBJECT CT-WT RESIGNING EX85-RI(1.95) CHK'D			
			10
1421206 (Sile 13)			100
- Exit 90 785 NB -NO parat @ all			NO KRE
- bise 3'x3' cone, unpainted	NG	-	Aun
- It (gray) caelle e base support			-
			A personal
1 21205 7:95 BB (S.t.e 12)			Ph
XRF = "3 + blue paint"		140	TUP
No suspect scur			XRF
	p. 1		MACIN
03/02/16	<u> </u>	-	
#21286 183495 (Site 18).			Total
		24	TRIO
Column court & Silver/gray supports + overfrend painted			xef
Acus coult on 1x1" base gray	1	les -	Ran
			1
#21294 (Ste 22)			(fh)
XRF = 4,2 + Silver/gray supports + over head painford		1.1	TUP,
= column support 8'x2' uppainted come, top dopth unknown			xnf
= colinin support 8'x2' uppainted conc. top dopth unknown Acm Carle on 1x1 base gray		Yes-	Hem
			7
1 1/2/22 (Site 20)			Ph
Column support exa unponted conc pad top 8'x2' depth unk ALM could on 1x1' base gray		81 -	Tar
Column support 8x2 unpented and pad top 8x2 depth unk	ncern	. /	Acres
HUM call on 1x1 base gray		Yes -	Hem
#21291 (Sile 19)			H
	Tup	-157	
Same @ 21292		- Ac	
	MC S	100	

Project No. 172-342

I-95 NB & SB Corridor Resigning
Towns of Groton, Stonington, and North Stonington

Project Description

The project involves replacing and relocating existing overhead and side mounted signs, supports, and foundations on Interstate 95 (I-95) Northbound (NB) and Southbound (SB). The project includes entrance and exit ramps and begins at the Gold Star Bridge (approximate mile point 94.29) and extends to the Connecticut – Rhode Island border (approximate mile point 111.57). The project limits encompass the below Towns.

- Town of Groton
- · Town of Stonington
- Town of North Stonington

The scope of the project involves the replacement of only those signs that have exceeded their useful service life, have less than adequate retroreflectivity, as well as those locations that have evidence of sign or sign support damage. Occasionally new sign legends are also being added to the corridor as required based on engineering judgment. Excluded from this project are signs that have been recently replaced by other roadway construction projects, as well as signs that are scheduled to be replaced in the near future under other various construction projects. The project also proposes to replace any existing sign support that is deemed "structurally deficient" by the Bridge Safety and Evaluation Unit. It is also of note that certain sign supports, even though they are structurally sufficient, may need to be replaced due to new sign sizing requirements applicable to newly installed signs set by the Manual on Uniform Traffic Control Devices (MUTCD) 2009 Edition.

APPROXIMATE SITE LOCATION (III) Survey (III) (II

PROJECT 172-324 LIST OF OVERHEAD SIGN SUPPORT REMOVAL SITES - PAGE 1

(type of coating on existing supports as stated in bridge safety inspection report)

SITE NO.	TOWN/CITY	ROUTE	MILEAGE	SUPPORT NO.	TYPE OF COATING	YEAR BUILT
1	GROTON	US 1 NB	102.28	21193	PAINT GALVANIZED GOATING	UNKNOWN
2	GROTON	95 NB	95.05	21194	GALVANIZED COATING	1990
3	GROTON	184 EB	0.10	21195	PAINT GALVANIZED COATING	1990
4	GROTON	95 NB	. 95.23	21197	PAINT GALVANIZED COATING	1990
ro.	GROTON	95 NB	95.69	21198	PAINT GALVANIZED COATING	1990
9	GROTON	95 NB	98.64	21199*	PAINT	1990
7	GROTON	95 NB	98.96	21200**	PAINT GALVANIZED COATING	1990
∞	GROTON	95 NB	99.29	21201A*	PAINT	1990
თ	GROTON	95 NB	99.29	212018*	PAINT	1990

PROJECT 172-324 LIST OF OVERHEAD SIGN SUPPORT REMOVAL SITES - PAGE 2

(type of coating on existing supports as stated in bridge safety inspection report)

SITE NO.	TOWN/CITY	ROUTE	MILEAGE	SUPPORT NO.	TYPE OF COATING	YEAR BUILT
10	GROTON	95 NB	100.07	21203*	PAINT	1990
11	GROTON	95 NB	100.48	21204	PAINT GALVANIZED COATING	1990
12	STONINGTON	95 SB 5	103.50	21205*	PAINT	UNKNOWN
13	STONINGTON	95 NB	EXIT-90 RAMP	21206	HOT-DIPPED GALVANIZED COATING	UNKNOWN
14	GROTON	95 SB 6	97.21	21209	HOT-DIPPED GALVANIZED COATING	UNKNOWN
15	GROTON	95 SB S	96.71	21210	PAINT GALVANIZED COATING	UNKNOWN
16	GROTON	95.SB 5	95.92	21212	PAINT GALVANIZED COATING	1990
17	GROTON	95 SB S	95.12	21214**	GALVANIZED COATING	UNKNOWN
18	GROTON	349 SB S	3.65.	21288	GALVANIZED COATING	UNKNOWN

PROJECT 172-324 LIST OF OVERHEAD SIGN SUPPORT REMOVAL SITES - PAGE 3

(type of coating on existing supports as stated in bridge safety inspection report)

	SITE NO	VIOLAMOT	THICO	1000	Old Traccadilio		
	SHE INC.	i Owny Citt	NOOIE	INIFERGE	SOFFORI NO.	1	YEAR BUILI
-	19	GROTON	349 NB	3.2	21291	GALVANIZED	1990
	20	GROTON	349 NB	3.38	21292	PAINT GALVANIZED COATING	1990
1	21	GROTON	349 NB	3.79	21293	PAINT GALVANIZED COATING	UNKNOWN
1	22	GROTON	349 SB S	3,4	21294	PAINT GALVANIZED COATING	UNKNOWN
4	23	GROTON	184 WB	0.41	21954**	HOT-DIPPED GALVANIZED COATING	2002

* = BRIDGE MOUNTED ** = CANTILEVER



PHOTO 1 Site No. 1 – Sign Support No. 21193



PHOTO 2
Site No. 2 – Sign Support No. 21194





PHOTO 3
Site No. 3 – Sign Support No. 21195



PHOTO 4
Site No. 4 – Sign Support No. 21197





PHOTO 5
Site No. 5 – Sign Support No. 21198



PHOTO 6
Site No. 6 – Sign Support No. 21199





PHOTO 7
Site No. 7 – Sign Support No. 21200



PHOTO 8Site No. 8/9 – Sign Support Nos. 21201A & 21201B





PHOTO 9
Site No. 10 – Sign Support No. 21203



PHOTO 10 Site No. 11 – Sign Support No. 21204





PHOTO 11 Site No. 12 – Sign Support No. 21205



PHOTO 12 Site No. 13 – Sign Support No. 21206





PHOTO 13 Site No. 14 – Sign Support No. 21209



PHOTO 14 Site No. 15 – Sign Support No. 21210





PHOTO 15 Site No. 16 – Sign Support No. 21212



PHOTO 16 Site No. 17 – Sign Support No. 21214





PHOTO 17 Site No. 18 – Sign Support No. 21288



PHOTO 18 Site No. 19 – Sign Support No. 21291





PHOTO 19 Site No. 20 – Sign Support No. 21292



PHOTO 20 Site No. 21 – Sign Support No. 21293





PHOTO 21 Site No. 22 – Sign Support No. 21294



PHOTO 22 Site No. 23 – Sign Support No. 21954

