



21 Griffin Road North  
Windsor, CT 06095

860.298.9692 PHONE  
860.298.6399 FAX

www.TRCSolutions.com

August 31, 2018

Michael Brady  
Close, Jensen and Miller, P.C.  
Liaison Project Engineer  
1137 Silas Deane Highway  
Wethersfield, CT 06109

Via email: [mbrady@cjmp.com](mailto:mbrady@cjmp.com)

Subject: Hazardous Material Inspection Report for the Replacement of Bridge No. 04744, Town of North Stonington, Connecticut and Westerly, Rhode Island.  
TRC Project Number 31004.0001.0000

Dear Michael:

Per your request, TRC performed a limited Hazardous Material Inspection on Bridge 04744, Boom Bridge Road over the Pawcatuck River located in the towns of North Stonington, Connecticut and Westerly, Rhode Island. TRC's Thomas Martin, a Connecticut and Rhode Island licensed Asbestos inspector, along with Tyler MacGillivray, performed the Hazardous Material Inspection on August 13, 2018 prior to the planned demolition/replacement of Bridge 04744.

**ASBESTOS CONTAINING MATERIALS**

Asbestos bulk sampling was not performed. The inspector did not observe any suspect materials in accessible area at the time of the assessment. These areas include the topside of the roadway, underneath the roadway, piers and abutments. However, there is always potential for materials to be uncovered during demolition of the structure that would need to be sampled and analyzed for asbestos content. These materials, if found, should be assumed to contain asbestos until analysis proves otherwise. See the table below for potential inaccessible, assumed materials.

**Assumed Asbestos Containing Materials Table**

Material	Sample Location
Waterproofing/Tar	Sub-surface-Abutments
Vapor Barrier/Tar Paper	Sub-surface-Abutments
Caulks/Expansion Joint Materials	Sub-surface-Abutments

### **LEAD PAINT SAMPLING**

The Lead Based Paint (LBP) inspection of the bridge components was conducted by utilizing an on-site Niton X-Ray Fluorescence (XRF) spectrum analyzer. The Niton detector is a portable unit designed to make fast, accurate, non-destructive measurements of lead concentrations in dry painted surfaces with a detection limit down to 0.1 mg/cm<sup>2</sup>. Representative measurements of the painted bridge components scheduled for impact by the rehabilitation were conducted to determine the general presence of any detectable levels of lead in paint ( $\geq 0.1$  mg/cm<sup>2</sup> via XRF).

Elevated levels ( $>1.0$  mg/cm<sup>2</sup>) of lead were identified in the grey/orange paint coating the metal structural components (girders, crossbeams, rocker bearings) of the bridge structure and the grey paint coating the metal railing system components (balusters, railing, support posts). The grey/orange paint on the corrugated metal decking was identified to contain low levels of lead paint ( $<1.0$  mg/cm<sup>2</sup>). It should be noted that all non-metallic components of the bridge were not painted. The XRF Measurement Summary Table is attached.

Paint chips were collected to represent the paint waste stream and submitted to CET Laboratories in Stratford, Connecticut for Toxicity Characteristic Leaching Procedure (TCLP) characterization testing for leachable lead to determine if the paint waste generated from the rehabilitation should be disposed of as hazardous or non-hazardous construction waste. TCLP analysis indicates that paint waste stream from the bridge is considered EPA RCRA/CTDEEP Lead hazardous waste. TCLP sample results are summarized in the table below.

Accumulations of loose paint chips from the deteriorated lead containing painted surfaces of the metal bridge components were observed on surfaces below the painted components

#### **Summary of Paint Debris Waste Characterization**

<b>Waste Stream</b>	<b>Lead Leachate (mg/L)</b>	<b>Hazardous/Non-Hazardous</b>
Paint on Metal Surfaces	270	<b>EPA RCRA/CTDEEP Hazardous Waste</b>

### **BIOLOGICAL HAZARDS, GUANO AND HAZARODOUS/REGULATED ITEMS**

Accumulations of bird/pigeon guano, biological hazards and other regulated items (bulbs, ballasts, electronics, batteries etc.) were not observed during the inspection.

Enclosed please find the inspector's notes/sketches, XRF Measurement Summary Table, TCLP analytical data, chains of custody data, laboratory analytical certifications, TRC inspector certifications and a project description.



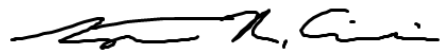
If you have any questions, please call me directly at (860) 817-2413.

Very Truly Yours,

**TRC Environmental**



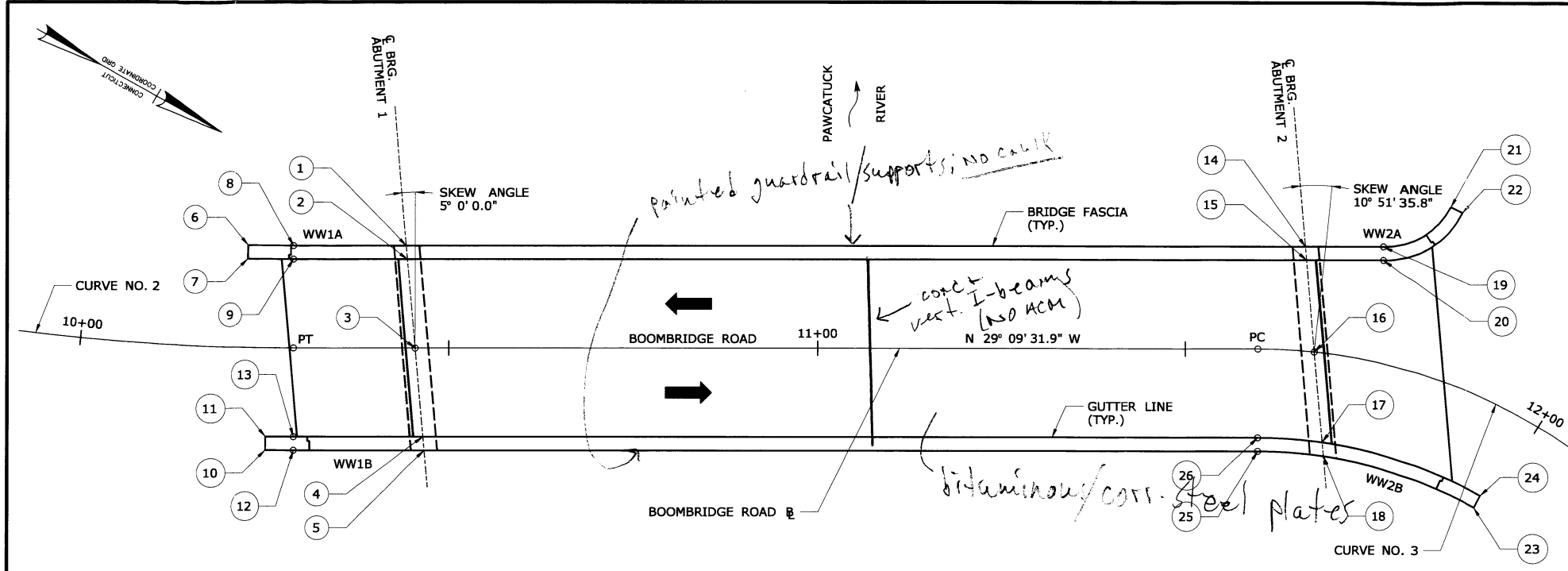
Michael Kostruba, CSP, CHMM  
Project Manager



Steven Arienti, CHMM  
Senior Project Manager

## **INSPECTOR NOTES/SKETCHES**



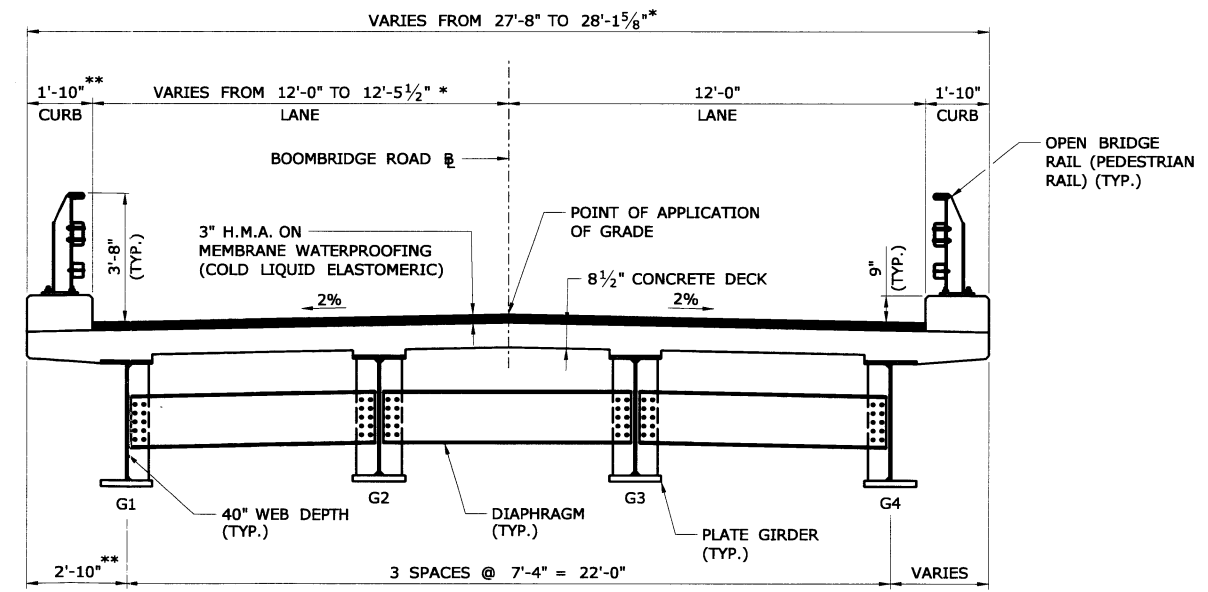


NOTE:  
1. FOR CURVE DATA, SEE DWG. "GENERAL PLAN AND ELEVATION."

**LAYOUT PLAN**  
SCALE: 1" = 10'

\* NO susp ACM\*

WORKING POINT COORDINATES			
POINT	WORKING POINT LOCATION	NORTHING	EASTING
1	☉ BEARING ABUTMENT 1 AND LEFT FASCIA	714,147.313	1,254,146.836
2	☉ BEARING ABUTMENT 1 AND LEFT GUTTER LINE	714,148.346	1,254,148.359
3	☉ BEARING ABUTMENT 1 AND BOOMBRIDGE ROAD BASELINE	714,155.110	1,254,158.327
4	☉ BEARING ABUTMENT 1 AND RIGHT GUTTER LINE	714,161.873	1,254,168.294
5	☉ BEARING ABUTMENT 1 AND RIGHT FASCIA	714,162.907	1,254,169.817
6	END OF WINGWALL 1A - OUTSIDE FACE	714,128.280	1,254,157.375
7	END OF WINGWALL 1A - GUTTER LINE	714,129.137	1,254,158.996
8	WINGWALL 1A PT - OUTSIDE FACE	714,133.833	1,254,154.357
9	WINGWALL 1A PT - GUTTER LINE	714,134.726	1,254,155.958
10	END OF WINGWALL 1B - OUTSIDE FACE	714,143.895	1,254,180.397
11	END OF WINGWALL 1B - GUTTER LINE	714,143.022	1,254,178.785
12	WINGWALL 1B PT - OUTSIDE FACE	714,147.313	1,254,178.518
13	WINGWALL 1B PT - GUTTER LINE	714,146.419	1,254,176.917
14	☉ BEARING ABUTMENT 2 AND LEFT FASCIA	714,253.852	1,254,087.394
15	☉ BEARING ABUTMENT 2 AND LEFT GUTTER LINE	714,254.885	1,254,088.917
16	☉ BEARING ABUTMENT 2 AND BOOMBRIDGE ROAD BASELINE	714,261.870	1,254,099.210
17	☉ BEARING ABUTMENT 2 AND RIGHT GUTTER LINE	714,268.755	1,254,109.356
18	☉ BEARING ABUTMENT 2 AND RIGHT FASCIA	714,269.812	1,254,110.914
19	WINGWALL 2A PC - OUTSIDE FACE	714,263.246	1,254,082.153
20	WINGWALL 2A PC - GUTTER LINE	714,264.139	1,254,083.754
21	END OF WINGWALL 2A - OUTSIDE FACE	714,268.366	1,254,073.039
22	END OF WINGWALL 2A - INSIDE FACE	714,270.198	1,254,072.969
23	END OF WINGWALL 2B - OUTSIDE FACE	714,291.133	1,254,106.928
24	END OF WINGWALL 2B - GUTTER LINE	714,291.121	1,254,105.095
25	RIGHT FASCIA PC	714,261.732	1,254,114.679
26	RIGHT GUTTER LINE PC	714,260.839	1,254,113.078



\* MEASURED RADIAL TO ☉  
\*\* MEASURED PERPENDICULAR TO ☉ GIRDERS

**TYPICAL BRIDGE SECTION**  
(FROM STA. 10+45.50 TO STA. 11+67.55)  
SCALE: 3/8" = 1'-0"

**FINAL DESIGN REVIEW**

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 1/25/2018	DESIGNER/DRAFTER: <b>HB/CD</b>	<b>STATE OF CONNECTICUT</b> <b>DEPARTMENT OF TRANSPORTATION</b>	SIGNATURE/ BLOCK:	530 PRESTON AVENUE MERIDEN, CT 06450	PROJECT TITLE: <b>REPLACEMENT OF BR. NO. 04744</b> <b>BOOMBRIDGE ROAD</b> <b>OVER PAWCATUCK RIVER</b>	TOWN: <b>NORTH STONINGTON, CT</b> <b>WESTERLY, RI</b>	PROJECT NO. <b>101-112</b>
	CHECKED BY: <b>DRC</b>						
REV. DATE      REVISION DESCRIPTION      SHEET NO.	Filename: ...\\Sb_msh..Br04744..101..0112..LAYOUT.dgn						

## **XRF LEAD PAINT MEASUREMENTS TABLE**



## Lead Based Paint Measurement Summary Table

Device(s) : Niton XLP301-A (Serial #24792) X Ray Fluorescence (XRF) Spectrum Analyzer  
 Client : Close, Jensen, Miller  
 Site : Boom Bridge Rd., Bridge 04744  
 Project # : 313004.0001.0000  
 Date(s) : 8/13/2018  
 Inspector : Tom Martin (CT License # 002079)

Number	Interior/ Exterior	Floor	Room	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm <sup>2</sup> )	Precision (mg/cm <sup>2</sup> )	Depth Index	Duration (sec)	Date/Time
5		Shutter Calibration								2.9	0.0		108.05	8/13/2018 9:25
6		Calibration-0.0								0.0	0.0	1.0	1.91	8/13/2018 9:28
7		Calibration-1.5								1.6	0.3	1.16	3.19	8/13/2018 9:28
8		Calibration-3.5								3.5	0.3	1.26	3.83	8/13/2018 9:28
9	Exterior	NA	Under Side	North	Girder		Metal	Rust	Defective	12.7	3.9	1.95	2.35	8/13/2018 9:33
10	Exterior	NA	Under Side	North	Girder		Metal	Rust	Defective	17.7	2.3	2.11	3.83	8/13/2018 9:34
11	Exterior	NA	Under Side	North	Girder		Metal	Rust	Defective	18.2	5.7	2.02	1.7	8/13/2018 9:35
12	Exterior	NA	Under Side	North	Corrugated Panel		Metal	Rust	Defective	0.3	0.4	5.85	3.2	8/13/2018 9:38
13	Exterior	NA	Under Side	North	Corrugated Panel		Metal	Grey	Defective	0.2	0.2	3.33	3.2	8/13/2018 9:39
14	Exterior	NA	Under Side	South	Support Blocks		Metal	Grey	Defective	3.1	0.6	1.59	2.56	8/13/2018 9:41
15	Exterior	NA	Under Side	South	Guardrail Support		Metal	Grey	Defective	1.1	0.3	1.54	3.18	8/13/2018 9:43
16	Exterior	NA	Under Side	South	Guardrail Support		Metal	Grey	Defective	1.0	0.1	1.49	5.09	8/13/2018 9:43
17	Exterior	NA	Under Side	South	Guardrail Support		Metal	Grey	Defective	2.9	0.5	1.76	2.98	8/13/2018 9:43
18	Exterior	NA	Under Side	North	Guardrail Support		Metal	Grey	Defective	2.6	0.5	1.6	2.55	8/13/2018 9:45
19	Exterior	NA	Top Side	North	Guardrail		Metal	Grey	Defective	0.1	0.1	5.87	5.54	8/13/2018 9:46
20	Exterior	NA	Top Side	North	Guardrail		Metal	Grey	Defective	0.3	0.3	4.12	3.2	8/13/2018 9:47
21	Exterior	NA	Top Side	North	Guardrail		Metal	Grey	Defective	1.3	1.4	1.4	0.21	8/13/2018 9:47
22	Exterior	NA	Top Side	North	Guardrail		Metal	Grey	Defective	1.4	0.2	1.48	3.41	8/13/2018 9:47
23	Exterior	NA	Top Side	North	Guardrail		Metal	Grey	Defective	1.2	0.1	1.23	6.6	8/13/2018 9:47
24	Exterior	NA	Top Side	South	Guardrail		Metal	Grey	Defective	2.4	0.3	1.51	3.82	8/13/2018 9:48
25	Exterior	NA	Top Side	South	Guardrail		Metal	Grey	Defective	0.2	0.1	1.89	4.49	8/13/2018 9:49
26	Exterior	NA	Underside	South	Corrugated Panel		Metal	Grey	Defective	0.4	0.4	6.03	3.63	8/13/2018 9:58
27	Exterior	NA	Underside	South	Girder Connection		Metal	Grey	Defective	0.0	0.0	2.4	2.56	8/13/2018 9:59
28		Calibration-0.0								0.0	0.0	1.0	1.7	8/13/2018 10:01
29		Calibration-1.5								1.5	0.2	1.12	4.25	8/13/2018 10:01
30		Calibration-3.5								3.4	0.3	1.25	4.26	8/13/2018 10:02
31		Calibration-3.5								3.5	0.7	1.28	1.93	8/13/2018 10:02

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

# **LABORATORY ANALYTICAL REPORTS**

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

# Analytical Report

## CET# 8080377



Report Date: August 17, 2018  
Project: Close, Jensen and Miller, P.C. Bridge, Stonington

Connecticut Laboratory Certificate: PH 0116  
Massachusetts Laboratory Certificate: M-CT903  
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982  
Pennsylvania Certificate: 68-02927

CET #: 8080377

Project: Close, Jensen and Miller, P.C. Bridge, Stonington

**SAMPLE SUMMARY**

The sample(s) were received at 25.5°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
Bridge 04744	8080377-01	Paint Chip	8/13/2018 9:02	08/14/2018

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

**Analyst: CED**

**Prep: EPA 3005A-1311**

**Matrix: Extract**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
8080377-01	Bridge 04744	<b>270</b>	0.013	mg/L	1	B8H1722	08/17/2018	08/17/2018 14:45	

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 Robert Blake



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 #: 8080377

Project: Close, Jensen and Miller, P.C. Bridge, Stonington

**CERTIFICATIONS**

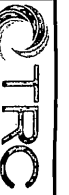
**Certified Analyses included in this Report**

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

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2018





8080377

Edition: November 2013  
Supersede Previous Edition

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

### TCLP CHAIN OF CUSTODY

LAB ID #:

PROJECT NUMBER

PROJECT NAME

Close, Jensen and Miller, P.C.  
Bridge # 04744, Stonington, CT

#### PARAMETERS

#### TURNAROUND TIME

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

INSPECTOR: (SIGNATURE)

(PRINTED)

Tom Martin

*Tom Martin*

FIELD SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION	RCRA Pb	RCRA Pb, AS, CR, CD	8 RCRA Metals	TCLP Pb	SPLP Pb	MATERIAL
			COMP	GRAB							
TCLP - 01	8/13/18	0902			Bridge #04744				X		Paint on steel bridge components

Relinquished by: (Signature)

Date: 8/13/18

Received by: (Signature)

Relinquished by: (Signature)

Date: 8/14/18

Received by: (Signature)

*Tom Martin*

Time: 1414

(Printed)

(Printed)

Time: 10:37

(Printed)

Tom Martin

Time: 1414

(Printed)

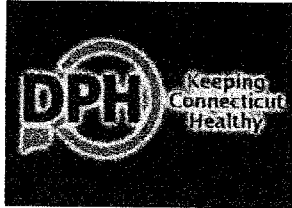
(Printed)

Time: 10:37

(Printed)

Results to Steve Arienti(SArienti@TRCSolutions.com)

## **LABORATORY CERTIFICATIONS**



# STATE OF CONNECTICUT

## DEPARTMENT OF PUBLIC HEALTH ENVIRONMENTAL HEALTH SECTION

### ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM CERTIFIED ANALYTES REPORT FOR ALL MATRICES

### Complete Environmental Testing, Inc.

80 LUPES DRIVE  
STRATFORD, CT 06615

CT REGISTRATION NUMBER :

REGISTERED OWNER / AUTHORIZED AGENT : David Ditta

DIRECTOR : David Ditta

CO DIRECTOR(S) : Timothy Fusco

PHONE : (203) 377-9984

LABORATORY REGISTRATION EFFECTIVE DATE :

LABORATORY REGISTRATION EXPIRATION DATE :

LABORATORY STATUS :

APPROVED BY

SUZANNE BLANCAFLOR, MS, MPH  
CHIEF, ENVIRONMENTAL HEALTH SECTION

REVIEWED BY

  
DERMOT JONES

9/13/2016 11:44:26 AM

ANY QUESTIONS CONCERNING THIS DOCUMENT SHOULD BE ADDRESSED TO THE  
ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM AT (860) 509-7389

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# DRINKING WATER (SDWA)

STATUS REPORTED ON 9/13/2016

---

## ANALYTE NAME

---

### MICROBIOLOGY/BACTERIA

E. COLI - COLILERT (SM9223 P/A)

TOT COLIFORM - COLILERT (SM9223 P/A)

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### PHYSICALS

COLOR

CONDUCTIVITY

pH

ODOR

TURBIDITY

---

### MINERALS

ALKALINITY

CHLORIDE

CHLORINE, TOTAL RESIDUAL

HARDNESS, CALCIUM

SILICA

CHLORINE, FREE RESIDUAL

FLUORIDE

HARDNESS, TOTAL

SULFATE

---

### NUTRIENTS

AMMONIA

NITRATE

O-PHOSPHATE

NITRITE

TOTAL PHOSPHOROUS

---

### METALS

ALUMINUM

ANTIMONY

BARIUM

BORON

CALCIUM

COPPER

LEAD

MANGANESE

MOLYBDENUM

POTASSIUM

SILVER

THALLIUM

ZINC

ARSENIC

BERYLLIUM

CADMIUM

CHROMIUM

IRON

MAGNESIUM

MERCURY

NICKEL

SELENIUM

SODIUM

VANADIUM

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### RESIDUE

TOTAL DISSOLVED SOLIDS

TOTAL RESIDUE (SOLIDS)



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# NON-POTABLE WATER/ WASTEWATER (CWA)

STATUS REPORTED ON 9/13/2016

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## ANALYTE NAME

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### PHYSICALS

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COLOR	CONDUCTIVITY
pH	TURBIDITY

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### MINERALS

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ACIDITY	
ALKALINITY	CHLORIDE
CHLORINE, TOTAL & FREE RESIDUAL	FLUORIDE
HARDNESS, CALCIUM	HARDNESS, TOTAL
SILICA	SULFATE
SULFIDE	

---

### NUTRIENTS

---

AMMONIA	KJELDAHL NITROGEN
NITRATE	NITRITE
O-PHOSPHATE	TOTAL PHOSPHOROUS

---

### METALS

---

ALUMINUM	ANTIMONY
ARSENIC	BARIUM
BERYLLIUM	BORON
CADMIUM	CALCIUM
CHROMIUM	CHROMIUM - Hexavalent
COBALT	COPPER
IRON	LEAD
MAGNESIUM	MANGANESE
MERCURY	MOLYBDENUM
NICKEL	POTASSIUM
SELENIUM	SILVER
SODIUM	STRONTIUM
THALLIUM	TIN
TITANIUM	VANADIUM
ZINC	

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### RESIDUE

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TOTAL DISSOLVED SOLIDS	TOTAL RESIDUE (SOLIDS)
TOTAL SUSPENDED SOLIDS	TOTAL VOLATILE RESIDUE

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**SOLVENTS**

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CT Extractable Petroleum Hydrocarbons (ETPH)	MA Extractable Petroleum Hydrocarbons (EPH)
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**HERBICIDES**

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2,4,5-T	2,4,5-TP (SILVEX)
2,4-D	2,4-DB
4-NITROPHENOL (Herbicide)	DALAPON
DICAMBA	DICHLOROPROP
DINOSEB	PENTACHLOROPHENOL (Herbicide)

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**TRIAZINE PESTICIDES**

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ALACHLOR	ATRAZINE
SIMAZINE	

---

**RCRA (SW-846) ORGANICS**

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ACID EXTRACTABLES (PHENOLS) (SW 8270)	
BENZIDINES (SW 8270)	CHLORINATED HYDROCARBONS (SW 8270)
HALOETHERS (SW 8270)	NITROAROMATICS & CYCLIC KETONES (SW 8270)
NITROSOAMINES (SW 8270)	PAH's (SW 8270)
PHTHALATES (SW 8270)	VOLATILE ORGANICS (SW 8260)

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**ENVIRONMENTAL HEALTH & HOUSING**

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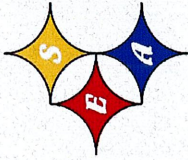
LEAD (PAINT) IN SOIL	
LEAD IN DUST WIPES	LEAD IN PAINT

**Report Profile:** Lab Name : Complete Environmental Testing, Inc.  
Test Name : \*  
Matrix Name : \*  
Matrix Selection = ALL OR SOME MATRICES SELECTED  
Certifications approved or provisional on 9/13/2016

THIS IS THE LAST PAGE OF THE REPORT

## **TRC WORKER CERTIFICATIONS**





**SPECTRUM**  
**Environmental Associates, Inc.**  
*EXCEEDING OUR CLIENTS EXPECTATIONS OF EXCELLENCE\**

P. O. Box 1024  
Schenectady, NY 12301  
(518) 346-6374 (Phone)  
(518) 346-4062 (Fax)  
www.4spectrum.com

*This is to certify that*

**Thomas J Martin**

Social Security #: XXX-XX-3014

*Has Successfully Completed The:*

***Asbestos Inspector Refresher Course***  
**Also satisfies the N.Y.S.D.O.H. Inspector Refresher Requirements**

This course is EPA and New York State Department Of Health approved pursuant to Article 30, Section 905 of the New York State Labor Law as required under Title 10, Chapter 11, Subchapter H, Part 73 NYSCRR.

The DOH 2832 certificate issued is the official record of this training course.

88

**Exam Score**

12/14/2017

**Exam Date**

796863

**DOH 2832**

**Certificate Number**

*Donald A Trischett*

Donald Trischett, Instructor

William Massmann  
Director of Training





Rhode Island Department of Health  
Asbestos Program  
Asbestos Inspector

THOMAS MARTIN

Exp. Date: 07/25/2019  
License #: AAC-0870

Member of C.O.N.E.S.





# CERTIFICATE OF ACHIEVEMENT

*This certifies that*

**Tom Martin**

*16 Old River Road, Willington, CT 06279*

*has successfully completed the*  
**EPA Model Lead Inspector Technician Refresher Training**

**745.225**

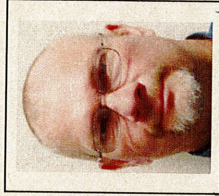
*conducted by*

*ATC Group Services LLC*

*73 William Franks Drive*

*West Springfield, MA 01089*

*(413) 781-0070*



*Gregory Morsch*

*Regional Training Director: Gregory Morsch*

*ELIR-364*

*Certificate Number*

*Neal S. Freuden*

*Principal Instructor: Neal Freuden*

*January 19, 2018*

*Date of Course*

*January 19, 2018*

*Exam Date*



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Dear THOMAS J. MARTIN,

Attached you will find your validated certificate for the coming year. Should you have any questions about your certificate renewal, please do not hesitate to write or call:

Department of Public Health  
P.O. Box 340308  
M.S.#12MQA  
Hartford, CT 06134-0308

(860) 509-7603  
opl.c.dph@ct.gov  
www.ct.gov/dph/license

Sincerely,

RAUL PINO, MD, MPH, COMMISSIONER  
DEPARTMENT OF PUBLIC HEALTH

**EMPLOYER'S COPY**

**STATE OF CONNECTICUT  
DEPARTMENT OF PUBLIC HEALTH**

NAME  
**THOMAS J. MARTIN**

VALIDATION NO. <b>03-655691</b>	CERTIFICATE NO. <b>002079</b>	CURRENT THROUGH <b>02/28/19</b>
PROFESSION <b>LEAD INSPECTOR</b>		

SIGNATURE

COMMISSIONER

**STATE OF CONNECTICUT  
DEPARTMENT OF PUBLIC HEALTH**

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED  
BY THIS DEPARTMENT AS A  
**LEAD INSPECTOR**

CERTIFICATE NO.

**INSTRUCTIONS:**

1. Detach and sign each of the cards on this form
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.
4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.



## **PROJECT DESCRIPTION**

**Federal Local Bridge Program**  
**Federal-aid Project # (Design): 6101(001)**  
**State Project # (Design and Construction): 101-112**  
**Replacement of Bridge No. 04744**  
**Boom Bridge Road over the Pawcatuck River**  
**Towns of North Stonington, CT and Westerly, RI**

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## **PROJECT DESCRIPTION**

Bridge No. 04744 carries Boom Bridge Road over the Pawcatuck River at the North Stonington, CT / Westerly, RI town and state line. It was built in 1968 to carry two lanes (one lane each direction) of Boom Bridge Road traffic. The bridge is situated on a horizontal tangent alignment. Immediately north of the bridge, the roadway curves sharply ( $90^\circ \pm$ ) to the east, while the roadway south of the bridge is on a less severe curvilinear alignment proceeding to the west. The structure forms the summit of a crest vertical curve, which is adjoined by sag vertical curves on both the north and south roadway approaches.

The two-span bridge has a total length and width measuring 121 feet and 24 feet, respectively. Each of the two equal-length simple spans of the superstructure consists of steel rolled beams that carry bituminous concrete-filled corrugated steel decking. The bridge railing is comprised of metal beam railing mounted on steel posts attached to brackets at the fascia beams. The deck width between rail faces is 23.5 feet, and there are no sidewalks along either the bridge or the roadway approaches. The substructure consists of reinforced concrete stub abutments and a center pier. The abutments are founded on spread footings and are flanked by stone masonry U-shaped wingwalls. The pier is a bent comprised of steel piles and a reinforced concrete cap. Overhead utility wires cross the bridge above its east side. No other utilities are known to be present at the bridge crossing.

The Boom Bridge Road Bridge is structurally deficient due to its Deck Condition Rating of 4 (Poor) and its Superstructure Condition Rating of 2 (Critical). The bituminous concrete is cracked and broken up with random patches and a few potholes that have left the underlying corrugated metal decking exposed. The visible portions of the decking exhibit moderate to severe laminated rust throughout and random perforations in individual corrugations. The steel beams display extensive areas of severe rust with substantial section losses. The worst of these conditions occurs at the north abutment ends of the beams adjacent to the roadway centerline. Elongated holes in the webs of these beam ends have caused web crippling at the bearings. The rest of the beam ends contain up to 56 percent loss of web section, and the beams in critical bending regions contain bottom and top flange section losses up to 27 percent and 51 percent, respectively. While the structure once carried an estimated Average Daily Traffic volume of 450 vehicles, the severe superstructure steel deterioration has resulted in the bridge being closed since 2008. The substructure, although in overall fair condition, contains noteworthy defects consisting of isolated exposure of the abutment footings and moderate to heavy pier pile rusting with section losses.

The proposed construction involves complete replacement of the bridge with a 122-foot long single-span structure. The replacement bridge will consist of a composite cast-in-place reinforced concrete / steel plate girder superstructure on pile-supported reinforced concrete integral abutments. The new bridge will be constructed on the existing horizontal alignment, with the new abutments positioned at approximately the same locations as the existing abutments. Due to the increased superstructure depth associated with replacing the two-span existing bridge with the single-span proposed bridge of similar total length, the profile will be raised approximately 3 feet at each end of the structure. The new bridge will feature a 24-foot wide curb-to-curb roadway overlain with bituminous concrete on membrane waterproofing and open metal bridge railing along both sides. The proposed roadway profile elevation increase at the bridge necessitates roadway reconstruction to approximately 250 feet both north and south of the bridge. Proposed roadway work includes full-depth pavement reconstruction, drainage system improvements and the installation of crashworthy guide railing at the four corners of the bridge.

Boom Bridge Road will remain closed to through traffic during replacement of the bridge. Minor adjustments to the overhead utilities will be required to facilitate the proposed construction.