

May 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: Jason Coite, P.E. / Stephen Clout
Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance Agreement No.: 8.07-01 (18) HazMat Inspection - Bridge No. 00980B, I-84 TR -826 WB at Exit 51 over Connecticut River, Hartford, CT ConnDOT Assignment No. 519-5929

Dear Mr. Fox:

TRC performed a limited survey for hazardous building materials associated with the rehabilitation of Bridge No. 00980B, I-84 TR -826 WB at Exit 51 over Connecticut River in Hartford, Connecticut. Results of the survey identified lead paint to be present on the structural steel/metal bridge components of Bridge No. 00980B. Results obtained from TCLP waste stream sampling and analysis for leachable lead from the paint on the structural steel/metal bridge components characterized the paint waste stream at Bridge No. 00980B as CTDEEP/RCRA hazardous waste. Grey/white barrier seam caulk, black curb seam caulk, red pipe seam caulk and black road tar were sampled and found to be non-detect for asbestos. Bloodborne pathogens (BBP) concerns (homeless activity, human feces, etc.) were identified at Bridge No. 00980B. No bird/pigeon guano accumulations or other hazardous/regulated items were identified. Associated laboratory data, TRC Mobile Data Solutions report and project site map are attached.

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

ConnDOT Project No. 63-712 TRC Project No. 289951.5929.0710

Very Truly Yours,

TRC

- R. G.

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

Jent RM

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

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TRC

Lead Based Paint Measurement Summary Table

Device(s): Niton XLP301-A (Serial #25555) X Ray Fluorescence (XRF) Spectrum Analyzer Site: Bridge No. 00980B, Hartford, CT Project #: 289951.5929.0710 Date(s): 4/19/2019 Inspectors: Hilton Hernandez

Number	Interior/ Exterior	Location	Bridge No.	Side	Structure	Feature	Material	Color	Condition	Reading (md/cm ²)	Precision	Depth	Duration (sec)	Date/Time
-			Self Calibration								1 1112/6111	YAD	Innel	
c													92.3	4/19/2019 9:39
v c			3.6 Calibration							3.7	0.4	1.3	4.0	4/19/2019 9:43
n .			1.6 Calibration							1.7	0.1	1.2	10.2	4/19/2019 9:44
			0.3 Calibration							0.3	0.1	11	22	4/19/2019 9:44
	Exterior	Hartford	Bridge No. 00980B	West	Railing	Stand	Metal	Grey	Intact	6.7	1.5	2.6	995	4/19/2019 10-21
9	Exterior	Hartford	Bridge No. 00980B	West	Railing	Stand	Metal	Grev	Intact	11.8	4.4	32	2.5	4/19/2019 10:22
	Exterior	Hartford	Bridge No. 00980B	West	Railing	Rail	Metal	Grev	Intact	9.3	1.4	10	7 1	4/19/2010 10:22
	Exterior	Hartford	Bridge No. 00980B	West	Railing	Rail	Metal	Grey	Intact	13.4	1.7	23	9.5	4/19/2019 10:22
	Exterior	Hartford	Bridge No. 00980B	East	Railing	Rail	Metal	Grev	Intact	4.6	0.5	24	6.9	4/19/2019 10:20
10	Exterior	Hartford	Bridge No. 00980B	East	Railing	Rail	Metal	Grev	Intact	10.6	1.2	6	9.6	4/19/2010 10:25
-	Exterior	Hartford	Bridge No. 00980B	East	Railing	Support	Metal	Grev	Intact	11.7	13	00	σσ	A/10/2010 10:02
12	Exterior	Hartford	Bridge No. 00980B	East	Railing	Support	Metal	Grev	Intact	85	0	1 0	10.0	90-01 0102/01/F
13 E	Exterior	Hartford	Bridge No. 00980B	West	Girders		Metal	Grev	Defective	0.1		2 U	1.7 8 C	1/10/2018 10:02
14	Exterior	Hartford	Bridge No. 00980B	West	Girders		Metal	Grev	Defective	13.4	4.2	0 2		10.11 0102/01/F
15 E	Exterior	Hartford	Bridge No. 00980B	West	Girders		Metal	Grev	Defective	13.8	5.4		0 4	20.11 6102/61/4
16 E	Exterior	Hartford	Bridge No. 00980B	West	Girders		Metal	Grev	Defective	15.8		2.0	л. Т.	4/10/2019 11.02
17			0.0 Calibration					6		00	0.0		- «	4/10/2019 11:02
18			1.6 Calibration							1.6	0.2	12	43	4/19/2019 11:19
19			1.0 Calibration											04.1

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



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

Client:

Mr. Hilton Hernandez TRC Environmental Consultants 21 Griffin Rd., North Windsor, CT 06095

Analytical Report CET# 9040642

Report Date:April 26, 2019 Project: CT DOT, Bridge 00980B Project Number: 289951.5929.0710

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



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

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SAMPLE SUMMARY

The sample(s) were received at 24.4°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
1	9040642-01	Paint Chip	4/19/2019 9:30	04/22/2019

Analyte: TCLP Lead [EPA 6020A]

Prep: EPA 3005A-1311

Analyst: CED

Matrix: Extract

1	Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
	9040642-01	1	150	0.013	mg/L	1	B9D2422	04/24/2019	04/25/2019 12:30	

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

Sincerely,

David Litta

David Ditta Laboratory Director

This technical report was reviewed by Timothy Fusco

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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- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No 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

Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture. All analyses were performed in house unless a Reference Laboratory is listed. Samples will be disposed of 30 days after the report date. CET # : 9040642

Project: CT DOT, Bridge 00980B

Project Number: 289951.5929.0710

	CERTIFICATIONS
Certified Analyses included in this Report	
Analyte	Certifications
EPA 6020A in Water	
Lead	СТ

Complete Environmental Testing operates under the following certifications and accreditations :

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2020

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



BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #:	0053640
Project #:	289951.5929.0710
Date Received:	04/22/2019
Date Analyzed:	04/23/2019

Site: Bridge #00980B, Exit 51, 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/White (seam caulk)	Yes	No			ND	None
2	Grey/White (seam caulk)	Yes	No			ND	None
3	Black (seam caulk)	Yes	No			ND	None
4	Black (seam caulk)	Yes	No			ND	None
5	Red (seam caulk)	Yes	No			ND	None
6	Red (seam caulk)	Yes	No			ND	None
7	Black (tar)	Yes	No			ND	None
8	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, 2019. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2019. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and QC data related to the samples is available upon written request from client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

Villiam Analyzed by: **Reviewed by:**

Kathleen Williamson, Laboratory Manager

Cathryn Lemire, Approved Signatory

Date Issued

04/23/2019

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0 **RI #AAL-007** TX #300354 CO# AL-15020

AIHA-LAP,LLC #100122 CT #PH-0426 VT #AL014538 LA#05011 VA #3333 000283 PHIL# 461 PA#68-03387

ME LA-0075, LB-0071 MA #AA000052 AZ #A20944

HI #L-09-004

NY #10980 WV# LT000411 NJ #CT004 CA #2907

Date: 04/23/19	22	F Cummings	Park, Wobur TEM	e Analytic n, MA 01801 Bulk Chain of	Proscience Analytical Services, Inc. 22 Cummings Park, Woburn, MA 01801 Ph. 781-935-3212 Fax 781-932-4857 TEM Bulk Chain of Custody Record	Inc. Fax 781-932-	4857 4857
PO#:C289951Client:TRCClient Job#:289951.5929.0710Client Job Ref./Loc.:CT DOT- Bridge #00980B, Exit 51,Relinquished by:K. Williamson- KWilliamson@treccoReceived by:R. Williamson- KWilliamson@treccoReceived by:ReveentReport to:E. Plimpton- EPlimpton@trecompanSamplers Name:B. McClure, C. Jacko & H. Hernandd	51 289951.5929.0710 CT DOT- Bridge #00980B, Exit 51, Hartford, CT K. Williamson- KWilliamson@trecompanies.com אריבאר אייל אייל אייל אייל אייל E. Plimpton- <u>Eplimpton@trecompanies.com</u> & SA B. McClure, C. Jacko & H. Hernandez)710 lge #00980B, Ex ריד אלא ארשרי ביד אלא ביבר ביד אלא ביבר ביד ארשרי ביד ארשרי בי ביד ארשרי ביד ארשרי ביד ארשרי ביד ארשרי בי בי בי בי בי בי בי בי בי בי בי בי בי	3, Exit 51, Ha nson@trecom そこ子 ろう <u>Purecompanie</u> f. Hernandez	it 51, Hartford, CT @trecompanies.com ゲ.ンチィタ シ 7.30 <u>ompanies.com</u> & SArier mandez	ati@trccompa	Type:	Chatfield EPA N.O.B Qualitative
Turnaround Time:	<12 Hour		<24 Hour <	<48 Hour <	<3 Day 5 Day	y Other:	er:
							For Lab Use Only
Client ID #	Lab ID#	D#	Desci	Description	Location	Acceptable on Receipt	
	53641	1	Seam	Seam Caulk	See COC		
3	53640	0	Seam	Seam Caulk			
5	53640	0	Seam	Seam Caulk			
L	53640	0	L	Tar			
For Lab Use Only	# Spies	Total	Client #	Batch #	-	Results Reported	Comments

22 Cummings Park 781-935-3212 ~ Fax	22 Cummings Park, Woburn, Massachusetts 01801 781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail general@proscience.net									Lab	-aboratory Report	y Rep	ort
Client Project #: Client Reference: PO #: Client #: Client Name:	289951.5929.0710 CT DOT - Bridge #00980B, Exit 51, Hartford, CT C289951 297 TRC Companies, Inc. (CT)									<u>msooo</u>	Batch: Method: Date Received: Date Analyzed: Date of Report:		NT 17752 NOB 4/24/2019 4/26/2019
LAB ID Field	Field ID Description: Color	r Weight	CHR	AMO %	Asbestos Typ ACT CRO	ő	ANT	% Other TRE Non-asb.	% Other % % Non-asb. Organic Carb.	Carb.	Total % Analyzed / Preped / Ashestos Charged	Analyzed / Charged	Preped / Charged
NT133554 1	Grey/White Barrier Seam Caulk	6028	8	8	00	0,	00 00	0 48.75	33.96	17.29	QN	Yes	ß
NT133555 3	Black Curb Seam Caulk	.1240	8	8	00	00	00.	0 19.11	59.68	21.21	QN	Yes	°N N
NT133556 5	Red Pipe Seam Caulk	.0866	8	0	00.	00.	00 00-	0 27.13	67.44	5.43	N	Yes	Ňo
NT133557 7	Black Road Tar	4305	8	8	00	00	00 00.	0 3.60	89.94	6.46	QN	Yes	No
Comments:					Name of the second s								

ProScience Analytical Services, Inc.

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

HIMUL K COMULU JOY Mark Derosier, Analyst

Page 1 of 1

ConnDOT, Bridge 00980B, Hartford, , Hartford, 06120, CT, US, Exit 51 Bridge,

Created	2019-04-19 09:34:09 EDT by Brendan McClure
Updated	2019-05-14 14:15:46 EDT by Stephen Arienti
Location	41.7699922481941, -72.6695650164715
Status	Survey Complete

Job Information

job information	
Site Name	Bridge 00980B
Address	Exit 51 Bridge
	Hartford, CT 06120
TRC Project Number	289951.5929.0710
Project Manager	Stephen Arienti
Inspector(s)	Brendan McClure, Carmen Jacko, Hilton Hernandez
Client	ConnDOT
Type of Asbestos Survey	Reno/Demo
Additional Analysis for NOB Materials (Calc)	TEM NY NOB 198.4
PLM Turnaround Time (TAT)	48-hour
TEM Turnaround Time (TAT)	48-hour
Date	2019-04-19

Overview Photo











Surveys Performed

Asbestos, XRF, Hazardous Materials Inventory, TCLP Sampling

Asbestos Section

(2), C, 1, Grey/white barrier seam caulk , 2



East barrier seam caulk

Sample Location	East barrier seam caulk
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-04-19
Time	10:28

West barrier seam caulk

Sample Location	West barrier seam caulk
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-04-19
Time	10:30

Material Information

Sampled or Assumed?	Sampled
Material Acronym	C, 1
Material Description	Grey/white barrier seam caulk
Is Material a Non-Friable Organically Bound (NOB)	Yes
Total Approximate Quantity	20LF
Total Count	(2)

(2), C, 2, Black curb seam caulk , 2

Representative Photos



East curb

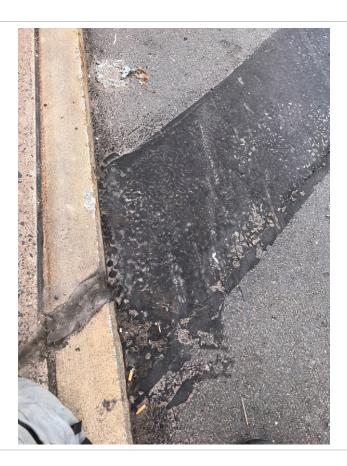
Edst Curb	
Sample Location	East curb
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-04-19
Time	10:34
West curb	
Sample Location	West curb
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-04-19
Time	10:34
Material Information	
Sampled or Assumed?	Sampled
Material Acronym	C, 2

Material Acronym	C, 2
Material Description	Black curb seam caulk
ls Material a Non-Friable Organically Bound (NOB)	Yes

Total Approximate Quantity	Length of bridge. Both sides
Total Count	(2)
Total Count (number only)	2

(2), RT1, Black road tar, 2

Representative Photos



East side

Last side	
Sample Location	East side
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-04-19
Time	10:35
West side	
Sample Location	West side
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-04-19
Time	10:35
Material Information	
Sampled or Assumed?	Sampled
Material Acronym	RT1

Material Description	Black road tar
Is Material a Non-Friable Organically Bound (NOB)	Yes
Total Approximate Quantity	25'x2'x3
Total Count	(2)
Total Count (number only)	2

(2), C, 3, Red pipe seam caulk , 2

Representative Photos



Drain pipe under bridge

Sample Location	Drain pipe under bridge	
Analyze by Layer	No	
Asbestos Bulk Analysis	PLM EPA 600/R93/116	
Grab or Composite	Grab	
Date	2019-04-19	
Time	11:06	

Drain pipe under bridge

Sample Location	Drain pipe under bridge
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-04-19
Time	11:07

Material Information

Sampled or Assumed?	Sampled
Material Acronym	C, 3
Material Description	Red pipe seam caulk
Is Material a Non-Friable Organically Bound (NOB)	Yes
Total Count	(2)
Total Count (number only)	2
XRF Section	
Niton XRF Model No.	25555
XRF Survey Completed	Yes
XRF Data Downloaded	Yes
XRF Shots >1.0 on non-metallic building materials	No
Date Data Downloaded	2019-04-19
HAZMAT Inventory Section	
Under Bridge in Alley	Under Bridge in Alley
Under Bridge in Alley Inventory Area Description	Under Bridge in Alley
Under Bridge in Alley Inventory Area Description Human Feces	
Under Bridge in Alley Inventory Area Description	Under Bridge in Alley Human Feces
Under Bridge in Alley Inventory Area Description Human Feces	
Under Bridge in Alley Inventory Area Description Human Feces HAZMAT Item Description	
Under Bridge in Alley Inventory Area Description Human Feces HAZMAT Item Description TCLP/SPLP/Total Lead Section	
Under Bridge in Alley Inventory Area Description Human Feces HAZMAT Item Description TCLP/SPLP/Total Lead Section Grey paint on metal railings	Human Feces
Under Bridge in Alley Inventory Area Description Human Feces HAZMAT Item Description TCLP/SPLP/Total Lead Section Grey paint on metal railings TCLP/SPLP/Total Lead Sample Description	Human Feces Grey paint on metal railings
Under Bridge in Alley Inventory Area Description Human Feces HAZMAT Item Description TCLP/SPLP/Total Lead Section Grey paint on metal railings TCLP/SPLP/Total Lead Sample Description Type of Analysis	Human Feces Grey paint on metal railings TCLP Lead
Under Bridge in Alley Inventory Area Description Human Feces HAZMAT Item Description TCLP/SPLP/Total Lead Section Grey paint on metal railings TCLP/SPLP/Total Lead Sample Description Type of Analysis Sample Number	Human Feces Grey paint on metal railings TCLP Lead 1
Under Bridge in Alley Inventory Area Description Human Feces HAZMAT Item Description TCLP/SPLP/Total Lead Section Grey paint on metal railings TCLP/SPLP/Total Lead Sample Description Type of Analysis Sample Number Grab or Composite	Human Feces Grey paint on metal railings TCLP Lead 1 Grab



General Information

Asbestos Samples Submitted to TRC Lab	No
Date Submitted to Lab	2019-04-19
TCLP/SPLP Samples Submitted to Lab	No
TCLP/SPLP Samples Submitted To:	CET
App Name	WinBSI HBM Survey 1.0

Generate Report Documentation

Select one or more documents below to be generated. Once completed in the cloud, they will be sent to the listed email address. Please report any difficulties or errors to Justin Coleman.

What documents should be generated?	PCB chain-of-custody
Where should the document(s) be sent?	sarienti@trcsolutions.com
Generate Documents	N/A

