



21 Griffin Rd. North  
Windsor, CT 06095

T 860.298.9692  
TRCcompanies.com

September 24, 2019

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

Attention: Amie Maines, P.E. / Robert Reilly

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance  
Agreement No.: 8.07-01 (18)  
HazMat Inspection - Bridge No. 03295, Route 190 over CT River, Suffield/Enfield, CT  
ConnDOT Assignment No. 519-5980  
ConnDOT Project No. 139-113  
TRC Project No. 289951.5980.0710

Dear Mr. Fox:

TRC performed a limited survey for hazardous building materials associated with the rehabilitation of Bridge No. 03295, Route 190 over Connecticut River in Suffield/Enfield, Connecticut. Results of the survey identified lead paint to be present on the structural steel/metal bridge components of Bridge No. 03295. 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. 03295 as CTDEEP/RCRA hazardous waste. Black flashing tar joint material on the bridge wingwalls was sampled and found to contain asbestos, however the material is not projected to be impacted by the project. Bearing pads, various bridge caulking, corrugated drain pipes, glues, black tar pipe wrap and vapor barriers were also sampled and found to contain no asbestos. Potential universal waste (UW) and Connecticut Regulated Waste (CRW) luminaire light fixtures on galvanized (unpainted) light poles were identified on the parapet walls of Bridge No. 03295, however they are not projected to be impacted. No bird/pigeon guano accumulations or bloodborne pathogens (BBP) concerns were identified in accessible areas of the bridge. 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.

Very Truly Yours,

TRC

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

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



### Lead Based Paint Measurement Summary Table

Device(s): Niton XLP301-A (Serial #24792) X Ray Fluorescence (XRF) Spectrum Analyzer  
 Site: Bridge No. 03295, Suffield/Enfield, CT  
 Project #: 289951.5980.0710  
 Date(s): 5/30/2019  
 Inspectors: Jonathan Gentile

Number	Interior/ Exterior	Location	Bridge No.	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm <sup>2</sup> )	Precision (mg/cm <sup>2</sup> )	Depth Index	Duration (sec)	Date/Time
1			Self Calibration							0.0	0.0	1.0	177.0	5/30/2019 9:35
2			0.0 Calibration							1.5	0.3	1.1	2.2	5/30/2019 9:39
3			1.6 Calibration							3.7	0.2	1.3	7.9	5/30/2019 9:41
4			3.7 Calibration							15.2	4.6	1.7	2.1	5/30/2019 9:57
5	Exterior	Suffield/Enfield	Bridge No. 03295		Girder		Metal	Grey	Defective	21.9	4.5	1.6	2.9	5/30/2019 9:58
6	Exterior	Suffield/Enfield	Bridge No. 03295		Girder		Metal	Grey	Defective	20.3	11.4	1.7	1.0	5/30/2019 10:00
7	Exterior	Suffield/Enfield	Bridge No. 03295		Girder		Metal	Grey	Defective	23.5	6.0	2.2	1.9	5/30/2019 10:01
8	Exterior	Suffield/Enfield	Bridge No. 03295		I bracket		Metal	Grey	Defective	14.1	4.8	1.6	1.8	5/30/2019 10:01
9	Exterior	Suffield/Enfield	Bridge No. 03295		Bearing		Metal	Grey	Intact	1.4	0.2	1.5	4.2	5/30/2019 10:02
10	Exterior	Suffield/Enfield	Bridge No. 03295		Bearing		Metal	Grey	Intact	1.6	0.4	1.6	1.9	5/30/2019 10:03
11	Exterior	Suffield/Enfield	Bridge No. 03295		Bearing		Metal	Grey	Intact	0.6	0.1	1.7	5.1	5/30/2019 10:04
12	Exterior	Suffield/Enfield	Bridge No. 03295		Bearing		Metal	Grey	Intact	0.0	0.0	1.0	2.2	5/30/2019 11:53
13			0.0 Calibration							1.5	0.3	1.1	2.8	5/30/2019 11:53
14			1.6 Calibration							3.7	0.3	1.3	5.3	5/30/2019 11:54
15			3.7 Calibration											

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



Client: Mr. Jonathan Gentile  
TRC Environmental Consultants  
21 Griffin Rd., North  
Windsor, CT 06095

# Analytical Report

## CET# 9050907

Report Date: June 06, 2019  
Project: CTDOT, Bridge 3295, Enfield/Suffield  
Project Number: 289951.05980.0710

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



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

CET # : 9050907

Project: CTDOT, Bridge 3295, Enfield/Suffield

Project Number: 289951.05980.0710

**SAMPLE SUMMARY**

The sample(s) were received at 22.0°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
01	9050907-01	Paint Chip	5/30/2019 10:30	05/31/2019
02	9050907-02	Paint Chip	5/30/2019 11:00	05/31/2019

**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
9050907-01	01	820	0.26	mg/L	20	B9F0416	06/04/2019	06/05/2019 16:44	
9050907-02	02	400	0.13	mg/L	10	B9F0416	06/04/2019	06/05/2019 16:49	



CET # : 9050907

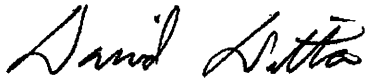
Project: CTDOT, Bridge 3295, Enfield/Suffield

Project Number: 289951.05980.0710

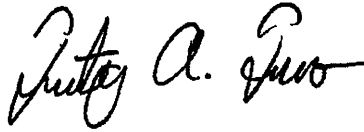
All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

This technical report was reviewed by Timothy Fusco



David Ditta  
Laboratory Director



Project Manager

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- \*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- \*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- \*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- \*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- \*I- 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 # : 9050907

Project: CTDOT, Bridge 3295, Enfield/Suffield

Project Number: 289951.05980.0710

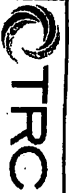
**CERTIFICATIONS**

**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	09/30/2020



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

**TCLP CHAIN OF CUSTODY**



9050907

Edition: November 2013  
 Supersede Previous Edition

PROJECT NUMBER

289951 • 5980.0710

PROJECT NAME

Conn Dist Bridge 3295  
 Enfield/Staffield, CT

INSPECTOR: (SIGNATURE)

*J. Gentile*

(PRINTED)

J. Gentile

LAB ID #

TURNAROUND TIME

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

FIELD SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION	PARAMETERS					MATERIAL	
			COMP	GRAB		RCRA Pb	RCRA Pb, AS, CR, CD	8 RCRA Metals	TCLP Pb	SPLP Pb		
01	5/30/19	1030		X	Underside of Bridge (N End)				X			I Beam Paint / L Becket Paint Bearing Paint
02	↓	1100		X	" " " "				X			

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
<i>J. Gentile</i>	5/30/19	<i>[Signature]</i>	<i>[Signature]</i>	5/31/19	<i>[Signature]</i>
(Printed)	Time:	(Printed)	(Printed)	Time:	(Printed)
J. Gentile		GREYS GUNNAY	GREYS GUNNAY	1515	M Sabo

**BULK ASBESTOS ANALYSIS REPORT**

CLIENT: CT Department of Transportation

Lab Log #: 0053821  
 Project #: 289951.5980.0710  
 Date Received: 05/30/2019  
 Date Analyzed: 05/31/2019

Site: Bridge 3295, Rt. 190, Enfield/Suffield, 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	Orange/Brown (bearing pad)	Yes	No	--	80% cellulose	ND	None
2	Orange/Brown (bearing pad)	Yes	No	--	80% cellulose	ND	None
3	Off White (caulk)	Yes	No	--	2% synthetic fiber	ND	None
4	Off White (caulk)	Yes	No	--	2% synthetic fiber	ND	None
5	White (caulk)	Yes	No	--	---	ND	None
6	White (caulk)	Yes	No	--	---	ND	None
7	Black (drain pipe)	Yes	No	--	---	ND	None
8	Black (drain pipe)	Yes	No	--	---	ND	None
9	Grey (expansion joint)	Yes	No	--	---	ND	None
10	Grey (expansion joint)	Yes	No	--	---	ND	None
11	Grey (glue)	Yes	No	--	---	ND	None
12	Grey (glue)	Yes	No	--	---	ND	None
13	Black (tar paper)	Yes	No	--	5% cellulose	ND	None
14	Black (tar paper)	Yes	No	--	5% cellulose	ND	None
15	Black (flashing)	Yes	No	--	---	10%	Chrysotile
16	--	--	--	--	--	NA/PS	--
17	Black (vapor barrier)	Yes	No	--	20% cellulose	ND	None

**TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS**

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



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

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
18	Black (vapor barrier)	Yes	No	--	20% cellulose	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.

Analyzed by: K. Williamson      Reviewed by: Cathryn Lemire      **Date Issued**  
 Kathleen Williamson, Laboratory Manager      Cathryn Lemire, Approved Signatory      06/03/2019

**TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS**

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





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

## ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

Edition: October 2009  
Supersedes Previous Edition

LAB ID #. **53821**

PROJECT NUMBER		PROJECT NAME		PARAMETERS		TURNAROUND TIME								
289951.5980.0710		ConnDOT - Bridge 3295, Rt 190, Enfield/Suffield, CT		PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	PLM:	8hr	24hr	48hr	3day	
SIGNATURE:		INSPECTOR: Jonathan Gentile							TEM:	24hr	48hr	3day	5day	
FIELD SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION		MATERIAL								
							COMP	GRAB						
1	5/30/2019	10:32	X			BP1 - Bearing Pad								
2	5/30/2019	10:32	X			BP1 - Bearing Pad								
3	5/30/2019	11:04	X			C1 - Off-White Pliable Caulk at Conduit	X							
4	5/30/2019	11:04	X			C1 - Off-White Pliable Caulk at Conduit								
5	5/30/2019	11:20	X			C2 - White Rubbery Joint Caulk	X							
6	5/30/2019	11:21	X			C2 - White Rubbery Joint Caulk								
7	5/30/2019	10:31	X			CDP1 - Corrugated Drain Pipe	X							
8	5/30/2019	10:31	X			CDP1 - Corrugated Drain Pipe								
9	5/30/2019	11:23	X			EJ1 - Grey Rubbery Expansion Joint	X							
10	5/30/2019	11:23	X			EJ1 - Grey Rubbery Expansion Joint								
11	5/30/2019	10:40	X			G1 - Grey Gummy Glue	X							

Relinquished by: (Signature) 	Date: 5/30/19	Received by: (Signature) <i>5/30/19</i>	Date: _____
(Printed) Jonathan Gentile	Time: _____	(Printed) <i>1330</i>	Time: _____
Remarks:	Condition of Samples: Acceptable: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Page 1 of 2



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

## ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

Edition: October 2009  
Supersede Previous Edition

PROJECT NUMBER  
289951.5980.0710

**PROJECT NAME**

ConnDOT — Bridge 3295, Rt 190,  
Enfield/Suffield, CT

LAB ID #. 53821

**TURNAROUND TIME**

PLM:	8hr	24hr	48hr	3day
TEM:	24hr	X	48hr	3day

**SIGNATURE**

**INSPECTOR**

Jonathan Gentile

**PARAMETERS**

PLM EPA 600/R93/116 (POSITIVE STOP)	
PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	X
ANALYZE BY LAYER	
POINT COUNT (IF >1% & <10%)	
TEM NY NOB 198.4 (IF PLM SERIES NEG)	X

FIELD SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION	MATERIAL
			COMP	GRAB		
12	5/30/2019	10:41		X	North End on White Wrapped Pipe	G1 - Grey Gummy Glue
13	5/30/2019	10:39		X	North End	PW1 - Black Tar Paper Pipe Wrap
14	5/30/2019	10:39		X	North End	PW1 - Black Tar Paper Pipe Wrap
15	5/30/2019	11:18		X	North End	T1 - Flashing Tar-Like Joint Material
16	5/30/2019	11:18		X	North End	T1 - Flashing Tar-Like Joint Material
17	5/30/2019	10:50		X	North End Abutment	VB1 - Tar Paper Vapor Barrier
18	5/30/2019	10:51		X	North End Abutment	VB1 - Tar Paper Vapor Barrier

Relinquished by: (Signature) 	Date: 5/30/19	Received by: (Signature) 	5/30/19	Relinquished by: (Signature)	Date:	Received by: (Signature)
(Printed) Jonathan Gentile	Time: 1330	(Printed) 	1330	(Printed)	Time:	(Printed)
Remarks:	Condition of Samples: Acceptable: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Comments:		Page 2 of 2	







# ProScience Analytical Services, Inc

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Erik Plimpton  
TRC Companies, Inc. (CT)  
21 Griffin Road North  
Windsor, CT 06095

June 06, 2019

Dear Erik Plimpton,

Results of samples you described and submitted to ProScience Analytical Services, Inc. are shown on the enclosed data sheets. The analytical results in this report apply to the items tested only. The listed samples were prepared and analyzed in compliance with the New York State Transmission Electron Microscope Method for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples. This method is used for the determination of weight percent of asbestos in non-friable materials. The sample is processed to remove non-asbestos interference. The remaining residue is examined using a Philips transmission electron microscope equipped with selected area electron diffraction (SAED) and an Evex energy dispersive x-ray analyzer.

The following are reported: identification numbers, type of material, color or the sample, initial weight of the sample, weight percent of organic material lost by ashing, weight percent of carbonates lost by acid dissolution, weight percent of non-fibrous/non asbestos inorganic material, total weight percent of asbestos in the original sample, and the type(s) of asbestos, if any.

The EPA recognizes asbestos as the following: actinolite, amosite, anthophyllite, chrysotile, crocidolite, and tremolite. To be considered asbestos containing, a material must be determined to contain greater than one percent asbestos. Samples are retained for a period of 2 months.

The quality control data related to the samples analyzed are available for review upon the written request of the client. ProScience Analytical Services, Inc. and its personnel assume no responsibility for potential sample contamination, misuse, misinformation, or misrepresentation by the client. The enclosed results may not be used under any circumstances as product endorsement by any US government agency including NIST/NVLAP. This report may not be reproduced, except in its entirety, without permission of the ProScience Analytical Services, Inc. Laboratory Director.

Please contact me if you have any questions regarding this report or related information.

Sincerely,

Mark Derosier, Senior Analyst  
Aimee Cormier, Laboratory Manager

Enclosure:

BATCH NUMBER : NT 17785 CLIENT PROJECT ID: 289951.5980.0710  
Client Ref: CT DOT - Bridge 3295, Rt. 190, Enfield/Suffield, Ct  
CT ID# PH-0209; MA ID# AA000156; ME ID# LB-055; ME ID# LA-056; VT ID# AL016876; RI ID# 186.

# ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801  
781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail: general@proscience.net

# Laboratory Report

Client Project #: 289951.5980.0710  
Client Reference: CT DOT - Bridge 3295, Rt. 190, Enfield/Suffield, Ct  
PO #: C289951  
Client #: 297  
Client Name: TRC Companies, Inc. (CT)

Batch: NT 17785  
Method: NOB  
Date Received: 6/4/2019  
Date Analyzed: 6/6/2019  
Date of Report: 6/6/2019

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other Non-asp.	% Organic	% Carb.	Total % Asbestos	Analyzed / Charged	Preped / Charged
					CHR	AMO	ACT	CRO	ANT	TRE						
NT133805	3	Off-White Pliable Caulk		.2365	.00	.00	.00	.00	.00	.00	18.22	18.44	63.34	ND	Yes	No
NT133806	5	White Rubbery Joint Caulk		.5058	.00	.00	.00	.00	.00	.00	33.01	40.75	26.24	ND	Yes	No
NT133807	7	Corrugated Drain Pipe		.2434	.00	.00	.00	.00	.00	.00	22.35	72.06	5.59	ND	Yes	No
NT133808	9	Grey Rubbery Expansion Joint		1.0453	.00	.00	.00	.00	.00	.00	28.90	37.43	33.67	ND	Yes	No
NT133809	11	Grey Gummy Glue		.2692	.00	.00	.00	.00	.00	.00	3.90	95.47	.63	ND	Yes	No
NT133810	13	Black Tar Paper Pipe Wrap		.2708	.00	.00	.00	.00	.00	.00	30.17	57.75	12.08	ND	Yes	No
NT133811	17	Tar Paper Vapor Barrier		.3666	.00	.00	.00	.00	.00	.00	8.67	86.77	4.56	ND	Yes	No

**Comments:**

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



Mark Derosier, Analyst





NT 17785



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

# ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

Edition: October 2009  
Supersede Previous Edition

PROJECT NUMBER 289951.5980.0710		PROJECT NAME ConnDOT - Bridge 3295, Rt 190, Enfield/Suffield, CT		LAB ID #. <u>53821</u>	
SIGNATURE 		INSPECTOR Jonathan Gentile		TURNAROUND TIME	
				PLM: 8hr	48hr
				TEM: 24hr	3day
					5day

FIELD SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
			COMP	GRAB							
1	5/30/2019	10:32	X	X	North End	X					BP1 - Bearing Pad
2	5/30/2019	10:32	X	X	North End	X					BP1 - Bearing Pad
3	5/30/2019	11:04	X	X	North End Abutment	X			X		C1 - Off-White Pliable Caulk at Conduit
4	5/30/2019	11:04	X	X	North End Abutment	X					C1 - Off-White Pliable Caulk at Conduit
5	5/30/2019	11:20	X	X	North End	X			X		C2 - White Rubbery Joint Caulk
6	5/30/2019	11:21	X	X	North End	X					C2 - White Rubbery Joint Caulk
7	5/30/2019	10:31	X	X	North End	X			X		CDP1 - Corrugated Drain Pipe
8	5/30/2019	10:31	X	X	North End	X					CDP1 - Corrugated Drain Pipe
9	5/30/2019	11:23	X	X	North End	X			X		EJ1 - Grey Rubbery Expansion Joint
10	5/30/2019	11:23	X	X	North End	X					EJ1 - Grey Rubbery Expansion Joint
11	5/30/2019	10:40	X	X	North End on White Wrapped Pipe	X			X		G1 - Grey Gummy Glue

Relinquished by: (Signature) 	Date: 5/30/19	Received by: (Signature) 	Date: 5/30/19
(Printed) Jonathan Gentile	Time: 1330	Relinquished by: (Signature) (Printed)	Date: (Printed)
Remarks:		Condition of Samples: Acceptable: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Page 1 of 2



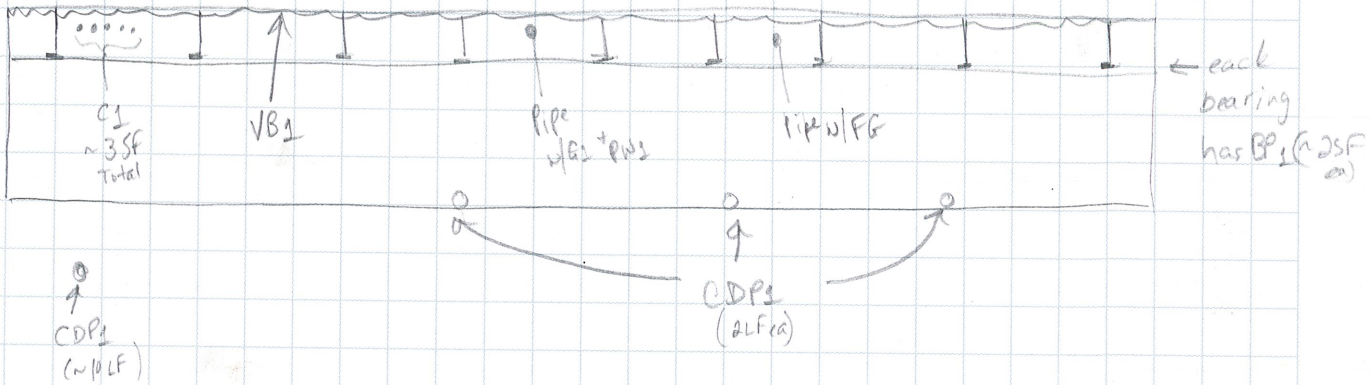




SUBJECT Bridge 3295

NTS

Below (Facing North) North Abutment



C<sub>2</sub> - topside of bridge b/w wall sections

EJ<sub>1</sub> - topside of bridge at expansion joints



## ConnDOT, Bridge 3295, Hartford, , Enfield/Suffield , , CT, US, Rt 190,

Created	2019-05-30 09:43:38 EDT by Jonathan Gentile
Updated	2019-05-30 13:26:01 EDT by Jonathan Gentile
Location	41.9910521200318, -72.5984656904569
Status	<span style="color: blue;">■</span> Survey Complete

### Job Information

Site Name	Bridge 3295
Address	Rt 190 Enfield/Suffield , CT
TRC Project Number	289951.5980.0710
Project Manager	Erik Plimpton, Stephen Arienti
Inspector(s)	Jonathan Gentile
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	2019-05-30
General Notes	Bridge over CT River b/w Enfield and Suffield. Limited access to to height, river, poison ivy, etc.

Overview Photo













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Surveys Performed

Asbestos, XRF, Bridge/Signs/Light Pole/Traffic Signal Items

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## Asbestos Section

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## ( 2 ), CDP1, Corrugated Drain Pipe, 2

Representative Photos



### North End

Sample Location	North End
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-05-30
Time	10:31

### North End

Sample Location	North End
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-05-30
Time	10:31

### Material Information

Sampled or Assumed?	Sampled
Material Acronym	CDP1
Material Description	Corrugated Drain Pipe
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Below bridge at abutment

Total Approximate Quantity	16 LF visible
Total Count	( 2 )
Total Count (number only)	2

**( 2 ), PW1, Black Tar Paper Pipe Wrap, 2**

Representative Photos



**North End**

Sample Location	North End
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-05-30
Time	10:39

**North End**

Sample Location	North End
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-05-30
Time	10:39

**Material Information**

Sampled or Assumed?	Sampled
Material Acronym	PW1



Material Description	Black Tar Paper Pipe Wrap
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Below Bridge
Total Approximate Quantity	1400 LF
Total Count	( 2 )
Total Count (number only)	2

**( 2 ), BP1, Bearing Pad, 2**

Representative Photos



**North End**

Sample Location	North End
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-05-30
Time	10:32

**North End**

Sample Location	North End
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-05-30
Time	10:32

## Material Information

Sampled or Assumed?	Sampled
Material Acronym	BP1
Material Description	Bearing Pad
Is Material a Non-Friable Organically Bound (NOB)	No
Homogeneous Area	Bridge Bearings
Total Approximate Quantity	180 SF
Total Count	( 2 )
Total Count (number only)	2

## ( 2 ), G, 1, Grey Gummy Glue, 2

Representative Photos



## North End on White Wrapped Pipe

Sample Location	North End on White Wrapped Pipe
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-05-30
Time	10:40

## North End on White Wrapped Pipe

Sample Location	North End on White Wrapped Pipe
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116

Grab or Composite	Grab
Date	2019-05-30
Time	10:41

**Material Information**

Sampled or Assumed?	Sampled
Material Acronym	G, 1
Material Description	Grey Gummy Glue
Is Material a Non-Friable Organically Bound (NOB)	Yes
Total Approximate Quantity	4 SF
Total Count	( 2 )
Total Count (number only)	2

**( 2 ), VB, 1, Tar Paper Vapor Barrier , 2**

Representative Photos



**North End Abutment**

Sample Location	North End Abutment
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-05-30
Time	10:50

**North End Abutment**

Sample Location	North End Abutment
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Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-05-30
Time	10:51

### Material Information

Sampled or Assumed?	Sampled
Material Acronym	VB, 1
Material Description	Tar Paper Vapor Barrier
Is Material a Non-Friable Organically Bound (NOB)	Yes
Total Approximate Quantity	150 SF
Total Count	( 2 )
Total Count (number only)	2

### ( 2 ), C, 1, Off-White Pliable Caulk at Conduit, 2

#### North End Abutment

Sample Location	North End Abutment
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-05-30
Time	11:04

#### North End Abutment

Sample Location	North End Abutment
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-05-30
Time	11:04

### Material Information

Sampled or Assumed?	Sampled
Material Acronym	C, 1
Material Description	Off-White Pliable Caulk at Conduit
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Where Conduit enters concrete at abutment
Total Approximate Quantity	3 SF
Total Count	( 2 )
Total Count (number only)	2

### ( 2 ), T1, Flashing Tar-Like Joint Material, 2

Representative Photos



**North End**

Sample Location	North End
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-05-30
Time	11:18

**North End**

Sample Location	North End
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-05-30
Time	11:18

**Material Information**

Sampled or Assumed?	Sampled
Material Acronym	T1
Material Description	Flashing Tar-Like Joint Material
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Corners of Abutments
Total Approximate Quantity	16 LF Total



Total Count	( 2 )
Total Count (number only)	2

**( 2 ), C, 2, White Rubbery Joint Caulk, 2**

Representative Photos



**North End**

Sample Location	North End
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-05-30
Time	11:20

**North End**

Sample Location	North End
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-05-30
Time	11:21

**Material Information**

Sampled or Assumed?	Sampled
Material Acronym	C, 2
Material Description	White Rubbery Joint Caulk

Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Between Barrier Wall Sections
Total Approximate Quantity	8 LF/Section 162 Sections
Total Count	( 2 )
Total Count (number only)	2

**( 2 ), EJ1, Grey Rubbery Expansion Joint, 2**

Representative Photos



**North End**

Sample Location	North End
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-05-30
Time	11:23

**North End**

Sample Location	North End
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2019-05-30
Time	11:23

**Material Information**

Sampled or Assumed?	Sampled
Material Acronym	EJ1
Material Description	Grey Rubbery Expansion Joint
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Expansion Joint throughout span
Total Approximate Quantity	420 LF
Total Count	( 2 )
Total Count (number only)	2

### XRF Section

Niton XRF Model No.	24792
XRF Survey Completed	Yes
XRF Data Downloaded	Yes
XRF Shots >1.0 on non-metallic building materials	No
Date Data Downloaded	2019-05-30

### Bridge/Signs/Light Pole/Traffic Signal Items

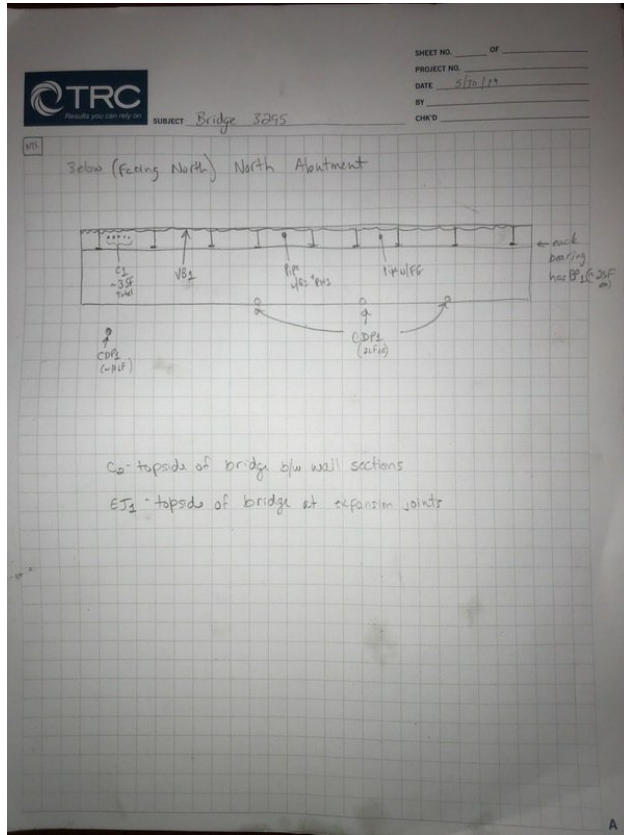
#### 3295

Bridge/Sign/Light Pole/Traffic Signal No.	3295
General Notes	Long span over CT River and Amtrak Railroad. Limited access to North Side abutment bike/walking trail on west side of span. Galvanized light poles and bike trail railing both with rubber vibration dampening pads.
Accessibility	Accessible
Paint on Structure (s)?	Yes
Paint on what Components/Structure(s)?	Steel below
Suspect Asbestos Containing Materials Identified on Structure	Yes
Guano Present?	No
Homeless Activity	No
Bloodborne Pathogen Concerns?	No
Mice/Mouse Nests/Droppings	No

### General Information



Site Sketch Diagrams



Signature

Signed 2019-05-30 11:46:57 EDT

Asbestos Samples Submitted to TRC Lab	Yes
Date Submitted to Lab	2019-05-30
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?	Asbestos chain-of-custody
Where should the document(s) be sent?	jgentile@trcsolutions.com
Generate Documents	N/A

## LOCATION MAP

Bridge No. 03295 carries Route 190 over Connecticut River and Amtrak Railroad in the towns of Suffield/Enfield

