



January 22, 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. / Mandy Socolosky

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance
Agreement No.: 8.07-01 (18)
HazMat Inspection – Bridge Nos. 01218 & 04180, I-84 EB & WB over Housatonic River,
Newtown/Southbury, CT
ConnDOT Assignment No. 519-5769
ConnDOT Project No. 96-201
TRC Project No. 289951.5769.0710

Dear Mr. Fox:

TRC performed a limited survey for hazardous building materials associated with the replacement of Bridge Nos. 01218 & 04180, I-84 EB & WB over Housatonic River in Newtown/Southbury, Connecticut. Results of the survey identified lead paint to be present on the structural steel/metal bridge components of Bridge Nos. 01218 and 04180. Waste stream sampling results of the structural steel/metal bridge components of Bridge No. 01218 characterized that paint waste stream as non-hazardous, non-RCRA waste. Waste stream sampling results of the structural steel/metal bridge components of Bridge No. 04180 characterized that paint waste stream as CTDEEP/RCRA hazardous waste. At Bridge No. 01218, grey brittle caulking at the base of the walkway safety fencing supports was sampled and found to contain asbestos. Expansion joint caulking, black expansion joint fillers and other various caulking at Bridge Nos. 01218 and 04180 were sampled and found to be non-ACM. No bird/pigeon guano accumulations, bloodborne pathogen concerns or other hazardous/regulated items were identified in accessible areas of the two bridges. Associated laboratory data, TRC Mobile Data Solution's report, project description and site maps are attached.

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

Very Truly Yours,

TRC

A handwritten signature in black ink, appearing to read "Stephen R. Arienti".

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

Reviewed by:

A handwritten signature in black ink, appearing to read "Erik R. Plimpton".

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. 01218 & 04180, Newtown/Southbury, CT
 Project #: 289951.5769.0710
 Date(s): 12/24/18 & 12/31/2018
 Inspectors: Patrick Schaffner (CT Lic. No. 001330)

Number	Interior/ Exterior	Location	Bridge No.	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm ²)	Precision (mg/cm ²)	Depth Index	Duration (sec)	Date/Time
1			Self Calibration										130.3	12/24/2018 11:44
2			1.6 Calibration							1.6	0.2	1.2	4.9	12/24/2018 11:54
3			3.6 Calibration							3.7	0.3	1.3	6.0	12/24/2018 11:55
4			0.7 Calibration							0.8	0.1	1.1	8.2	12/24/2018 11:56
5						VOID								
6	Exterior	Newtown/Southbury	Bridge No. 01218		south end girder		Metal	Blue	Defective	5.7	0.8	1.9	11.6	12/24/2018 12:06
7	Exterior	Newtown/Southbury	Bridge No. 01218		south end girder	structure to wing wall	Metal	Grey	Defective	3.0	0.3	1.8	5.8	12/24/2018 12:08
8	Exterior	Newtown/Southbury	Bridge No. 01218		south end girder	t cross structure	Metal	Grey	Defective	4.5	0.3	1.7	7.9	12/24/2018 12:12
9	Exterior	Newtown/Southbury	Bridge No. 01218		south end girder	bearing structure	Metal	Grey	Defective	8.0	1.6	9.8	3.7	12/24/2018 12:16
10	Exterior	Newtown/Southbury	Bridge No. 01218		south end beam		Metal	Blue	Defective	3.3	0.9	1.8	1.4	12/24/2018 12:19
11	Exterior	Newtown/Southbury	Bridge No. 01218		south end beam		Metal	Blue	Defective	3.3	0.2	1.5	6.5	12/24/2018 12:20
12			1.6 Calibration							1.5	0.3	1.2	3.2	12/24/2018 13:18
13			0.7 Calibration							0.7	0.1	1.1	5.5	12/24/2018 13:19
14			0.3 Calibration							0.3	0.1	1.2	3.9	12/24/2018 13:19
1			Self Calibration										130.5	12/31/2018 11:39
2			3.6 Calibration							3.8	0.2	1.3	9.1	12/31/2018 11:49
3			1.6 Calibration							1.5	0.1	1.1	6.9	12/31/2018 11:50
4			0.3 Calibration							0.3	0.0	1.1	11.3	12/31/2018 11:51
5	Exterior	Newtown/Southbury	Bridge No. 04180		rockers		Metal	Blue	Defective	2.6	0.1	1.3	14.3	12/31/2018 12:23
6	Exterior	Newtown/Southbury	Bridge No. 04180		beam		Metal	Blue	Defective	3.6	0.3	1.5	4.3	12/31/2018 12:25
7	Exterior	Newtown/Southbury	Bridge No. 04180		beam		Metal	Blue	Defective	2.9	0.8	1.4	1.2	12/31/2018 12:26
8	Exterior	Newtown/Southbury	Bridge No. 04180		end gusset		Metal	Blue	Defective	5.9	1.0	1.6	7.8	12/31/2018 12:28
9	Exterior	Newtown/Southbury	Bridge No. 04180		cross t beam		Metal	Blue	Defective	2.5	0.2	1.4	5.8	12/31/2018 12:29
10			3.6 Calibration							3.8	0.2	1.3	8.0	12/31/2018 12:48
11			1.6 Calibration							1.6	0.1	1.2	8.2	12/31/2018 12:49
12			0.3 Calibration							0.3	0.0	1.0	15.5	12/31/2018 12:50

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

Side A = Street side; Sides B,C,D follow clockwise

80 Lupes Drive
Stratford, CT 06615



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

Client: Mr. Erik Plimpton
TRC Environmental Consultants
21 Griffin Rd., North
Windsor, CT 06095

Analytical Report

CET# 8120742



Report Date: December 28, 2018
Project: CT DOT, Bridge 1218
Project Number: 222165.5768.0710

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 # : 8120742

Project: CT DOT, Bridge 1218

Project Number: 222165.5768.0710

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
Bridge 1218	8120742-01	Solid	12/24/2018 13:00	12/26/2018

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
8120742-01	Bridge 1218	0.39	0.013	mg/L	1	B8L2717	12/27/2018	12/27/2018 15:14	

CET # : 8120742

Project: CT DOT, Bridge 1218

Project Number: 222165.5768.0710

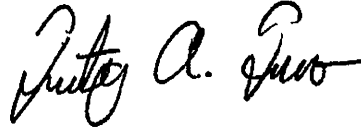
All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

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- 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 # : 8120742

Project: CT DOT, Bridge 1218

Project Number: 222165.5768.0710

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



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

Analytical Report

CET# 9010017

Report Date: January 07, 2019
Project: CTDOT, Bridge
Project Number: 1-84 West Bound Bridge 04180
PO Number: 289951-5769-0710

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 # : 9010017

Project: CTDOT, Bridge

Project Number: 1-84 West Bound Bridge 04180

SAMPLE SUMMARY

The sample(s) were received at 22.5°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
Bridge 4180	9010017-01	Solid	12/31/2018 11:30	01/02/2019

Analyte: TCLP Lead [EPA 6020A]

Analyst: CED

Prep: EPA 3005A-1311

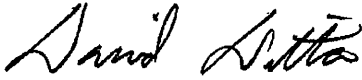
Matrix: Extract

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9010017-01	Bridge 4180	24	0.013	mg/L	1	B9A0701	01/07/2019	01/07/2019 14:23	

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- 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 # : 9010017

Project: CTDOT, Bridge

Project Number: 1-84 West Bound Bridge 04180

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



BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #: 0053199
 Project #: 289951.5769.0710
 Date Received: 12/26/2018
 Date Analyzed: 12/26/2018

Site: I 84 E, Bridge #04180, Dock Drive, Sandy Hook, CT

01218 (SM)

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

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
06	Grey (caulk)	Yes	No	--	---	ND	None
05	Grey (caulk)	Yes	No	--	---	ND	None
07	Grey (caulk)	Yes	No	--	---	5%	Chrysotile
08	--	--	--	--	--	NA/PS	--
09	Black (caulk)	Yes	No	--	---	ND	None
10	Black (caulk)	Yes	No	--	---	ND	None
01	Black (expansion joint)	Yes	No	--	10% cellulose	ND	None
02	Black (expansion joint)	Yes	No	--	10% cellulose	ND	None
03	White (expansion joint)	Yes	No	--	---	ND	None
04	White (expansion joint)	Yes	No	--	---	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
------------	-------	------------	---------------	-----------	------------------------	------------	---------------

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: 12/27/2018
 Kathleen Williamson, Laboratory Manager Cathryn Lemire, Approved Signatory

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 WY# LT000411
 RI #AAL-007 TX #300354 VT #AL014538 LA#05011 VA #3333 000283 AZ #A20944 HI #L-09-004 NJ #CT004 CA #2907
 CO# AL-15020 PHIL# 461 PA#68-03387

ProScience Analytical Services, Inc.

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

Laboratory Report


Client Project #: 289951.5769.0710 01218 ^{Sw}
 Client Reference: CT DOT - I 84 E. Bridge #04480, Dock Drive, Sandy Hook, CT
 PO #: C289951
 Client #: 297
 Client Name: TRC Environmental Corp. (CT)

Batch: NT 17625
 Method: NOB
 Date Received: 12/28/2018
 Date Analyzed: 1/2/2019
 Date of Report: 1/2/2019

LAB ID	Field ID	Description:	Color	Initial Weight	CHR	AMO	ACT	CRO	ANT	TRE	% Other Non-asb.	% Organic	% Carb.	Total % Asbestos	Analyzed / Charged	Preped / Charged
NT132773	06	Grey Flex Caulk		1.0391	.00	.00	.00	.00	.00	.00	14.56	36.22	49.22	ND	Yes	No
NT132774	09	Black Soft Grey Caulk		1.2862	.00	.00	.00	.00	.00	.00	27.44	28.82	43.74	ND	Yes	No
NT132775	01	Expansion Joint Material		.5577	.11	.00	.00	.00	.00	.00	22.54	70.43	7.03	TR	Yes	No
NT132776	03	White Flexible Expansion Joint Material		.4889	.00	.00	.00	.00	.00	.00	9.03	83.10	7.87	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

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

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

LAB ID #. 53213

PROJECT NUMBER 289981-5769-0710 222165-5769-0710	PROJECT NAME I-84 Westbound bridge # 04180 DOT	PARAMETERS						TURNAROUND TIME								
		PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	PLM:	TEM:	8hr	24hr	48hr	3day	5day			
INSPECTOR Pat Schöner Jaime Robinson		MATERIAL														
FIELD SAMPLE NUMBER	DATE	TIME	TYPE	COMP	GRAB	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)	8hr	24hr	48hr	3day	5day
11	12-31-18	11:11	X		X	West side under rail plates	X							X		
12	12-31-18	11:22	X		X	↓	X									

Relinquished by: (Signature) <i>Jaime Robinson</i>	Date: 12-31-18	Received by: (Signature) <i>Jaime Robinson</i>	Date: 1/2/19
(Printed) Jaime Robinson	Time: 1340	(Printed) Jaime Robinson	Time: 0900
Remarks:	Condition of Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		
		Relinquished by: (Signature)	Received by: (Signature)
		Date:	Date:
		Time:	Time:
		Page 1 of 1	



BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #: 0053213
 Project #: 289951.5769.0710
 Date Received: 01/02/2019
 Date Analyzed: 01/03/2019

Site: I-84 W, Bridge #04180, Southbury, CT

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

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
11	Grey (caulk)	Yes	No	--	---	ND	None
12	Grey (caulk)	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.

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Analyzed by: K. Williamson Reviewed by: Cathryn Lemire Date Issued: 01/03/2019
 Kathleen Williamson, Laboratory Manager Cathryn Lemire, Approved Signatory

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

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

ProScience Analytical Services, Inc.

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

Laboratory Report

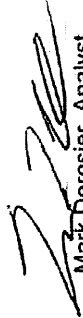
Client Project #: 289951.5769.0710
 Client Reference: CT DOT - I-84 W, Bridge #04180
 PO #: C289951
 Client #: 297
 Client Name: TRC Environmental Corp. (CT)

Batch: NT 17631
 Method: NOB
 Date Received: 1/4/2019
 Date Analyzed: 1/8/2019
 Date of Report: 1/8/2019

LAB ID	Field ID	Description:	Color	Initial Weight	CHR	AMO	ACT	CRO	ANT	TRE	% Other Non-asb.	% Organic Carb.	% Total Asbestos	Analyzed / Charged	Preped / Charged	Yes	No
NT132816	12	Gray Brittle Caulk		.3305	.00	.00	.00	.00	.00	.00	5.30	23.69	71.01	ND			

Comments:

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



Mark Derosier, Analyst

ConnDOT, I 84 East Bound bridge #01218 1 84 West Bound bridge #04180, Fairfield, , Sandy Hook, 06482, CT, US, Dock Dr,

Created	2018-12-24 15:50:19 UTC by Tyler MacGillivray
Updated	2018-12-31 18:54:10 UTC by Jaime Robinson
Location	41.4380450779958, -73.246499206939
Status	■ Survey Complete

Job Information

Site Name	I 84 East Bound bridge #01218 1 84 West Bound bridge #04180
Address	Dock Dr Sandy Hook, CT 06482
TRC Project Number	289951-5769-0710
Project Manager	Erik Plimpton, Stephen Arienti
Inspector(s)	Pat Schaffner, Tyler Macgillivray, Tom Martin, Jaime Robinson
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
Date	2018-12-31
General Notes	West Bound bridge survey completed on December 31, 2018 No homeless activity noted No guano Very little litter

Overview Photo



Bearing structure





Westbound bridge facing east



Westbound bridge facing east



Westbound bridge facing east



Westbound bridge facing north



Westbound bridge facing south





(2), EJ1, Expansion joint material

Representative Photos



1, Wing wall foundation on SW side

Sample Number	1
Sample Location	Wing wall foundation on SW side
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-12-24
Time	11:09

Sample Location Photo



2, Wing wall foundation SW side

Sample Number	2
Sample Location	Wing wall foundation SW side
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-12-24
Time	11:10

Sample Location Photo



Material Information

Sampled or Assumed?	Sampled
Material Acronym	EJ1
Material Description	Expansion joint material
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	East/ West side wing wall foundation
Total Approximate Quantity	100 SF
Notes	None visible on north west side
Total Count	(2)

(2), EJ2, White flexible expansion joint material

Representative Photos



3, Top west side

Sample Number

3

Sample Location	Top west side
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-12-24
Time	11:31

Sample Location Photo



4, Top west side

Sample Number	4
Sample Location	Top west side
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-12-24
Time	11:32

Sample Location Photo



Material Information

Sampled or Assumed?	Sampled
Material Acronym	EJ2
Material Description	White flexible expansion joint material
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Top side
Total Approximate Quantity	220 LF
Notes	Also present on top side between concrete sections
Total Count	(2)

(2), C, 1, Grey flex caulk

Representative Photos



06, Pedestrian walk

Sample Number	06
Sample Location	Pedestrian walk
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-12-24
Time	11:37

05, Pedestrian walk way

Sample Number	05
Sample Location	Pedestrian walk way
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-12-24
Time	12:04

Material Information

Sampled or Assumed?	Sampled
Material Acronym	C, 1
Material Description	Grey flex caulk
Is Material a Non-Friable Organically Bound (NOB)	Yes

Homogeneous Area	Between the concrete slabs of the walkway
Total Approximate Quantity	40 Inft
Total Count	(2)

(2), C, 2, Grey brittle caulk

Representative Photos



7, Walk way safety fence

Sample Number	7
Sample Location	Walk way safety fence
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-12-24
Time	11:47

8, Walkway safety wall

Sample Number	8
Sample Location	Walkway safety wall
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-12-24
Time	11:48

Material Information

Sampled or Assumed?	Sampled
Material Acronym	C, 2
Material Description	Grey brittle caulk
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Below the brackets for the walkway barrier.

Total Approximate Quantity	522 Inft
Total Count	(2)

(2), C, 3, Black soft grey caulk

Representative Photos



09, Pedestrian walk way

Sample Number	09
Sample Location	Pedestrian walk way
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-12-24
Time	12:04

10, Pedestrian walk way

Sample Number	10
Sample Location	Pedestrian walk way
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-12-24
Time	12:06

Material Information

Sampled or Assumed?	Sampled
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Material Acronym	C, 3
Material Description	Black soft grey caulk
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Walkway drain
Total Approximate Quantity	20 Inft
Total Count	(2)

(2), C, 4, Gray brittle caulk

11, Westbound bridge west side railing

Sample Number	11
Sample Location	Westbound bridge west side railing
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-12-31
Time	11:11

12, Westbound bridge west side railing

Sample Number	12
Sample Location	Westbound bridge west side railing
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-12-31
Time	11:22

Material Information

Sampled or Assumed?	Sampled
Material Acronym	C, 4
Material Description	Gray brittle caulk
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Below the brackets for the walkway barrier.
Notes	Under rail plates
Total Count	(2)

XRF Section

Niton XRF Model No.	24792
XRF Survey Completed	Yes
XRF Data Downloaded	Yes
XRF Shots >1.0 on non-metallic building materials	No
Date Data Downloaded	2018-12-24

General Information

Site Sketch Diagrams



Asbestos Samples Submitted to TRC Lab	Yes
Date Submitted to Lab	2018-12-31
App Name	WinBSI HBM Survey 1.0

Generate Report Documentation

Cloud-based reporting is still actively being developed, but some features that are at an advanced stage of development may be used with the understanding that unexpected errors may occur occasionally. 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?	jbrobinson@trcsolutions.com
Generate Documents	N/A

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

subject: State Bridge Program
State Project No. 96-201
Bridge Nos. 01218 and 04180
I-84 over Housatonic River
Newtown and Southbury

memorandum

date: August 22, 2017

to:

Mr. Adam G. Fox
Transportation Principal Engineer
Bureau of Engineering and Construction

from:

Andrew J. Cardinali Andrew Cardinali
Transportation Supervising Engineer
Bureau of Engineering and Construction

Digitally signed by Andrew Cardinali
DN: cn=Andrew Cardinali@dot.gov,
ou=Consultant Bridge Design, cn=Andrew
Cardinali
Date: 2017.08.22 14:33:47 -0400

Hazardous/Contaminated Materials Screening

This project consists of the following repairs:

- Superstructure replacement with a weathering steel multi-girder superstructure
- Addition of a concrete pier cap on top of the existing piers to support the new girder configuration
- Installation of new bearings at all locations and finger joints at the abutments
- Modification or reconstruction of the abutments to provide a longer bridge seat
- Construction of a drainage structure, which has an access door and connects to the storm drainage system, behind the backwall
- Repairs to areas of deteriorated concrete on all existing substructure units which are to remain
- Placement of riprap on the embankment in front of the south abutment of Bridge No. 01218
- Removal of debris that is collecting around the piers
- Installation of new approach slabs
- Replacement of navigation light conduit and junction boxes
- Repairs to the footings of Bridge No. 04180 Piers 2 and 3

A temporary work trestle in the I-84 median is proposed as a means of construction access. The proposed work trestle would be supported on temporary piles. In-water work includes the driving and removal of piles for the work trestle, and of cofferdam sheeting around Bridge No. 04180 Piers 2 and 3.

A crossover of traffic is the proposed method of maintenance and protection of traffic during construction. Excavation in the median and roadway is anticipated between the bridge carrying I-84 over Alpine Drive (south of Bridge Nos. 01218 and 04180) and the bridge carrying River Road over I-84 (north of Bridge Nos. 01218 and 04180).

Additional information is attached for your use in generating the screening evaluation for the subject bridges:

- Location Maps
- Limits of Work (2 sheets)

Please provide this office with the results of the screening evaluation for use in developing and advancing this project.

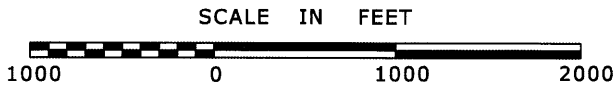
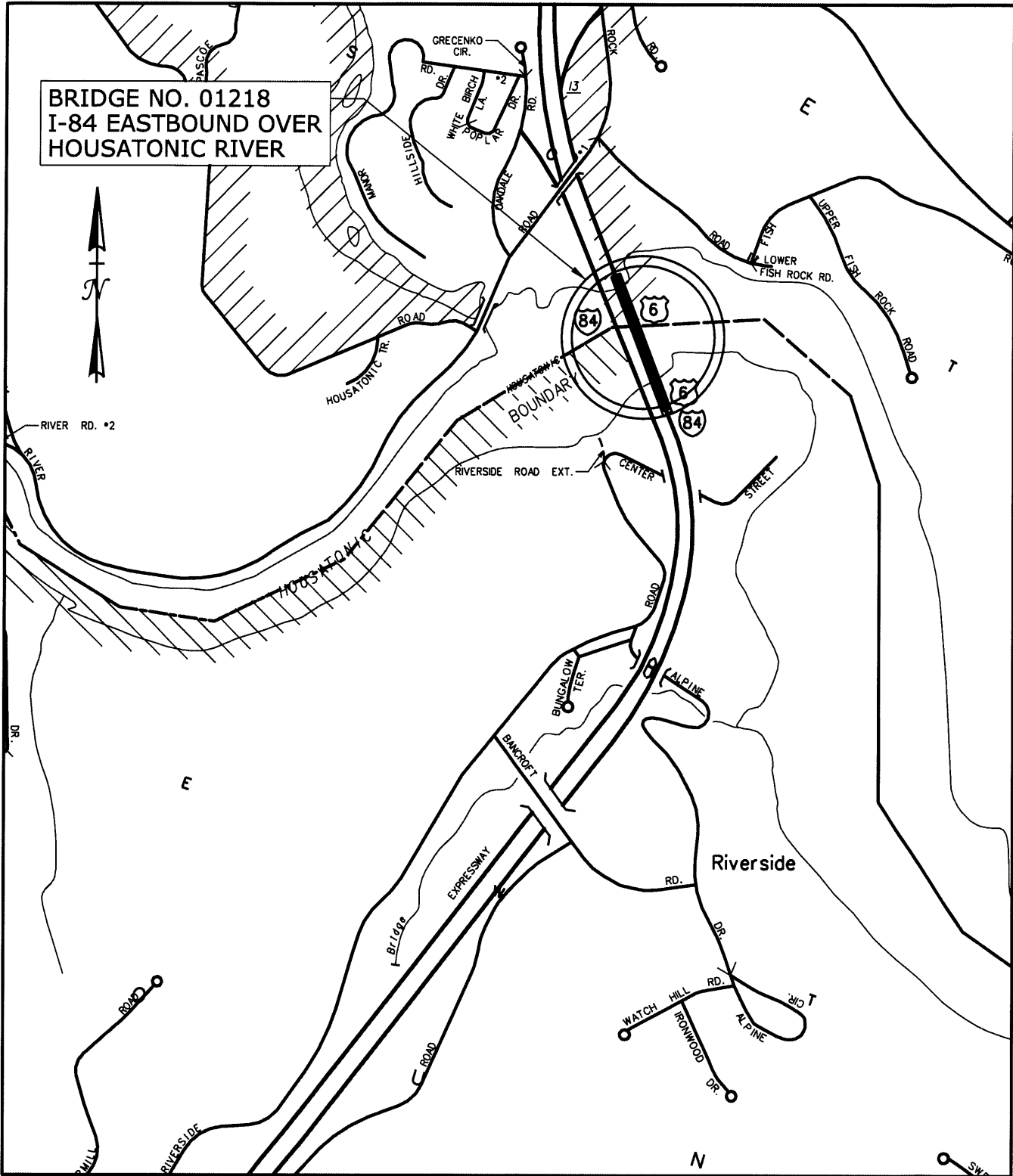
A reply by September 21, 2017 would be appreciated. Should a lead investigation or other hazardous material investigation be required, please provide the results, including all special provisions by February 6, 2019. The construction of this project will be funded with 100% State funds. Time expended for the completion of these activities should be charged to Project No. 96-201. If you have any questions or require additional information, please contact Ms. Dobieslawa A. Kania, Transportation Engineer III, at Ext. 3389.

Attachments

Tracey A. Brais/tab/dak

cc: Rabih M. Barakat – Andrew J. Cardinali – Dobieslaw A. Kania
Donald P. Wurst – Anand Seshadri – Tracey A. Brais (CME)

**BRIDGE NO. 01218
I-84 EASTBOUND OVER
HOUSATONIC RIVER**



STATE PROJECT NO.:
96-201

CITY/TOWN:
NEWTOWN/SOUTHBURY

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

**BRIDGE NO. 01218
LOCATION MAP**

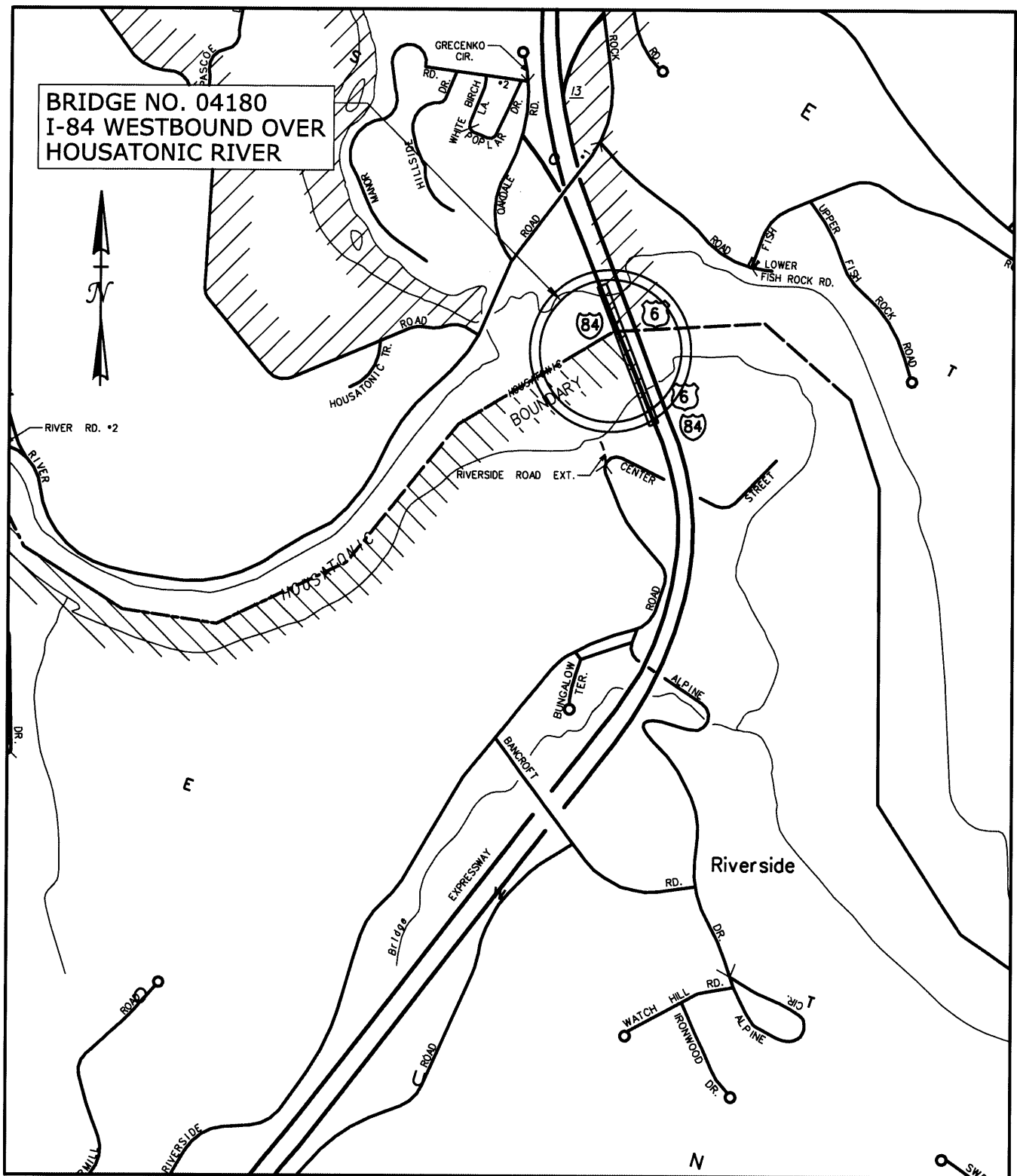
CME

CME Associates, Inc.
CONSULTING ENGINEERS &
ENVIRONMENTAL PLANNERS
333 E. RIVER DR., SUITE 400
EAST HARTFORD, CT 06108

DATE:
01/11/2016

SHEET NO.:
1 OF 1

**BRIDGE NO. 04180
I-84 WESTBOUND OVER
HOUSATONIC RIVER**



SCALE IN FEET



STATE PROJECT NO.:

96-201

CITY/TOWN:

NEWTOWN/SOUTHBURY



STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION



**BRIDGE NO. 04180
LOCATION MAP**



CME Associates, Inc.
CONSULTING ENGINEERS &
ENVIRONMENTAL PLANNERS
333 E. RIVER DR., SUITE 400
EAST HARTFORD, CT 06108

DATE:

01/11/2016

SHEET NO.:

1 OF 1