



January 31, 2019

Mr. Adam G. Fox, P.E.
Principal Engineer
Division of Environmental Compliance
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 No. 02931 (Box Culvert) Route 2A over Poquetanuck
Cove, Preston, CT
ConnDOT Assignment No. 519-5749
ConnDOT Project No. 113-107
TRC Project No. 289951.5749.0710

Dear Mr. Fox:

TRC performed a limited hazardous materials site investigation associated with the planned replacement of Bridge No. 02931, Route 2A over Poquetanuck Cove in Preston, Connecticut. At Bridge No. 02931, there were no painted surfaces identified on the actual bridge/box culvert components themselves that were scheduled for impact, therefore no lead paint was identified. Non-detectable levels of lead in paint were found on two (2) pipes and their brackets that ran alongside the north and south sides of the bridge. Since the paint was found to have non-detectable levels of lead, any paint waste stream associated with the pipes would be non-hazardous, non-RCRA waste. The black tar adhesive on metal pipe (north side & south side), grey caulk on pipe bracket and tan canvas pipe cover were sampled and found to contain no detectable amounts of asbestos. Laboratory results, site sketches, TRC Mobile Data Solutions report and site description 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

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 XLP901-A (Serial #25555) X Ray Fluorescence (XRF) Spectrum Analyzer
 Site: Bridge No. 02931, Preston, CT
 Project #: 289951.5749.0710
 Date(s): 12/26/2018
 Inspectors: Jaime Robinson

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										77.7	12/26/2018 10:14
2			0.3 Calibration							0.3	0.0	1.0	18.4	12/26/2018 10:22
3			0.0 Calibration							0.0	0.0	1.0	2.6	12/26/2018 10:22
4			0.7 Calibration							0.6	0.1	1.1	9.6	12/26/2018 10:22
5						VOID								
6						VOID								
7	Exterior	Preston	Bridge No. 02931	S	Pipe	Pipe Supports	Metal	Red	Defective	0.0	0.0	1.0	11.0	12/26/2018 10:34
8	Exterior	Preston	Bridge No. 02931	S	Pipe	Pipe Supports	Metal	Red	Defective	0.0	0.0	1.0	7.0	12/26/2018 10:36
9						VOID								
10	Exterior	Preston	Bridge No. 02931	S	Pipe		Metal	Black	Intact	0.0	0.0	1.0	9.5	12/26/2018 10:41
11			0.3 Calibration							0.3	0.2	1.2	2.2	12/26/2018 10:45
12			0.0 Calibration							0.0	0.0	1.0	0.7	12/26/2018 10:46
13			0.0 Calibration							0.0	0.0	1.0	1.8	12/26/2018 10:46
14			0.7 Calibration							0.6	0.1	1.0	7.0	12/26/2018 10:46

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



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

LAB ID #. 53202

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)	TURNAROUND TIME							
			COMP	GRAB							PLM:	TEM:	8hr	24hr	48hr	3day	5day	
PROJECT NAME: CONN DOT BRIDGE 02931 PRESTON CT INSPECTOR: JAIMS ROBINSON CARMEN JACKO																		
1	12/26/18	1015	X		NORTH SIDE	X												
2		1017	X		└	X				X								
3		1030	X		SOUTH SIDE BR HANGAR	X												
4		1032	X		└	X				X								
5		1040	X		SOUTH SIDE WEST	X												
6		1043	X		└ EAST	X												
7		1100	X		SOUTH SIDE WEST	X												
8		1103	X		TAR ADHESIVE ON PIPE 6450V	X				X								

Relinquished by: (Signature) 	Date: 12/26/18 Time: 1000	Received by: (Signature) 	Date: 12/26/18 Time: 1000
(Printed) CARMEN JACKO		Relinquished by: (Signature) (Printed)	
Remarks: SEND TO EPLIMPTON@CTRC SOLUTIONS.COM		Condition of Samples: Acceptable: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Comments:	



BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #: 0053202
 Project #: 289951.5749.0710
 Date Received: 12/26/2018
 Date Analyzed: 12/27/2018

Site: Bridge #02931, Preston, 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	Black (tar)	Yes	No	--	---	ND	None
2	Black (tar)	Yes	No	--	---	ND	None
3	Grey (caulk)	Yes	No	--	---	ND	None
4	Grey (caulk)	Yes	No	--	---	ND	None
5	Tan (canvas pipe cover)	Yes	No	--	20% synthetic fiber	ND	None
6	Tan (canvas pipe cover)	Yes	No	--	20% synthetic fiber	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.

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 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 #: 289951-5749-0710
 Client Reference: CTDOT - Bridge #02931, Preston, CT
 PO #: C289951
 Client #: 297
 Client Name: TRC Environmental Corp. (CT)

Batch: NT 17628
 Method: NOB
 Date Received: 12/31/2018
 Date Analyzed: 1/4/2019
 Date of Report: 1/4/2019

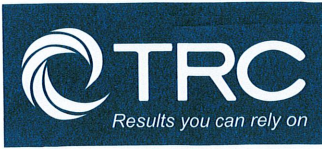
LAB ID	Field ID	Description:	Color	Initial Weight	CHR	AMO	ACT	CRO	ANT	TRE	% Other Non-ash	% Organic	% Carb	Total % Asbestos	Analyzed / Charged	Preped / Charged
NT132792	2	Tar Adhesive		.2466	.00	.00	.00	.00	.00	.00	1.71	95.86	2.43	ND	Yes	No
NT132793	4	Grey Caulk		.1395	.00	.00	.00	.00	.00	.00	25.59	73.69	.72	ND	Yes	No
NT132794	8	Tar Adhesive		.7092	.00	.00	.00	.00	.00	.00	16.36	83.01	.63	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



SUBJECT

Bridge 02931, Preston

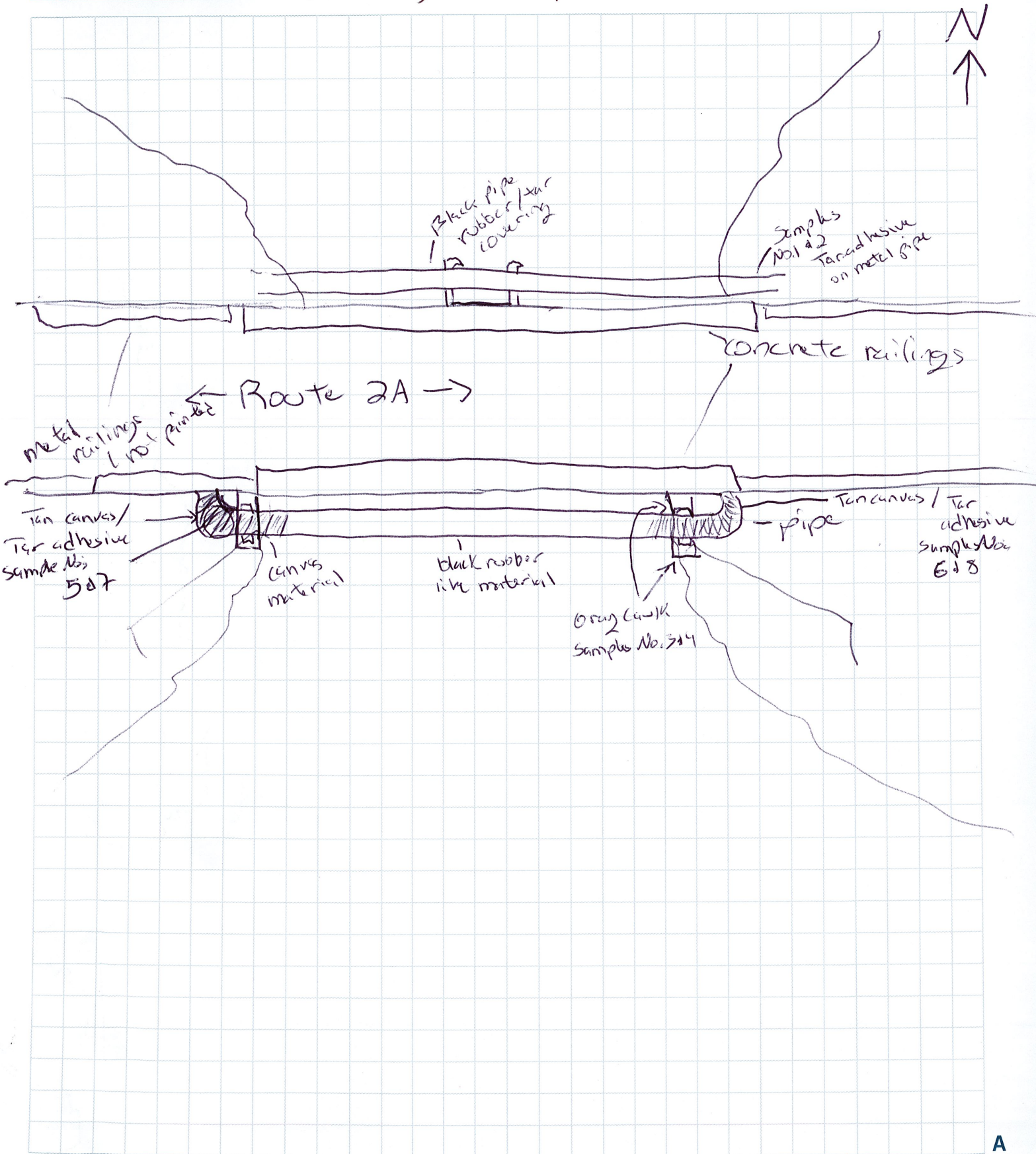
SHEET NO. _____ OF _____

PROJECT NO. _____

DATE 12-26-18

BY _____

CHK'D _____





SUBJECT CONN DOT BRIDGE 2931

SHEET NO. _____ OF _____

PROJECT NO. 289951

DATE 12/26/18

BY _____

CHK'D _____

CONCRETE BRIDGE
NO PAINT ON BRIDGE
NO COATINGS ON BRIDGE

PIPES RUNNING PARALLEL TO BRIDGE
ON BOTH NORTH AND SOUTH SIDE

NORTH SIDE PIPE $\approx 12''$
METAL PIPE
RUBBER OUTER COVER
TAR ADHESIVE ON METAL

SOUTH SIDE PIPE
METAL PIPE
TAR ADHESIVE ON PIPE
RUBBER OUTER COATING
CANVAS COATING ON RUBBER AT EACH
END OF PIPE
CAULK ON METAL BRACKET SUPPORTING PIPE

ConnDOT, Conn DOT Bridge 2931, New London, , Preston, 06382, CT, US, Route 2A,

Created	2018-12-26 11:36:08 EST by Carmen Jacko
Updated	2019-01-31 13:45:24 EST by Stephen Arienti
Location	41.4781993814199, -72.0994884800837
Status	■ Survey Complete

Job Information

Site Name	Conn DOT Bridge 2931
Address	Route 2A Preston, CT 06382
TRC Project Number	289951.5749.0710
Project Manager	Erik Plimpton
Inspector(s)	Jaime Robinson, Carmen Jacko
Client	ConnDOT
Type of Asbestos Survey	Reno/Demo
Additional Analysis for NOB Materials (Calc)	TEM NY NOB 198.4
Date	2018-12-26

Overview Photo





Looking south



Pipe on North side of bridge





South side of bridge



Under side of bridge



North side of bridge



North side of bridge



South side of bridge

Surveys Performed	Asbestos, XRF
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XRF Section

XRF Survey Completed	Yes
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XRF Data Downloaded	Yes
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XRF Shots >1.0 on non-metallic building materials	No
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General Information

Asbestos Samples Submitted to TRC Lab	Yes
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Date Submitted to Lab	2018-12-26
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App Name	WinBSI HBM Survey 1.0
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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.

Where should the document(s) be sent?	sarianti@trcsolutions.com
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Generate Documents	N/A
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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

subject: State Bridge Program
State Project No. 113-107
Bridge No. 02931
Route 2A over Poquetanuck Cove
Preston

memorandum

date: December 30, 2016

to:

Mr. Christopher J. Bonsignore
Transportation Principal Engineer
Bureau of Engineering and Construction

from:

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

Hazardous/Contaminated Materials Screening

This project consists of the following:

- Replacement of bridge with a 10 ft. wide x 8 ft. high reinforced concrete box culvert to be placed within limits of the existing span opening.
- Install (1) 4 ft. diameter smooth wall pipe 8 ft. west of the existing bridge behind the abutment. This temporary pipe for water handling will be filled with flowable fill and abandoned in place after the construction of box culvert is complete.
- A wetland mitigation component, consisting of Phragmites Control at a separate mitigation site, between the junction of Route 2A, Route 12, and the Thames River.

Excavation is anticipated for the replacement of Bridge No. 02931. The existing bridge will be demolished and removed, though most of the abutments will remain in place. The proposed box culvert will be placed within the existing abutments. The bypass pipe used for water handling west of the bridge will require excavation to install. Additionally, the wetland mitigation site may require ground excavation. Phragmites Control may be performed above ground through spraying and mowing to avoid excavation, should there be contamination or cultural resources that would prevent excavation at the mitigation site.

Additional information is attached for your use in generating the screening evaluation for the subject bridge and proposed wetland mitigation site:

- Location Maps
- Limits of Work

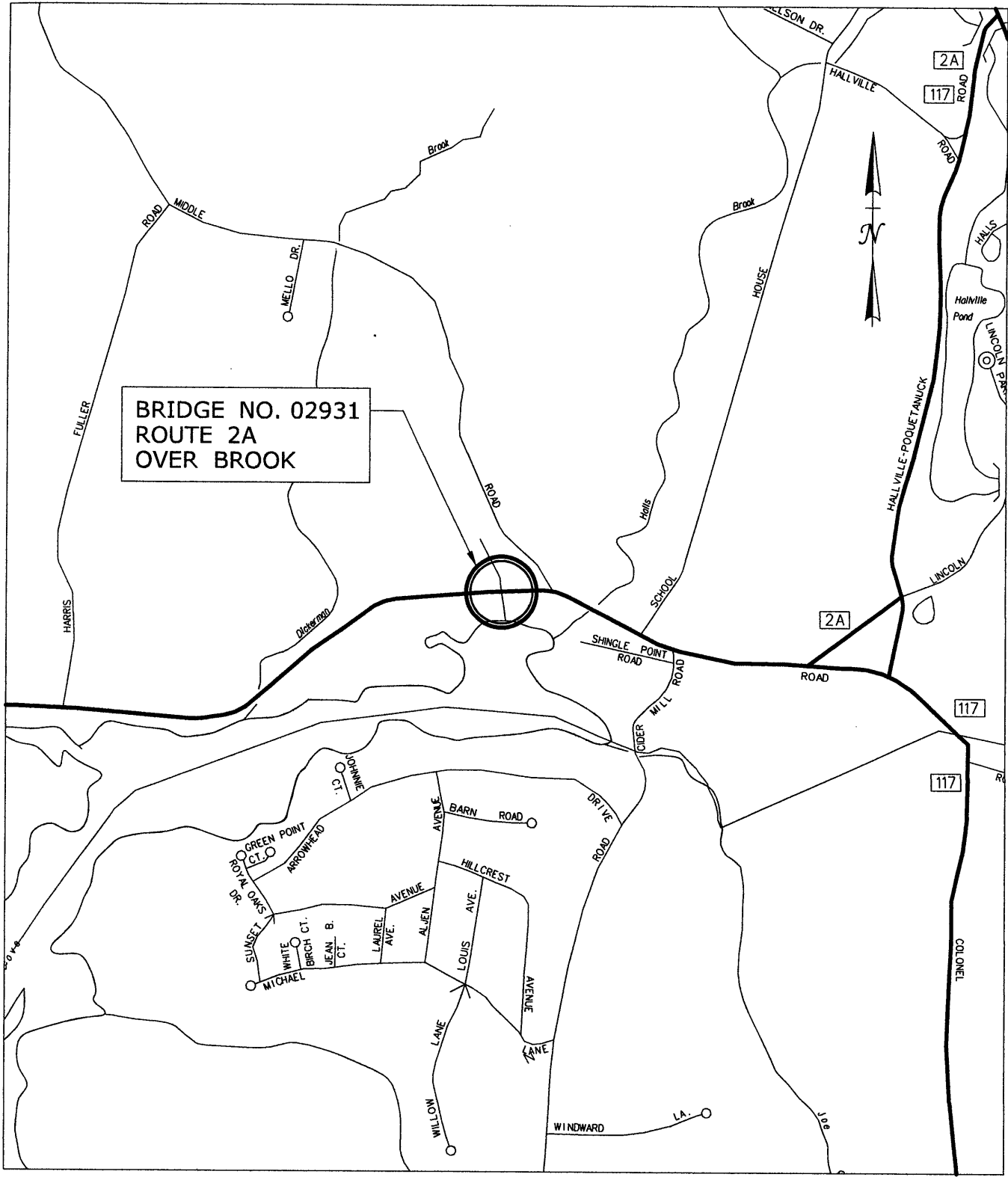
Please provide this office with the results of the screening evaluation for use in developing and advancing this project. A reply by February 24, 2017 for the initial screening would be appreciated. Should a lead investigation or other hazardous material investigation be required, please provide the results, including all special provisions, by November 17, 2017.

Time expended for the completion of these activities should be charged to Project No. 113-107. If you have any questions or require additional information, please contact Ms. Veronica M. Calin, Transportation Engineer III, at Ext. 3226.

Attachments

Susan Bakulski / mjg

cc: Rabih M. Barakat – Andrew J. Cardinali – Veronica M. Calin
Donald P. Wurst – Susan K. Bakulski (CME)



**BRIDGE NO. 02931
ROUTE 2A
OVER BROOK**

SCALE IN FEET



STATE PROJECT NO.:
113-107
CITY/TOWN:
PRESTON



STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION



CME Associates, Inc.
CONSULTING ENGINEERS &
ENVIRONMENTAL PLANNERS
333 E. RIVER DR., SUITE 400
EAST HARTFORD, CT 06109

DATE:
10/2014
SHEET NO.:
1 OF 1

**BRIDGE NO. 02931
LOCATION MAP**