



September 13, 2018

Mr. Adam G. Fox, P.E.
Principal Engineer
Environmental Compliance Section
Bureau of Engineering and Highway Operations
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. 04.27-01(15)
HazMat Inspection – Replacement of Bridge No. 06728 (Culvert), Rte. 9 over Pole
Bridge Brook, Haddam, CT
ConnDOT Assignment No. 514-5743
ConnDOT Project No. 170-1877 (60-158)
TRC Project No. 222165.5743.0710

Dear Mr. Fox:

TRC performed a limited hazardous materials site investigation associated with the planned renovation of Bridge No. 06728 (Culvert), Rte. 9 over Pole Bridge Brook in Haddam, Connecticut. There were no painted surfaces identified on the culvert, therefore no lead paint was identified. Black asphalt material inside the metal pipe arch of the culvert was sampled and found to contain no detectable asbestos. Laboratory results and 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
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

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

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

(DOT TAT)

LAB ID #.

52745

PROJECT NUMBER <i>2221605-5743-0710</i>			PROJECT NAME <i>Conn DOT - Haddam Pole Bridge Brook Culvert</i>			PARAMETERS			TURNAROUND TIME					
									PLM:	8hr	-	24hr	/	48hr
SIGNATURE <i>[Signature]</i>			INSPECTOR <i>Elise Barneau</i>			MATERIAL			TEM:	24hr	48hr	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)				
			COMP	GRAB										
<i>01</i>	<i>9/7/18</i>	<i>0913</i>			<i>Interior lining - culvert</i>	<i>X</i>					<i>TCL - black tar-like lining</i>			
<i>02</i>	<i>↓</i>	<i>0929</i>			<i>↓</i>	<i>X</i>			<i>X</i>					

Relinquished by: (Signature) <i>[Signature]</i>	Date: <i>9/7/18</i>	Received by: (Signature) <i>9/10/18</i> <i>[Signature]</i>	Relinquished by: (Signature)	Date:	Received by: (Signature)
(Printed) <i>Elise Barneau</i>	Time: <i>11630</i>	(Printed) <i>0830</i> <i>Williamson</i>	(Printed)	Time:	(Printed)
Remarks:			Condition of Samples: Acceptable: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Page of

BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #: 0052745
 Project #: 222165.5743.0710
 Date Received: 09/10/2018
 Date Analyzed: 09/10/2018

Site: Haddam Pole Bridge Brook Culvert

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

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
01	Black (tar-like lining)	Yes	No	--	---	ND	None
02	Black (tar-like lining)	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: 09/11/2018
 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 #: 222165.5743.0710
 Client Reference: CT DOT - Haddam Pole Bridge Brook Culvert
 PO #: C222165
 Client #: 297
 Client Name: TRC Environmental Corp. (CT)

Batch: **NT 17468**
 Method: NOB
 Date Received: 9/12/2018
 Date Analyzed: 9/14/2018
 Date of Report: 9/14/2018

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types					% Other		% Carb.	Total % Asbestos	Analyzed / Preped /		
					CHR	AMO	ACT	CRO	ANT	TRE	Non-asb			Organic	Charged	Charged
NT131725	02	Black Tar-like Lining		2720	00	00	00	00	00	00	.37	99.19	44	ND	Yes	No

Comments:

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


 Aimee Cormier, Analyst

ConnDOT, Pole Bridge Brook Culvert, , Pole Bridge brook culvert, Haddam, , CT, , Route 9,

Created	2018-09-07 11:00:49 EDT by Tyler MacGillivray
Updated	2018-09-10 12:50:58 EDT by Stephen Arienti
Location	41.8406869797426, -72.64885718941
Status	■ Survey Complete

Job Information

Site Name	Pole Bridge Brook Culvert
Address	Route 9 Haddam, CT
TRC Project Number	222165.5743.0710
Project Manager	Erik Plimpton, Stephen Arienti
Inspector(s)	Elise Barrieau, Tyler Macgillivray
Client	ConnDOT
Type of Asbestos Survey	Reno/Demo
Additional Analysis for NOB Materials (Calc)	TEM NY NOB 198.4
Date	2018-09-07

Overview Photo



Surveys Performed XRF, Asbestos

Asbestos Section

(2), TL1, Black tar-like lining

01, Interior lining of Culvert

Sample Number 01

Sample Location	Interior lining of Culvert
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-09-07
Time	09:13

02, Interior lining of Culvert

Sample Number	02
Sample Location	Interior lining of Culvert
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2018-09-07
Time	09:29

Material Information

Sampled or Assumed?	Sampled
Material Acronym	TL1
Material Description	Black tar-like lining
Is Material a Non-Friable Organically Bound (NOB)	Yes
Total Count	(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

General Information

Asbestos Samples Submitted to TRC Lab	No
App Name	WinBSI HBM Survey 1.0