



June 3, 2015

Mr. Christopher Bonsignore, 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: Judith Nemecek, P.E. / Amie Maines, P.E.

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance
Agreement No. 08.24-03(11)
HazMat Inspection - Bridge No. 00425, Route 4 over West Branch Leadmine Brook,
Harwinton, CT
ConnDOT Assignment No. 504-5079
ConnDOT Project No. 65-112
TRC Project No. 183572.5093.00710

Dear Mr. Bonsignore:

TRC performed a limited survey for hazardous building materials associated with the planned rehabilitation of Bridge No. 00425 in Harwinton, Connecticut. Results of the survey identified lead paint to be present on the metal railing components (4.7-10.0 mg/cm²) of Bridge No. 00425. Results obtained from TCLP waste stream sampling and analysis for leachable lead from the paint on the metal railing components, characterized the paint waste stream at Bridge No. 00425 as EPA RCRA/CTDEEP hazardous waste (110 mg/l). Due to inaccessibility, lead paint is presently presumed on the painted surfaces of the structural steel and any paint waste associated with the structural steel is presently presumed as EPA RCRA/CTDEEP hazardous waste. Joint membrane seam material and associated tar at abutment/wing wall joints were sampled for asbestos content, and were found to contain asbestos. Also, pigeon guano accumulations were identified on the abutments of the bridge. Associated laboratory data and bridge information 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 "Erik R. Plimpton".

Erik R. Plimpton, P.E., CHMM, CMC
Program Manager

A handwritten signature in black ink, appearing to read "E. Burke".

E. Burke, P.E.
Engineer in Charge



Lead Based Paint Measurement Summary Table

Device(s): Niton XLP301-A (Serial #24792) X Ray Fluorescence (XRF) Spectrum Analyzer
 Site: CT DOT - Bridge No. 00425, Harwinton, CT
 Project #: 183572.5093.0710
 Date(s): 4/30/2015
 Inspector: B. Aston (Lead Inspector/Risk Assessor #001838)

Number	Interior/ Exterior	Location	Bridge #	Structure	Feature	Material	Color	Condition	Reading (mg/cm2)	Precision (mg/cm2)	Depth Index	Duration (sec)	Date/Time
1												147.2	4/30/2015 9:39
2			Self Calibration						0.0	0.0	1.0	3.6	4/30/2015 9:41
3			0.0 Calibration						1.6	0.1	1.2	16.0	4/30/2015 9:42
4			1.6 Calibration						0.7	0.1	1.1	10.0	4/30/2015 9:42
			0.7 Calibration										
5	Exterior	Harwinton	Bridge No. 00425	Railing (north)		Metal	Grey	Defective	9.0	1.1	2.2	12.7	4/30/2015 9:47
6	Exterior	Harwinton	Bridge No. 00425	Railing (north)		Metal	Grey	Defective	10.0	1.3	1.9	10.8	4/30/2015 9:48
7	Exterior	Harwinton	Bridge No. 00425	Railing (north)		Metal	Grey	Defective	6.2	1.0	1.8	11.9	4/30/2015 9:49
8	Exterior	Harwinton	Bridge No. 00425	Railing (south)		Metal	Grey	Defective	9.3	1.4	2.0	8.5	4/30/2015 9:50
9	Exterior	Harwinton	Bridge No. 00425	Railing (south)		Metal	Grey	Defective	8.8	1.1	1.7	12.4	4/30/2015 9:51
10	Exterior	Harwinton	Bridge No. 00425	Railing (south)		Metal	Grey	Defective	4.7	0.4	2.0	10.5	4/30/2015 9:52
11			0.0 Calibration						0.0	0.0	1.0	5.5	4/30/2015 10:03
12			1.6 Calibration						1.5	0.1	1.1	9.1	4/30/2015 10:03
13			0.7 Calibration						0.7	0.1	1.1	6.4	4/30/2015 10:04

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

80 Lupes Drive
Stratford, CT 06615



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

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

Analytical Report

CET# 5050037

Report Date: May 04, 2015
Project: CTDOT, Bridge 00425
Project Number: 183572.5093.0710

Connecticut Laboratory Certificate: PH 0116
Massachusetts laboratory Certificate: M-CT903



New York Certification: 11982
Rhode Island Certification: 199

CET # : 5050037
Project: CTDOT, Bridge 00425
Project Number: 183572.5093.0710

SAMPLE SUMMARY

The sample(s) were received at 18.3°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
1	5050037-01	Paint Chip	4/30/2015 10:15	05/01/2015

Analyte: TCLP Lead [EPA 6010C]

Analyst: SS

Prep: EPA 3005A-1311

Matrix: Extract

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
5050037-01	1	110	0.013	mg/L	1	B5E0205	05/02/2015	05/04/2015 15:01	

CET # : 5050037

Project: CTDOT, Bridge 00425

Project Number: 183572.5093.0710

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

Sincerely,



David Ditta
Laboratory Director

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.

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 the specified detection 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 # : 5050037

Project: CTDOT, Bridge 00425

Project Number: 183572.5093.0710

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 6010C in Soil</i>	
Lead	CT,NY

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2016
NY	New York Certification (NELAC)	11982	04/01/2015

BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #: 0045771
 Project #: 183572.5093.0710
 Date Received: 04/30/2015
 Date Analyzed: 04/30/2015

Site: Bridge #00425

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	Yes	No	--	---	20%	Chrysotile
2	--	--	--	--	--	NA/PS	--
3	Black	Yes	No	--	---	20%	Chrysotile
4	--	--	--	--	--	NA/PS	--

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, negative results must 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), and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey which utilizes 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, 2015. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through October 1, 2016. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and the QC data related to the samples is available upon written request from the 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: *Amanda Parkins* Reviewed by: *K. Williamson* Date Issued: 04/30/2015
 Amanda Parkins, Laboratory Analyst Kathleen Williamson, Laboratory Manager

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
 Supersede Previous Edition

LAB ID #. 45771

PROJECT NUMBER 183572-5093-00710		PROJECT NAME CT DOT Bridge # 00425		PARAMETERS					TURNAROUND TIME								
				PLM EPA 600/R3/116 (POSITIVE STOP)	PLM EPA 600/R3/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 1984 (IF PLM SERIES NEG)	PLM:	TEM:	8hr	24hr	48hr	3day			
SIGNATURE 		INSPECTOR Bayu Astu		MATERIAL													
FIELD SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION	PLM EPA 600/R3/116 (POSITIVE STOP)	PLM EPA 600/R3/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 1984 (IF PLM SERIES NEG)	PLM:	TEM:	8hr	24hr	48hr	3day	
			COMP	GRAB													
1	4/30/15	950	x		Bridge # 00425	x				x							
2		955	x		↓	x				x							
3		1010	x		↓	x				x							
4		1015	x		↓	x				x							

Relinquished by: (Signature) 	Date: 4/30/15	Received by: (Signature) 	Date: 4/30/15
(Printed) Bayu Astu	Time: 1500	(Printed) Steve Antrim	Time: 1500
Remarks: Results to STEVE ANTRIM		Condition of Samples: Acceptable: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
		Comments:	

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

memorandum

subject: Hazardous Contaminated Materials Screening
State Project No. 65-112
Bridge No. 00425
Route 4 over West Branch Leadmine Brook
Harwinton

date: May 5, 2014

from:

to:

Mr. Gregory M. Dorosh
Transportation Principal Engineer
Bureau of Engineering and Construction


David A. Cutler
Transportation Supervising Engineer
Bureau of Engineering and Construction

Hazardous/Contaminated Materials Screening

This project consists of the following repairs:

- Replace the existing superstructure with a new galvanized steel prefabricated bridge unit system including a new 8.5" thick reinforced concrete deck
- Install new elastomeric bearings and modify bearing pedestals accordingly
- Remove safety-walk and replace substandard parapet
- Install new approach slabs and modify backwalls accordingly
- Install new waterproofing membrane and bituminous overlay
- Install new asphaltic plug deck joints
- Replace substandard guide rail and attachments along the approaches
- Patch deteriorated areas on substructure
- Install two new catch basins and new outlet pipes in the west approach

Roadway excavation on Route 4 will be required for the installation of the approach slabs.

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

- Location Map
- 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 June 2, 2014 would be appreciated. Time expended for the completion of these activities should be charged to Project No. 170-3064. If you have any questions or require additional information, please contact Mr. Andrew J. Cardinali, Transportation Engineer III, at Ext. 3315.

Attachments

Tracey. A. Brais / tab

cc: Timothy D. Fields – David A. Cutler – Andrew J. Cardinali
Jacob J. Argiro – Donald P. Wurst (CME)

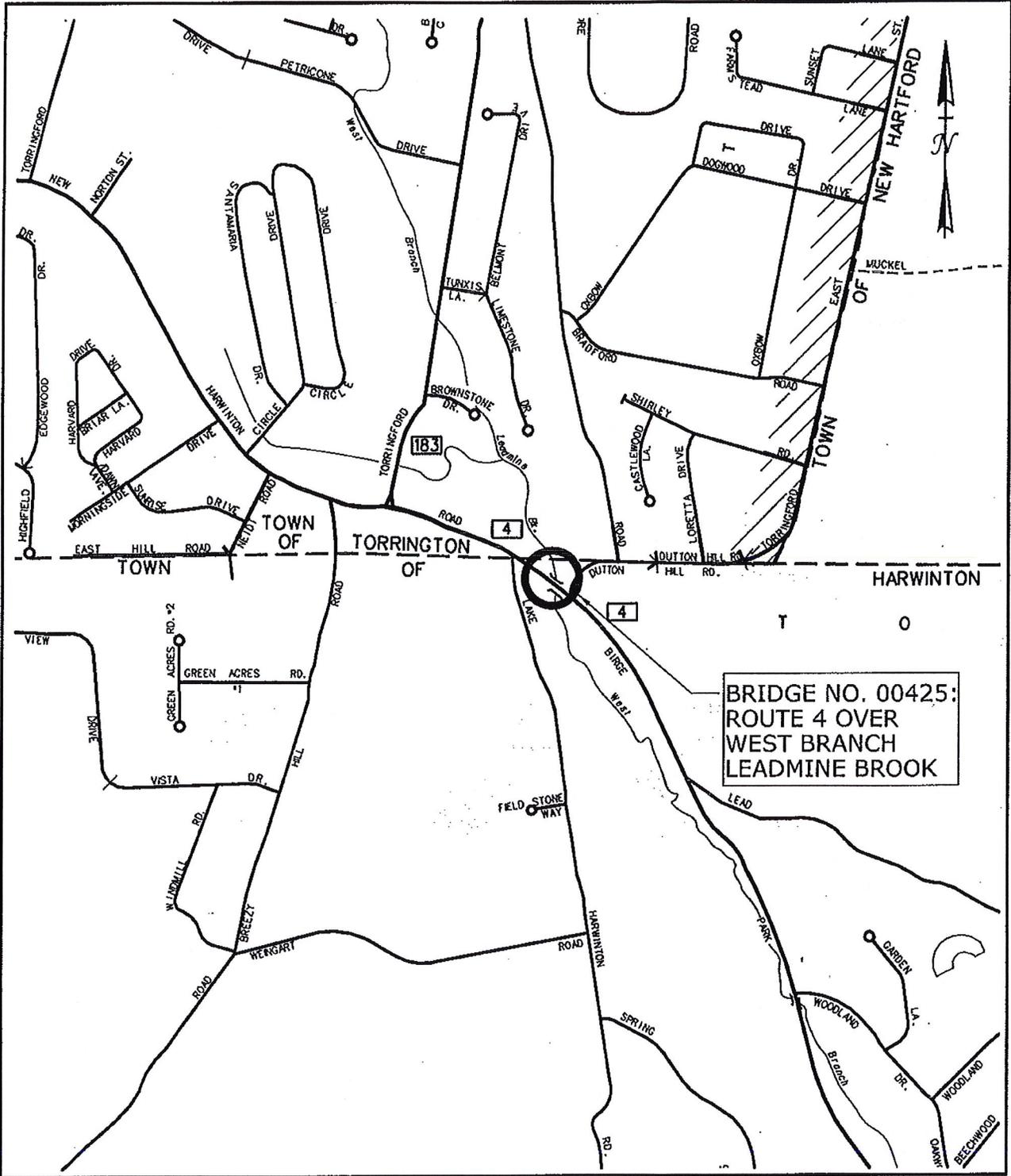
RECEIVED

MAY 13 2014

Division of Environmental Control

Judy

5/16/2014



SCALE IN FEET



STATE PROJECT NO.:

65-112

CITY/TOWN:

HARWINTON



STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION



BRIDGE NO. 00425
LOCATION MAP

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

DATE:

04/2014

PAGE:

1