

March 24, 2025

Mr. Jason Coite, 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: Michael Bedson, P.E. / Felix Mathieu

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance

Agreement No.: 10.04-02 (23)

HazMat Inspection – Removal of I-84 EB Exit 21 Off-Ramp, Waterbury, CT

ConnDOT Assignment No. 524-8307 ConnDOT Project No. 151-340 TRC Project No. 501871.8307.0710

Dear Mr. Coite:

TRC performed a limited survey for hazardous building materials associated with the removal of the I-84 EB Exit 21 off-ramp in Waterbury, Connecticut. The scope of the inspection included Bridge 03191F, Bridge No. 03196 (lighting improvements only) and traffic signals and pedestrian control equipment at all the Traffic Signal Intersections detailed in the provided PP0151-014 Traffic Signal List. Results of the survey identified the following:

- Results of the survey identified no detectable levels of lead on the painted structural steel/metal bridge components on the underside of Bridge No. 03191F; therefore, any paint waste generated would considered be non-hazardous, non-RCRA waste. However, lead paint was identified on the metal railing bridge components on Bridge No. 03191F. The projected paint waste debris from the painted metal railing bridge components are presently presumed as CTDEEP/RCRA hazardous lead waste.
- Lead paint is <u>presently presumed</u> on various metal traffic components (i.e. traffic signals, crosswalk hoods, crosswalk push buttons, span poles, controller cabinets, etc.) at all the listed Traffic Signal Intersections.
- Any paint waste generated from the lead painted metal traffic components at the Intersection Sites should be tested for TCLP lead to determine proper waste disposal (hazardous vs. non-hazardous).
- All span poles at the Intersection Sites were found to be galvanized (unpainted) with the exception of one span pole at Intersection No. 151-212.
- Suspect white caulking (C2) around the base of metal railing posts on Bridge 03191F was sampled and found to contain asbestos. All other suspect caulkings and bridge/sidewalk expansion joint materials/fillers at Bridge 03191F and the Intersection Sites were sampled and found to contain no detectable amounts of asbestos.
- Potential universal waste (UW) and Connecticut Regulated Waste (CRW) items (i.e. Hg lamps/PCB ballasts and/or printed circuit boards) associated with the lighting on I-84 EB Exit 21 off-ramp/Bridge 03191F, lighting under Bridge No. 03196 and traffic lights, crosswalk signal hoods/buttons and controller cabinets at the Intersections are present at the Sites.
- Bird/pigeon guano accumulations were identified/presumed on abutments, piers, and structural steel components at Bridge Nos. 03191F and 03196.
- No homeless activity/bloodborne pathogen (BBP) concerns (i.e. needles, sharps, biohaz waste, etc.) were identified at any of the locations.

Laboratory results, TRC Mobile Data Solutions report & project information are attached.

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

Very Truly Yours,

TRC

Stephen R. Arienti, CHMM

20 K, Cini

N.E. Regional Practice Leader – Engineer in Charge

Reviewed By:

Find RM

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



Lead Based Paint Measurement Summary Table

Device(s): Niton XLP301-A (Serial #22323) X Ray Fluorescence (XRF) Spectrum Analyzer

Client: ConnDOT

Site: I-84 EB Exit 21 Off-Ramp, Waterbury, CT

Project #: 501871.8307.00710

Date(s): 12/6/2024 Inspector: Alex Lemay

Number	Floor	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm²)	Precision (mg/cm²)	Depth Index	Duration (sec)	Date/Time
1	Shutter Calibration							3.8	0.0		102.21	12/6/2024 13:50
2	0.0 Calibration							0.0	0.0	1	4.25	12/6/2024 13:52
3	3.5 Calibration							3.7	0.6	1.33	3.42	12/6/2024 13:53
4	1.6 Calibration							1.6	0.2	1.18	3.42	12/6/2024 13:53
5	Bridge 03191F		Structural Support	Beam	Metal	White	INTACT	0.0	0.0	1	5.71	12/6/2024 14:04
6	Bridge 03191F		Structural Support	Beam	Metal	White	INTACT	0.0	0.0	1	3.42	12/6/2024 14:05
7	Bridge 03191F	С	Structural Support	Beam	Metal	White	INTACT	0.0	0.0	1.29	4.57	12/6/2024 14:05
8	Bridge 03191F	В	Structural Support	Beam	Metal	White	INTACT	0.0	0.0	1	2.85	12/6/2024 14:06
9	Bridge 03191F	D	Structural Support	Beam	Metal	White	INTACT	0.0	0.0	2.37	4.56	12/6/2024 14:06
10	Bridge 03191F	D	Structural Support	Beam	Metal	White	INTACT	0.0	0.0	1	3.71	12/6/2024 14:07
11	Bridge 03191F	В	Structural Support	Beam	Metal	White	INTACT	0.0	0.0	1	3.72	12/6/2024 14:09
12	Bridge 03191F	С	Structural Support	Beam	Metal	White	INTACT	0.0	0.0	1	4.54	12/6/2024 14:09
13	Bridge 03191F		Topside Railing	Post	Metal	Grey	INTACT	0.2	0.2	4.02	3.72	12/6/2024 14:12
14	Bridge 03191F		Topside Railing	Post	Metal	Grey	INTACT	0.3	0.2	4.61	5.14	12/6/2024 14:12
15	Bridge 03191F		Topside Railing	Rail	Metal	Grey	INTACT	0.2	0.1	4	6.54	12/6/2024 14:13
16	Bridge 03191F		Topside Railing	Rail	Metal	Grey	INTACT	0.4	0.3	8.52	4.28	12/6/2024 14:13
17	VOID											12/6/2024 14:14
18	0.0 Calibration							0.0	0.0	1	3.41	12/6/2024 14:34
19	3.5 Calibration							3.5	0.3	1.32	4.53	12/6/2024 14:34
20	1.6 Calibration							1.7	0.1	1.2	8.5	12/6/2024 14:35

Industrial Hygiene Laboratory 21 Griffin Road North Windsor, CT 06095 (860) 298-6308



CLIENT: CT Department of Transportation Lab Log #: 0065990

Project #: 501871.8307.0710

Date Received: 12/13/2024
Date Analyzed: 12/17/2024

Site: Exit 21, I-84 Exit Ramp, Bridges & Intersections, Waterbury, CT

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

Sample No.	Sample Location	Homogeneous Material Description		her Matrix Materials	Asbestos %	Asbestos Type
01	Market Square and South Main St Northeast corner around pedestrian walk but	Black JF1 - joint filler between sidewalk segments	90%	cellulose	ND	None
02	Meadow St and Grand St northeast corner	Black JF1 - joint filler between sidewalk segments	90%	cellulose	ND	None
03	West Liberty and South Main St	Black JF1 - joint filler between sidewalk segments	90%	cellulose	ND	None
04	South Main St and East Clay	Black JF1 - joint filler between sidewalk segments	90%	cellulose	ND	None
05	Market Square and South Main St southeast corner	Black EJ1 - expansion Joint tar around curb of storm drain	60%	cellulose	ND	None
06	Market Square and South Main St Southeast corner	Black EJ1 - expansion Joint tar around curb of storm drain	60%	cellulose	ND	None
07	Meadow St and Grand St Southwest Corner	Black JF2 - styrofoam with tar-like coating on top			ND	None
08	Meadow St and Grand St Northwest Corner	Black JF2 - styrofoam with tar-like coating on top			ND	None
09	West liberty at south main southwest corner	Black EJ2 - expansion joint tar between sidewalk segments	20%	cellulose	ND	None
10	West liberty at south main southwest corner	Black EJ2 - expansion joint tar between sidewalk segments	20%	cellulose	ND	None
11	Bank st at west liberty southeast corner	Black/Brown JF3 - joint filler at base of controller box	90%	cellulose	ND	None
12	Bank st at west liberty southeast corner	Black/Brown JF3 - joint filler at base of controller box	90% cellulose		ND	None
13	Meadow st at bank st controller box by Exxon	Grey C1 - caulk where metal component of controller box meets concrete base.			ND	None
14	Meadow st at bank st controller box at Exxon	Grey C1 - caulk where metal component of controller box meets concrete base.			ND	None
15	Bridge 03191F between railing and concrete abutment wall	White C2 - caulking between railing base and concrete abutment wall			3%	Chrysotile
16	Bridge 03191F between railing and concrete abutment wall				NA/PS	

Industrial Hygiene Laboratory 21 Griffin Road North Windsor, CT 06095 (860) 298-6308



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

Sample No.	Sample Location	Homogeneous Material Description	Other Matrix Materials	Asbestos %	Asbestos Type
17	Between expansion joints on top of bridge 03191F	Black EJ3 - expansion joint tar		ND	None
18	Between expansion joints on top of bridge 03191F	Black EJ3 - expansion joint tar		ND	None
19	Between granite curb and concrete abutment wall on bridge 03191F	Black EJ4 - expansion joint		ND	None
20	Between granite curb and concrete abutment wall on bridge 03191F	Black EJ4 - expansion joint		ND	None

ND - asbestos was not detected

Trace - asbestos was observed at level of 1% or less - This is the reporting limit

NA/PS - Not Analyzed / Positive Stop

SNA - Sample Not Analyzed- See Chain of Custody for details

Notes: Asbestos-Containing Material (ACM) is any material containing more than 1% asbestos

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 18/01A EPA -- 40 CFR Appendix E to subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples and 18/A03 EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials 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 101424-01. TRC is accredited by the AIHA Laboratory Accreditation Programs AIHA LAP (ID: LAP-100122) in the Industrial Hygiene Program (IHLAP) for PLM. 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, as received by the laboratory.

Analyzed by: Reviewed by

Date Issued

Kathleen Williamson, Laboratory Manager

12/17/2024

♦ TRC

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

3day Sday EJ1 - Expansion Joint tar around curb of storm drain EJ1 - Expansion Joint tar around curb of storm drain JF1 - Black joint filler between sidewalk segments JF2 - Styrofoam with tar like coating on top JF2 - Styrofoam with tar like coating on top 48hr 3day TURNAROUND TIME MATERIAL 24hr 48hr LAB ID#. 24hr 8hr PLM: TEM: (IE DEM SERIES NEC) × × × TEM NY NOB 198.4 (%0I> 8 %I< AI) PARAMETERS POINT COUNT VAVIASE BY LAYER × × (POSITIVE STOP) (w/ gravimetric reduction) PLM EPA 600/R93/116 (POSITIVE STOP) × × × × × × × × PLM EPA 600/R93/116 Market Square and South Main St ConnDOT - Exit 21 I-84 exit ramp West Liberty and South Main St Market Square and South Main Market Square and South Main bridges and intersections, I-84 Exit SAMPLE LOCATION South Main St and East Clay Meadow St and Grand St Meadow St and Grand St Meadow St and Grand St Northeast corner around pedestrian walk button Andrew Smith, Cole Bova Southwest Corner Northwest Corner Southeast corner northeast corner southeast corner 21, Waterbury, CT PROJECT NAME INSPECTOR CEVB × × × TYPE × × × × × COMB 11:02 11:36 10:24 10:25 11:11 11:11 11:26 11:27 TIME 12/13/2024 12/13/2024 12/6/2024 12/6/2024 12/6/2024 12/6/2024 12/6/2024 12/6/2024 PROJECT NUMBER DATE 501871.8307.0710 SIGNATURE SAMPLE NUMBER FIELD 02 03 04 05 07 90 80 01

Relinquished by: (Signature)	Date:	Received by: ((Signature)	Make	12/26 Relinquished by: (Signature)	y: (Signature)	Date:	Received by: (Signature)
Why	2/(1/2)	6	M	13/21				
Printed)	Time:	(Printed)	1	(130	(Printed)		Time:	(Printed)
Remarks:		12	Jan		0 4	Condition of Samples:	- N	Page 1 of 3
					Ü	Comments:		C to 1 offer

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

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

Supersede Previous Edition Edition: October 2009

EL	PROJECT NAME ConnDOT — Exit 21 I-84
nd intersections, I-84 Exit bury, CT	bridges and intersections, I-84 Ex 21, Waterbury, CT
TOR mith. Cole Bova	INSPECTOR Andrew Smith. Cole Boya
	TYPE
SAMPLE LOCATION	CRAB SAMPLE LOCATION
t liberty at south main	X West liberty at south main southwest corner
t liberty at south main hwest corner	X West liberty at south main southwest corner
k st at west liberty southeast er	X Bank st at west liberty southeast corner
k st at west liberty southeast er	X Bank st at west liberty southeast corner
dow st at bank st controller by Exxon	X Meadow st at bank st controller box by Exxon
dow st at bank st controller at Exxon	X Meadow st at bank st controller box at Exxon
ge 03191F between railing concrete abutment wall	X Bridge 03191F between railing and concrete abutment wall
ge 03191F between railing concrete abutment wall	X Bridge 03191F between railing and concrete abutment wall

Selinquished by: (Signature)	Date: 12/13/2	Received by: (Signature)	11	12/0/20	Relinquish	12/2/25(Relinquished by: (Signature)	Date:	Received by: (Signature)
Printed)	Time: 11:00	(Printed)	Morns	0 (130	(Printed)		Time:	(Printed)
Remarks:						Condition of Samples: / Acceptable: Yes Comments:	No	Page 2 of 3

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 #. 6599C	ME TURNAROUND TIME	Exit 21 I-84 exit ramp PARAMETERS PLM: 8hr 24hr 48hr X 3day	ctions, I-84 Exit		198.4 (AOL) CAER AOA) AOA) 108.4 COA)	AOB COL RY L S L S COL RY L S COL RY R S COL RY R S R R R R R R R R R R R R R R R R	(IE DIW SE LEW AA E L	expansion joints on top X EJ3 - Black expansion joint tar 03191F	EJ3 - Black expansion joint tar EJ3 - Black expansion joint tar	granite curb and hurden X E14 - Expansion joint		granite curb and	butment wall on bridge X EJ4 - Expansion joint
	PROJECT NAME	exit ramp		((TOP)	AE S QOO/F	(POSITIV	Between expansion joints on top X of bridge 03191F	Between expansion joints on top X of bridge 03191F	ı bridoe	0	Between granite curb and	X concrete abutment wall on bridge X
	PROJE	ConnDC	bridges 21, Wat	INSPECTOR	Andrew	TYPE	СВАВ	X Be of	X Be	X conc 0319		Be	X
						T	СОМР			1			
7606							TIME	13:26	13:27	13.28			13:29
FAX (860) 298-6380	NUMBER		7.0710	RE	6		DATE	12/6/2024	12/6/2024	12/6/2024			12/6/2024
FAX (860) 298-6380	PROJECT NUMBER		501871.8307.0710	SIGNATURE	Maril		FIELD SAMPLE NUMBER	17	18	19			20

Relinquished by: (Signature)	Date: 12/17/24	Received by: (Signature) , 12/13/24	Relinquished by: (Signature)	Date:	Received by: (Signature)	
(Printed)	Time;	Princed Marine (130	(Printed)	Time:	(Printed)	
Remarks:			Condition of Samples: Acceptable: Yes V No Comments:	No.	Page 3 of 3	

Aerobiology Laboratory Associates, Inc.

22 Cummings Park, Woburn, MA 01801 Ph. 781-935-3212 Fax 781-932-4857 TEM Bulk Chain of Custody Record

Date: 12/17/2024

PO#: C501871 Analysis Type: Chatfield EPA N.O.B Qualitative

Client: TRC

Client Job#: 501871.8307.0710

Client Job Ref./Loc.: CT DOT- Exit 21, I-84 Exit Ramp, Bridges & Intersections, Waterbury, CT

Relinquished by: K. Williamson

Received by:

Report to: KWilliamson@trccompanies.com; SArienti@trccompanies.com; EPlimpton@trccompanies.com;

KGraff@trccompanies.com; DCarillo@trccompanies.com; MKostruba@trccompanies.com

Samplers Name: A. Smith & C. Bova

Turnaround Time: <12 Hour <24 Hour <48 Hour <3 Day 5 Day Other:

							For Lab Use Only
Client ID#	Lab	ID#	Descript	ion	Location	Acceptab on Receip	
01	659	90	Joint Fill	ler	See COC		
05	659	90	Joint Ta	ır			
07	659	90	Tar-Like Co	oating			
09	659	90	Expansion Jo	int Tar			
11	659	90	Joint Fill	ler			
13	659	90	Caulk				
17	659	90	Expansion Jo	int Tar			
19	659	90	Expansion	Joint			
			•				
1			T				
For Lab Use Only	# Spies	Total	Client #	Batch #	Results	Reported	Comments



Steve Arienti
TRC Companies, Inc. (CT)
21 Griffin Road North
Windsor, CT 06095

January 02, 2025

Dear Steve Arienti,

Results of samples you described and submitted to Pace Analytical Services, LLC. 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, 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. Pace Analytical Services, LLC. 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 Pace Analytical Services, LLC.'s Laboratory Manager.

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

Aimee Cormier, Laboratory Manager

Pinu L Comier

Enclosure:

BATCH NUMBER: NT 21269 CLIENT PROJECT ID: 501871.8307.0710 Client Ref: CT DOT - Exit 21, I-84 Exit Ramp, Bridges & Intersections, Waterbury, CT CT ID# PH-0209; MA ID# AA000251; ME ID# LB-055; ME ID# LA-056; VT ID# AL254362; RI ID# TEM 00150.

Pace Analytical Services, LLC. - Woburn

22 Cummings Park, Woburn, Massachusetts 01801 781-935-3212 ~ E-Mail bostonaero@pacelabs.com

Laboratory Report

Client Project #:

501871.8307.0710

Client Reference:

CT DOT - Exit 21, I-84 Exit Ramp, Bridges & Intersections, Waterbury, CT

PO #:

C501871

Client #:

297

Batch:

NT 21269

Method:

NOB

Date Received:

12/18/2024

Date Analyzed:

12/24/2024 1/2/2025

LAB ID	Field ID	Descriptions	Color	Initial		%	Asbes	tos Typ	es		% Other	%	%	Total %	Analyzed /	Prepped
LABID	Fleid ID	Description:	Color	Weight	CHR	AMO	ACT	CRO	ANT	TRE	Non-asb.	Organic	Carb.	Asbestos	Charged	/ Charge
NT153512	01	Black Joint Filler		.1139	.00	.00	.00	.00	.00	.00	16.68	77.88	5.44	ND	Yes	No
NT153513	05	Expansion Joint Tar		.2404	.00	.00	.00	.00	.00	.00	58.03	37.52	4.45	ND	Yes	No
NT153514	07	Styrofoam with Tar-like Coating on Top		.1626	.00	.00	.00	.00	.00	.00	60.39	22.14	17.47	ND	Yes	No
NT153515	09	Black Expansion Joint Tar		.2433	.00	.00	.00	.00	.00	.00	67.20	28.36	4.44	ND	Yes	No
NT153516	11	Black and Brown Joint Filler		.1418	.00	.00	.00	.00	.00	.00	6.35	91.68	1.97	ND	Yes	No
NT153517	13	Grey Caulk		.2137	.00	.00	.00	.00	.00	.00	58.77	25.46	15.77	ND	Yes	No
NT153518	17	Black Expansion Joint Tar		.4520	.00	.00	.00	.00	.00	.00	8.80	64.16	27.04	ND	Yes	No
NT153519	19	Expansion Joint		.2189	.00	.00	.00	.00	.00	.00	3.20	82.91	13.89	ND	Yes	No

Comments:

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

Aerobiology Laboratory Associates, Inc.

MT 21269

22 Cummings Park, Woburn, MA 01801 Ph. 781-935-3212 Fax 781-932-4857 TEM Bulk Chain of Custody Record

Date: 12/17/2024

PO#:

C501871

Analysis Type: Chatfield

EPA N.O.B Qualitative

Client:

TRC

Client Job#:

501871.8307.0710

Client Job Ref./Loc.: CT DOT- Exit 21, I-84 Exit Ramp, Bridges & Intersections, Waterbury, CT

Relinquished by:

K. Williamson

Received by:

Report to:

KWilliamson@trccompanies.com; SArienti@trccompanies.com; EPlimpton@trccompanies.com;

KGraff@trccompanies.com; DCarillo@trccompanies.com; MKostruba@trccompanies.com

Samplers Name:

A. Smith & C. Bova

Turnaround Time:

<12 Hour

<24 Hour

<48 Hour

<3 Day

5 Day

Other:

						1 1 2	For Lab Use Only
Client ID #	Lab l	ID#	Description	on I	ocation	Acceptal on Recei	
01	6599	90	Joint Fille	er S	See COC		
05	6599	90	Joint Tar	r			
07	6599	90	Tar-Like Coa				
09	6599	90	Expansion Joi	nt Tar			
11	6599	90	Joint Fille	er			
13	6599	90	Caulk				
17	6599	90	Expansion Joi				
19	6599	90	Expansion J	Joint			
or Lab Use Only	# Spies	Total	Client#	Batch #	Results	Reported	Comments

NT21269

Edition: October 2009 Supersede Previous Edition

♦ TRC

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

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 65990

FAX (860)	298-6380											LABIL	#. 65	700		
	NUMBER			PRO	DJECT NAME							TURN	NAROUN	D TIME		
				Con	nDOT — Exit 21 I-84 exit ramp		PARAM	/ETI	RS		PLM:	8hr	24hr	48hr	X	3day
501871.83	07.0710				ges and intersections, I-84 Exit Waterbury, CT		TAKAN	ILII			TEM:	24hr	48hr	3day	X	5day
SIGNATU					PECTOR rew Smith, Cole Bova	.600/R93/116 VE STOP)	93/116 duction) FOP)	AYER	NT (%)	198.4 S NEG)						
			TY	/PE		00/R E ST	00/R ic re E ST	BYL	COU	Y NOB 19 SERIES			MATERL	A.T.		
FIELD SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE LOCATION	PLM EPA 600 (POSITIVE	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF > 1% & < 10%)	TEM NY I			MATERL	AL.		
01	12/6/2024	11:02		х	Market Square and South Main St Northeast corner around pedestrian walk button	х				Х	JF1 - Blac	ck joint fille	er between	sidewalk	segmei	nts
02	12/6/2024	11:36		Х	Meadow St and Grand St northeast corner	Х					JF1 - Blac	JF1 - Black joint filler between sidewalk segme				nts
03	12/13/2024	10:24		X	West Liberty and South Main St	X					JF1 - Black joint filler between sidewalk segmen			nts		
04	12/13/2024	10:25		X	South Main St and East Clay	Х			-		JF1 - Blac	ck joint fill	er between	sidewalk	segmen	nts
05	12/6/2024	11:11		х	Market Square and South Main St southeast corner	Х				х	EJ1 - Exp	ansion Joir	it tar aroun	d curb of	storm o	lrain
06	12/6/2024	11:11		Х	Market Square and South Main St Southeast corner	Х					EJ1 - Exp	ansion Joir	nt tar aroun	d curb of	storm o	Irain
07	12/6/2024	11:26		Х	Meadow St and Grand St Southwest Corner	Х		X		Х	JF2 - Styr	rofoam wit	tar like co	oating on t	ор	
08	12/6/2024	11:27		х	Meadow St and Grand St Northwest Corner	х		х			JF2 - Styr	rofoam wit	tar like c	oating on t	ор	

Relinquished by: (Signature)	Date: 17/13/24	Received by: (Signature)	14/3/24	Relinquishe	d by: (Signature)	Date:	Received by: (Signature)	
(Printed) Lole Dova	Time:	(Printed) Per Unine	1130	(Printed)		Time:	(Printed)	
Remarks:					Condition of Samples: Acceptable: Yes1 Comments:	No	Page 1 of 3	

NTRIZE

Edition: October 2009 Supersede Previous Edition

♦ TRC

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

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 65990

FAX (860)	298-6380											LAB ID	#.	110		
	NUMBER			PRO	OJECT NAME							TURN	AROUN	D TIME		
				Con	nDOT - Exit 21 I-84 exit ramp	PARAMETERS				8hr	24hr	48hr	X	3da		
501871.830	07.0710				ges and intersections, I-84 Exit Waterbury, CT		FARAN	TETT	LKS		TEM: 24hr 48hr 3day X			X	5day	
SIGNATU	RE				PECTOR rew Smith, Cole Bova	600/R93/116 VE STOP)	600/R93/116 ric reduction) VE STOP)	AYER	INT 0%)	198.4 S NEG)						
			TY	PE		600/R	600/R ric re /E S	BY I	COU & <1	NOB		7	MATERI	AT.		
FIELD SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE LOCATION	PLM EPA 60 (POSITIVE	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)						
09	12/6/2024	11:57		Х	West liberty at south main southwest corner	Х				X	EJ2 - Blac segments					
10	12/6/2024	11:58		х	West liberty at south main southwest corner	Х					EJ2 - Blac segments					
11	12/6/2024	12:28		х	Bank st at west liberty southeast corner	Х				1	JF3 - Blac box					
12	12/6/2024	12:29		х	Bank st at west liberty southeast corner	Х					JF3 - Blac box					
13	12/6/2024	12:41		x	Meadow st at bank st controller box by Exxon	х				Х	C1 - Grey box meets	concrete b	ase.			
14	12/6/2024	12:41		X	Meadow st at bank st controller box at Exxon	Х					C1 - Grey box meets	concrete b	ase.			
15	12/6/2024	13:23		Х	Bridge 03191F between railing and concrete abutment wall	Х				Х	C2 - Caull abutment	wall				
16	12/6/2024	13:24		Х	Bridge 03191F between railing and concrete abutment wall	Х					C2 - Caull abutment		en railing	base and c	oncrete	е

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquishe	d by: (Signature)	Date:	Received by: (Signature)
(Printed)	Time:	(Printed) (130	(Printed)		Time:	(Printed)
Remarks:				Condition of Samples: Acceptable: Yes Comments:	No	Page 2 of 3

NT21269

Edition: October 2009 Supersede Previous Edition

♦ TRC

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

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 65990

FAX (860)	298-6380											LAB ID	#. 65	440		
PROJECT	DJECT NUMBER PROJECT NAME											TURN	IAROUNI	D TIME		
				nDOT — Exit 21 I-84 exit ramp		PARAMETERS PLM: 8hr 24					24hr	48hr	X	3day		
501871.83	07.0710				lges and intersections, I-84 Exit Waterbury, CT		1.110.11				TEM:	24hr	48hr	3day	X	5day
SIGNATU	ORE CONTROLLED				PECTOR Irew Smith, Cole Bova	600/R93/116 /E STOP)	500/R93/116 ric reduction) Æ STOP)	LAYER	INT (%)	(% & <10%) (Y NOB 198.4 (SERIES NEG) (Y NOB 198.4						
FIELD SAMPLE NUMBER	DATE	ТІМЕ	COMP	GRAB	SAMPLE LOCATION	PLM EPA 600/F (POSITIVE S	PLM EPA 600/F (w/ gravimetric ro (POSITIVE S	ANALYZE BY LAYER	POINT COUNT (IF > 1% & < 10%)	TEM NY NOB (IF PLM SERIE		MATERIAL				
17	12/6/2024	13:26		х	Between expansion joints on top of bridge 03191F	х				Х	EJ3 - Blac	ck expansio	n joint tar			
18	12/6/2024	13:27		х	Between expansion joints on top of bridge 03191F	Х					EJ3 - Blac	ck expansio	n joint tar			
19	12/6/2024	13:28		x	Between granite curb and concrete abutment wall on bridge 03191F	x				X	EJ4 - Exp	ansion join	t			1
20	12/6/2024	13:29		х	Between granite curb and concrete abutment wall on bridge 03191F	х					EJ4 - Exp	ansion join	t			

Relinquished by: (Signature)	Date: 12/13/24	Received by: (Signature) 7 1/3/2	Relinquishe	ed by: (Signature)	Date:	Received by: (Signature)
(Printed) (ale Dov	Time:	Printed) Nac Mariad (130	(Printed)		Time:	(Printed)
Remarks:				Condition of Samples: Acceptable: Yes	No	Page 3 of 3



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

Client: Mr. Cole Bova

TRC Environmental Consultants

21 Griffin Rd., North Windsor, CT 06095

Analytical Report CET# 24L0403

Report Date:December 20, 2024

Project: I-84 Exit 21 Ramp Bridges & Assoc. Intersections

Project Number: 501871.8307.0710

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



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

Project: I-84 Exit 21 Ramp Bridges & Assoc. Intersections

Project Number: 501871.8307.0710

SAMPLE SUMMARY

The sample(s) were received at 24.4°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
01	24L0403-01	Paint Chip	12/06/2024 13:00	12/16/2024
02	24L0403-02	Paint Chip	12/06/2024 13:30	12/16/2024

Analyte: Total Lead [EPA 6010D] Analyst: SS

Prep: EPA 3051A Matrix: Paint Chip

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
24L0403-01	01	ND	0.10	%	1	BL41829	12/18/2024	12/19/2024 13:03	
24L0403-02	02	ND	0.10	%	1	BL41829	12/18/2024	12/19/2024 13:07	

Project: I-84 Exit 21 Ramp Bridges & Assoc. Intersections

Project Number: 501871.8307.0710

QUALITY CONTROL SECTION

Batch BL41829 - EPA 6010D

Analyte	Result (%)	RL (%)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes	
---------	------------	-----------	----------------	------------------	-------	-----------------	-----	--------------	-------	--

Blank (BL41829-BLK1) Prepared: 12/18/2024 Analyzed: 12/19/2024

Lead ND 0.10

Project: I-84 Exit 21 Ramp Bridges & Assoc. Intersections

Project Number: 501871.8307.0710

80 Lupes Drive Stratford, CT 06615



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

Quality Control Definitions and Abbreviations

Internal Standard (IS) An Analyte added to each sample or sample extract. An internal standard is used to monitor retention

time, calculate relative response, and quantify analytes of interest.

Surrogate Recovery The % recovery for non-target organic compounds that are spiked into all samples. Used to determine

method performance.

Continuing Calibration An analytical standard analyzed with each set of samples to verify initial calibration of the system.

Samples that are analyzed together with the same method, sequence and lot of reagents within the same Batch

time period.

ND Not detected at or above the specified reporting limit.

RL RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture. Dilution Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high

concentration of target compounds.

Duplicate Result from the duplicate analysis of a sample.

Result Amount of analyte found in a sample. Spike Level Amount of analyte added to a sample

Matrix Spike Result Amount of analyte found including amount that was spiked.

Matrix Spike Dup Amount of analyte found in duplicate spikes including amount that was spike.

Matrix Spike % Recovery % Recovery of spiked amount in sample.

Matrix Spike Dup % Recovery % Recovery of spiked duplicate amount in sample.

RPD Relative percent difference between Matrix Spike and Matrix Spike Duplicate.

Blank Method Blank that has been taken through all steps of the analysis.

LCS % Recovery Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.

A range within which specified measurements results must fall to be compliant. Recovery Limits

Calibration Verification

Flags:

H- Recovery is above the control limits

- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- Sample result too high for accurate spike recovery.



Connecticut Laboratory Certification PH0116 Massachussets Laboratory Certification M-CT903 Pennsylvania NELAP Accreditation 68-02927

New York NELAP Accreditation 11982 Rhode Island Certification 199

Project: I-84 Exit 21 Ramp Bridges & Assoc. Intersections

Danid Litta

Project Number: 501871.8307.0710

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

Sincerely,

This technical report was reviewed by Timothy Fusco

to a. show

David Ditta Laboratory Director

Project Manager

This report shall not be reproduced except in full, without the written approval of the laboratory

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.

Project: I-84 Exit 21 Ramp Bridges & Assoc. Intersections

Project Number: 501871.8307.0710

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

EPA 6010D in Solid

Lead CT,NY,PA

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2026
NY	New York Certification (NELAC)	11982	04/01/2025
PA	Pennsylvania DEP	68-02927	05/31/2025





21 GRIFFIN ROAD NORTH

WINDSOR, CONNECTICUT 06095

TELEPHONE (860) 298-9692

TCLP CHAIN OF CUSTODY

Edition: November 2013 Supersede Previous Edition

FAX (860) 298-6380 LAB ID#, PROJECT NUMBER PROJECT NAME TURNAROUND TIME Exit 21 I-84 exit men bridges and associated intersections 56/871.8307.0710 TCLPPL 24hr X **PARAMETERS** 48hr 3day 5day Total FL 24hr 48hr 3day 5day INSPECTOR: (SIGNATURE) (PRINTED) CR, Cole Dova 8 RCRA Metals RCRA Pb, AS, (CD RCRA Pb TCLP Pb SPLP Pb P TYPE **MATERIAL** FIELD SAMPLE DATE TIME SAMPLE LOCATION NUMBER 01 12/6/24 1):00 Broke 03191F Light Gren structural bears 02 Bridge 031911= 12/6/24 13:30 X

Relinquished by: (Signature)	Date:	Received by: (Signature)	255 Relinquist	ned by: (Signature)	Date;	Received by: (Signati	
all	12/13/24	/ // /*			12-10-21	Received by: (Signat	2
(Printed)	Time:	(Printed)	(Printed)	^	Time:	(Printed)	
Cole Box	10:30	RUSTERY BRUAN	ican Ross	ERIAMON	16:40	(
For Sande OZ please tosa	total P	5 first			<u> </u>	Page 1 c	
		<u>-</u>				ragero)1 I

TEMP N 24 A Page 7 of 7

SIH - WinSIH HBM Survey

ConnDOT, Exit 21 I-84 exit ramp bridges and intersections, I-84 Exit 21 Waterbury CT

12/16/2024, 10:48:00 PM UTC

CREATED

- ① 12/5/2024, 3:34:47 PM UTC
- by Andrew Smith

UPDATED

- ① 12/16/2024, 10:48:00 PM UTC
- by Kathleen Williamson

STATUS

In Progress

ASSIGNED TO

No Assignment





NOTE: No site sketch detected! Please be sure to add at least one.

JOB INFORMATION	
Site Name	Exit 21 I-84 exit ramp bridges and intersections
Address	I-84 Exit 21 Waterbury CT
TRC Project Number	501871.8307.0710
Project Manager	Stephen Arienti, Michael Kostruba, Erik Plimpton
Inspector(s)	Andrew Smith, Cole Bova
Client	ConnDOT
Type of Asbestos Survey	
Site Sketch Diagrams	
Additional Analysis for NOB Materials (Calc)	TEM NY NOB 198.4
PLM Turnaround Time (TAT)	3-day
TEM Turnaround Time (TAT)	
Date	
General Notes	















Options & Other Settings

Use auto-numbering? No
Auto-fill gaps? Yes

Alert user about missing site sketch? Yes

SURVEYS PERFORMED Asbestos, Bridge/Signs/Light Pole/Traffic Signal Items, TCLP Sampling, XRF, Hazardous Materials Inventory

Asbestos Survey

Materials & Samples (9 Items)

Materials & Samples - 1. (4) Samples #01–04: JF1–Black joint filler between sidewalk segments

Sample Information

Asbestos Samples (4 Items)





Asbestos Samples - 1. Sample #01: JF1...Market Square and South Main St Northeast corner around pedestrian walk button

Sample Number	01
Sample Location	Market Square and South Main St Northeast corner around pedestrian walk button
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	December 6, 2024
Time	11:02

Sample Location Photo

Asbestos Samples - 2. Sample #02: JF1...Meadow St and Grand St northeast corner

Sample Number	02
Sample Location	Meadow St and Grand St northeast corner
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	December 6, 2024
Time	11:36

Sample Location Photo

Asbestos Samples - 3. Sample #03: JF1...West Liberty and South Main St

Sample Number	03
Sample Location	West Liberty and South Main St
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	December 13, 2024
Time	10:24

Sample Location Photo

Asbestos Samples - 4. Sample #04: JF1...South Main St and East Clay

Sample Number	04
Sample Location	South Main St and East Clay
Asbestos Bulk Analysis	PLM EPA 600/R93/116





Grab or Composite	Grab
Date	December 13, 2024
Time	10:25
Sample Location Photo	

Material Information

Sampled or Assumed?	Sampled
Material Acronym	JF1
Material Description	Black joint filler between sidewalk segments
Material Color	Black

Representative Photos



Analyze by layer?	No
Is material non-friable organically bound (NOB)?	Yes
Homogeneous Area	
Total Approximate Quantity	140 linear ft





Notes

Also at the southeast corner in between sidewalk segments
Meadow st and grand st northeast corner around base of controller box and between
building and sidewalk and in between various sidewalk segments and at base of span pole
Meadow and grand southeast corner between sidewalk segments
West liberty and south main southeast corner around curb of storm drain
South main st at east clay northeast corner between sidewalk segments around utility pole

Materials & Samples - 2. (2) Samples #05–06: EJ1–Expansion Joint tar around curb of storm drain

Sample Information

Asbestos Samples (2 Items)

Asbestos Samples - 1. Sample #05: EJ1...Market Square and South Main St southeast corner

Sample Number	05
Sample Location	Market Square and South Main St southeast corner
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	December 6, 2024
Time	11:11

Sample Location Photo

Asbestos Samples - 2. Sample #06: EJ1...Market Square and South Main St Southeast corner

Sample Number	06
Sample Location	Market Square and South Main St Southeast corner
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	December 6, 2024
Time	11:11

Sample Location Photo

Material Information

Sampled or Assumed? Sampled





Material Acronym	EJ1
Material Description	Expansion Joint tar around curb of storm drain
Material Color	Black

Representative Photos



Analyze by layer?	No
Is material non-friable organically bound (NOB)?	Yes
Homogeneous Area	
Total Approximate Quantity	6 linear ft
Notes	

Materials & Samples - 3. (2) Samples #07-08: JF2-Styrofoam with tar like coating on top

Sample Information

Asbestos Samples (2 Items)

Asbestos Samples - 1. Sample #07: JF2...Meadow St and Grand St Southwest Corner





Sample Number	07
Sample Location	Meadow St and Grand St Southwest Corner
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	December 6, 2024
Time	11:26

Sample Location Photo

Asbestos Samples - 2. Sample #08: JF2...Meadow St and Grand St Northwest Corner

Sample Number	08
Sample Location	Meadow St and Grand St Northwest Corner
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	December 6, 2024
Time	11:27

Sample Location Photo

Material Information

Sampled or Assumed?	Sampled
Material Acronym	JF2
Material Description	Styrofoam with tar like coating on top
Material Color	Black





Representative Photos



Analyze by layer?	Yes
Is material non-friable organically bound (NOB)?	Yes
Homogeneous Area	
Total Approximate Quantity	75 linear ft
Notes	Around span pole base and along back curb at southwest corner Around back curb, traffic box in ground and between sidewalk and asphalt at northwest corner North east corner between sidewalk segments

Materials & Samples - 4. (2) Samples #09-10: EJ2-Black expansion joint tar between sidewalk segments

Sample Information

Asbestos Samples (2 Items)

Asbestos Samples - 1. Sample #09: EJ2...West liberty at south main southwest corner





Sample Number	09
Sample Location	West liberty at south main southwest corner
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	December 6, 2024
Time	11:57

Sample Location Photo

Asbestos Samples - 2. Sample #10: EJ2...West liberty at south main southwest corner

Sample Number	10
Sample Location	West liberty at south main southwest corner
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	December 6, 2024
Time	11:58
Comple Leastion Photo	

Sample Location Photo

Matarial	Information
watenar	mmonmanion

Sampled or Assumed?	Sampled
Material Acronym	EJ2
Material Description	Black expansion joint tar between sidewalk segments
Material Color	Black





Representative Photos



Analyze by layer?	No
Is material non-friable organically bound (NOB)?	Yes
Homogeneous Area	
Total Approximate Quantity	10 linear ft
Notes	

Materials & Samples - 5. (2) Samples #11–12: JF3–Black and brown joint filler at base of controller box

Sample Information

Asbestos Samples (2 Items)

Asbestos Samples - 1. Sample #11: JF3...Bank st at west liberty southeast corner

Sample Number 11
Sample Location Bank st at west liberty southeast corner





Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	December 6, 2024
Time	12:28

Sample Location Photo

Asbestos Samples - 2. Sample #12: JF3...Bank st at west liberty southeast corner

Sample Number	12
Sample Location	Bank st at west liberty southeast corner
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	December 6, 2024
Time	12:29

Sample Location Photo

Material Information

Sampled or Assumed?	Sampled
Material Acronym	JF3
Material Description	Black and brown joint filler at base of controller box
Material Color	Black





Representative Photos



Analyze by layer?	No
Is material non-friable organically bound (NOB)?	No
Homogeneous Area	
Total Approximate Quantity	20 linear ft
Notes	

Materials & Samples - 6. (2) Samples #13–14: C1–Grey caulk where metal component of controller box meets concrete base.

Sample Information

Asbestos Samples (2 Items)

Asbestos Samples - 1. Sample #13: C1...Meadow st at bank st controller box by Exxon

 Sample Number
 13

 Sample Location
 Meadow st at bank st controller box by Exxon





Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	December 6, 2024
Time	12:41

Asbestos Samples - 2. Sample #14: C1...Meadow st at bank st controller box at Exxon

Sample Number	14
Sample Location	Meadow st at bank st controller box at Exxon
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	December 6, 2024
Time	12:41
Sample Location Photo	

Sampled or Assumed?	Sampled
Material Acronym	C ► 1
Material Description	Grey caulk where metal component of controller box meets concrete base.
Material Color	Grey







Analyze by layer?	No
Is material non-friable organically bound (NOB)?	Yes
Homogeneous Area	
Total Approximate Quantity	20 linear ft
Notes	

Materials & Samples - 7. (2) Samples #15–16: C2–Caulking between railing base and concrete abutment wall

Sample Information

Asbestos Samples (2 Items)

Asbestos Samples - 1. Sample #15: C2...Bridge 03191F between railing and concrete abutment wall

Sample Number 15





Sample Location	Bridge 03191F between railing and concrete abutment wall
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	December 6, 2024
Time	13:23

Asbestos Samples - 2. Sample #16: C2...Bridge 03191F between railing and concrete abutment wall

Sample Number	16
Sample Location	Bridge 03191F between railing and concrete abutment wall
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	December 6, 2024
Time	13:24

Sample Location Photo

Sampled or Assumed?	Sampled
Material Acronym	C ► 2
Material Description	Caulking between railing base and concrete abutment wall
Material Color	White







Analyze by layer?	No
Is material non-friable organically bound (NOB)?	Yes
Homogeneous Area	
Total Approximate Quantity	
Notes	

Materials & Samples - 8. (2) Samples #17-18: EJ3-Black expansion joint tar

Sample Information

Asbestos Samples (2 Items)

Asbestos Samples - 1. Sample #17: EJ3...Between expansion joints on top of bridge 03191F

Sample Number	17
Sample Location	Between expansion joints on top of bridge 03191F





Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	December 6, 2024
Time	13:26

Asbestos Samples - 2. Sample #18: EJ3...Between expansion joints on top of bridge 03191F

Sample Number	18
Sample Location	Between expansion joints on top of bridge 03191F
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	December 6, 2024
Time	13:27

Sample Location Photo

Sampled or Assumed?	Sampled
Material Acronym	EJ3
Material Description	Black expansion joint tar
Material Color	Black







Analyze by layer?	No
Is material non-friable organically bound (NOB)?	Yes
Homogeneous Area	
Total Approximate Quantity	300 linear ft
Notes	

Materials & Samples - 9. (2) Samples #19-20: EJ4-Expansion joint

Sample Information

Asbestos Samples (2 Items)

Asbestos Samples - 1. Sample #19: EJ4...Between granite curb and concrete abutment wall on bridge 03191F

Sample Number	19
Sample Location	Between granite curb and concrete abutment wall on bridge 03191F





Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	December 6, 2024
Time	13:28

Asbestos Samples - 2. Sample #20: EJ4...Between granite curb and concrete abutment wall on bridge 03191F

Sample Number	20
Sample Location	Between granite curb and concrete abutment wall on bridge 03191F
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	December 6, 2024
Time	13:29

Sample Location Photo

Sampled or Assumed?	Sampled
Material Acronym	EJ4
Material Description	Expansion joint
Material Color	Black







Analyze by layer?	No
Is material non-friable organically bound (NOB)?	Yes
Homogeneous Area	
Total Approximate Quantity	
Notes	Entire length of bridge on both sides

XRF Survey	
Niton XRF Model No.	22323
XRF Survey Completed	Yes
XRF Data Downloaded	Yes
XRF Shots >1.0 on non-metallic building materials	No
Date Data Downloaded	December 13, 2024

HAZMAT Inventory





Inventory Areas (1 Item)

Inventory Areas - 1. Bridge No. 03196

Inventory Area Description

Bridge No. 03196

HAZMAT Items (1 Item)

HAZMAT Items - 1. Universal Waste (UW) ▶ Compact Fluorescent (Hg Lamps)

Description	Universal Waste (UW) ► Compact Fluorescent (Hg Lamps)
Common Name	
Quantity	2
Size	

Photo

** PLEASE CONSIDER THESE
GUIDELINES WHEN ADDING A HAZ
ITEM ** 1) When selecting the
"HAZMAT Item Description", be sure
to check ALL pre-defined options
before selecting "Other" and entering
a custom option. 2) You only need to
enter a "HAZMAT Item Common
Name" if the "HAZMAT Item
Description" isn't specific enough to
sufficiently describe the hazardous
material.

TCLP/SPLP/Total Lead Survey

Samples (1 Item)

Samples - 1. Bridge 03191F

TCLP/SPLP/Total Lead Sample Description

Bridge 03191F

TCLP/SPLP/Total Lead Components (1 Item)

TCLP/SPLP/Total Lead Components - 1. Painted Concrete (Detectable Pb)





Material	Painted Concrete (Detectable Pb)
Square Footage	
Type of Analysis	TCLP Lead
Sample Number	
Grab or Composite	
Date	December 6, 2024
Time	13:38
TCLP/SPLP/Total Lead Notes	





TCLP/SPLP/Total Lead Photos











Bridge/Signs/Light Pole/Traffic Signal Item Inventory

Items (7 Items)

Items - 1. Meadow St at Bank st traffic signal.

Bridge/Sign/Light Pole/Traffic Signal No.	Meadow St at Bank st traffic signal.
General Notes	5 pedestrian signals, assume Pb paint
	2 span poles
	8 traffic signal lights, assume Pb paint
Accessibility	Accessible
Paint on Structure (s)?	Yes
Paint on what Components/Structure(s)?	All pedestrian signals and traffic lights are painted.
Suspect Asbestos Containing Materials Identified on Structure	No
Guano Present?	No
Homeless Activity	No
Bloodborne Pathogen Concerns?	No
Mice/Mouse Nests/Droppings	No

Items - 2. Exit 22 terminus at Market Square and South Main St(Signal No. 151-256)

Bridge/Sign/Light Pole/Traffic Signal No.	Exit 22 terminus at Market Square and South Main St(Signal No. 151-256)
General Notes	2 span poles(span poles have pedestrian signals on each)3 pedestrian signals7 traffic signals.
Accessibility	Accessible
Paint on Structure (s)?	Yes
Paint on what Components/Structure(s)?	Traffic signals Pedestrian signals
Suspect Asbestos Containing Materials Identified on Structure	No
Guano Present?	No
Homeless Activity	No
Bloodborne Pathogen Concerns?	No
Mice/Mouse Nests/Droppings	No





Items - 3. Meadow St. at Grand St. Signal No. 151-236

Bridge/Sign/Light Pole/Traffic Signal No.	Meadow St. at Grand St. Signal No. 151-236
General Notes	2 pedestrian signals
	2 span poles(each has pedestrian signals) 8 traffic signals
	o traine signais
Accessibility	Accessible
Paint on Structure (s)?	Yes
Paint on what Components/Structure(s)?	Pedestrian signals
	Traffic signals
	Span posts
Suspect Asbestos Containing Materials Identified on Structure	No
Guano Present?	No
Homeless Activity	No
Bloodborne Pathogen Concerns?	No
Mice/Mouse Nests/Droppings	No

Items - 4. West liberty at south Main Street Signal No. 151-229

Bridge/Sign/Light Pole/Traffic Signal No.	West liberty at south Main Street Signal No. 151-229			
General Notes	8 traffic signals 1 span pole			
	2 pedestrian signals			
Accessibility	Accessible			
Paint on Structure (s)?	Yes			
Paint on what Components/Structure(s)?	Traffic signals			
	Pedestrian signals			
Suspect Asbestos Containing Materials Identified on Structure	No			
Guano Present?	No			
Homeless Activity	No			
Bloodborne Pathogen Concerns?	No			
Mice/Mouse Nests/Droppings	No			

Items - 5. Meadow St. at West Liberty St.(Actually Bank st. At West Liberty St





Bridge/Sign/Light Pole/Traffic Signal No.	Meadow St. at West Liberty St.(Actually Bank st. At West Liberty St			
General Notes	1 pedestrian pedestal			
	1 span pole			
	5 traffic signals			
Accessibility	Accessible			
Paint on Structure (s)?	Yes			
Paint on what	All traffic signals			
Components/Structure(s)?	Pedestrian pedestal			
Suspect Asbestos Containing Materials Identified on Structure	No			
Guano Present?	No			
Homeless Activity	No			
Bloodborne Pathogen Concerns?	No			
Mice/Mouse Nests/Droppings	No			

Items - 6. West main st. At east clay(actually south main st. at east clay)

Bridge/Sign/Light Pole/Traffic Signal No.	West main st. At east clay(actually south main st. at east clay)			
General Notes	2 span poles(1 painted)			
	6 traffic signals			
	4 pedestrian pedestals			
Accessibility	Accessible			
Paint on Structure (s)?	Yes			
Paint on what	All traffic signals			
Components/Structure(s)?	All pedestrian pedestals			
	1 span pole.			
Suspect Asbestos Containing Materials Identified on Structure	No			
Guano Present?	No			
Homeless Activity	No			
Bloodborne Pathogen Concerns?	No			
Mice/Mouse Nests/Droppings	No			

Items - 7. Bridge No. 03196

Bridge/Sign/Light Pole/Traffic Signal	Bridge No. 03196
No	





General Notes	2 bulbs				
Accessibility	Accessible				
Paint on Structure (s)?	Yes				
Paint on what Components/Structure(s)?					
Suspect Asbestos Containing Materials Identified on Structure	No				
Guano Present?	Yes				
Guano Locations					
Guano Square Footage					
Guano Photos					
Homeless Activity	No				
Bloodborne Pathogen Concerns?	No				
Mice/Mouse Nests/Droppings	No				

LAB & SAMPLE SUBMISSION INFO

Signature

Asbestos Bulk Samples

Remarks to be added to the CoC

Asbestos samples submitted to TRC | Yes

Date Submitted to Lab | December 16, 2024

Asbestos bulk sample CoC data electronically sent to lab yet?

Asbestos bulk sample results reviewed?

TCLP Samples

TCLP/SPLP Samples Submitted to Lab

No

TCLP/SPLP Samples Submitted To:

Date Submitted to Lab

REPORT CREATION





Select one or more documents below to be generated. Once completed in the cloud, they will be sent to the listed email address.	
NOTE: Asbestos bulk sample CoC data must now be sent electronically to the lab by selecting "Asbestos chain-of-custody - Send to Lab" from the list below.	
What documents should be generated?	Asbestos chain-of-custody - Send to Lab
Generate Documents	

PROJECT STATUS TR	ACKING
Has this survey been completed?	No
Has the report been written?	No
Has the report been reviewed?	No





STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION



subject: Task 100 Environmental Screening

Project No.: 0151-0340

Removal of I-84 EB Exit 21 Off-Ramp

City of Waterbury

date: 9/20/2023

to: Nilesh M. Patel

Transportation Principal Engineer
Bureau of Engineering and Construction

attn: Jonathan M. Dean, Project Manager **attn:** Joseph O. Belrose, Project Engineer

from: Jason M. Coite

Transportation Principal Engineer

Bureau of Engineering and Construction

In response to your memo dated 9/18/2023, this project was reviewed and the determination is that further investigations are warranted.

A Task 710 Investigative Survey will be conducted to identify contaminated or hazardous materials (e.g. lead, asbestos, guano, hazmat items, etc) within the project limits.

Plans, specifications and cost estimate will be provided, if required, pending the results of these surveys.

Soil from excavation activities should be re-used on site. If, after every effort has been made to reuse excavated soils, it is found infeasible, please contact our Office for further soil investigations.

All lead-based paint on traffic equipment will be covered by ITEM#1118012A Removal and/or Relocation of Traffic Signal Equipment.

Attached is a copy of the Task 100, Environmental Screening Review form by which the project was evaluated.

If you have any questions, please contact Mandy K. Socolosky at extension 3396.

Attachment

Mandy K. Socolosky

cc: Nilesh M. Patel – Jonathan M. Dean – Joseph O. Belrose Jason M. Coite – Michael F. Bedson – Mandy K. Socolosky

TASK 100 ENVIRONMENTAL SCREENING REVIEW

Project Number:	0151-0340	ASSIGNMENT #::	718-7735	Date:	9/18/2023
Project Description:	Removal of I-84 EB E	xit 21 Off-Ramp, City of Water	bury		
RIGHT-OF-WAY AC	TIVITIES				
Project Ar	ea Type: Urban				
	Full Take: Partial Tak	ce, Substantial:			
	Partial Tak	ke, Minor:			
	Easement	s: 🗸			
C	Comments: Constructi	on easements (driveways, slo	pe, sidewalks)		
SUPPORTING CATE	GORIES				
	Drainage Impre	ovements Relocations:			
	Utility Involvem	nent Relocations:	~		
	De-watering O	perations During Construction:	:		
	Environmental	Permits Required:			
	River Work:				
	Railroad Prope	erty Involvement:			
	Excavations in	Excess of 3 Feet Deep:			
	Excess Materia	als Generated for Offsite Dispo	osal:		
	Potential Lead	Based Paint Impact:	✓		
	Potential Asbes	stos Material Impact :	✓		
Comm	ents:				
Recommend	dation Task 710				
Reviewer::	Mandy K. Socolosł				

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION



subject: Hazardous/Contaminated Materials

Screening Request

Project No.: 0151-0340 F.A.P. No.: 0842(320) [PE]

Removal of I-84 EB Exit 21 Off-Ramp

City of Waterbury

date: September 18, 2023

to: Jason M. Coite

Transportation Principal Engineer Bureau of Engineering and Construction from: Nilesh M. Patel

Digitally signed by Jonathan Dean Date: 2023,09,18 09:36:57-04'00'

for

Transportation Principal Engineer

Bureau of Engineering and Construction

Jak De

Please provide a hazardous/contaminated materials screening for this project and inform this office of any environmental concerns by <u>October 11, 2023</u>.

Project Schedule:

FDP: October 9, 2024 DCD: November 20, 2024 ADV: December 18, 2024

Federal Program: STBG Program – Anywhere (STPA) – 80 Federal/20 State

PE Funding: 0151-0331 PE; Please note the 0151-0331 project number is the parent project, which is the New Mix Planning & Environmental Linkages (PEL) Study for the eventual Replacement of the I-84/CT Route 8 Interchange, also known as the Mixmaster.

Please use the documents in the ongoing Preliminary Design Review session on COMPASS located here: 0151-0340 (sharepoint.com); The review session will be open until October 20, 2023.

Right-of-Way (ROW) will be required for this project. Most ROW impacts will be minimal for construction of sidewalk and driveways. Areas to be aware of include: 409 South Main Street (impacts to slope for bus stop improvements and widening for right turn lane onto McMahon Street) and 600-634 Bank Street/425 Bank Street (traffic easements).

This project involves the following excavation activities:

- Full depth roadway excavation is anticipated for new curbing and widening to accommodate the aforementioned new right turn lane from South Main Street onto McMahon Street, as shown on the plans.
- Excavation for new drainage structures as required. Potentially necessary where the curb line is shifted although this may only be for structure tops; location of proposed bus bump-out on South Main Street; along Meadow Street as the existing roadway width is being reduced. New plantings and the potential for an infiltration rain garden are being considered along Meadow Street as well.
- Excavation will be required where the off-ramp structure (Bridge No. 03191F) will be removed.
- Uncertain now if dewatering activities will be required. A geotechnical investigation will most likely be required.

This project involves the removal of Bridge No. 03191F. Lighting improvements are proposed for the South Main Street underpass of I-84 (Bridge No. 03196).

TO: Jason M. Coite

FROM: Nilesh M. Patel

-2- Hazardous/Contaminated Screening Request
Project No.: 0151-0340

FROM: Nilesh M. Patel DATE: September 18, 2023

Attached for your information and use are the following:

• <u>03191F</u> • <u>03196</u>

There are no known utilities along or below Bridge No. 03191F. Overhead wires traverse below Bridge No. 03196. There is small diameter rigid metal conduit, potentially for traffic control, below the structure and larger diameter rigid metal conduit along the north side of the structure.

This project involves sign/traffic control signals/light standard/intersection improvements.

A list of traffic signal equipment to be replaced under this project can be found at the following link: PP0151-014 Traffic Signal List

Please also refer to the Traffic subset within the Preliminary Design Review on COMPASS (link provided on first page of this memorandum)

Please contact Joseph O. Belrose, Project Engineer, at <u>Joe.Belrose@ct.gov</u> or (860) 594-3067, should you have any questions or require additional information.

Please address your response to the attention of: Jonathan M. Dean, Project Manager – Joseph O. Belrose, Project Engineer.

Joseph O. Belrose III/job cc: Nilesh M. Patel – Jonathan M. Dean