



21 Griffin Rd. North
Windsor, CT 06095

T 860.298.9692
TRCcompanies.com

June 9, 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: Daniel Imig, P.E. / Benjamin Silverman

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance
Agreement No. 10.04-02 (23)
HazMat Inspection – Replacement of Bridge No. 05068, Wellers Bridge Road over
Shepaug River, Roxbury, Connecticut
ConnDOT Assignment No. 524-8482
ConnDOT Project No. 119-121
TRC Project No. 501871.8482.0710

Dear Mr. Coite:

TRC performed a limited hazardous materials site investigation associated with the replacement of Bridge No. 05068, Wellers Bridge Road over Shepaug River, Roxbury, CT. Lead paint is presumed present on the structural steel/metal bridge components scheduled for impact at Bridge No. 05068. Any paint waste stream generated from the structural steel/metal bridge components is presumed as CTDEEP/RCRA hazardous waste. The metal railing support and guardrail/guardrail support components were galvanized (unpainted) and the wooden railing components were also unpainted; therefore, no lead paint was identified. All suspect asbestos containing materials (light grey bridge caulk, black speckled expansion joint, tan expansion joint caulk) identified and sampled at Bridge No. 05068 were found to be non-ACM. No bird/pigeon guano accumulations, mice droppings/nests, bloodborne pathogens (BBP) concerns, homeless activity or other hazmat/regulated items were observed in accessible areas of Bridge No. 05068.

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

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

Very Truly Yours,

TRC

Stephen R. Arienti, CHMM
N.E. Regional Practice Leader – Engineer in Charge

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



BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #: 0067159
Project #: 501871.8482.0000
Date Received: 05/09/2025
Date Analyzed: 05/14/2025

Site: Bridge #05068, Roxbury, CT

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

Sample No.	Sample Location	Homogeneous Material Description	Other Matrix Materials	Asbestos %	Asbestos Type
1	North east wall	Light Grey C1 - Caulking along bridge	- - -	ND	None
2	South west wall	Light Grey C1 - Caulking along bridge	- - -	ND	None
3	North Wingwall	Black EJ1 - Expansion joint	- - -	ND	None
4	East Wingwall	Black EJ1 - Expansion joint	- - -	ND	None
5	North east bridge wall	Tan EJ2 - Expansion joint	- - -	ND	None
6	South west bridge wall	Tan EJ2 - 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:

Aaliyah Walker, Laboratory Analyst

Reviewed by

Kathleen Williamson, Laboratory Manager

Date Issued

05/14/2025

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0
RI #PLM00007 TX #300354
CO# AL-21772

AIHA LAP #100122
VT #An-000020
LA#05011

CT #PH-0426
VA #3333 000283
PA#68-03387

ME LB-0071
AZ #AZ0944
PHIL#ALL-461

MA #AA000052
HI #L-09-004

NY #10980 WV #000622
NV #CT00004 CA #2907
WA #C1071



EMSL Analytical, Inc.

528 Mineola Avenue Carle Place, NY 11514

Tel/Fax: (516) 997-7251 / (516) 997-7528

<http://www.EMSL.com> / carleplacelab@emsl.com

EMSL Order: 062505746

Customer ID: TRC51

Customer PO: C501871

Project ID:

Attention: Kathleen Williamson
TRC Environmental Consultants
21 Griffin Road North
Windsor, CT 06095

Phone: (860) 298-9692
Fax: (860) 298-6399
Received Date: 05/23/2025 10:52 AM
Analysis Date: 05/24/2025
Collected Date: 04/29/2025

Project: 501871.8482.0710, ConnDOT - Bridge 05068, Roxbury, CT

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
01 062505746-0001	North East Wall - C1 - Light Gray Caulking along Bridge	Gray Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
03 062505746-0002	North Wingwall - EJ1 - Black Speckled Expansion Joint	Black Fibrous Heterogeneous	99.71 Other	None	0.29% Chrysotile
05 062505746-0003	Northeast Bridge Wall - EJ2 - Tan Expansion Joint	Gray Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

Alan Fermin (3)

Daniel Clarke, Asbestos Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. EMSL recommends that samples reported as none detected or <1% undergo additional analysis via PLM to avoid the possibility of false negatives.

Samples analyzed by EMSL Analytical, Inc. Carle Place, NY

Initial report from: 05/27/2025 11:15:29

528 Mineola Ave, Carle Place, NY 11514
TEM Bulk Chain of Custody Record

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

					For Lab Use Only		
Client ID #	Lab ID#	Description	Location	Acceptable on Receipt	Comments		
01	67159	Caulk	See COC				
03	67159	Expansion Joint					
05	67159	Expansion Joint					
For Lab Use Only		# Spies	Total	Client #	Batch #	Results Reported	Comments



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 # 07159

PROJECT NUMBER		PROJECT NAME		PARAMETERS					TURNAROUND TIME					
501871.8482.0710		ConnDOT - Bridge 05068 Rohrbach St		PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	PLM:	8hr	24hr	48hr	3day	
SIGNATURE		INSPECTOR												
[Signature]		Zachary Smith												
FIELD SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION	MATERIAL								
			COMP	GRAB										
01	4/29/25	1028	X	X	North - east wall	X				X				C1 - light gray caulking along bridge
02		1029	X	X	South west wall	X								"
03		0989	X	X	North wing wall	X				X				EJ1 - black speckled expansion joint
04		0959	X	X	East wing wall	X								"
05		1010	X	X	North east bridge wall	X				X				EJ2 - tan expansion joint
06	↓	1011	X	X	South west bridge wall	X								"

Relinquished by: (Signature) [Signature]	Date: 5/8/25	Received by: (Signature) [Signature]	Date: 5/19/25
(Printed) Zachary Smith	Time: 1700	(Printed) Aaliyah Walker	Time: 0640
Remarks:		Condition of Samples: Acceptable: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Comments:	
		Page 1 of 1	

5/23/25
10:52 AM

EMSL

528 Mineola Ave, Carle Place, NY 11514
TEM Bulk Chain of Custody Record

Date: 05/22/2025

PO#: C501871

Client: TRC

Client Job#: 501871.8482.0710

Client Job Ref./Loc.: CT DOT- Bridge #05068, Roxbury, CT

Relinquished by: A. Walker

Received by:

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

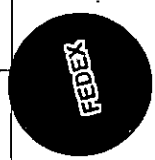
KGraff@trccompanies.com; DCarillo@trccompanies.com; MKostruba@trccompanies.com

Samplers Name: Z. Smith

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

			For Lab Use Only		
Client ID #	Lab ID#	Description	Location	Acceptable on Receipt	Comments
0012	67159	4Gaulk2	See COC		
0033	67159	Expansion Joint			
0051	67159	Expansion Joint			
					RECEIVED
					EMSL ANALYTICAL, INC.
					Garle Place, NY
					MAY 23 25, AM10:52
For Lab Use Only	# Spies	Total	Client #	Batch #	Results Reported

RECEIVED BY DAVID WHARTON
David Wharton 5/23/15 10:52 AM
Mh 5/24/25



SIH - WinSIH HBM Survey

ConnDOT, Bridge 05068 Wellers Bridge , Wellers bridge Rd
Roxbury Connecticut 06783 US

5/8/2025, 5:53:10 PM EDT

CREATED

🕒 4/29/2025, 9:42:34 AM EDT

👤 by Hugh Crundwell

UPDATED

🕒 5/8/2025, 5:53:10 PM EDT

👤 by Zachary Smith

STATUS

🟠 Complete

ASSIGNED TO

👤 No Assignment



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

JOB INFORMATION

Site Name | Bridge 05068 Wellers Bridge

Address | Wellers bridge Rd
Roxbury Connecticut 06783
US

TRC Project Number | 501871.8482.0710

Project Manager | Stephen Arienti, Erik Plimpton

Inspector(s) | Zac Smith, Hugh Crundwell

Client | ConnDOT

Type of Asbestos Survey | Reno/Demo

Site Sketch Diagrams

Additional Analysis for NOB Materials (Calc) | TEM NY NOB 198.4

PLM Turnaround Time (TAT) | 3-day

TEM Turnaround Time (TAT) | 3-day

Date | April 29, 2025

General Notes



Overview Photo





Options & Other Settings

Use auto-numbering?	No
Auto-fill gaps?	Yes
Alert user about missing site sketch?	Yes

SURVEYS PERFORMED	Asbestos, XRF, Bridge/Signs/Light Pole/Traffic Signal Items
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Asbestos Survey

Materials & Samples (3 Items)

Materials & Samples - 1. (2) Samples #01–02: C1–Light grey caulking along bridge

Sample Information

Asbestos Samples (2 Items)

Asbestos Samples - 1. Sample #01: C1...North east wall

Sample Number	01
Sample Location	North east wall
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	April 29, 2025
Time	10:28



Sample Location Photo

Asbestos Samples - 2. Sample #02: C1...South west wall

Sample Number	02
Sample Location	South west wall
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	April 29, 2025
Time	10:29

Sample Location Photo

Material Information

Sampled or Assumed?	Sampled
Material Acronym	C ► 1
Material Description	Light grey caulking along bridge
Material Color	Light Grey

Representative Photos



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



Materials & Samples - 2. (2) Samples #03–04: EJ1–Black speckled expansion joint**Sample Information****Asbestos Samples (2 Items)****Asbestos Samples - 1. Sample #03: EJ1...North Wingwall**

Sample Number	03
Sample Location	North Wingwall
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	April 29, 2025
Time	09:59

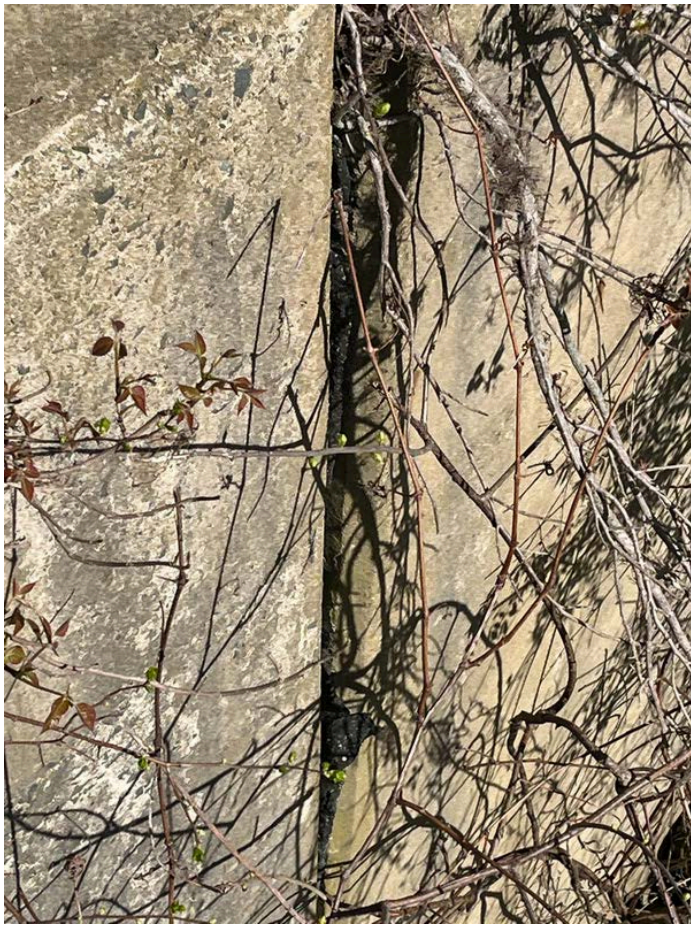
Sample Location Photo**Asbestos Samples - 2. Sample #04: EJ1...East Wingwall**

Sample Number	04
Sample Location	East Wingwall
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	April 29, 2025
Time	09:59

Sample Location Photo**Material Information**

Sampled or Assumed?	Sampled
Material Acronym	EJ1
Material Description	Black speckled expansion joint
Material Color	Black

Representative Photos



Analyze by layer?	No
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Is material non-friable organically bound (NOB)?	Yes
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Homogeneous Area	
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Total Approximate Quantity	150SF
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Notes	
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Materials & Samples - 3. (2) Samples #05–06: EJ2–Tan expansion joint

Sample Information

Asbestos Samples (2 Items)

Asbestos Samples - 1. Sample #05: EJ2...North east bridge wall

Sample Number	05
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Sample Location	North east bridge wall
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Asbestos Bulk Analysis	PLM EPA 600/R93/116
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Grab or Composite	Grab
Date	April 29, 2025
Time	10:10

Sample Location Photo**Asbestos Samples - 2. Sample #06: EJ2...South west bridge wall**

Sample Number	06
Sample Location	South west bridge wall
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	April 29, 2025
Time	10:11



Sample Location Photo



Material Information

Sampled or Assumed?	Sampled
Material Acronym	EJ2
Material Description	Tan expansion joint
Material Color	Tan

Representative Photos



Analyze by layer?	No
Is material non-friable organically bound (NOB)?	Yes
Homogeneous Area	
Total Approximate Quantity	30SF
Notes	

XRF Survey

Niton XRF Model No.	
XRF Survey Completed	No
XRF Data Downloaded	No
XRF Shots >1.0 on non-metallic building materials	No
Date Data Downloaded	

Bridge/Signs/Light Pole/Traffic Signal Item Inventory



Items (1 Item)

Items - 1. 05068

Bridge/Sign/Light Pole/Traffic Signal No.	05068
General Notes	Poison Ivy spotted on all Wingwalls
Accessibility	Accessible
Paint on Structure (s)?	Yes
Paint on what Components/Structure(s)?	Girders underneath bridge
Suspect Asbestos Containing Materials Identified on Structure	Yes
Guano Present?	No
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 lab?	No
Date Submitted to Lab	
Asbestos bulk sample CoC data electronically sent to lab yet?	Yes
Asbestos bulk sample results reviewed?	No

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 TRACKING

Has this survey been completed?

Yes

Has the report been written?

No

Has the report been reviewed?

No





PROJECT 0119-0121 REPLACEMENT OF BRIDGE NO. 05068 TOWN OF ROXBURY

Last Updated: 02/09/2024

Project Location

Wellers Bridge Road over Shepaug River

Purpose and Need

Address structural deficiencies associated with poor deck condition, functional obsolescence, and scour critical hydraulic condition in order to get the bridge in a State of Good Repair and accommodate a 100-year frequency storm with adequate freeboard. The main reasons for the recommended replacement are existing deck is in poor condition, and the underside has some areas of serious condition and bridge curb-to-curb width is 21.2 feet, with an ADT = 3,000 vehicles per day.

Scope of Work

Based upon recent inspection and evaluation of Bridge No. 05068, the following is recommended:

Replace the existing bridge with a new single-span structure consisting of a single-span Hybrid metalized steel multi-girder superstructure on reinforced cast-in-place integral abutments, all founded on piles.

Existing Bridge: **Type:** Multi-girder superstructure with composite deck, on concrete abutments and center pier

Length/Spans: 147' / 2-span

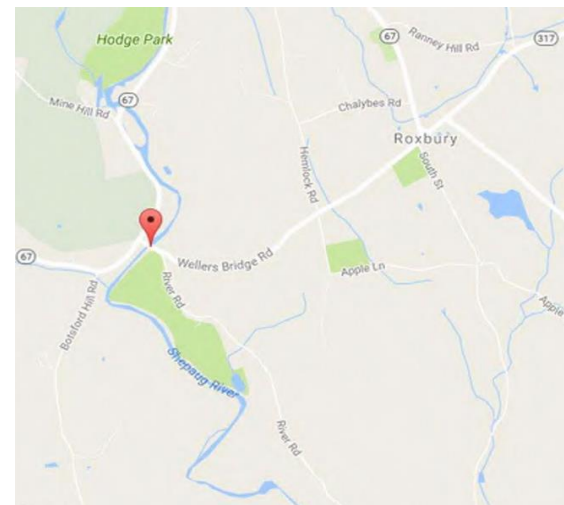
Width: 21'

Year Built: 1956, rehab 2001

Proposed Bridge: **Type:** Hybrid Steel Metalized Multi-girder with concrete deck on pile supported integral abutments

Length/Spans: 177.8' / 1 span

Width: 37'



Project Manager	Marc P. Byrnes	Anticipated Construction Start Date	Fall 2025	Anticipated Construction Completion Date	Fall 2026	Total Project Cost	\$3,635,000
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Federal Local Bridge Program
Federal-aid Project # (Design): 6119(TBD)
State Project # (Design and Construction): 119-121
Replacement of Bridge No. 05068
Wellers Bridge Road over Shepaug River
Town of Roxbury

PROJECT DESCRIPTION

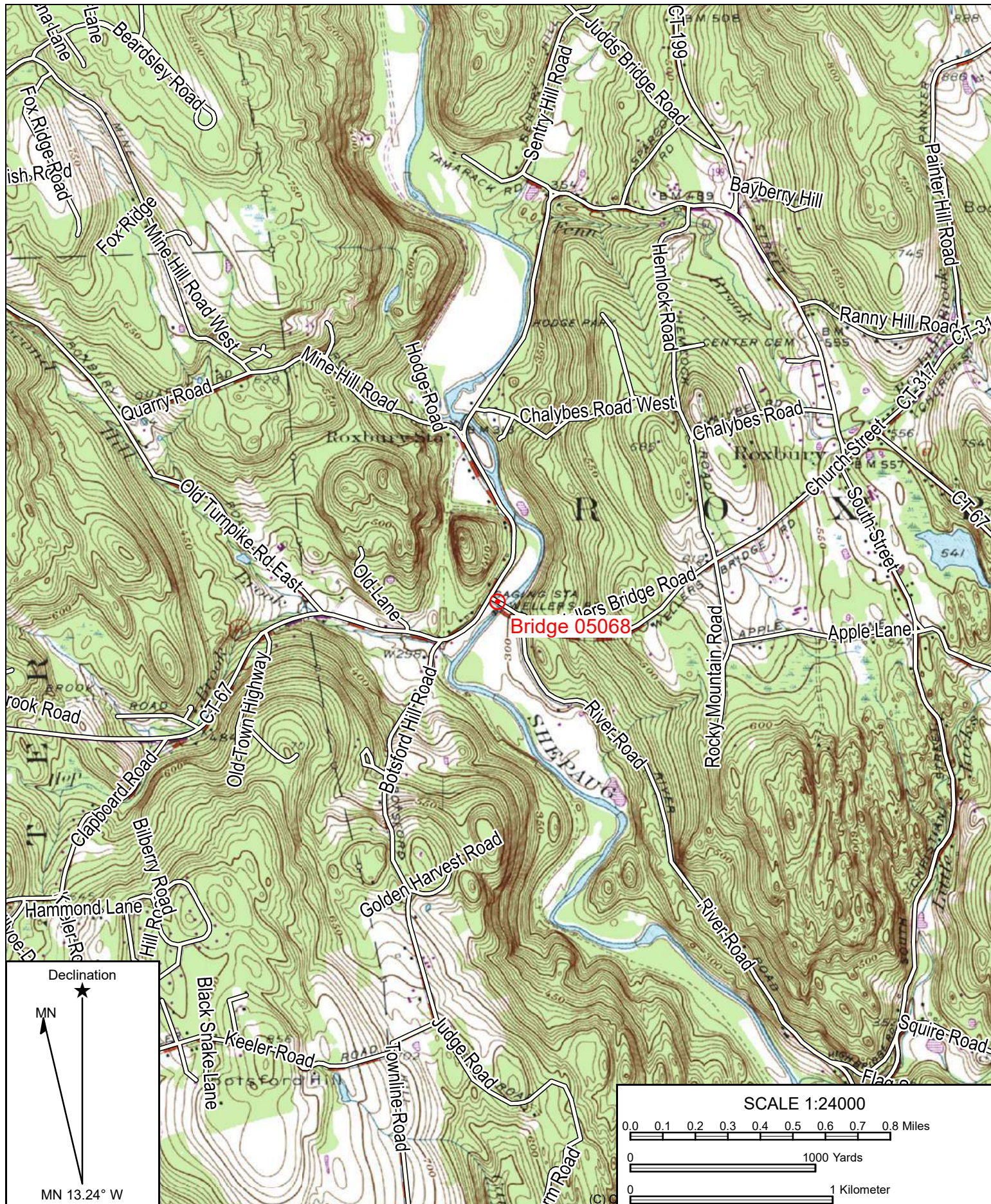
Bridge No. 05068 is situated on Wellers Bridge Road over the Shepaug River, approximately 200 feet east of Route 67 (Baker Road), in the Town of Roxbury.

The bridge, constructed in 1956 and rehabilitated in 2001, consists of a two-span steel multi-girder superstructure with composite concrete deck on reinforced cast-in-place abutments and center pier. Wellers Bridge Road is classified as a rural minor collector with an estimated current average daily traffic (ADT) of 4,784 in 2021. The existing structure is generally oriented in an east-west direction with an approximate 14 degree skew angle and does not have sidewalks. Vertically, the bridge and its immediate approaches are located a slight tangent that slopes down gradient towards the west. The structure length is approximately 147 feet with a maximum span of 68 feet, and the total structure width measures 25.5 feet. The roadway on the bridge has a bituminous concrete surface and curb-to-curb width of 21 feet, 2 inches. The approach roadway has a posted speed limit of 30 miles per hour and a 24-foot wide approach width that provides for two lanes of vehicular traffic (one lane in each direction). There are metal beam guiderails on the approaches, and galvanized steel posts with timber rails run along the full length of the bridge between parapet concrete end blocks. There are concrete rail bases with vertical granite curbs. Three fiber optic conduits are located under the deck, and overhead utility wires span the river parallel to the bridge on the north side of the structure.

Bridge No. 05068 is Functionally Obsolete, Scour Critical, and the Deck Condition is considered to be Poor. The functional obsolescence designation is due to the roadway curb-to-curb width being substandard for the average daily traffic volume it experiences per day. 2021 DOT Routine Inspection includes a Scour Critical appraisal rating and notes undercutting/erosion of up to 2-feet and sloughing of embankments. A 1999 Bridge Scour Evaluation Program Report also classified the bridge as Scour Critical and predicted scour here that would totally expose the piles under the abutments and the sheet piling around the pier depicted on the 1956 bridge plans. This 1999 evaluation report also recommended a monitoring program with provisions for bridge closure and inspection as scour countermeasures at this site; the installation of sheet piling or large rip rap at the pier and abutments were considered impractical as countermeasures. Deck structural deficiencies observed under the bridge during the 2021 DOT inspection include large areas of light to moderate scale with efflorescence frosting and isolated areas of map cracking. There are also isolated areas of severe scale and random areas of discoloration and efflorescence stains throughout. In Span 2 there is severe scale, punky concrete, exposed rebar, hollow sounding areas, stalactites, and a 6-inch deep spall with exposed and debonded rebar. In Span 1 there is an isolated longitudinal crack, honeycombing up to ½-inch deep, a 3-inch deep spall with exposed rebar, map hairline cracks with light efflorescence, and a hollow area.

The project is located in a FEMA-mapped flood zone with base flood elevations shown; therefore, Flood Management Certification approval is required. A permit or approval from the Roxbury Inland Wetlands and Watercourses Commission is required. A Self Verification under the U.S. Army Corps of Engineers General Permit issued for the State of Connecticut is also anticipated based on the project activities.

The proposed project involves bridge replacement with a possible two-span precast concrete or galvanized steel beam superstructure supported on cast-in-place concrete abutments with wingwalls and a center pier all founded on piles. The new bridge would have an improved roadway width. Incidental work on roadway approaches would include minimal pavement reconstruction and/or resurfacing and upgrading existing guide railing near the bridge, if necessary, to meet current safety standards.



Name: ROXBURY
 Date: 12/27/21
 Scale: 1 inch = 2,000 ft.

Location: 041° 32' 59.6556" N, 073° 19' 47.7740" W
 WELLERS BRIDGE ROAD OVER SHEPAUG RIVER



Bridge No.
05068

Bridge No.
05068