MILLER LANE BRIDGE ASBESTOS SURVEY REPORT

Miller Lane Bridge Johnson City, Tennessee



PREPARED BY



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Figure 1 Bridge Location Map

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- Appendix B Photographs
- Appendix C Asbestos Sample Laboratory Analysis Data

1.0 INTRODUCTION

This report presents the findings of an inspection for asbestos-containing materials (ACM) completed on the bridge identified in Section 1.1. The inspection was completed by S&ME, Inc. (S&ME) in general accordance with National Emissions Standards for Hazardous Air Pollutants (NESHAP) and the sampling protocol described in the Asbestos Hazard Emergency Response Act (AHERA) to provide representative samples of each suspect ACM.

1.1 Bridge Identification

The bridge is identified as:

Miller Lane Bridge Johnson City, Tennessee

1.2 General Description

Miller Lane Bridge is located on Miller Lane over Sinking Creek in Johnson City, Tennessee. The bridge is an approximate 20-foot, concrete reinforced deck, and comprising abutment walls, wing walls and curbing with seven steel I-beams imbedded into the bottom of the concrete deck. The surface appears to consist of concrete with patches of asphalt on the entrance and exit of the bridge. The bridge is scheduled for replacement. No bridge plans were provided.

2.0 INSPECTION

The identification of ACM is performed by collecting bulk samples of suspect materials and having those samples analyzed by a laboratory. ACM are those materials found to contain greater than 1% asbestos by calibrated visual area estimation by Polarized Light Microscopy (PLM).

Bulk sampling is a procedure in which representative homogeneous sampling areas in a structure are identified and then sampled. A homogeneous sampling area is defined as an area that contains material of the same type (uniform in color and texture) and was applied during the same general time period. Once the homogeneous sampling areas are identified, bulk samples of suspect materials were obtained from the homogeneous areas (HAs) at the discretion of our inspectors, based on site conditions and past experience.

The survey was limited to an evaluation and confirmation of the presence and approximate quantity of accessible ACMs for the bridge. The survey did not include assessments for other regulated building materials such as lead paint and did not include destructive sampling to identify potential presence of concealed ACMs.

2.1 Personnel and Date(s) of Inspection

The sampling and field activities were performed on February 17, 2020, by Patsy L. Shupe and Amy L. Charles, both Accredited State of Tennessee Asbestos Inspectors. Copies of the inspector's and S&ME's current accreditation from the State of Tennessee are included in **Appendix A**.

2.2 Visual Survey

The survey began with a walk-through and visual survey of the structure located on the property. The visual survey consisted of:

- Locating and identifying HAs of suspect materials that may contain asbestos minerals
- Determining applicable sampling locations

2.3 Access to Bridge Components

Individual bridge components were accessed as described in the following subsections. S&ME collected bulk samples of suspect materials with a focus on materials appearing homogeneous with like color and composition. Metal, fiberglass, and wood materials are not considered as suspect ACM and were not sampled.

A total of 21 samples from seven HAs were collected and submitted for laboratory analysis. **Figure 1** depicts the bridge location map. Photographs of the bridge and various sampling locations are presented in **Appendix B**, and laboratory analytical data sheets are included in **Appendix C**.

2.3.1 Top of Bridge Deck/ Upper Concrete Coating (Homogenous Area 1)

Construction materials that comprise the bridge includes sections of asphaltic wearing surface at the entrance and exit of the bridge over concrete decking with metal I-beams. Suspect ACM was sampled from the asphaltic wearing surface. Three samples labeled 0217-1A, 0217-1B, and 0217-1C were collected from the upper asphaltic coating.

2.3.2 Underside of Bridge Deck (Homogenous Areas 4 and 5)

Below the decking, along the underside of the bridge contained a white trowel-applied coating, and three samples labeled 0217-5A, 0217-5B, and 0217-5C were collected from the coating. Black felt paper was also observed along the underside of the bridge. Three samples labeled 0217-4A, 0217-4B, and 0217-4C were collected of the black felt paper.

2.3.3 Bridge Beams

The bridge has four metal bridge beams. There was no coating on the bridge beams other than rust, therefore no samples were collected from the bridge beams.

2.3.4 Bridge Piers/Bents and Support

The bridge is constructed as a span bridge. No piers or bents are present; therefore, no suspect ACM was sampled.

2.3.5 Bridge Rails (Homogenous Areas 2 and 3)

The bridge is constructed with short concrete curbs; three samples labeled 0217-2A, 0217-2B, and 0217-2C were collected from the filler material between concrete gaps along the bridge curbs. The concrete curbs exhibited a concrete coating along the exterior sides of the curbs, and three samples labeled 0217-3A, 0217-3B, and 0217-3C were collected of the coating.

2.3.6 Abutments (Homogeneous Areas 6 and 7)

The bridge abutments are constructed of concrete. Three samples labeled 0217-7A, 0217-7B, and 0217-7C were collected from the coating on the concrete bridge abutments. The bridge abutments were constructed on concrete footings of different apparent construction material and three samples labeled 0217-6A, 0217-6B, and 0217-6C were collected from the coating on the footings.

2.3.7 Bridge Drainage

S&ME did not observe any method of drainage for the bridge other than sheet flow off the deck.

2.3.8 Additional Bridge Construction Material

No additional bridge construction material was observed.

3.0 ANALYTICAL PROCEDURES

3.1 Asbestos Analysis Procedures

The bulk samples are analyzed in the laboratory using PLM coupled with dispersion staining (Environmental Protection Agency (EPA) Method 600/R-93/116). PLM is an analytical method for asbestos identification, which identifies the specific asbestos minerals by their unique optical properties. The optical properties are a result of the mineral's chemical composition, physical atomic structure, and visual morphology. This is the U.S. EPA recommended method of analysis for asbestos identification in bulk samples.

Samples which contain multiple layers, or that have associated mastic or adhesive backing, are analyzed as two or more separate samples when possible.

3.2 Laboratory Name and Accreditation

The bulk samples collected for this inspection were analyzed by a laboratory that has received certification from the American Industrial Hygiene Association's (AIHA) Laboratory Accreditation

Program. The name and laboratory number of the analytical laboratory that analyzed the samples for this inspection is indicated in Table 1.

Laboratory Name	Scientific Analytical Institute, Inc.	
Laboratory ID Number	200664-0	

Table 1 - Analytical Laboratory

4.0 **REGULATORY OVERVIEW**

4.1 National Emission Standards for Hazardous Air Pollutants

The EPA's NESHAP regulations (40 CFR 61, Subpart B) requires that all regulated asbestoscontaining materials (RACM) be properly removed prior to any renovation or demolition activities that will disturb them. These regulations define RACM as:

- Friable ACM.
- Category I non-friable ACM that has become friable.
- Category I non-friable ACM that will be or has been subject to sanding, grinding, cutting, or abrading.
- Category II non-friable ACM that has a high probability of becoming, or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

4.1.1 Definitions

Significant definitions related to regulation of asbestos under NESHAP regulations include:

Friable asbestos-containing material (ACM), is defined by the Asbestos NESHAP, as any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, PLM, that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure. (Sec. 61.141).

Non-friable ACM is any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, PLM, that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. EPA also defines two categories of non-friable ACM, Category I and Category II non-friable ACM, which are described as follows:

Category I non-friable ACM is any asbestos-containing packing, gasket, resilient floor covering or asphalt roofing product which contains more than one percent (1%) asbestos as determined

using PLM according to the method specified in Appendix A, Subpart F, 40 CFR Part 763. (Sec. 61.141).

Category II non-friable ACM is any material, excluding Category I non-friable ACM, containing more than one percent (1%) asbestos as determined using PLM according to the methods specified in Appendix A, Subpart F, 40 CFR Part 763 that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. (Sec. 61.141).

RACM is (a) friable asbestos material, (b) Category I non-friable ACM that has become friable, (c) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting or abrading, or (d) Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

Friable materials are defined as those which can be crumbled, pulverized, or reduced to powder by hand pressure when dry. The NESHAP regulations also establish specific notification and control requirements for renovation and demolition work.

5.0 RESULTS

The results of the asbestos inspection are presented in the following sections.

5.1 Results of Asbestos Bulk Sample Analysis

A total of nine suspect ACM samples were obtained from the bridge. Multiple samples of each HA were collected in general accordance with NESHAP and the sampling protocol described in the AHERA to provide representative samples of each suspect ACM and delivered to the laboratory for visual observation and microscopic analysis. The samples were selected based on HAs of suspect materials, as described in Section 2.2.

None of the samples analyzed contained detectable asbestos minerals. The analytical results of all the samples collected from the structure, along with the chain-of-custody records, are included in **Appendix C**.

6.0 QUALIFICATIONS

The information presented herein is based on information obtained during the site visit(s) and from previous experience. If additional information becomes available, which might impact our conclusions or recommendations, S&ME requests the opportunity to review the information, reassess the potential concerns, and modify opinions, if warranted.

This report has been prepared on behalf of Vaughn & Melton Consulting Engineers on behalf of the City of Johnson City, Tennessee. This document is not a Bid Document or a Contract Document. Use of this report or reliance upon information contained in this report by any other party implies an agreement by that party to the same terms and conditions under which service was provided. Furthermore, any party, other than our Client, relying on this document is cautioned that all conclusions made or decisions arrived at based on their review of this document are those solely of the third party, without warranty, guarantee or promise by the author. These findings are relevant to the dates of our services and should not be relied upon to represent conditions at substantially earlier or later dates.

Figure

FIGURE 1: BRIDGE LOCATION MAP



Appendix A: Asbestos Inspection Credentials









Appendix B: Photographs

Photographer: Patsy L. Shupe	
Date: 02/17/2020	
Description: Photograph 1 –	and the state of the state
Homogeneous Area 1 Asphaltic Coating	
Sample Locations 0217-1A 0217-1B 0217-1C	
Photographer: Patsy L. Shupe	
Date: 02/17/2020	
Description: Photograph 2 –	
Homogeneous Area 2 Concrete Gap Fill	
Sample Locations 0217-2A 0217-2B 0217-2C	

Photographer: Patsy L. Shupe	
	Carl Marries and Marries and
Date:	
02-17-2020	
Description ·	
Photograph 3 –	
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3 Bridge Wall	
Coating	
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0217-3B	and the second
0217-3C	
Photographer:	
Patsy L. Shupe	
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Date:	
02/17/2020	
Description:	
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	A let
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0217-4B	
0217-4C	

Photographer:	
Patsy L. Shupe	
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Data	
Date.	
02/17/2020	
Description:	
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5 white Coating	
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Sample Locations	
Sample Locations	
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0217-5B	· P · P · P · P · P · P · P · P · P · P
0217 50	
0217-3C	
Photographer:	
Photographer: Patsy L. Shupe	
Photographer: Patsy L. Shupe	
Photographer: Patsy L. Shupe	
Photographer: Patsy L. Shupe	
Photographer: Patsy L. Shupe	
Photographer: Patsy L. Shupe	
Photographer: Patsy L. Shupe	
Photographer: Patsy L. Shupe	
Photographer: Patsy L. Shupe Date: 02/17/2020	
Photographer: Patsy L. Shupe Date: 02/17/2020	
Photographer: Patsy L. Shupe Date: 02/17/2020	
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Photographer: Patsy L. ShupeDate: 02/17/2020Description: Photograph 1 -	
 Photographer: Patsy L. Shupe Date: 02/17/2020 Description: Photograph 1 – 	
 Photographer: Patsy L. Shupe Date: 02/17/2020 Description: Photograph 1 – Homogeneous Area 	
 Photographer: Patsy L. Shupe Date: 02/17/2020 Description: Photograph 1 – Homogeneous Area 6 Coating on Bridge 	
 Photographer: Patsy L. Shupe Date: 02/17/2020 Description: Photograph 1 – Homogeneous Area 6 Coating on Bridge Ecoting 	
 Photographer: Patsy L. Shupe Date: 02/17/2020 Description: Photograph 1 – Homogeneous Area 6 Coating on Bridge Footing 	
 Photographer: Patsy L. Shupe Date: 02/17/2020 Description: Photograph 1 – Homogeneous Area 6 Coating on Bridge Footing 	
 Photographer: Patsy L. Shupe Date: 02/17/2020 Description: Photograph 1 – Homogeneous Area 6 Coating on Bridge Footing Sample Locations 	
 Photographer: Patsy L. Shupe Date: 02/17/2020 Description: Photograph 1 – Homogeneous Area 6 Coating on Bridge Footing Sample Locations 	
Photographer: Patsy L. Shupe Date: 02/17/2020 Description: Photograph 1 – Homogeneous Area 6 Coating on Bridge Footing Sample Locations 0217-6A	
 Photographer: Patsy L. Shupe Date: 02/17/2020 Description: Photograph 1 – Homogeneous Area 6 Coating on Bridge Footing Sample Locations 0217-6A 0217-6B 	
Photographer: Patsy L. Shupe Date: 02/17/2020 Description: Photograph 1 – Homogeneous Area 6 Coating on Bridge Footing Sample Locations 0217-6A 0217-6B 0217-6C	
Photographer: Patsy L. Shupe Date: 02/17/2020 Description: Photograph 1 – Homogeneous Area 6 Coating on Bridge Footing Sample Locations 0217-6A 0217-6B 0217-6C	
Photographer: Patsy L. ShupeDate: 02/17/2020Description: Photograph 1 –Homogeneous Area 6 Coating on Bridge FootingSample Locations 0217-6A 0217-6B 0217-6C	

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Patsy L. Shupe	
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02/17/2020	
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0217-7B	MARCHAR MARCHAR
0217-7C	and the second

Appendix C:

Asbestos Sample Laboratory Analysis Data



Bulk Asbestos Analysis

By Polarized Light Microscopy EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E



Customer: S&ME, Inc. Tri-Cities 644 Eastern Star Rd Kingsport, TN 37663 Attn: Carol Ford Patsy Shupe
 Lab Order ID:
 71936556

 Analysis ID:
 71936556_PLM

 Date Received:
 2/19/2020

 Date Reported:
 2/21/2020

M M

Project: Miller Lane Bridge

Sample ID	Description	Ashestos	Fibrous	Non-Fibrous	Attributes
Lab Sample ID	Lab Notes	ISDESUS	Components	Components	Treatment
0217-1A	Asphaltic Coating	None Detected		100% Other	Black, Gray Non Fibrous Heterogeneous
71936556PLM_1	_				Crushed, Dissolved
0217-1B	Asphaltic Coating	None Detected		100% Other	Black, Gray Non Fibrous Heterogeneous
71936556PLM_2	-				Crushed, Dissolved
0217-1C	Asphaltic Coating	None Detected		100% Other	Black, Gray Non Fibrous Heterogeneous
71936556PLM_3	-				Crushed, Dissolved
0217-2A	Concrete Gap Fill	None Detected		100% Other	Gray Non Fibrous Heterogeneous
71936556PLM_4	-				Crushed
0217-2B	Concrete Gap Fill	None Detected		100% Other	Gray Non Fibrous Heterogeneous
71936556PLM_5	-				Crushed
0217-2C	Concrete Gap Fill	None Detected		100% Other	Gray Non Fibrous Heterogeneous
71936556PLM_6	_				Crushed
0217-3A	West Wall Coating	None Detected		100% Other	Gray Non Fibrous Heterogeneous
71936556PLM_7					Crushed
0217-3B	West Wall Coating	None Detected		100% Other	Gray Non Fibrous Heterogeneous
71936556PLM_8	-				Crushed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Yanelis Delgado (21)

Analyst

w **Approved Signatory**

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888



Bulk Asbestos Analysis

By Polarized Light Microscopy EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E



Customer: S&ME, Inc. Tri-Cities 644 Eastern Star Rd Kingsport, TN 37663 Attn: Carol Ford Patsy Shupe
 Itab Order ID:
 71936556

 Analysis ID:
 71936556_PLM

 Date Received:
 2/19/2020

 Date Reported:
 2/21/2020

M M

Project: Miller Lane Bridge

Sample ID	Description	Ashastas	Fibrous	Non-Fibrous	Attributes
Lab Sample ID	Lab Notes	Aspestos	Components	Components	Treatment
0217-3C	West Wall Coating	None Detected		100% Other	Gray Non Fibrous Heterogeneous
71936556PLM_9	-				Crushed
0217-4A	Black Felt Coating	None Detected	60% Cellulose	40% Other	Black Fibrous Homogeneous
71936556PLM_10	_				Ashed
0217-4B	Black Felt Coating	None Detected	60% Cellulose	40% Other	Black Fibrous Homogeneous
71936556PLM_11	_				Ashed
0217-4C	Black Felt Coating	None Detected	60% Cellulose	40% Other	Black Fibrous Homogeneous
71936556PLM_12	-				Ashed
0217-5A	White Coating	None Detected	3% Cellulose	97% Other	Gray Non Fibrous Heterogeneous
71936556PLM_13	-				Crushed
0217-5B	White Coating	None Detected	3% Cellulose	97% Other	Gray Non Fibrous Heterogeneous
71936556PLM_14	-				Crushed
0217-5C	White Coating	None Detected	3% Cellulose	97% Other	Gray Non Fibrous Heterogeneous
71936556PLM_15	-				Crushed
0217-6A	Bridge Footing Coating	None Detected		100% Other	Tan Non Fibrous Heterogeneous
71936556PLM_16	1				Crushed

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Yanelis Delgado (21)

Analyst

w **Approved Signatory**

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Bulk Asbestos Analysis

By Polarized Light Microscopy EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E



Customer: S&ME, Inc. Tri-Cities 644 Eastern Star Rd Kingsport, TN 37663 Attn: Carol Ford Patsy Shupe
 Lab Order ID:
 71936556

 Analysis ID:
 71936556_PLM

 Date Received:
 2/19/2020

 Date Reported:
 2/21/2020

[X]\V

Project: Miller Lane Bridge

Sample ID	Description	Ashastas	Fibrous	Non-Fibrous	Attributes
Lab Sample ID	Lab Notes	Aspestos	Components	Components	Treatment
0217-6B	Bridge Footing Coating	None Detected		100% Other	Tan Non Fibrous Heterogeneous
71936556PLM_17	-				Crushed
0217-6C	Bridge Footing Coating	None Detected		100% Other	Tan Non Fibrous Heterogeneous
71936556PLM_18	-				Crushed
0217-7A	Abutment wall Coating	None Detected		100% Other	Gray Non Fibrous Heterogeneous
71936556PLM_19	-				Crushed
0217-7B	Abutment wall Coating	None Detected		100% Other	Gray Non Fibrous Heterogeneous
71936556PLM_20	-				Crushed
0217-7C	Abutment wall Coating	None Detected		100% Other	Gray Non Fibrous Heterogeneous
71936556PLM_21	-				Crushed

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Yanelis Delgado (21)

Analyst

w **Approved Signatory**

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888

(1930556

Client:	S&ME	*Instructions:	
Contact:	Carol Ford	Use Column "B" for your contact info	Scientific Analytical
Address:	644 Eastern Star Road, Ksp. TN		
Phone:	423-349-2800	To See an Example Click the	Institute, Inc.
Fax:	423-349-2817	bottom Example Tab.	
Email:	pshupe@smeinc.com		4604 Dundas Drive
	cford@smeinc.com	Enter samples between "<<" and ">>"	Greensboro, NC 27407
Project:	Miller Lane Bridge	Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.	Phone: 336.292.3888 Fax: 336.292.3313
Client Notes:	Positive stop per HA	Only Enter your data on the first sheet "Sheet1"	Email: lab@sailab.com
P.O. #.	4140-20-003	Note: Data 1 and Data 2 are optional	
Date Submitted:	02-17-2020 1400	fields that do not show up on the official report, however they will be included	
Analysis:	PLM	in the electronic data returned to you	
TurnAroundTime:	3-day	to facilitate your reintegration of the report data.	

<< Asphaltic Coating 0217-1A Southeast of Bridge 0217-1B Southeast of Bridge Southeast of Bridge 0217-1C 0217-2A Southeast Corner East Center 0217-2B West Center 0217-2C 0217-3A West Center Wall West Center Wall 0217-3B 0217-3C West Center Wall 0217-4A Southeast Underside of Bridge Center of Underside of Bridge 0217-4B 0217-4C Southwest Underside of Bridge Southeast Underside of Bridge 0217-5A 0217-5B Center of Underside of Bridge West End of Bridge 0217-5C 0217-6A North Footing 0217-6B North Footing 0217-6C North Footing

12101

Sample Number

Asphaltic Coating Asphaltic Coating Concrete Gap Fill Concrete Gap Fill Concrete Gap Fill West Wall Coating West Wall Coating West Wall Coating Black Felt Coating Black Felt Coating Black Felt Coating White Coating White Coating White Coating **Bridge Footing Coating Bridge Footing Coating** Bridge Footing Coating

Sample Description

BAULLUI 1020A 2119 Accepted

Rejected

0)31812

71931656



0217-7A

0217-7B 0217-7C North Abutment

North Abutment North Abutment