

Asbestos & Lead-Based Paint Assessment SC 4 Bridge over South Edisto River Route SC 4/302 Structure No. 02000400200 Aiken County, South Carolina S&ME Project No. 207163

PREPARED FOR

South Carolina Department of Transportation 955 Park Street, Room 421 Columbia, South Carolina 29201

PREPARED BY:

S&ME, Inc. 134 Suber Road Columbia, SC 29210 (803) 561-9024

January 21, 2021

INSPECTION PERFORMED BY:

Travis Knight & Bobby McAllister SCDHEC Lic. BI-00885 & BI-01429 Inspection Date: January 18, 2021

- Asbestos was NOT found
 Asbestos WAS found
- ☑ Lead-Based Paint was NOT found
- □ Lead-Based Paint WAS found

Report Expiration: January 2024



January 21, 2021

South Carolina Department of Transportation 955 Park Street, Room 421 Columbia, South Carolina 29201

Attention: Mr. Trapp Harris, PE, DBIA HarrisMD@scdot.org

Reference: Asbestos & Lead-Based Paint Assessment SC 4 Bridge over South Edisto River Route SC 4/302 Structure No. 02000400200 Aiken County, South Carolina S&ME Project No. 207163

Dear Mr. Harris:

S&ME, Inc. (S&ME) is pleased to provide the enclosed report detailing our Asbestos and Lead-Based Paint Assessment of the SC 4 Bridge over South Edisto River located on Route SC 4/302 in Aiken County, South Carolina (Structure No. 02000400200). Our services consisted of an asbestos assessment and lead-based paint assessment. The work was performed in accordance with South Carolina Department of Transportation Basic Agreement Contract Number S-225-18 dated September 23, 2020 and Scope of Services submitted December 29, 2020. The enclosed report includes the executive summary, project background, investigative procedures, findings and results, and conclusions and recommendations as necessary.

This report is provided for the use of the South Carolina Department of Transportation. Use of this report by any other parties will be at such party's sole risk and S&ME, Inc. disclaims liability for any such use or reliance by third parties. The results presented in this report are indicative of conditions only during the time of the assessment.

In accordance with South Carolina Department of Health and Environmental Control Regulation 61-86.1 Standards of Performance for Asbestos Projects, this asbestos assessment report will remain valid for a period of three years from the date of inspection (January 18, 2021).



We appreciate the opportunity to provide you with our industrial hygiene/environmental services. If you have any questions concerning this report, please call us at (803) 561-9024.

Sincerely,

S&ME, Inc.

Maa 3.2

Bobby McAllister Asbestos Building Inspector (SCDHEC License No. BI-01429)

pan 2

Tom Behnke, P.G., CHMM Project Manager/Senior Reviewer (SCDHEC License No. MP-00004)



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Executive Summary

An asbestos assessment and lead-based paint assessment was conducted on January 18, 2021 of the SC 4 Bridge over South Edisto River (Structure No. 02000400200) on Route SC 4/302 in Aiken County, South Carolina. The purpose of the assessment was to identify asbestos-containing materials (ACMs) and lead-based paint coatings associated with the structure prior to renovation or demolition activities.

The bridge consists of a two-lane asphalt paved roadway with concrete guard rails resting on concrete deck supported by wood pilings, concrete bents, and steel beams. It is our understanding the bridge is scheduled for future renovation/demolition actions.

Asbestos

The asbestos assessment was performed in general accordance with the South Carolina Department of Health and Environmental Control (SCDHEC) Regulation 61-86.1, *Standards of Performance for Asbestos Projects* effective May 27, 2011. The asbestos assessment included the bulk sampling and analysis of suspect ACMs from the structure. The suspect materials identified on the bridge structure included vibration dampener, cementitious pipe, and black reflector mastic.

The Environmental Protection Agency (EPA) and SCDHEC define materials as asbestos-containing if an asbestos content of greater than one percent (>1%) is detected in a representative sample. *Asbestos, in concentrations* >1%, <u>was identified</u> as a result of the assessment. Below is a summary of ACMs identified in the structure:

Table E-1 ACM Summary

Cementitious pipe Beneath west side of bridge Misc	Chrysotile 20% Crocidolite >1%	Good, NF	610 LF

¹Refer to Appendix I for specific sample locations.

TSI = Thermal System Insulation

³Cond = Condition: Good, Damaged or Significantly Damaged

⁴Quantities are approximate and should not be used for cost estimates or bidding purposes.

Misc. = Miscellaneous Surf. = Surfacing

Lead-Based Paint

²Type:

Painted surfaces associated with the bridge structure were considered suspect and analyzed for lead content. Painted surfaces exceeding the SCDHEC disposal criteria of 0.7 milligrams per square centimeter (mg/cm²) were



considered lead-based paint for the purpose of this assessment. Lead-based paint was **not** identified as a result of this assessment.

1.0 Introduction

S&ME was contracted to perform an asbestos assessment and lead-based paint assessment of the SC 4 Bridge over South Edisto River on Route SC 4/320 in Aiken County, South Carolina. The bridge is identified as structure number 024000400200. These services were requested and authorized by the South Carolina Department of Transportation (SCDOT). We understand the bridge is scheduled for renovation and/or demolition activities. The asbestos and lead-based paint assessment was performed on January 18, 2021.

The bridge consists of a two-lane asphalt paved roadway with concrete guard rails resting on concrete deck supported by wood pilings, concrete bents, and steel beams. The bridge is approximately 600 feet long and 30 feet wide.

Asbestos Assessment

The asbestos assessment was performed to identify and sample suspect ACMs in accordance with regulatory requirements for structures scheduled to be renovated or demolished. Demolition and renovation activities are regulated by OSHA, EPA and SCDHEC. The EPA and SCDHEC require asbestos assessments, conducted by licensed individuals, prior to renovation and/or demolition projects. Code 40 of Federal Regulations Part 61-86.1 require asbestos assessments, followed by the proper removal, and disposal of ACM that is affected by renovation or demolition. The identification of ACMs will aid in the prevention of occupational exposures and/or environmental releases of airborne asbestos. Identification of ACM is also required by OSHA 1926.1101. The EPA, OSHA and SCDHEC define ACM as materials containing greater than one (1) percent asbestos in a representative sample. However, OSHA regulates materials containing less than or equal to one percent asbestos. Identification of ACMs also complies with Title 40 Code of the Federal Regulations, part 61, and State Regulation 61-86.1 enforced by the SCDHEC, along with Title 29 Code of Federal Regulations, part 1926 enforced by OSHA.

Section 2.0 describes the assessment procedures used, results of the suspect ACMs sampled and analyzed, confirmed ACMs located on the structure, and conclusions and recommendations regarding the subject bridge as related to ACMs.

Lead-Based Paint Assessment

The purpose of the lead-based paint assessment was to identify observable lead-based paint finishes associated with the structure which may be adversely affected by future renovation or demolition activities. The identification of these materials will aid in the compliance of occupational exposure (OSHA) and/or environmental releases of airborne lead dust in accordance with 29 CFR 1926.62 (Lead in Construction) and provide information to facilitate proper disposal of lead-based paint coated components and debris in accordance with the SCDHEC and EPA.

2.0 Asbestos Assessment

2.1 Assessment Procedures

The asbestos assessment was performed by observing and collecting random samples of suspect asbestoscontaining materials associated with the subject bridge structure. Significant destructive investigative techniques and sampling was not performed as part of this assessment. Consequently, the possibility exists that suspect



materials were not detected in inaccessible areas such as voids, or in areas deemed unsafe to assess by the asbestos inspector. If additional suspect materials are discovered during future renovation or demolition activities, destructive actions to the suspect ACM should not proceed until bulk samples are collected and analyzed for asbestos content.

Suspect ACMs that were observed and sampled consist of a vibration dampener, cementitious pipe and black reflector mastic.

A sampling strategy was developed to provide representative samples of the suspect asbestos-containing materials in accordance with OSHA, SCDHEC and EPA. Bulk samples were then extracted from suspect ACMs, recorded on a chain of custody record and submitted to EMSL Analytical's asbestos laboratory in Pineville, North Carolina for analysis via the following methods:

Polarized Light Microscopy (PLM)

The suspect materials were analyzed by trained microscopists using PLM techniques coupled with dispersion staining in accordance with EPA Test Method Title 40 Code of Federal Regulations, Chapter I (1-1-87 edition), Part 763, Subpart F-APPENDIX A. This method identifies asbestos mineral fibers based on six optical characteristics: morphology, birefringence, refractive index, extinction angle, sign of elongation and dispersion staining colors. The laboratory analysis reports the specific type of asbestos identified (there are six asbestos minerals) and the percentage of asbestos presents.

Transmission Electron Microscopy (TEM)

In accordance with SCDHEC Regulation 61-86.1, Transmission Electron Microscopy (TEM) confirmation analysis is required to be performed on one sample of any non-friable organically bound material (NOB) that tests negative via PLM analysis. The TEM analysis was performed by EMSL using EPA 600 Method in accordance with ASTM E2356.

Both the PLM and the TEM laboratories are accredited by the National Voluntary Laboratory Accreditation Program (NVLAP), which is administered by the National Institute of Standards and Technology.

2.2 Findings and Results

The asbestos assessment conducted on January 18, 2021 included the quantification and random bulk sampling of various suspect asbestos-containing materials associated with the bridge structure. The suspect materials consisted of vibration dampener, cementitious pipe, and black reflector mastic. No suspect asbestos-containing drainage scuppers were observed. Of the representative materials sampled and analyzed during this assessment, asbestos in concentrations >1% was identified in the following materials summarized below.

Table 2-1 ACM Summary

Material	¹ Material Location	²Type	Asbestos Type & Percent	³ Condition	⁴Approx. Quantity
Cementitious pipe	Beneath west side of bridge	Misc.	Chrysotile 20% Crocidolite >1%	Good, NF	610 LF

NF = Non-friable F = Friable SF = Square feet LF = Linear feet

¹Refer to Appendix I for specific sample locations.

²Type: Misc. = Miscellaneous Surf. = Surfacing

TSI = Thermal System Insulation

³Cond = Condition: Good, Damaged or Significantly Damaged

⁴Quantities are approximate and should not be used for cost estimates or bidding purposes.

A table summarizing the sample number, location, type of material tested, approximate quantity of the material sampled, condition of the material, and corresponding result for each sample is provided in **Appendix I**. Site location exhibits and photographs are provided in **Appendix II**. The laboratory report is provided in **Appendix III**. A copy of the inspector's SCDHEC license is provided in **Appendix V**.

3.0 Lead-Based Paint Assessment

3.1 Assessment Procedures

The lead-based paint assessment was conducted for compliance with the SCDHEC limit of 0.7 milligrams (mg) of lead per square centimeter (cm²) of painted surface for lead-based paint coated waste. SCDHEC, Health Division defines lead-based paint as a coating containing lead in quantities \geq 0.7 mg/cm² (SCDHEC, Health Division definition #4-53-1320f). Any coated surfaces meeting or exceeding the SCDHEC limit of 0.7 mg/cm² were considered lead-based paint for the purpose of this assessment.

OSHA does not recognize a threshold level of lead for definition purposes, only the presence or absence of lead. The current OSHA regulations recognize an airborne action level of thirty micrograms of lead per cubic meter of air (30 μ g/m³) during an eight-hour day and a permissible exposure level of fifty micrograms per cubic meter (50 μ g/m³).

3.2 Findings and Results

For the purpose of this assessment, painted surfaces exceeding the SCDHEC disposal limit of 0.7 mg/cm² are considered lead-based paint and are applicable to OSHA regulation. Lead-based paint was **not** identified as a result of this assessment. A table summarizing the lead readings is provided in **Appendix IV**.



4.0 **Conclusions and Recommendations**

The asbestos and lead-based paint assessment conducted of the SC 4 Bridge over South Edisto (Structure No. 02000400200) on Route SC 4/302 in Aiken County, South Carolina <u>did</u> identify the presence of asbestos-containing materials. The assessment <u>did not</u> identify the presence of lead-based paint. Our conclusions and recommendations are summarized below:

4.1 Asbestos

S&ME recommends proper removal and disposal of the ACMs by a licensed asbestos abatement contractor, prior to activities that may disturb an ACM. State and Federal regulations should be carefully considered in order to verify compliance before any actions are initiated that may disturb an ACM. If additional suspect ACMs not included in this report are discovered and will be disturbed by the renovation/demolition activities, bulk samples must be collected by a licensed asbestos inspector and analyzed for asbestos content, prior to disturbance of the suspect material(s).

Asbestos removal requires written notification to SCDHEC, specific removal procedures, proper transportation, and disposal per state and federal regulations. The identification and proper removal of ACM prior to demolition or renovation will aid in the prevention of occupational exposures and/or environmental releases of airborne asbestos. In accordance with SCDHEC Regulation 61-86.1, project air monitoring must be performed by a SCDHEC licensed air sampler in conjunction with the removal of regulated asbestos materials (e.g. friable materials or non-friable materials rendered friable) that exceed the classification of a Small Project or are not regulated exterior removals. SCDHEC also requires a written project design when 3,000 square feet (or greater) of regulated are to be removed.

If additional suspect ACMs not included in this report are discovered and will be disturbed by renovation or demolition activities, bulk samples must be collected by a licensed asbestos inspector and analyzed for asbestos content, prior to disturbance of the suspect material(s). This report should be provided to the contractor(s) to assist with compliance with applicable State and Federal regulations.

4.2 Lead-Based Paint

No tested coatings exceeded the SCDHEC 0.7 mg/cm² limit for lead-based paint. No further recommendations are provided.

5.0 Limitations

This report is provided for the sole use of the SCDOT. Use of this report by any other parties will be at such party's sole risk, and S&ME disclaims liability for any such use or reliance by third parties. The results presented in this report are indicative of conditions only during the time of the sampling period and of the specific areas referenced. Under no circumstances is this report to be used as a bidding document, or as a project design or specification.



S&ME performed the services in accordance with generally accepted practices of reputable environmental consultants undertaking similar studies at the same time and in the same geographical area. S&ME has endeavored to meet this standard of care. No other warranty, expressed or implied, is intended or made with respect to this report or S&ME's services. Users of this report should consider the scope and limitations related to these services when developing opinions as to risks associated with the site. Additional limitations to our survey are as follows:

- Significant destructive sampling was not performed during the asbestos survey. Additional suspect ACMs may be present in inaccessible locations such as materials encased in concrete. Consequently, if additional suspect materials are discovered during future renovation or demolition activities, bulk samples must be collected and analyzed for asbestos content.
- The subject structure is a bridge over a river. Not all portions of the underside of the bridge could be observed or reached by the inspectors.

Appendices

Appendix I – Summary of Asbestos Sampling

Summary of Asbestos Sampling					
Project Name:	SC 4 Bridge over South Edisto River (Structure No. 024000400200)	Project Number:	207163		
Location:	Route SC 4/320, Aiken County, South Carolina	Sampling Date(s):	January 18, 2021		

Table I-I Summary of Asbestos Sampling

Sample No.	Sample Location	Material	Approx. Quantity ¹	Asbestos Type	% ²	Condition	P.F.D. ³	H.A. ⁴
VD-1	Between pile and bent	Felt			NA	NA	NA	NA
VD-2	Between pile and bent	Felt	210 SF	NAD	NA	NA	NA	NA
VD-3 <i>(TEM)</i>	Between pile and bent	Felt	- 210 SF	NAD	NA	NA	NA	NA
TP-1	Beneath west side of bridge	Cementitious pipe		Chrysotile Crocidolite	20% <1%	Good	LPD	1
TP-2	Beneath west side of bridge Cementitious pipe		610 LF	Chrysotile Crocidolite	20% <1%	Good	LPD	1
TP-2	Beneath west side of bridge	Cementitious pipe		Positive Stop – Not Analyzed				
M-1	Top of bridge at reflector	Black reflector mastic		NAD	NA	NA	NA	NA
M-2	Top of bridge at reflector	Black reflector mastic		NAD	NA	NA	NA	NA
M-3 <i>(TEM)</i>	Top of bridge at reflector	Black reflector mastic	– 50 SF	NAD	NA	NA	NA	NA

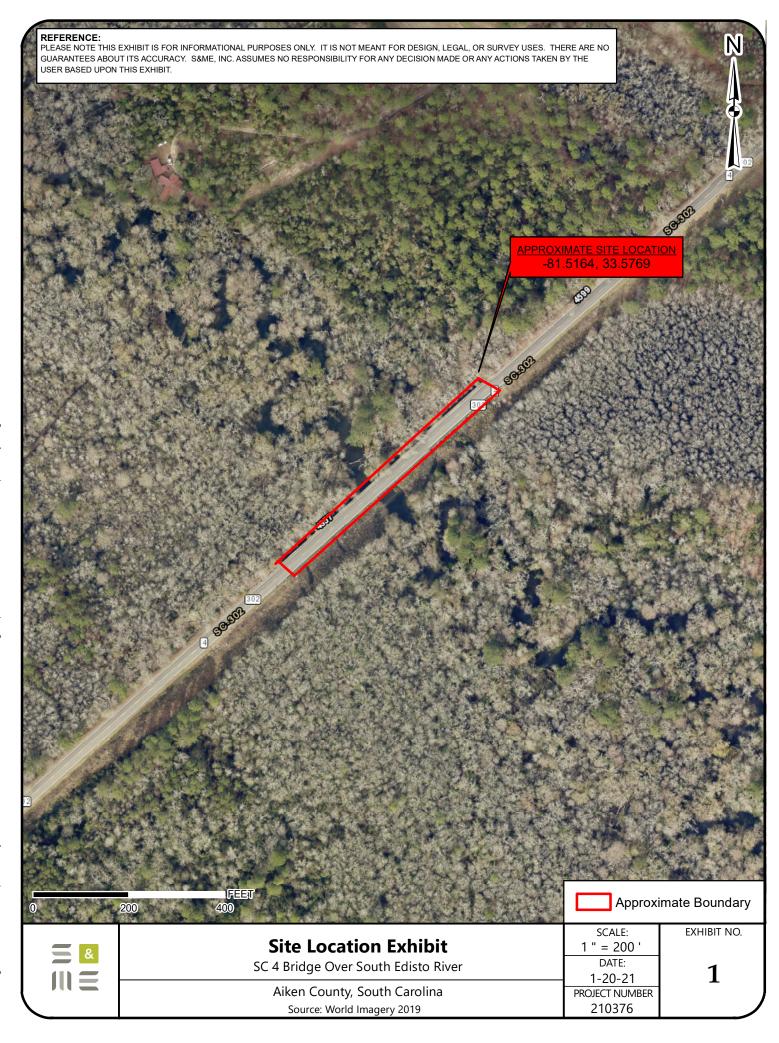
SF = square feet NAD = No Asbestos Detected NA = Not Applicable TEM = Transmission Electron Microscopy

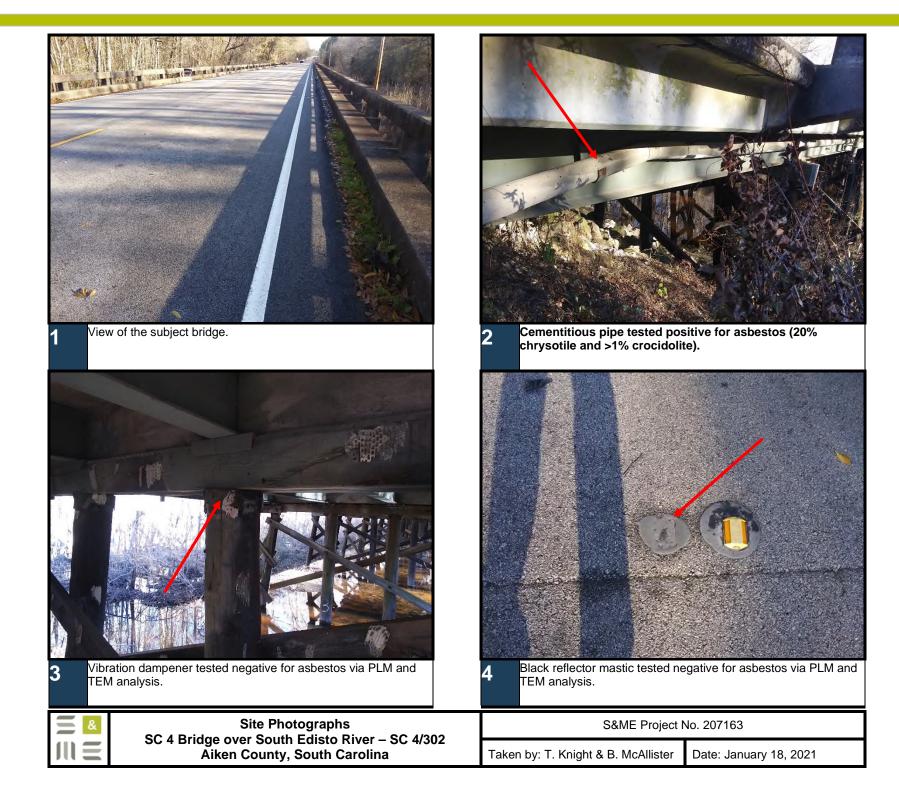
Note 1: Estimated quantities. The quantities should not be used for bidding purposes, as field conditions should be verified.

Note 2: The EPA, SCDHEC and OSHA define a material as asbestos-containing if an asbestos content greater than one percent (>1%) is detected in a representative sample.

Note 3: Potential for Disturbance Note 4: Hazard Assessment

Appendix II – Exhibit and Photographs







Bridge scuppers are metal.

5



Green on metal beams tested negative for lead-based paint.



Yellow and white stripes tested negative for lead-based paint.



Green on metal pipe east side of bridge tested negative for lead-8 based paint.



Site Photographs SC 4 Bridge over South Edisto River – SC 4/302 Aiken County, South Carolina

S&ME Project No. 207163

Taken by: T. Knight & B. McAllister Date: January 18, 2021 Appendix III – Asbestos Bulk Sample Analysis Sheets and Chain of Custody Record

EMSL Analytical, Inc. 10801 Southern Loop Blvd Pineville, NC 28134 Tel/Fax: (704) 525-2205 / (704) 525-2382 **Project ID:** http://www.EMSL.com / charlottelab@emsl.com Attention: Travis Knight S&ME, Inc. 134 Suber Rd. Columbia, SC 29210

Project: SC-4 Bridge

EMSL Order: 412100409 Customer ID: S&ME50 Customer PO: 207163

Phone:	(803) 561-9024		
Fax:	(803) 561-9177		
Received Date:	01/19/2021 9:45 AM		
Analysis Date:	01/19/2021		
Collected Date:	01/18/2021		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Asbestos			
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
VD-1	On Top of Pile - Felt	Black Non-Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
412100409-0001		Homogeneous			
VD-2	On Top of Pile - Felt	Black Non-Fibrous	15% Cellulose 2% Fibrous (Other)	83% Non-fibrous (Other)	None Detected
412100409-0002		Homogeneous			
TP-1	Under West Side of	Gray/White		80% Non-fibrous (Other)	20% Chrysotile
412100409-0004	Bridge - Cementitious Pipe	Non-Fibrous Homogeneous			<1% Crocidolite
TP-2	Under West Side of	Gray/White		80% Non-fibrous (Other)	20% Chrysotile
412100409-0005	Bridge - Cementitious Pipe	Non-Fibrous Homogeneous			<1% Crocidolite
TP-3	Under West Side of	Gray/White/Blue		80% Non-fibrous (Other)	20% Chrysotile
	Bridge - Cementitious	Fibrous			<1% Crocidolite
412100409-0006	Pipe	Homogeneous			
M-1	Reflector - Black Mastic	Black Non-Fibrous	2% Cellulose	5% Quartz 10% Ca Carbonate	None Detected
412100409-0007	Ινιαδιίο	Homogeneous		83% Non-fibrous (Other)	
M-2	Reflector - Black	Black	2% Cellulose	8% Ca Carbonate	None Detected
412100409-0008	Mastic	Non-Fibrous Homogeneous		90% Non-fibrous (Other)	

Analyst(s)

Brant Alyea (4) Eric Loomis (3)

Evan L Plumber

Lee Plumley, 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. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis . Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from: 01/19/2021 15:00:25



Phone:	(803) 561-9024		
Fax:	(803) 561-9177		
Received Date:	01/19/2021 9:45 AM		
Analysis Date:	01/19/2021		
Collected Date:	01/18/2021		

Project: SC-4 Bridge

Attention: Travis Knight

S&ME, Inc. 134 Suber Rd. Columbia, SC 29210

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
VD-3	On Top of Pile - Felt	Black	100.0 Other	None	No Asbestos Detected
412100409-0003		Non-Fibrous			
		Homogeneous			
M-3	Reflector - Black Mastic	Black	100.0 Other	None	No Asbestos Detected
412100409-0009		Non-Fibrous			
		Homogeneous			

Analyst(s)

Derrick Young (2)

Evan L Plumber

Lee Plumley, 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. Pineville, NC

Initial report from: 01/20/2021 08:33:44

EMSL ANALYTICAL, INC.

Asbestos Bulk Building Material Chain of Custody

EMSL Analytical, Inc. 10801 Southern Loop Blvd

EMSL Order Number (lab use only):

Pineville, NC 28134 Phone (704) 525-2205 Fax (704) 525-2382

CLEORATOWY PRODU	CT9-TRADEDO	41210	00409	Fax (704) 525-2382		
Company Name	S&ME, Inc.		EMSL Customer ID:			
	Suber Rd.		City: Columbia	State or Province: SC		
Zip/Postal Code		Country: US	Telephone #: 803-561-90			
Report To (Nam			Please Provide Results via	:: 🗌 Fax 🔲 Email		
email Address:	tknight@smein	c.com	Purchase Order Number:	207163		
Client Project ID			EMSL Project ID (internal u	se only):		
State or Provinc			CT only Commercial/Ta			
EMSL-Bill to:	Same Differen		<u>tions in comment. Third party billing</u> AT) Options Please Check	requires written authorization from third party		
3 Hour	6 Hour 🔲 24			96 Hour 🔲 1 Week 🔲 2 Week		
		32 Hour TAT available for select tests	only; samples must be submitted by 11:3	10am.		
	PLM - Bulk (repor		s and/or turnaround times 6 hours or less			
PLM EPA 600			TEM EPA NOB - EPA 600/	R-93/116 Section 2.5.5.1		
PLM EPA NO	B (<1%)		NY ELAP Method 198.4 no	n-friable - NY		
Point Count	400 (<0.25%) 🔲 10	00 (<0.1%)	Chatfield Protocol (semi-qu	antitative)		
Point Count w/Gr	avimetric 🗌 400 (<0	0.25%) 🔲 1000 (<0.1%)	TEM % by Mass - EPA 600	D/R-93/116 Section 2.5.5.2		
NIOSH 9002	(<1%)		TEM Qualitative via Filtratio	n Prep Technique		
	thod 198.1- friable -		TEM Qualitative via Drop M			
	thod 198.6 NOB- no	· · · · · · · · · · · · · · · · · · ·	Other tests (please specify)			
	··	lite Surfacing Material	— ·			
	ard Addition Method			La la M		
Positive Stop	<u> – Clearly Identify I</u>	lomogenous Areas (HA)	Date Sampled: /	/18/24		
Sampler's Name	TRAVIS	14:54+	Sampler's Signature:			
Sample #	HA #	Sample Locati	on	Material Description		
		SFF Filori	2.4.			
<u> </u>	·	SEE Following				
		·				
_ I						
Client Sample #	(s):	· · · ·	<u></u>	tal # of Samples:		
Relinquished by	(Client):		te: 1/18/25	Time: 1500		
Received by (La		Dai	te: 1/19/21	Times 945AN FL		
BisTo: S&ME, Inc., 134 Sube	cial Instructions: wih PLM Rd., Columbia, SC, 29210, US Phone: 803-561-9024 Email, ap@smei	nc.com Purchase Order: 207163	TEM = Run TEM and	t Sume time		
			• • • • • • • • • • • • • • • • • • •	Page 1 of		
Controlled Down	ant - COC.01 Achociae Bulk -	RA - 09/10/2019	Т	960 4092 2682		

Controlled Document - COC-01 Asbestos Bulk - R4 - 09/10/2019

EMSL Analytical, Inc.'s (DBA: LA Testing) Laboratory Terms and Conditions are incorporated into this chain of custody by reference in their entirety. Submission of samples to EMSL Analytical Inc. constitutes acceptance and acknowledgment of all terms and conditions.



Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (lab use only):

409

EMSL Analytical, Inc. 10801 Southern Loop Blvd

Pineville, NC 28134 Phone (704) 525-2205 Fax (704) 525-2382

Additional pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	HA #	Sample Location	Material Description
10-1		Felt ontop of pile	Felt
2	÷.,	/	/
3	TEM	4	7
17-1		Under west Side of Bridge	Comentations pipe
2 3		/	1
3	TEM	4	4
<u>M-1</u>	-	Black Reflector mastic	Reflectorz
2		/	
3	EM	<i>V</i>	4
	· ·	-	
			· · · · · · · · · · · · · · · · · · ·
		· · · · · · · · · · · · · · · · · · ·	
			·
*Commer	ts/Special Ir	structions:	
		s tructions: rently with PLM Suber Rd., Columbia, SC, 29210, US	
		vable Phone: 803-561-9024 Email: ap@smeinc.com Purcha	se Order: 207163

Page 2 of 2 pages

Controlled Document - COC-01 Asbestos Bulk - R4 - 09/10/2019

EMSL Analytical, Inc.'s (DBA: LA Testing) Laboratory Terms and Conditions are incorporated into this chain of custody by reference in their entirety. Submission of samples to EMSL Analytical Inc. constitutes acceptance and acknowledgment of all terms and conditions.

Appendix IV – XRF Lead-Based Paint Reading Summary Table

XRF LEAD-BASED PAINT READING SUMMARY TABLE

Serial#95004PAINTProject No.: 207163Site:SC 4 Bridge over South Edisto RiverDate:January 18, 2021Ranges(NEG<INC<POS): Device PCS</td>



Reading Number	Floor/Area	Room	Feature	Substrate	Condition	Color	Result	XRF Reading (mg/cm²)
1			Shutter Calibrate					
2			Calibrate					1.00
3			Calibrate					1.10
4			Calibrate					0.90
5	Bridge	Top of bridge	Stripe	Asphalt	Non-Deteriorated	Yellow	Negative	<lod< td=""></lod<>
6	Bridge	Top of bridge	Stripe	Asphalt	Non-Deteriorated	White	Negative	<lod< td=""></lod<>
7	Bridge	Beneath bridge	Beam	Metal	Non-Deteriorated	Green	Negative	0.05
8	Bridge	Beneath bridge	Pipe	Metal	Non-Deteriorated	Green	Negative	0.05
9	Bridge	Beneath bridge	Pile	Wood	Non-Deteriorated	Green	Negative	0.05
10			Post Calibrate					0.90
11			Post Calibrate					0.90
12			Post Calibrate					1.10

Appendix V– Copy of SCDHEC Inspectors' Licenses



South Carolina Department of Health and Environmental Control

Asbestos License

Bobby J. McAllister





South Carolina Department of Health and Environmental Control

Asbestos License

Travis L. Knight

SCDHEC ISSUED Asbestos ID Card

Travis Knight



 Expiration Date:

 CONSULTPD
 PD-00166
 12/10/20

 AIRSAMPLER
 AS-00237
 01/05/21

 CONSULTBI
 BI-00885
 01/06/21

 SUPERAHERA
 SA-01266
 01/05/21

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