

Asbestos & Lead-Based Paint Assessment Carolina Crossroads 1-20/26/126 Project I-126 Westbound to I-26 Eastbound Columbia, Richland County, South Carolina S&ME Project No. 1461-16-047

PREPARED FOR

HDR Engineering Inc., of the Carolinas 4400 Leeds Avenue, Suite 450 North Charleston, SC 29405 (843) 414-3700

INSPECTION PERFORMED BY:

Travis Knight & Bobby McAllister SCDHEC Lic. BI-00885 & BI-01429 Inspection Dates: February 20 & 21, 2018

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

Report Expiration: February 2021

PREPARED BY:

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

May 23, 2018



May 23, 2018

HDR Engineering Inc., of the Carolinas 4400 Leeds Avenue, Suite 450 North Charleston, South Carolina 29405

Attention: Mr. David Kinard, PE

Reference: Asbestos & Lead-Based Paint Assessment

Carolina Crossroads I-20/26/126 Project I-126 Westbound to I-26 Eastbound Columbia, Richland County, South Carolina SPIME Project No. 1461 16, 047

S&ME Project No. 1461-16-047

Dear Mr. Kinard:

S&ME, Inc. (S&ME) is pleased to provide the enclosed report detailing our Asbestos and Lead-Based Paint Assessment of the I-126 Westbound to I-26 Eastbound in Columbia, Richland County, South Carolina (Structure No. Unknown). Our services consisted of an asbestos assessment and lead-based paint assessment. The work was performed in accordance with our subcontract modification dated January 24, 2018 to our Subconsultant Agreement dated August 17, 2016. 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 HDR Engineering Inc., of the Carolinas and 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 three years from the date of inspection (February 2021).



Carolina Crossroads I-20/26/126 Project I-126 Westbound to I-26 Eastbound

Columbia, Richland County, South Carolina S&ME Project No. 1461-16-047

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.

Bobby McAllister

Asbestos Building Inspector

(SCDHEC License No. BI-01429)

Tom Behnke, P.G., CHMM

Project Manager/Senior Reviewer

(SCDHEC License No. MP-00004)

May 23, 2018 2

Carolina Crossroads I-20/26/126 Project I-126 Westbound to I-26 Eastbound

Columbia, Richland County, South Carolina S&ME Project No. 1461-16-047



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May 23, 2018

Executive Summary

An asbestos assessment and lead-based paint assessment was conducted on February 20 & 21, 2018 of the I-126 Westbound to I-26 Eastbound (Structure No. Unknown) in Columbia, Richland 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 one-lane concrete roadway with concrete curbing resting on metal beams with a metal deck supported by concrete piers

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, expansion joint, tar material and texture coating.

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%, was **not** identified as a result of this assessment.

Lead-Based Paint

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 systems are summarized below:

Gray foot plates located underneath bridge (1.70 mg/cm2)

1.0 Introduction

S&ME was contracted to perform an asbestos and lead-based paint assessment of I-126 Westbound to I-26 Eastbound in Columbia, Richland County, South Carolina. The site location and structure are identified on **Exhibits 1-2** in **Appendix II**. The structure number of the bridge is unknown. 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 February 20 & 21, 2018.

The bridge overpass consists of a one-lane concrete roadway with concrete curbing resting on metal beams with a metal deck supported by concrete piers. The bridge is approximately 2,400 feet long and 22 feet wide. Photographs of the structure are provided in **Appendix II**.

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 asbestos-containing 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 pipe chases, voids, or in areas deemed unsafe to enter

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 expansion joint and textured coating.

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

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 February 20 & 21, 2018 included the quantification and random bulk sampling of various suspect asbestos-containing materials associated with the bridge structure. The suspect materials consisted of expansion joint and textured coating. There are no suspect drainage scuppers associated with the structure. The EPA and SCDHEC define materials as asbestos-containing if an asbestos content >1% is detected in a representative sample. In accordance with SCDHEC Regulation 61-86.1, TEM analysis was performed on one sample of each of the following non-friable, organically-bound (NOB) materials from the bridge that displayed a result of no asbestos detected via PLM analysis:

Expansion joint material

Of the representative materials sampled and analyzed during this assessment, asbestos in concentrations >1% was **not** identified.

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 Exhibits and photographs are provided in **Appendix II**. 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 of lead per square centimeter mg/cm² of painted surface for lead-based paint coated waste. SCDHEC, Health Division defines lead-based paint as a coating containing lead in quantities ≥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).

Representative covered components and surfaces were analyzed utilizing a Niton XLp-300A X-Ray Fluorescence (XRF) spectrum analyzer (serial #95004). The suspect painted finishes were selected based on the color of the topcoat and the underlying paint layers and/or the substrate on which it was applied.

3.2 Findings and Results

Coated surfaces associated with the bridge structure were tested for the presence of lead-based paint. The coated surfaces meeting or exceeding the SCDHEC limit of 0.7 milligrams of lead per square centimeter (0.7 mg/cm²) were considered lead-based paint for the purpose of this survey. The following is a summary of the identified lead-based paint systems:

• Gray foot plates located underneath bridge (1.70 mg/cm²)

The XRF summary with sample numbers, sample location, component, substrate, paint color, condition, and results are provided in **Appendix IV**.

4.0 Conclusions and Recommendations

Based on the findings of this assessment, we provide the following conclusions and recommendations:

4.1 Asbestos

No asbestos containing materials were identified on the structure. 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.

4.2 Lead-Based Paint

The gray foot plates located underneath bridge (1.70 mg/cm²) exceeded the SCDHEC 0.7 mg/cm² limit for lead-based paint. Refer to **Appendix II** for photographs of the identified lead-based paint systems.

The client is advised that OSHA does not recognize a threshold level of lead for definition purposes, only the presence or absence of lead. Consequently, the OSHA regulations governing worker protection for lead-based paint may apply to work practices including the disturbance of paint systems with detectable levels of lead. Destructive actions (sanding, burning, demolition, component removal, paint preparation) to the lead-containing paint surfaces will require the contractor comply with the standards of OSHA, including but not limited to initial exposure monitoring, the use of personal protective equipment, and medical surveillance.

SCDHEC Regulation 61-107.19 permits demolition materials painted with lead-based paint (≥ 0.7 mg/cm²) to be disposed in a permitted Class Two (C&D) or Class Three Subtitle D, Municipal Solid Waste (MSW) landfill.

Accumulations of paint waste (chips, dust, or flakes) must be tested by the Toxicity Characteristic Leaching Procedure (TCLP) to determine if the waste is classified as hazardous, which requires disposal in a Subtitle C (hazardous waste) landfill. Lead waste, at a minimum, must be disposed in a Class Two or Three landfill.

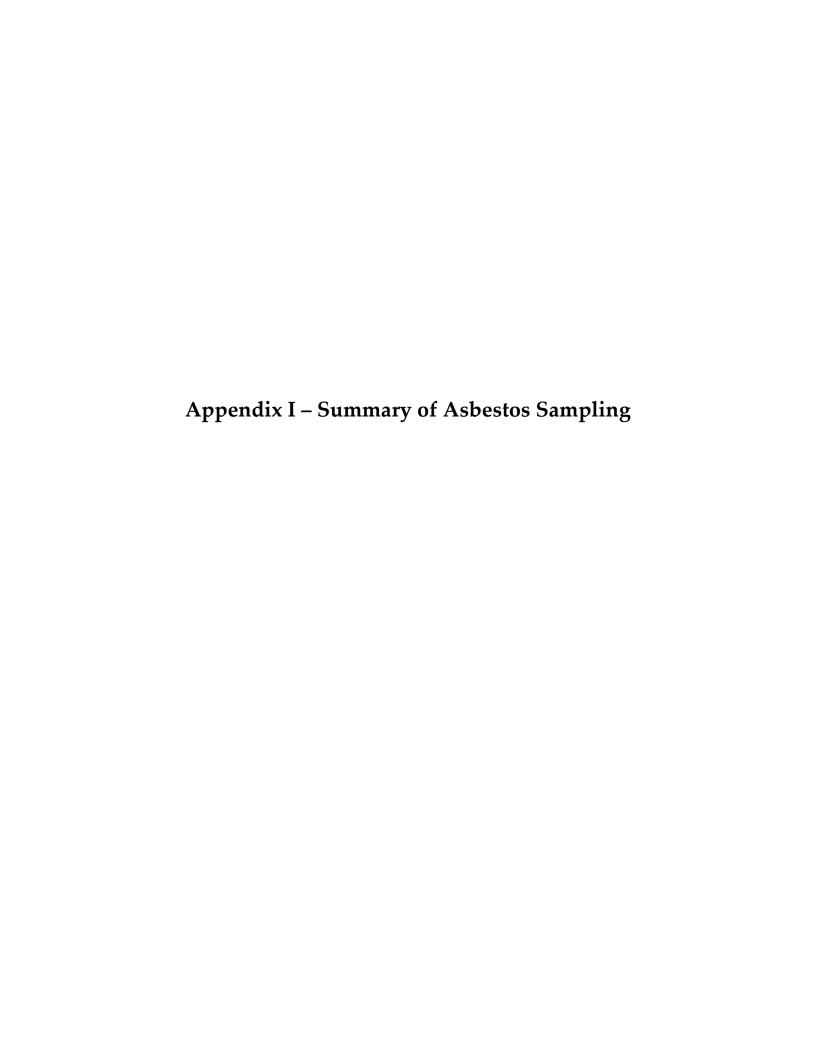
5.0 Limitations

This report is provided for the sole use of the Client. 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.

Appendices



Summary of Asbestos Sampling

Project Name:	I-126 Westbound to I-26 Eastbound	Project Number:	1461-16-047
Location:	Columbia, Richland County, South Carolina	Sampling Date(s):	February 20 & 21, 2018

Table I-I Summary of Asbestos Sampling

Sample No.	Sample Location	Material	Approx. Quantity ¹	Asbestos Type	%2	Conditio n	P.F.D. ³	H.A.4
EJ-1	Retaining wall	Expansion joint		NAD	NA	NA	NA	NA
EJ-2	Retaining wall	Expansion joint	400 SF	NAD	NA	NA	NA	NA
EJ-3 (TEM)	Retaining wall	Expansion joint	400 3F	NAD	NA	NA	NA	NA
TC-1	Retaining wall	Texture coating		NAD	NA	NA	NA	NA
TC-2	Retaining wall	Texture coating		NAD	NA	NA	NA	NA
TC-3	Retaining wall	Texture coating		NAD	NA	NA	NA	NA
TC-4	Retaining wall	Texture coating	8,500 SF	NAD	NA	NA	NA	NA
TC-5	Retaining wall	Texture coating		NAD	NA	NA	NA	NA
TC-6	Retaining wall	Texture coating		NAD	NA	NA	NA	NA
TC-7	Retaining wall	Texture coating		NAD	NA	NA	NA	NA

SF = square feet

NAD = No Asbestos Detected

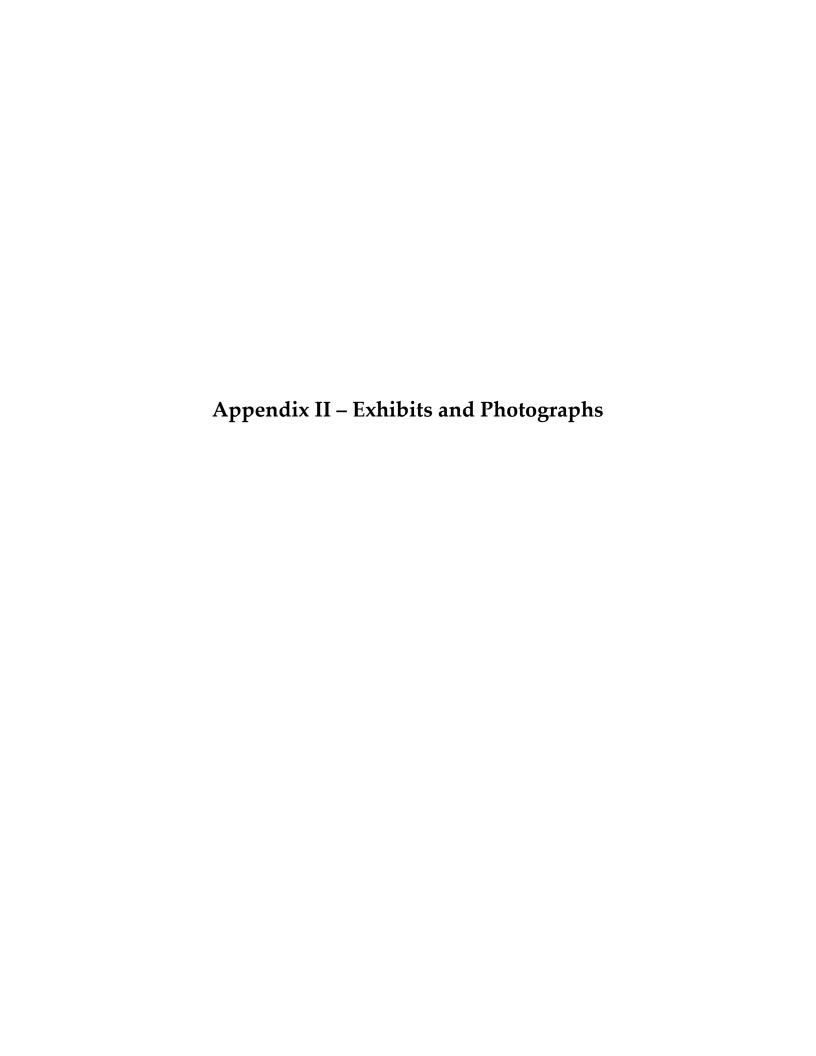
NA = Not Applicable

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

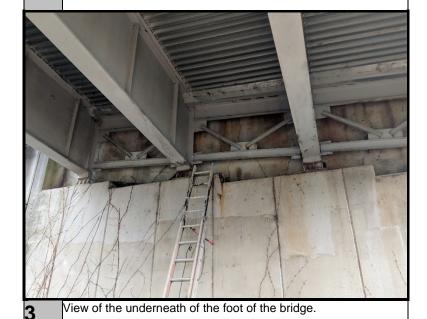
Note 4: Hazard Assessment



Drawing Path: Q:Environmental/Projects\2016\1461-16-047 Ph 3 Cooridor Improvement Project\mxds\1-126 to 1-26 EB\1-126 to 1-26 EB\1/1-126 to 1-26 EB\1/1-126 by 1-126 by 1-126



View of the I-126 Westbound bridge to I-26 Eastbound.





View of the metal deck and metal support beams.



The gray metal support plate tested positive for lead-based paint (1.70 mg/cm²).



Site Photographs
I-126 West Bound to I-26 East Bound
Structure No. Unknown
Columbia, Richland County, South Carolina

S&ME Project 1461-16-047

Taken by: B. McAllister & T. Knight

Date: February 20 & 21, 2018



The rubber blocks located on the east side of the bridge were considered non-suspect material.



The expansion joint material and textured material tested negative for asbestos.



Appendix III – Asbestos Bulk Sample Analysis Sheets and Chain of Custody Record



EMSL Order: 411801407 **Customer ID:** S&ME50 **Customer PO:** 1461-16-047 P

Project ID:

Phone: (803) 561-9024

Fax: (803) 561-9177

Received Date: 02/22/2018 9:35 AM

Analysis Date: 02/23/2018 **Collected Date**: 02/20/2018

Project: I-126 WB to I-26 EB

S&ME, Inc.

134 Suber Rd.

Columbia, SC 29210

Attention: Travis Knight

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

			Non-Asbe	estos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
EJ-1 411801407-0001	Retaining Wall - Expansion Joint Material	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
EJ-2 411801407-0002	Retaining Wall - Expansion Joint Material	Brown/Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (Other)	None Detected
TC-1 411801407-0003	Retaining Wall - Textured Coating	Gray/Blue Non-Fibrous Homogeneous		30% Quartz 8% Ca Carbonate 62% Non-fibrous (Other)	None Detected
TC-2 411801407-0004	Retaining Wall - Textured Coating	Gray/Blue Non-Fibrous Homogeneous		30% Quartz 8% Ca Carbonate 62% Non-fibrous (Other)	None Detected
TC-3	Retaining Wall - Textured Coating	Gray/Blue Non-Fibrous Homogeneous		35% Quartz 8% Ca Carbonate 57% Non-fibrous (Other)	None Detected
TC-4 411801407-0006	Retaining Wall - Textured Coating	Gray/Blue Non-Fibrous Homogeneous		30% Quartz 8% Ca Carbonate 62% Non-fibrous (Other)	None Detected
TC-5	Retaining Wall - Textured Coating	Gray/Blue Non-Fibrous Homogeneous		25% Quartz 10% Ca Carbonate 65% Non-fibrous (Other)	None Detected
TC-6 411801407-0008	Retaining Wall - Textured Coating	Gray Non-Fibrous Homogeneous		5% Quartz 10% Ca Carbonate 85% Non-fibrous (Other)	None Detected
TC-7 411801407-0009	Retaining Wall - Textured Coating	Gray Non-Fibrous Homogeneous		5% Quartz 10% Ca Carbonate 85% Non-fibrous (Other)	None Detected

Ana	lyst	(s)	

Aaron Hartley (3) Anupriya Tyagi (6) Lee Plumley, Laboratory Manager or Other Approved Signatory

Evan L Plumber

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported 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. Interpretation and use of test results are the responsibility of the client. 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. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

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

Initial report from: 02/23/2018 14:13:11



EMSL Order: 411801407 **Customer ID:** S&ME50 **Customer PO:** 1461-16-047 P

Project ID:

Phone: (803) 561-9024 Fax: (803) 561-9177

Received Date: 02/22/2018 9:35 AM

Analysis Date: 02/27/2018 **Collected Date:** 02/20/2018

Project: I-126 WB to I-26 EB

S&ME, Inc.

134 Suber Rd. Columbia, SC 29210

Attention: Travis Knight

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
EJ-3 411801407-0010	Retaining Wall - Expansion Joint Material	Black Fibrous	100	None	No Asbestos Detected
		Homogeneous			

Analyst(s)

Aaron Hartley (1)

Lee Plumley, Laboratory Manager or other approved signatory

Evan L Plumber

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 02/27/2018 12:59:41

OrderID: 411801407



Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

41180 1407

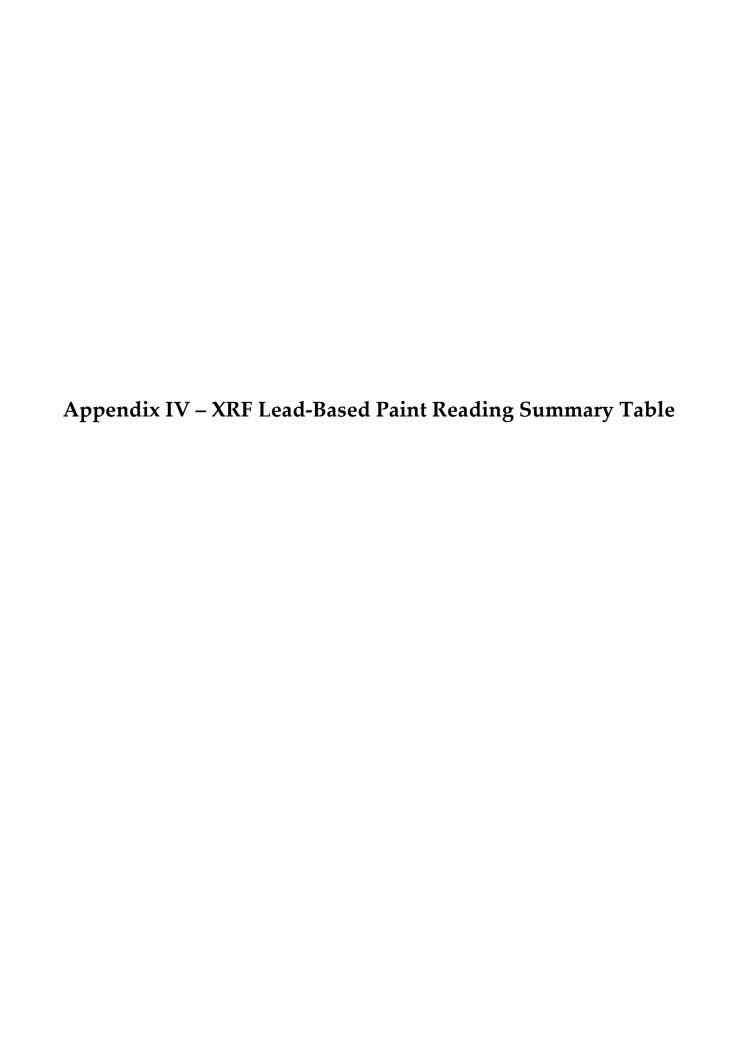
EMSL Analytical, Inc. 10801 Southern Loop Blvd

Pineville, NC 28134

PHONE: (704) 525-2205 FAX: (704) 525-2382

Company : S&ME, Inc.		EMSL-Bill to: ☑ Same ☐ Different If Bill to is Different note instructions in Comments**								
Street: 134 Suber Rd.		Third Part	Third Party Billing requires written authorization from third party							
City: Columbia	State/Province: SC	Zip/Postal Cod	e: 29210 Country: US							
Report To (Name): Travis Knight			Telephone #: 803-561-9024							
Email Address: tknight@smeinc.co	om	Fax #: 803-56	Fax #: 803-561-9177 Purchase Order: 1461-16-047 F							
Project Name/Number:	3 to I-26 €B	Please Provide								
U.S. State Samples Taken: SC			Commercial/Taxable Residential/T	ax Exempt						
☐ 3 Hour ☐ 6 Hour ☐ 2	Turnaround Time (T 24 Hour		ease Check	2 Week						
*For TEM Air 3 hr through 6 hr, please call ah	nead to schedule.*There is a p	remium charge for 3 Ho	our TEM AHERA or EPA Level II TAT. You will be a	asked to sign						
		dance with EMSL's Ter	ms and Conditions located in the Analytical Price G	uide.						
PLM - Bulk (reporting	g limit)	=	TEM – Bulk							
■ PLM EPA 600/R-93/116 (<1%)			3 – EPA 600/R-93/116 Section 2.5.5.1							
☐ PLM EPA NOB (<1%)		NY ELAP Meth								
Point Count 400 (<0.25%) 1000			col (semi-quantitative)							
Point Count w/Gravimetric 400 (<0.	.25%) 🗌 1000 (<0.1%)		ss – EPA 600/R-93/116 Section 2.5.5.2							
■ NIOSH 9002 (<1%)			e via Filtration Prep Technique							
☐ NY ELAP Method 198.1 (friable in	,	☐ TEM Qualitativ	e via Drop Mount Prep Technique							
NY ELAP Method 198.6 NOB (non	n-friable-NY)		<u>Other</u>							
OSHA ID-191 Modified										
Standard Addition Method										
☐ Check For Positive Stop – Clearly		Group Date Sar	mpled: 2/20/18/2/21/18							
samplers Name: Travis Knigh	nt	Samplers Si	gnature:							
Sample # HA #	Sample Location		Material Description							
The Alleran			*							
Ploa	se See Attached	COC								
Flea	ise see Allacrieu	000								
5										
Client Sample # (s):	-		Total # of Samples:							
Relinquished (Client):	Tat Dar	te: 2/2//18	Time: /600)						
Received (Lab): Kule Num		-11	Time: 9:35/	,						
A	Dat	te: 6/2/11X	lille. L.J.							
Comments/Special Instructions: NOB = 2 PLMs and 1 TEM if both PLMs are negative.	Da	te: 2122118	7954 3428 9410	111						

	00 () () () () () () () () () () () () ()			COMMENTS / SPECIAL INSTRUCTIONS		(NO 3		224.														
				QUANTITY																		
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	73		SIGNATURE:		Retining 6	, ,	7	120 4. in ing La					/	1								
BULK SAMPLE Chain of Custody Record	PROJECT NAME: \[\int -126 43 \to \int -26 \int \inf \]		DATE TAKEN , 2/21/18		(Flancion Sint on terie)		7	Textured Cocting		<u></u>)	1								
JLK SAMPLE	JECT NO.	FACILITY	SAMPLER(S)	SAMPLE # HA	1-63	2	5	1.24	١	n	6	٠,	3	2								



XRF LEAD-BASED PAINT READING SUMMARY TABLE

Serial #95004

PAINT

Project No.: 1461-16-047

Site: I-126 Westbound over I-26 Eastbound

Date: February 20, 2018

Ranges (NEG<INC<POS): Device PCS



Reading Number	Floor/Area	Room	Feature	Substrate	Condition	Color	Result	XRF Reading (mg/cm²)
124	Bridge		I-Beam	Metal	Poor	Gray	Negative	0.25
125	Bridge		Plate	Metal	Poor	Gray	Positive	1.70
126	Bridge		Small I-Beam	Metal	Poor	Gray	Negative	0.17
127			Post Calibrate					1.00
128			Post Calibrate					1.10
129			Post Calibrate					1.00

Append	ix V – Copy of SDI	HEC Inspectors' L	icenses



South Carolina Department of Health and Environmental Control

Asbestos License

Bobby J. McAllister

SCDHEC ISSUED

Asbestos ID Card

Bobby Mcallister



CONSULTBI BI-01429
AIRSAMPLER AS-00450
SUPERAHERA SA-02404

Expiration Date: 04/24/19 01/08/19 01/08/19



South Carolina Department of Health and Environmental Control

Asbestos License

Travis L. Knight

SCDHEC ISSUED

Asbestos ID Card

Travis Knight



CONSULTPD PD-00166 11/09/18 SUPERAHERA SA-01266 01/08/19 CONSULTBI BI-00885 01/09/19 AIRSAMPLER AS-00237 01/08/19

Expiration Date: