

I-95 Northbound Bridge Over I-26  
Orangeburg County, South Carolina

Asbestos and Lead-Based Paint  
Survey Report

Structure # 381009510100  
ARM Project #16-318-22

October 14, 2022

Prepared For:

Civil Engineering Consulting Services, Inc.  
2000 Park Street, Suite 201  
Columbia, South Carolina, 29201

☒ Yes, Asbestos was found  
☒ No, Asbestos was not found  
☒ Yes, Lead-Based Paint was found  
☐ No, Lead-Based Paint was not found

Report Compiled By:

*Robbie Robertson*

Robbie Robertson  
ASBESTOS CONSULTANT/  
BUILDING INSPECTOR  
SCDHEC LICENSE #BI-01179

Report Reviewed By:

*Sid Havird*

Sid Havird  
ASBESTOS CONSULTANT/  
BUILDING INSPECTOR  
SCDHEC LICENSE #BI-00258



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## **ASBESTOS AND LEAD-BASED PAINT SURVEY**

On September 15, 2022, ARM Environmental Services, Inc. performed an asbestos and lead-based paint survey at the I-95 northbound bridge over I-26 in Orangeburg County, South Carolina. The I-95 northbound bridge is located over I-26 (eastbound and westbound lanes) as shown in Appendix A, Figure 1. The site consists of a highway bridge and can be identified by bridge structure number 381009510100. The asbestos survey has been conducted in accordance with the Asbestos Hazard Emergency Response Act (AHERA) guidelines, as required by the Environmental Protection Agency (EPA) and the South Carolina Department of Health and Environmental Control (DHEC) prior to renovation or demolition of public or commercial structures. The lead-based paint survey was performed to identify lead-based paint (LBP) on the bridge.

## **BRIDGE MATERIALS**

No construction records were available to determine the building materials used in construction of the structure. All accessible structural components including columns, piers, pier caps, bridge decks, beams, bridge shoes, end bents, railings and buffer materials were examined. Photographs of the site are shown in Appendix E.

The bridge deck of the structure consists of pre-cast concrete deck sections supported by concrete pier caps. The concrete pier caps, which run perpendicular to the bridge deck, are supported by concrete piers. Concrete and galvanized metal guardrails are located on the bridge structure. The bridge structure is estimated to be 315 feet long and 45 feet wide.

## **ASBESTOS SURVEY**

Samples of the suspect materials were collected and submitted for laboratory analysis for Polarized Light Microscopy (PLM). One sample of each material was also collected for transmission electron microscopy (TEM) confirmation analysis in the event that the PLM analysis indicated less than 1 percent asbestos. The sample locations are shown in Appendix A, Figure 2. The results of the laboratory analysis are presented in Table 1 on the following page.

**Table 1: Asbestos Sample Analytical Data**

Sample Number	Material Description	Material Locations	Friable / Non-friable	Material Condition	Analytical Results*	Approx. Quantity
01-NB, 02-NB, 03-NB	Buffer Material at Steel Bridge Shoes	Between Concrete Pier Caps & Steel Bridge Shoes	Non-friable	Good	No Asbestos Detected	100 Square Feet
04-NB, 05-NB, 06-NB	Expansion Joint	Between Concrete Deck Sections	Non-friable	Good	No Asbestos Detected	225 Linear Feet

**Asbestos Content:** USEPA and SCDHEC regulations (No. 61-86.1) define asbestos containing material as any material greater than one percent asbestos. OSHA recommends that a negative exposure assessment (NEA) be conducted to establish appropriate personal protection equipment needed (if any) for all persons that might disturb asbestos materials.

**Friable:** Describes a material which, when dry, can be crumbled, pulverized, or reduced to powder with hand pressure.

The laboratory results are included in Appendix C of this report.

## **ASBESTOS CONCLUSIONS / RECOMMENDATIONS**

An asbestos inspection was performed for a structure, the I-95 northbound bridge over I-26 in Orangeburg County, South Carolina. **The results of the asbestos survey indicate that none of the sampled materials contain asbestos.**

The results of this asbestos survey are limited to the sampled materials, which are considered to be representative of the homogeneous areas from which the samples were collected. **In the event that any suspect asbestos containing materials that were not addressed in this survey are encountered, the materials should be presumed to contain asbestos until laboratory analysis can be conducted.**

## **LEAD-BASED PAINT SURVEY**

ARM personnel conducted a lead-based paint survey of accessible painted bridge materials at the I-95 northbound bridge on September 15, 2022. The LBP inspection was conducted using a Niton XLp-300A X-ray Fluorescence (XRF) Analyzer (Serial #110851) to measure the lead content of surface coatings on representative bridge building components. A homogenous bridge building component is a building material that is uniform in color, texture, and appears identical in every respect. EPA guidelines define lead-based paint as any paint

with equal to or greater than 1.0 milligram of lead per square centimeter of painted surface (mg/cm<sup>2</sup>) when measured by X-ray Fluorescence. SCDHEC, Health Division defines lead-based paint as a coating containing lead in quantities  $\geq 0.7$  mg/cm<sup>2</sup> (SCDHEC, Health Division definition #4-53-1320f). Any coated surfaces meeting or exceeding the SCDHEC limit of 0.7 mg/cm<sup>2</sup> were considered lead-based paint for the purpose of this assessment since the structure may be slated for renovation or demolition. All waste debris coated with lead-based paint equal to or greater than 0.7mg/cm<sup>2</sup> must be disposed of in an approved Class II (C&D) or Class III (MSWLF) landfill or approved metal recycler.

The bridge structure is primarily composed of steel and concrete components, with the steel painted gray or white. It appears that this bridge may have been reconditioned at some point and repainted. **While the majority of XRF readings were negative for lead-based paint, there were two readings taken from a steel beam flange on the west underside where lead-paint was detected.** It's likely that this is a small area of remnant paint (approximately 3 square feet) that was missed following the abrasive blasting and repainting of the bridge. The materials sampled for lead-based paint included the steel beams, steel cross bracing, and steel bridge shoes. Results of the XRF analyses are summarized in Table 2 below.

**Table 2: Bridge Building Material XRF Summary**

Sample Number	Material Description	Material Location	Color	Material Condition	LEAD Content mg/cm <sup>2</sup>
Reading 28 & 34	Steel Beams	At Bridge West Underside	White	Peeling	1.30 & 4.00
Reading 29-33	Steel Beams	At Bridge Underside	White	Peeling	Negative
Reading 35-38	Steel Beams	At Bridge Underside	White	Peeling	Negative
Reading 39-47	Cross Bracing	At Bridge Underside	Gray	Peeling	Negative
Reading 48-53	Bridge Shoes	At Bridge Underside	Gray	Intact	Negative
Reading 54-59	Steel Beams	At Bridge Underside	White	Intact	Negative

**Lead Content:** EPA guidelines define lead-based paint as any paint with equal to or greater than 1.0 milligram of lead per square centimeter of painted surface (mg/cm<sup>2</sup>) when measured by X-ray Fluorescence. DHEC guidelines define lead-based paint as any paint with equal to or greater than 0.7 mg/cm<sup>2</sup> when measured by X-ray Fluorescence. The OSHA Lead in Construction Standard, 29 CFR 1926.62 is applied if any lead is present in the sample.

The XRF data results are presented in Appendix D. Photographs of the site are located in Appendix E.

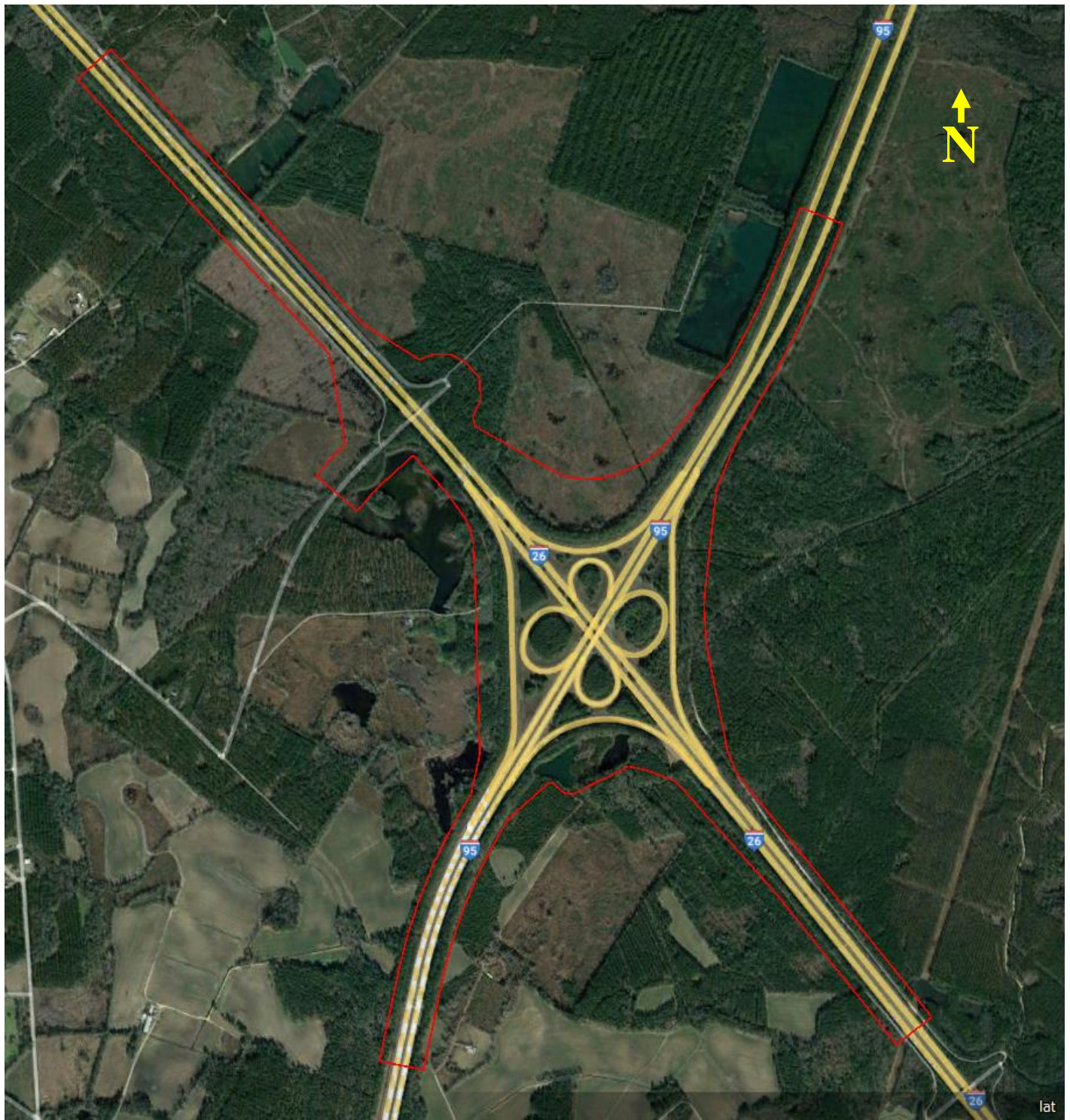
## **LEAD-BASED PAINT CONCLUSIONS / RECOMMENDATIONS**

A lead-based paint survey was performed for the I-95 northbound bridge over I-26 in Orangeburg County, South Carolina. **The results of the XRF analyses indicate that readings 28 and 34 (white steel beam flange at bridge's west underside) were positive for lead-based paint.** However, it is likely that the lead-based paint area is a small area (approximately 3 square feet) that was missed during abrasive blasting and repainting of the bridge structure. All other steel bridge components were found not to be coated with lead-based paint. In the event that any suspect painted materials not addressed in this survey are encountered, the materials should be presumed to be coated with lead paint until XRF or laboratory analysis can be conducted.

## **APPENDIX A**

### **Figures**





**Project**

Asbestos & Lead-Based Paint Survey  
I-95 Northbound Bridge Over I-26  
Orangeburg County, South Carolina

**Figure 1**

Site Plan

**Scale**

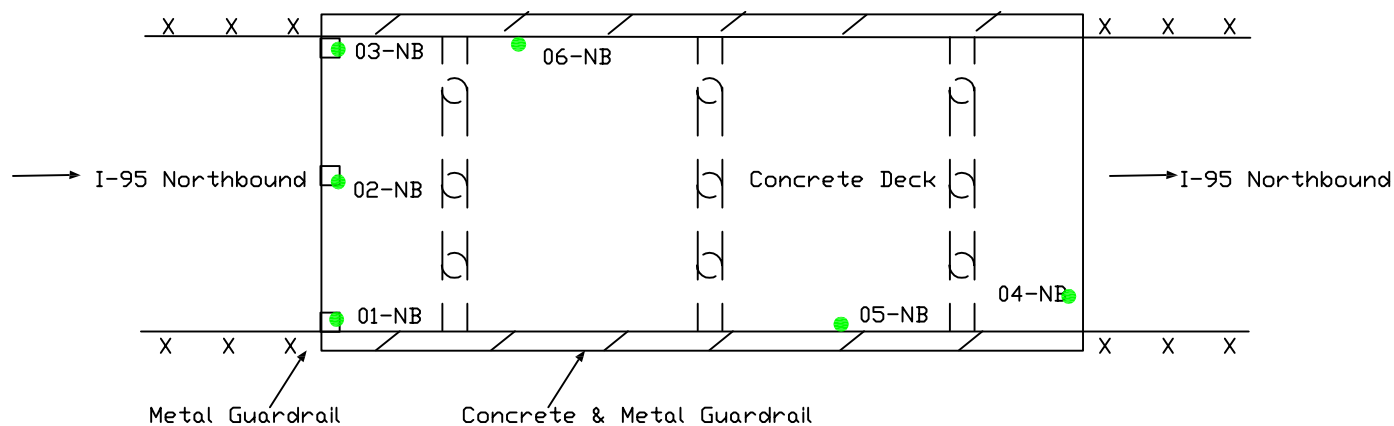
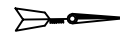
No Scale

**Date**

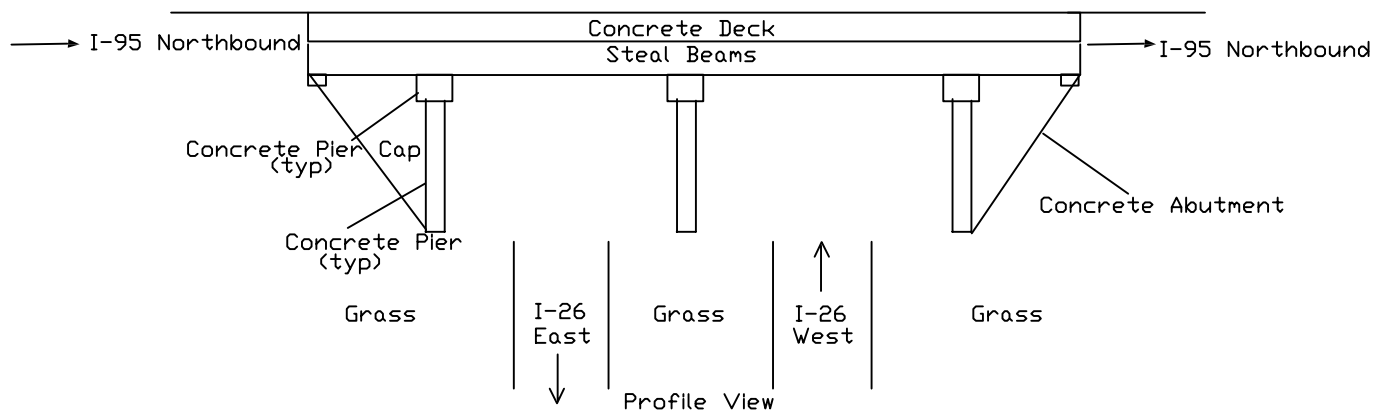
October 2022

**ARM** ENVIRONMENTAL  
SERVICES, INC.





Plan View



Profile View

*PROJECT:*

Asbestos & Lead Based Paint Survey  
I-95 Northbound  
Bridge over I-26  
Orangeburg County, South Carolina  
ARM Project # 16-318-22

*DESCRIPTION:*

Site Plan Showing  
Sample Locations

(Map Not To Scale)

**FIGURE 2**

*DATE:*

October 2022

**ARM** ENVIRONMENTAL  
SERVICES, INC.

*REFERENCE:*

Field Notes

*LEGEND:*

Negative  
Asbestos Sample = ●  
Positive  
Asbestos Sample = ▲

## **APPENDIX B**

### **Licenses / Certifications**

# SCDHEC ISSUED

Asbestos ID Card

Robbie Robertson



CONSULTBI  
SUPERAHERA

BI-01179  
SA-01861

Expiration Date:  
10/19/22  
10/18/22

# ABS

## ENVIRONMENTAL

1416 Chapin Road, Chapin, South Carolina 29036 803-345-3833

## Robbie Robertson

SSN xxx-xx-3715

This is to certify that the above named student has completed the requisite training for asbestos accreditation under TSCA Title II and has met the requirements of and passed the examination for an EPA approved:

## AHERA Asbestos Inspector Refresher

Course Location: Chapin SC

Certificate Number: 20211020Ab301-03

Start Date October 20, 2021

End Date October 20, 2021

Exam Date: October 20, 2021

Expiration Date October 19, 2022

Principal Instructor / Training Administrator - Lee Capell

10/20/2021

Date



# ABS ENVIRONMENTAL

1416 Chapin Road, Chapin, South Carolina 29036 803-345-3833

Sid Havird

SSN xxx-xx-4506

This is to certify that the above named student has completed the requisite training for asbestos accreditation under TSCA Title II and has met the requirements of and passed the examination for an EPA approved:

## AHERA Asbestos Inspector Refresher

Course Location: Chapin SC

Certificate Number: 20211020Ab301-02

Start Date October 20, 2021

End Date October 20, 2021

Exam Date: October 20, 2021

Expiration Date October 19, 2022



Principal Instructor / Training Administrator - Lee Capell

10/20/2021

Date

SCDHEC ISSUED

Asbestos ID Card

Cyril O Havird Jr



CONSULTBI  
SUPERAHERA

BI-00258  
SA-02162

Expiration Date:  
10/19/22  
10/18/22

## **APPENDIX C**

### **Lab Results**





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**LEGEND:**      Non-Anth      = Non-Asbestiform Anthophyllite  
                 Non-Trem      = Non-Asbestiform Tremolite  
                 Calc Carb      = Calcium Carbonate

---

**METHOD:** EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

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**REPORTING LIMIT:** <1% by visual estimation

---

**REPORTING LIMIT FOR POINT COUNTS:** 0.25% by 400 Points or 0.1% by 1,000 Points

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**REGULATORY LIMIT:** >1% by weight

---

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

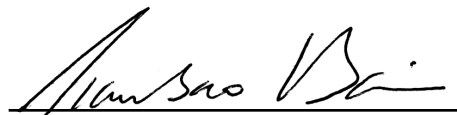
This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

ANALYST:

  
Shilpa Ladekar

APPROVED BY:

  
Tianbao Bai, Ph.D., CIH  
Laboratory Director

September 22, 2022

ARM Environmental Services  
1210 1st Street South Ext.  
Columbia, SC 29209

**CLIENT PROJECT:** I-95 NB Bridge Over I-26, Orangeburg County.  
**LAB CODE:** T222495

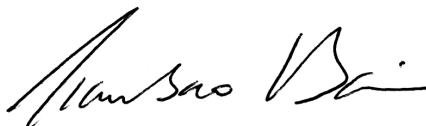
Dear Customer:

Enclosed are asbestos analysis results for TEM bulk samples received at our laboratory on September 21, 2022. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per Chatfield/EPA 600/R-93/116 Sec. 2.5.5.1 method.

Sample results containing > 1% asbestos are considered asbestos-containing materials (ACMs) per the EPA regulatory requirements. The detection limit for the TEM Chatfield/EPA 600/R-93/116 Sec. 2.5.5.1 method is <1% depending on the processed weight and constituents of the sample.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,



Tianbao Bai, Ph.D., CIH  
Laboratory Director

---

# **ASBESTOS ANALYTICAL REPORT**

## **By: Transmission Electron Microscopy**

Prepared for

**ARM Environmental Services**

---

CLIENT PROJECT: I-95 NB Bridge Over I-26, Orangeburg County.

LAB CODE: T222495

TEST METHOD: Bulk Chatfield  
EPA 600 / R93 / 116 Sec. 2.5.5.1

REPORT DATE: 09/22/22

# ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

**Client:** ARM Environmental Services  
1210 1st Street South Ext.  
Columbia, SC 29209

**Lab Code:** T222495  
**Date Received:** 09-21-22  
**Date Analyzed:** 09-22-22  
**Date Reported:** 09-22-22

**Project:** I-95 NB Bridge Over I-26, Orangeburg County.

## TEM BULK CHATFIELD / EPA 600 / R93 / 116 Sec. 2.5.5.1

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
01-NB T48645	Gray-silver Buffer Material (Coating)	0.0479	26.9	31.3	41.8	None Detected
01-NB T48646	Buffer Material	0.1832	65.1	33.3	1.6	None Detected
02-NB T48647	Gray-silver Buffer Material (Coating)	0.0407	21.4	29.5	49.1	None Detected
02-NB T48648	Buffer Material	0.245	67.8	31	1.2	None Detected
03-NB T48649	Gray-silver Buffer Material (Coating)	0.0431	42	30.2	27.8	None Detected
03-NB T48650	Buffer Material	0.2045	67.2	31.8	1	None Detected
04-NB T48651	Light Gray Expansion Material	0.3531	14.5	64.9	20.6	None Detected
05-NB T48652	Light Gray Expansion Material	0.4257	16.6	63.4	20	None Detected
06-NB T48653	Dark Gray Expansion Material	0.4325	24.4	59.9	15.7	None Detected

---

**LEGEND:** None

---

**METHOD:** CHATFIELD & EPA/600/R-93/116 Sec. 2.5.5.1

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**LIMIT OF DETECTION:** Varies with the weight and constituents of the sample (<1%)

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**REGULATORY LIMIT:** >1% by weight

---

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. *Estimated measurement of uncertainty is available on request.* Samples were received in acceptable condition unless otherwise noted.

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

Eurofins CEI recommends between 0.500 and 0.200 grams of sample material. *Any weight below 0.100 grams is considered below protocol guidelines.*

**ANALYST:** Brunilda Gjoka  
Brunilda Gjoka

**APPROVED BY:** Tianbao Bai  
Tianbao Bai, Ph.D., CIH  
Laboratory Director



CEI

730 SE Maynard Road, Cary, NC 27511

Tel: 866-481-1412; Fax: 919-481-1442

**ASBESTOS  
CHAIN OF CUSTODY**

LAB USE ONLY:

CEI Lab Code: B2212173 / T222495

CEI Lab I.D Range:

Company Information		Project Information	
CEI Client #		Job Contact: Sid Havird, Robbie Robertson	
Company: ARM Environmental Services		Email: shavird@armenv.com, rrobertson@armenv.com csmith@armenv.com	
Address: 1210 First Street South Extension Columbia, SC 29209		Project Name: I-95 NB Bridge over I-26, Orangeburg County.	
Email: armenv.com		Project ID#:	
Tel: 803-783-3314	Fax: 803-783-2587	PO #:	
		State Samples Collected In: SC	

IF TAT IS NOT MARKED, STANDARD 3 DAY TAT APPLIES

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600			X			
TEM BULK	CHATFIELD			X			

Remarks/Special Instructions: Use positive stop. Run PLM first &amp; if less than 1% run TEM confirmation on all NOB materials.

# Only run TEM if makeup of material requires it.

Positive Stop Needed: Yes / No

Date Sample: 9-15-22



Accept Samples



Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
Robbie Robertson	9-15-22	<i>[Signature]</i>	9-20-22 9:50

Samples will be disposed of 30 days after analysis

SAMPLE ID#	DESCRIPTION	LOCATION	TEST	
			PLM	TEM
01-NB	Buffer Material at bridge boots	I-95 SB Bridge over I-26	X	X
02-NB	Buffer Material at bridge boots	I-95 SB Bridge over I-26	X	X
03-NB	Buffer Material at bridge boots	I-95 SB Bridge over I-26	X	X
04-NB	Expansion Joint material	I-95 SB Bridge over I-26	X	X
05-NB	Expansion Joint material	I-95 SB Bridge over I-26	X	X
06-NB	Expansion Joint material	I-95 SB Bridge over I-26	X	X



## **APPENDIX D**

### **XRF Data**

Index	Time	Type	Sequence	Component	Substrate	Side	Condition	Color	Site	Room	Results	PbC
25	2022-09-15 09:21	PAINT	Final			CALIBRATE					Positive	1.10 ± 0.40
26	2022-09-15 09:22	PAINT	Final			CALIBRATE					Positive	0.90 ± 0.10
27	2022-09-15 09:22	PAINT	Final			CALIBRATE					Positive	1.00 ± 0.30
28	2022-09-15 09:25	PAINT	Final	beam	steel	LEFT	PEELING	WHITE	NB 195 Bridge over I26	OUTSIDE	Positive	4.00 ± 2.40
29	2022-09-15 09:27	PAINT	Final	beam	steel	LEFT	PEELING	WHITE	NB 195 Bridge over I26	OUTSIDE	Negative	-0.19 ± 0.88
30	2022-09-15 09:28	PAINT	Final	beam	steel	LEFT	PEELING	WHITE	NB 195 Bridge over I26	OUTSIDE	Null	0.50 ± 0.20
31	2022-09-15 09:28	PAINT	Final	beam	steel	LEFT	PEELING	WHITE	NB 195 Bridge over I26	OUTSIDE	Null	0.04 ± 0.03
32	2022-09-15 09:29	PAINT	Final	beam	steel	LEFT	PEELING	WHITE	NB 195 Bridge over I26	OUTSIDE	Negative	0.01 ± 0.02
33	2022-09-15 09:29	PAINT	Final	beam	steel	LEFT	PEELING	WHITE	NB 195 Bridge over I26	OUTSIDE	Null	0.60 ± 0.20
34	2022-09-15 09:30	PAINT	Final	beam	steel	LEFT	PEELING	WHITE	NB 195 Bridge over I26	OUTSIDE	Positive	1.30 ± 0.40
35	2022-09-15 09:31	PAINT	Final	beam	steel	LEFT	PEELING	WHITE	NB 195 Bridge over I26	OUTSIDE	Negative	0.04 ± 0.03
36	2022-09-15 09:32	PAINT	Final	beam	steel	LEFT	PEELING	WHITE	NB 195 Bridge over I26	OUTSIDE	Null	0.11 ± 0.06
37	2022-09-15 09:33	PAINT	Final	beam	steel	LEFT	PEELING	WHITE	NB 195 Bridge over I26	OUTSIDE	Negative	0.30 ± 0.19
38	2022-09-15 09:34	PAINT	Final	beam	steel	LEFT	PEELING	WHITE	NB 195 Bridge over I26	OUTSIDE	Negative	0.00 ± 0.02
39	2022-09-15 09:35	PAINT	Final	cross bracing	steel	LEFT	PEELING	gray	NB 195 Bridge over I26	OUTSIDE	Negative	0.02 ± 0.07
40	2022-09-15 09:35	PAINT	Final	cross bracing	steel	LEFT	PEELING	gray	NB 195 Bridge over I26	OUTSIDE	Negative	0.02 ± 0.08
41	2022-09-15 09:36	PAINT	Final	cross bracing	steel	LEFT	PEELING	gray	NB 195 Bridge over I26	OUTSIDE	Negative	-0.79 ± 1.48
42	2022-09-15 09:37	PAINT	Final	cross bracing	steel	LEFT	PEELING	gray	NB 195 Bridge over I26	OUTSIDE	Null	0.02 ± 0.07
43	2022-09-15 09:37	PAINT	Final	cross bracing	steel	LEFT	PEELING	gray	NB 195 Bridge over I26	OUTSIDE	Null	0.01 ± 0.08
44	2022-09-15 09:38	PAINT	Final	cross bracing	steel	LEFT	PEELING	gray	NB 195 Bridge over I26	OUTSIDE	Null	0.00 ± 0.03
45	2022-09-15 09:38	PAINT	Final	cross bracing	steel	LEFT	PEELING	gray	NB 195 Bridge over I26	OUTSIDE	Null	0.02 ± 0.05
46	2022-09-15 09:38	PAINT	Final	cross bracing	steel	LEFT	PEELING	gray	NB 195 Bridge over I26	OUTSIDE	Null	0.00 ± 0.03
47	2022-09-15 09:39	PAINT	Final	cross bracing	steel	LEFT	PEELING	gray	NB 195 Bridge over I26	OUTSIDE	Negative	0.00 ± 0.02
48	2022-09-15 09:41	PAINT	Final	bridge shoes	steel	RIGHT	INTACT	gray	NB 195 Bridge over I26	OUTSIDE	Negative	0.16 ± 0.06
49	2022-09-15 09:41	PAINT	Final	bridge shoes	steel	RIGHT	INTACT	gray	NB 195 Bridge over I26	OUTSIDE	Negative	0.01 ± 0.02
50	2022-09-15 09:42	PAINT	Final	bridge shoes	steel	RIGHT	INTACT	gray	NB 195 Bridge over I26	OUTSIDE	Null	0.26 ± 1.02
51	2022-09-15 09:42	PAINT	Final	bridge shoes	steel	RIGHT	INTACT	gray	NB 195 Bridge over I26	OUTSIDE	Negative	0.09 ± 0.10
52	2022-09-15 09:43	PAINT	Final	bridge shoes	steel	RIGHT	INTACT	gray	NB 195 Bridge over I26	OUTSIDE	Null	0.12 ± 0.06
53	2022-09-15 09:43	PAINT	Final	bridge shoes	steel	RIGHT	INTACT	gray	NB 195 Bridge over I26	OUTSIDE	Negative	0.04 ± 0.02
54	2022-09-15 09:44	PAINT	Final	beam	steel	RIGHT	INTACT	WHITE	NB 195 Bridge over I26	OUTSIDE	Negative	0.02 ± 0.03
55	2022-09-15 09:45	PAINT	Final	beam	steel	RIGHT	INTACT	WHITE	NB 195 Bridge over I26	OUTSIDE	Negative	0.03 ± 0.03
56	2022-09-15 09:46	PAINT	Final	beam	steel	RIGHT	INTACT	WHITE	NB 195 Bridge over I26	OUTSIDE	Negative	0.03 ± 0.04

Index	Time	Type	Sequence	Component	Substrate	Side	Condition	Color	Site	Room	Results	PbC
57	2022-09-15 09:46	PAINT	Final	beam	steel	RIGHT	INTACT	WHITE	NB I95 Bridge over I26	OUTSIDE	Negative	0.20 ± 0.44
58	2022-09-15 09:46	PAINT	Final	beam	steel	RIGHT	INTACT	WHITE	NB I95 Bridge over I26	OUTSIDE	Negative	0.04 ± 0.07
59	2022-09-15 09:49	PAINT	Final	beam	steel	RIGHT	INTACT	WHITE	NB I95 Bridge over I26	OUTSIDE	Negative	0.03 ± 0.02
60	2022-09-15 09:52	PAINT	Final			CALIBRATE					Positive	1.00 ± 0.30
61	2022-09-15 09:53	PAINT	Final			CALIBRATE					Positive	1.30 ± 0.50
62	2022-09-15 09:53	PAINT	Final			CALIBRATE					Positive	1.00 ± 0.20
63	2022-09-15 09:53	PAINT	Final			CALIBRATE					Positive	1.30 ± 0.50
64	2022-09-15 09:53	PAINT	Final			CALIBRATE					Positive	1.00 ± 0.30
65	2022-09-15 09:54	PAINT	Final			CALIBRATE					Positive	1.10 ± 0.40
66	2022-09-15 09:54	PAINT	Final			CALIBRATE					Positive	1.10 ± 0.30

## **APPENDIX E**

### **Photos**





**Photograph 1**

A view of the I-95 northbound bridge over I-26 in Orangeburg County where an Asbestos and Lead-Based Paint Survey was performed by ARM Environmental.



**Photograph 2**

A view of the underside of the I-95 northbound bridge over I-26 in Orangeburg County.



**Photograph 3**

A view from the top of the I-95 northbound bridge over I-26 in Orangeburg County where an Asbestos and Lead-Based Paint Survey was performed by ARM Environmental.



**Photograph 4**

Lead-based paint was detected in two (2) of the XRF readings at the beam flange on the west underside of the I-95 northbound bridge over I-26 in Orangeburg County.