

## ASBESTOS CONTAINING MATERIAL INVESTIGATION REPORT

S-40-757 - HARBISON BLVD. BRIDGE OVER I-26 (EAST & WEST BOUND LANES) SCDOT BRIDGE #407075700100 RICHLAND COUNTY, SOUTH CAROLINA

### **PREPARED FOR:**



Mr. David Kinard, P.E. Project Manager 3955 Faber Place Drive, Suite 300 North Charleston, South Carolina 29405

#### **PREPARED BY:**

F&ME Consultants 3112 Devine Street Columbia, South Carolina 29205

### March 13, 2018

|   | _Yes, asbestos was found.   |
|---|-----------------------------|
| × | _No, asbestos was not found |

F&ME Project No.: G5662.010

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#### 1. EXECUTIVE SUMMARY

This executive summary is intended as an overview for the convenience of the reader. This report should be reviewed in its entirety prior to making any decisions regarding this project.

F&ME Consultants Inc. (F&ME) completed an Asbestos Containing Material (ACM) Investigation on the S-40-757 (Harbison Blvd) Bridge Over I-26 in Richland County, South Carolina, for HDR, Inc (David Kinard, P.E. - Project Manager), on March 2, 2018. This investigation was also conducted pursuant to South Carolina Department of Health and Environmental Control (SCDHEC), United States Environmental Protection Agency (USEPA), National Emission Standards for Hazardous Air Pollutants (NESHAP), and Occupational Safety and Health Administration (OSHA) regulations requiring an ACM investigation prior to any demolition and/or renovation activities.

Per an agreed upon scope of work, F&ME performed this investigation to identify any ACM that might be encountered during the demolition operations, associated with the existing bridge, and make recommendations regarding proper handling and disposal of any ACM found. The investigation of the subject bridge identified three (3) suspect materials: expansion joint material, column expansion joint material and bent cap bond break pad. During the field investigation, F&ME collected samples of the suspect materials and assessed the physical condition of each material. Laboratory results indicated that **all three materials were non-ACM**. Therefore, at this time, no special handling or disposal requirements are required regarding ACM. However, during the course of demolition activities, previously concealed ACM may be discovered. If hidden suspect ACM is encountered, the affected contractor(s) must stop work, take appropriate actions, and notify the Owner/F&ME Consultants for an appropriate response action.

We appreciate the opportunity to assist you in this matter. If you have any questions or require additional information, please feel free to contact our office at (803) 254-4540.

Sincerely,

**F&ME CONSULTANTS** 

Mike Minay

Michael S. Mincey

Environmental Professional Asbestos Consultant/Management Planner SCDHEC License No: MP-00161

Expiration Date 01/29/2019

Glynn M. Ellen

Senior Environmental Professional Asbestos Consultant/Management Planner SCDHEC License No: ASB-22641 Expiration Date 01/29/2019

#### 2. INTRODUCTION

F&ME Consultants has completed an ACM investigation on the S-40-757 (Harbison Blvd) Bridge over I-26 in Richland County, South Carolina. The investigation was performed on March 2, 2018. This investigation was conducted pursuant to SCDHEC, USEPA, NESHAP, and OSHA regulations which require an ACM investigation prior to any demolition and/or renovation activities. See Appendix A – Site Vicinity Map for the location of Harbison Blvd. over I-26.

It is our understanding that the existing bridge structure is scheduled to be demolished as part of the Carolina Crossroads project. The scope of this investigation was to determine if asbestos was present on the present bridge structure by identifying and sampling suspect ACM, obtaining analytical results, quantifying any confirmed ACM, and assessing the physical condition of the ACM, where possible.

This report has been prepared exclusively for HDR, Inc. and shall not be disseminated in whole or part to other parties without prior consent from HDR, Inc. or F&ME Consultants, Inc. No other environmental issues were addressed as part of this report.

#### 3. EXISTING BRIDGE STRUCTURE

The existing bridge structure (~265.0'L x 63.0'W, inside curb to inside curb), is located on S-40-757 (Harbison Blvd) and crosses over I-26 in Richland County, South Carolina. The bridge was constructed in 1981 according to the date stamped on the bridge's concrete guardrail. The bridge is a four-lane, four (4) span bridge constructed with poured-in-place concrete bridge deck spans, concrete curb and gutters and concrete guardrails. Each span is supported by ten (10) steel beams with steel diaphragms. The bridge beams are supported by two (2) end bents and three (3) interior bents. According to the SCDOT bridge



Photo 1 – S-40-757 (Harbison Blvd) Bridge over I-26 in Richland County, SC.

drawings provided, and through onsite observations made in the field, the beam supports for both the end bents and interior bents are constructed with a concrete bent caps that are supported by five (5) concrete columns on each bent. The end bents have soil and concrete covering the piles with none of the concrete bent cap exposed. Galvanized guardrails and post are attached to the south end of the bridge, with galvanized guardrails with wooden posts on the north end. The bridge approaches on each end of the bridge consist of a four-lane asphalt paved roadway.

#### 4. FIELD ASSESSMENT

During the inspection, all bridge components (i.e. concrete bent caps, piles, and expansion joints) were visually inspected for suspect ACM. Examples of possible suspect materials include bent and pile cap felt, bond-break pads, expansion joint material, and Transite scuppers. The impact dampeners on the galvanized guard rail approaching the bridge were determined to be constructed of black rubber, and therefore, not a suspect material. The bridge deck rested directly on the pile and bent caps, with one suspect material (i.e. bond-break pads) observed/visible between them. PVC scuppers were observed on the bridge. However, bridge expansion joint material, column expansion joint material was noted during the investigation and are suspect materials. See Appendix B – Sample Location Plan, for detailed sample locations. Also, see Appendix G – Site Photographs, for more details.

#### 5. ASSESSMENT RESULTS

During the investigation, the deck expansion joint material, column expansion joint material and bent cap pad were the only suspect materials observed on the subject bridge. Three (3) random samples of each suspect material were collected for laboratory analysis, and their physical characteristics were recorded. The remaining structural materials (i.e. concrete, steel, etc.) were not considered suspect and were not sampled.

The bridge was a four (4) span concrete and steel structure, with expansion joints where the concrete deck sections meet, and where the roadway butts up to the bridge at the approaches (i.e. expansion joints on either end of the bridge).

The samples of the suspect material were analyzed by polarized light microscopy (PLM) in accordance with EPA 600/R-93/116. A "first positive stop" protocol was requested by HDR, Inc. This protocol establishes that if the first sample of a material tested positive for asbestos content, subsequent samples were not to be analyzed, and would be considered positive as well. The results of the analysis indicated none of the three suspect materials contained asbestos. Results of laboratory analysis are summarized in Appendix C – Summary of Sample Results.

Appropriate sampling and chain-of-custody protocols were followed to ensure proper handling and delivery of samples to the analytical laboratory. Appendix D and E were provided to show laboratory documentation for the analytical results. Appendix F – Personnel Certification, shows the official qualifications of the South Carolina Asbestos Inspectors.

#### 6. RECOMMENDATIONS

The results, conclusions, and recommendations of this investigation are representative of the conditions observed at the site on the date of the field inspection. F&ME does not assume responsibility for any changes in conditions or circumstances that may have occurred after this inspection.

It is our understanding that the subject structure is to be demolished as part of this project. All accessible suspect materials have been sampled and analyzed by an accredited laboratory and found to contain no ACM. Therefore, there are no foreseen special handling or disposal requirements, regarding asbestos, that will be required for the demolition of this bridge.

If any concealed and/or inaccessible ACM are encountered during the demolition activities, the affected contractor(s) must stop work, take appropriate actions, and notify the Owner/asbestos Consultant for an appropriate response action. The SCDHEC must be notified if any suspect ACM is discovered.

We sincerely appreciate the opportunity to be of service to HDR, Inc., in this matter. If you have any questions regarding the information presented herein, please contact our office at (803) 254-4540.

### **APPENDICES**

Appendix A – Site Vicinity Map

Appendix B – Sample Location Plan

Appendix C – Summary of Sample Results

Appendix D – Laboratory Analysis Reports

Appendix E – Chain of Custody Forms

Appendix F – Personnel Certifications

Appendix G – Site Photographs

## **Appendix A**

**Site Vicinity Map** 



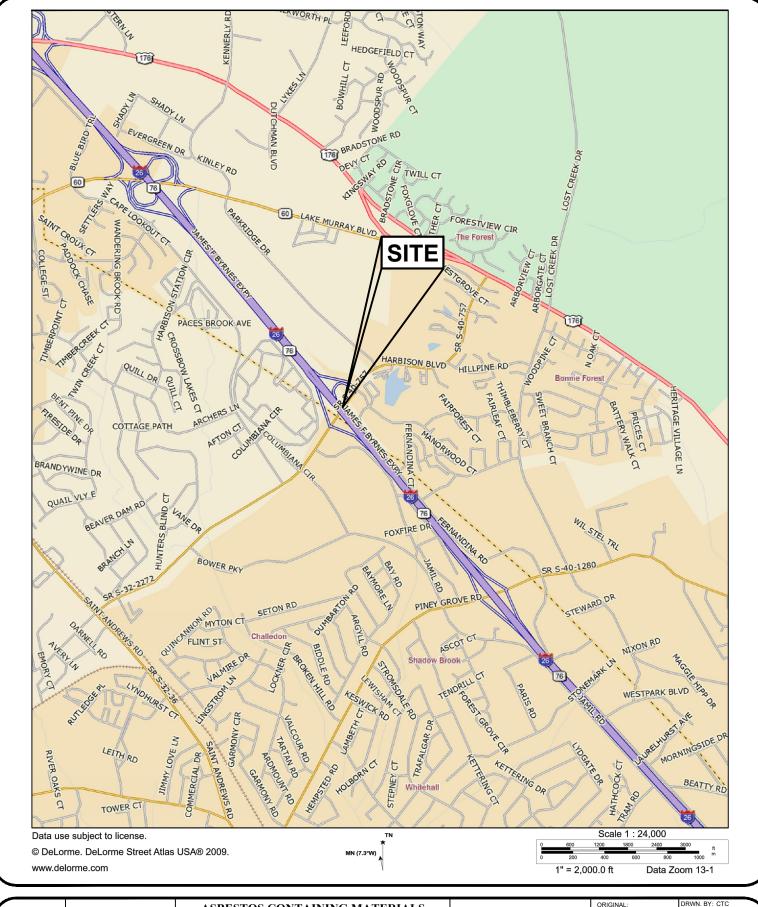


FIGURE NUMBER:

1

F&ME CONSULTANTS PROJECT NUMBER:

G5662.010

#### ASBESTOS CONTAINING MATERIALS INVESTIGATION S-40-757 (HARBISON BLVD) OVER I-26

Richland County, SC Site Vicinity Map

Prepared for: HDR, Inc. 3955 Faber Place Drive, Suite 300 North Charleston, SC 29405

## F&ME CONSULTANTS

1825 Blanding Street Columbia ,SC 29201

| ORIGINAL:      | DRWN. BY: CTC |
|----------------|---------------|
| April 10, 2018 | CHKD. BY: MSM |
| REVISIONS:     | APPR. BY: GME |
| 1              |               |
| 2              | NOTES:        |
| 3              |               |
|                |               |
| SCALE:         |               |
| AS SHOWN       |               |
|                |               |

## **Appendix B**

Sample Location Plan



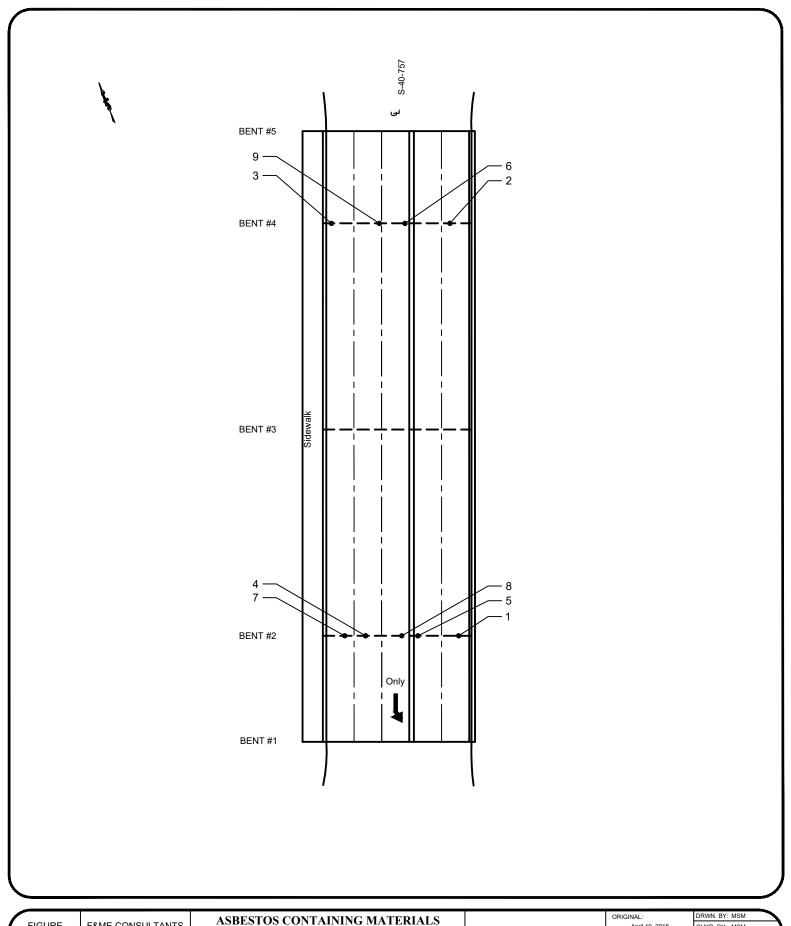


FIGURE NUMBER:

2

F&ME CONSULTANTS PROJECT NUMBER:

G5662.010

#### ASBESTOS CONTAINING MATERIALS INVESTIGATION S-40-757 (HARBISON BLVD) OVER I-26

Richland County, SC Sample Location Plan

Prepared for: HDR, Inc. 3955 Faber Place Drive, Suite 300 North Charleston, SC 29405

## F&ME CONSULTANTS

1825 Blanding Street Columbia ,SC 29201

| ORIGINAL:      | DRWN. BY: MSM |
|----------------|---------------|
| April 10, 2018 | CHKD. BY: MSM |
| REVISIONS:     | APPR. BY: GME |
| 1              |               |
| 2              | NOTES:        |
| 3              |               |
|                |               |
| SCALE:         |               |
| N.T.S.         |               |
|                |               |

## **Appendix C**

**Summary of Sample Results** 



## **Appendix C – Summary of Sampling Results**

| Sample<br>ID | Description                           | Appearance                                 | Non-Asbestos<br>% Fibrous      | Non-Asbestos %<br>Non-Fibrous | Asbestos<br>% Type |
|--------------|---------------------------------------|--|--------------------------------|-------------------------------|--------------------|
| 1            | Expansion Joint<br>Material           | Black Non- Fibrous<br>Homogeneous          | 100% Non-<br>Fibrous (Other)   | 100% Non-Fibrous<br>(Other)   | None<br>Detected   |
| 2            | Expansion Joint<br>Material           | Black Non- Fibrous<br>Homogeneous          | 100% Non-<br>Fibrous (Other)   | 100% Non-Fibrous<br>(Other)   | None<br>Detected   |
| 3            | Expansion Joint<br>Material           | Black Non- Fibrous<br>Homogeneous          | 100% Non-<br>Fibrous (Other)   | 100% Non-Fibrous<br>(Other)   | None<br>Detected   |
| 4            | Column<br>Expansion Joint<br>Material | Black/Brown Fibrous<br>Homogeneous         | 97% Cellulose<br>2% Synthetic  | 1% Non-Fibrous (Other)        | None<br>Detected   |
| 5            | Column<br>Expansion Joint<br>Material | Black/Brown Fibrous<br>Homogeneous         | 97% Cellulose<br><1% Synthetic | 3% Non-Fibrous (Other)        | None<br>Detected   |
| 6            | Column<br>Expansion Joint<br>Material | Black/Brown Fibrous<br>Heterogeneous       | 100% Matrix<br>Material        | 100% Matrix<br>Material       | None<br>Detected   |
| 7            | Bent Cap Pad                          | Black Non-Fibrous<br>Homogeneous           | 100% Non-<br>Fibrous (Other)   | 100% Non-Fibrous<br>(Other)   | None<br>Detected   |
| 8            | Bent Cap Pad                          | Brown/Black Non-<br>Fibrous<br>Homogeneous | 100% Non-<br>Fibrous (Other)   | 100% Non-Fibrous<br>(Other)   | None<br>Detected   |
| 9            | Bent Cap Pad                          | Black Non-Fibrous<br>Homogeneous           | 100% Matrix<br>Material        | 100% Matrix<br>Material       | None<br>Detected   |

## **Appendix D**

**Laboratory Analysis Reports** 





F & ME Consultants

1825 Blanding Street

Columbia, SC 29201

Attention: Glynn M. Ellen

**EMSL Order:** 021801520 **Customer ID:** FMEC62 **Customer PO:** G5662.01

Project ID:

**Phone:** (803) 254-4540

**Fax:** (803) 254-4542

Received Date: 03/05/2018 8:30 AM

**Analysis Date**: 03/07/2018 **Collected Date**: 03/02/2018

Project: ACM Inv. - I-26/ Harbison Blvd Bridge

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

|                     |   | Non-Asbestos Asbestos                 |                                |                          |               |
|---------------------|---|---------------------------------------|--------------------------------|--------------------------|---------------|
| Sample              | Description   | Appearance                            | % Fibrous                      | % Non-Fibrous            | % Type        |
| 2                   | Deck Expansion Joint<br>Material                      | Black<br>Non-Fibrous<br>Homogeneous   |                                | 100% Non-fibrous (Other) | None Detected |
| 3                   | Deck Expansion Joint<br>Material                      | Black<br>Non-Fibrous<br>Homogeneous   |                                | 100% Non-fibrous (Other) | None Detected |
| 5<br>021801520-0003 | Drilled Shaft<br>Expansion Joint<br>Material (Column) | Brown/Black<br>Fibrous<br>Homogeneous | 97% Cellulose<br>2% Synthetic  | 1% Non-fibrous (Other)   | None Detected |
| 6<br>021801520-0004 | Drilled Shaft<br>Expansion Joint<br>Material (Column) | Brown/Black<br>Fibrous<br>Homogeneous | 97% Cellulose<br><1% Synthetic | 3% Non-fibrous (Other)   | None Detected |
| 8<br>021801520-0005 | Bent Cap Break Pad                                    | Black<br>Non-Fibrous<br>Homogeneous   |                                | 100% Non-fibrous (Other) | None Detected |
| 9                   | Bent Cap Break Pad                                    | Black<br>Non-Fibrous<br>Homogeneous   |                                | 100% Non-fibrous (Other) | None Detected |

Analyst(s)

Nicole Shutts (3)

Scott Combs (3)

Stephen Bennett, Laboratory Manager or Other Approved Signatory

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. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from: 03/07/2018 15:34:57



F & ME Consultants

1825 Blanding Street

Columbia, SC 29201

Attention: Glynn M. Ellen

 EMSL Order:
 021801520

 Customer ID:
 FMEC62

 Customer PO:
 G5662.01

Project ID:

**Phone:** (803) 254-4540

Fax: (803) 254-4542

Received Date: 03/05/2018 8:30 AM

**Analysis Date:** 03/08/2018 **Collected Date:** 03/02/2018

Project: ACM Inv. - I-26/ Harbison Blvd Bridge

## 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       |
|----------------|-------------------------|---------------|-------------------|-----------------------|----------------------|
| 1              | Deck Expansion Joint    | Black         | 100               | None                  | No Asbestos Detected |
| 021801520-0007 | Material                | Non-Fibrous   |                   |                       |                      |
|                |                         | Homogeneous   |                   |                       |                      |
| 4              | Drilled Shaft Expansion | Brown/Black   | 100               | None                  | No Asbestos Detected |
| 021801520-0008 | Joint Material (Column) | Fibrous       |                   |                       |                      |
|                |                         | Heterogeneous |                   |                       |                      |
| 7              | Bent Cap Break Pad      | Black         | 100               | None                  | No Asbestos Detected |
| 021801520-0009 |                         | Non-Fibrous   |                   |                       |                      |
|                |                         | Homogeneous   |                   |                       |                      |

| Analyst(s)          |  |
|---------------------|--|
| Stephen Bennett (3) |  |

Stephen Bennett, Laboratory Manager or other approved signatory

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. Kernersville, NC

Initial report from: 03/08/2018 11:25:19

## **Appendix E**

**Chain of Custody Forms** 



OrderID: 021801520



## **Asbestos Chain of Custody**

EMSL Order Number (Lab Use Only):

EMSL ANALYTICAL, INC. 706 GRALIN ST. KERNERSVILLE, NC 27284

PHONE: (336) 992-1025 FAX: (336) 992-4175

| Company Name : F&ME Consult  | ants  | EMSL Custo   | omer ID:               |   |                      |  |
|--|---|--|------------------------|---|----------------------|--|
| Street: 3112 Devine Street   |   | City: Colum  | nbia                   | State/Province  | ce: SC               |  |
| Zip/Postal Code: 29205   | Country: USA  | Telephone #  | £: 803-254-4540        | Fax #: 803-2  | 54-4542              |  |
| Report To (Name):  |   | Please Prov  | ide Results: 🔲 Fa      | k ⊠ Email   |                      |  |
| Email Address: gellen@fmecol.o   | com, mmincey@fmecol.com   | Purchase Order: G5662.01   |                        |   |                      |  |
| Project Name/Number: ACM In  |   | EMSL Proje   | ct ID (Internal Use Or | nly):   |                      |  |
| U.S. State Samples Taken: SC   |   |  | : Commercial/Tax       |   | ential/Tax Exemp     |  |
| EM   | SL-Bill to: ⊠ Same ☐ Different ·  Third Party Billing requires write            | itten authorization  | n from third party     | ents**  |                      |  |
|  | Turnaround Time (TAT  |  |                        | 15  | 15                   |  |
|  | all ahead to schedule.*There is a premiurvice. Analysis completed in accordance |  | ur TEM AHERA or EPA L  |   |                      |  |
| PCM - Air ☐ Check if samples ar from NY  |   | The state of the s | TEM- Dust              |   |                      |  |
| □ NIOSH 7400   | ☐ AHERA 40 CFR, Part 7  | 63   | ☐ Microvac - ASTN      | 1 D 5755  |                      |  |
| w/ OSHA 8hr. TWA   | ☐ NIOSH 7402  |  | ☐ Wipe - ASTM D6       |   |                      |  |
| PLM - Bulk (reporting limit)   | ☐ EPA Level II  |  |                        |   | 3/167)               |  |
| □ PLM EPA 600/R-93/116 (<1%)   | ☐ ISO 10312   |  |                        | Carpet Sonication (EPA 600/J-93/167)  Soil/Rock/Vermiculite |                      |  |
| ☐ PLM EPA NOB (<1%)  | TEM - Bulk  |  |                        | PLM EPA 600/R-93/116 with milling prep (<1%)                |                      |  |
| Point Count  | ☑ TEM EPA NOB   |  |                        | EPA 600/R-93/116 with milling prep (<0.25%)                 |                      |  |
| □ 400 (<0.25%) □ 1000 (<0.1%)  | riable-NY)  |  |                        |   |                      |  |
| Point Count w/Gravimetric  |   | TEM Qualitative via Filtration Prep A 600 sec. 2.5 TEM Qualitative via Drop Mount Prep   |                        |   |                      |  |
| ☐ 400 (<0.25%) ☐ 1000 (<0.1%)  | ☐ TEM Mass Analysis-EPA   | 4 600 sec. 2.5   | Cincinnati Metho       |   |                      |  |
| NYS 198.1 (friable in NY)  | <u>TEM – Water:</u> EPA 100.2   |  | (BC only)              | a 2. 7. 000/11 0  |                      |  |
| NYS 198.6 NOB (non-friable-N   | Y) Fibers >10μm   | ☐ Drinking   | Other:                 |   |                      |  |
| <ul><li>☐ NYS 198.8 SOF-V</li><li>☐ NIOSH 9002 (&lt;1%)</li></ul>  | All Fiber Sizes   | Drinking   |                        |   |                      |  |
| □ Check For Positive Stop – Cle  | early Identify Homogenous Grou  | p Filter   | Pore Size (Air Samp    | les): 🔲 0.8µr   | m □ 0.45µm           |  |
| Samplers Name: Mike Mincey   |   | Samplers   | Signature: M           | le Mine   | cen                  |  |
| Sample #   | Sample Descript   | tion   |                        | e/Area (Air)<br># (Bulk)                                    | Date/Time<br>Sampled |  |
| and the same of th |   |  |                        |   |                      |  |
| *1 thru 3 Deck I   | Expansion Joint Material  |  |                        | 47 17 7 7 1   |                      |  |
| *4 thru 6 Drilled  | Shaft Expansion Joint Material  | (Column)   |                        |   |                      |  |
| *7 thru 9 Bent C   | Cap Break Pad   |  |                        |   |                      |  |
|  |   |  |                        |   |                      |  |
|  |   | OTHER STREET   |                        |   |                      |  |
| Client Semple # (a):   |   | 0  | 7-1-17                 | 4 Campulari   | 0                    |  |
|  |   | 9  | Total # c              | of Samples:   | 9                    |  |
| Client Sample # (s): 1 Relinquished (Client):  |   |  | Total # c              | of Samples:   | 9 17:00              |  |
|  | Le Muncy Date   | e: 0<br>e: 3/5/1   | 3/02/18<br>8           |   |                      |  |

Page 1 of \_\_\_\_\_ pages

## **Appendix F**

**Personnel Certifications** 



## SCDHEC ISSUED

#### Asbestos ID Card

### Michael Mincey



SUPERAHERA SA-01424 CONSULTMP AIRSAMPLER

MP-00161 AS-00272

**Expiration Date:** 01/30/19 01/29/19 01/30/19

This card is nontransferable and account invalid if loaned or given to another person for identification. This card will also be invalid if altered or defaced. This card is property of SCDHEC. It must be returned to the department if the holder's accreditation is revoked or if this card is invalidated. Any person performing regulated asbestos activities without current accreditation shall be subject to legal sanction. This card must be returned upon expiration and/or issuance of a new card.

YOU MUST HAVE THIS IDENTIFICATION CARD WITH YOU ON THE JOB.

For information of corrections contact:

SCDHEC - Asbestos Section

2600 Bull Street Columbia, SC 29201 (803) 898-4289

### SCDHEC ISSUED

Asbestos ID Card

### Glynn M Ellen



SUPERAHERA SA-00455 01/30/19 CONSULTPD PD-00098 06/09/18 CONSULTMP ASB-22641 01/29/19 AIRSAMPLER AS-00079 01/30/19

This card is nontransferable and invalid if loaned or given to another person for identification. This card will also be invalid if altered or defaced. This card is property of SCDHEC. It must be returned to the department if the holder's accreditation is revoked or if this card is invalidated. Any person performing regulated asbestos activities without current accreditation shall be subject to legal sanction. This card must be returned upon expiration and/or issuance of a new card.

YOU MUST HAVE THIS IDENTIFICATION CARD WITH YOU ON THE JOB.

For information of corrections contact:

SCDHEC – Asbestos Section 2600 Bull Street Columbia, SC 29201 (803) 898-4289

## **Appendix G**

**Site Photographs** 





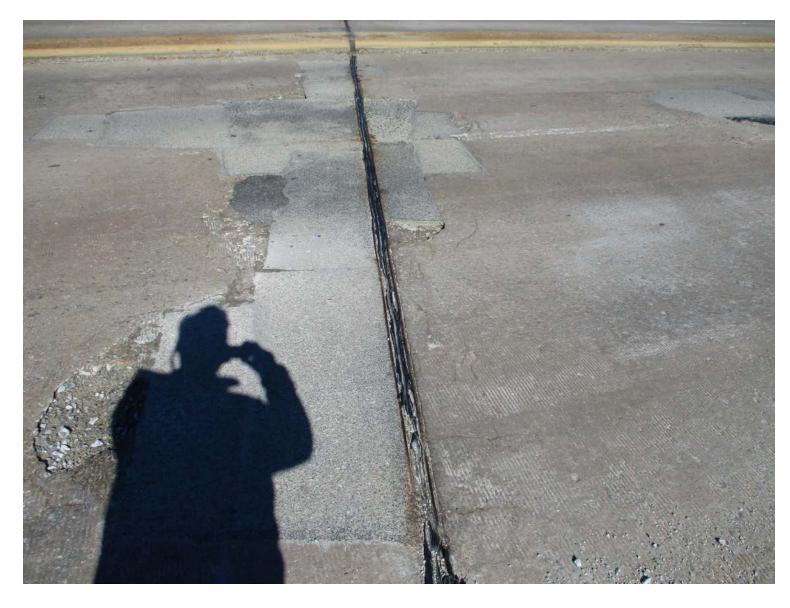
West Side View of Bridge



Top of Bridge DeckView



- Underside of Bridge View.



 Expansion Joint Material on Top of Bridge Deck.



Column Expansion
 Joint Material
 Located at the
 Interface of Concrete
 at Grade and
 Concrete Column