



July 24, 2015

South Carolina Department of Transportation
955 Park Street, Room 319
Columbia, South Carolina 29201

Attention: Trapp Harris, P.E.
HarrisMD@scdot.org

Reference: Asbestos Assessment Report
Exit 218 Spruill Avenue On and Off-ramp
Structure# 101002600992
North Charleston, South Carolina
S&ME Project No. 1413-15-075

Dear Mr. Harris:


S&ME, Inc. (S&ME) is pleased to provide the enclosed report detailing our asbestos assessment for the referenced on/off-ramp bridge, performed in general accordance with Work Order Number SME#3-18-37345 dated June 5, 2015, and Scope of Services dated May 26, 2015. The report includes the executive summary, project background, assessment procedures, findings and results, and conclusions and recommendations regarding the bridge structure as related to asbestos containing materials.


This report is provided for the use of the South Carolina Department of Transportation and their assignees. 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 and of the specific areas referenced.

We appreciate the opportunity to provide you with our industrial hygiene services. If you have any questions concerning this report, please do not hesitate to call us at (843) 884-0005.

Sincerely,

S&ME, Inc.


Terry W. Richburg
Environmental Location Coordinator



James L. Killingsworth, CHMM
Environmental Area Manager, V.P.

Attachments

ASBESTOS ASSESSMENT REPORT
EXIT 218 SPRUILL AVENUE ON AND OFF-RAMP
STRUCTURE# 101002600992
NORTH CHARLESTON, SOUTH CAROLINA
S&ME Project No. 1413-15-075

Prepared for:
South Carolina Department of Transportation
955 Park Street, Room 319
Columbia, South Carolina 29201
(803) 737-0766

Assessment Performed by:



William R. Seaborn
(SCDHEC Accreditation #BI-01317)



Date

Report Prepared by:



Terry W. Richburg
(SCDHEC Accreditation #MP-00110)



Date



620 Wando Park Boulevard
Mount Pleasant, South Carolina 29464
(843) 884-0005

July 24, 2015

	Yes, Asbestos Was Found
✓	No, Asbestos Was Not Found

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EXECUTIVE SUMMARY

An asbestos assessment was conducted on July 9, 10 and 22, 2015, of the Exit 218 Spruill Avenue on and off-ramp located in North Charleston, South Carolina (location map provided in Appendix I). The purpose of the assessment was to identify asbestos containing materials (ACMs) associated with the structure, prior to demolition activities in order to construct on and off-ramps servicing a planned roadway. The structure is labeled with an identification number assigned by the owner (101002600992).

The Exit 218 Spruill Avenue on/off-ramp #101002600992 is approximately 700 feet long and 20 feet wide. The roadway is comprised of concrete, situated on steel I-beams, on concrete bents. An asphaltic expansion joint material was located between the roadway deck sections, and no other suspect ACMs were observed between bent caps and steel I-beams. Materials associated with the ramp appeared to be homogeneous.

Suspect ACMs observed, sampled and analyzed included the referenced asphaltic expansion joint material. Based on the bulk sampling and analysis performed as part of this assessment, no ACMs were identified. The Environmental Protection Agency (EPA) and Occupational Safety and Health Administration (OSHA) defines a material asbestos containing if an asbestos content greater than one percent (>1%) is detected in a bulk sample.

If additional suspect ACMs are discovered during the planned demolition and disposal activities, bulk samples should be collected by a South Carolina Department of Health and Environmental Control (SCDHEC) licensed inspector and analyzed for asbestos content. An application for demolition, along with a copy of this report, must be submitted to SCDHEC 10 weekdays prior to demolition activities. This report should be provided to the contractor(s) to assist with compliance with applicable State and Federal regulations.

1. BACKGROUND

S&ME was contracted to perform an asbestos assessment of the Exit 218 Spruill Avenue on and off-ramp located in North Charleston, South Carolina. The purpose of the assessment was to identify asbestos containing materials (ACMs) associated with the structure, prior to demolition activities in order to construct on and off-ramps servicing a planned roadway. The structure is labeled with an identification number assigned by the owner (101002600992).

The Exit 218 Spruill Avenue on/off-ramp is approximately 700 feet long and 20 feet wide. The roadway is comprised of concrete, situated on steel I-beams, on concrete bents. An asphaltic expansion joint material was located between the roadway deck sections, and no other suspect ACMs were observed between bent caps and steel I-beams. Materials associated with the ramp appeared to be homogeneous.

The identification of ACMs will aid in the prevention of occupational exposures and/or environmental releases of airborne asbestos during destructive activities. Identification of ACMs also complies with Title 40 Code of the Federal Regulations, part 61, and State regulation 61-86.1 enforced by the South Carolina Department of Health and Environmental Control (SCDHEC), along with Title 29 Code of Federal Regulations, part 1926 enforced by the Occupational Safety and Health Administration (OSHA). The following report describes the assessment procedures used, results of the suspect ACMs sampled and analyzed, and conclusions and recommendations regarding the subject structure as related to ACMs.

2. ASSESSMENT PROCEDURES

The assessment was performed by observing and sampling suspect ACMs. Significant destructive testing was not performed; therefore the possibility exists that additional suspect asbestos-containing materials may be present in inaccessible areas such as concrete or asphalt overlays, and between components. If additional suspect materials are discovered during the planned demolition activities, destructive actions to the suspect ACM should not proceed until bulk samples are collected and analyzed for asbestos content.

A sampling strategy was developed to provide representative samples in accordance with SCDHEC and the Environmental Protection Agency (EPA). Bulk samples were collected from suspect ACMs and recorded on a chain of custody record and submitted to our in-house Polarized Light Microscopy (PLM) laboratory in Charlotte, North Carolina for analysis for asbestos content. Confirmation analysis was performed by Transmission Electron Microscopy (TEM) by EMSL Analytical of Charlotte, North Carolina for non-friable organically bound materials reported negative by PLM. Both laboratories are accredited by the National Voluntary Laboratory Accreditation Program (NVLAP), which is administered by the National Institute of Standards and Technology.

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 present.

Transmission Electron Microscopy (TEM)

Suspect non friable organically bound materials, exhibiting negative results via PLM analysis, were analyzed by trained microscopists by TEM using EPA 600 Method in accordance with ASTM E2356.

3. FINDINGS AND RESULTS

The asbestos assessment performed of the Exit 218 Spruill Avenue on/off-ramp (101002600992) in July 2015 included the assessment and bulk sampling of suspect ACMs to include asphaltic expansion joint material associated with the concrete roadway decking. Based on the bulk samples collected and analyzed no ACMs were identified. The EPA and OSHA define materials as asbestos containing if an asbestos content >1% is detected in a representative sample.

A location map is provided in Appendix I, and a diagram of the asbestos bulk sample locations is provided in Appendix II. A copy of the inspector's SCDHEC license is provided in Appendix II, and the laboratory analyses and chain-of-custody records are provided in Appendix IV. Photographs of the structure are provided in Appendix VI.

The following summary table (Table 1) exhibits the sample number, location, type of material tested, approximate quantity of the material sampled, condition of the material, and corresponding result for each sample.

TABLE I: SUMMARY OF ASBESTOS BULK SAMPLE ANALYSIS

Polarized Light Microscopy								
Sample Number	Location	Material	² Approx. Quantity	Asbestos Type	¹ Percent	Condition	Potential for Disturbance	Hazard Assessment
OPS-EJ2-01	Between bridge decking	Asphaltic expansion joint material	200 LF	ND	NA	NA	NA	NA
OPS-EJ2-02				ND	NA	NA	NA	NA
³ OPS-EJ2-03				ND	NA	NA	NA	NA

Abbreviations:

ND = No Asbestos Detected
 NA = Not Applicable
 LF = Linear Feet

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

²The quantities are estimated, and should not be used for bidding purposes, as field conditions should be verified.

³Samples analyzed by TEM to confirm negative results reported by PLM analysis.

4. ABBREVIATIONS AND HAZARD KEY ASSESSMNET

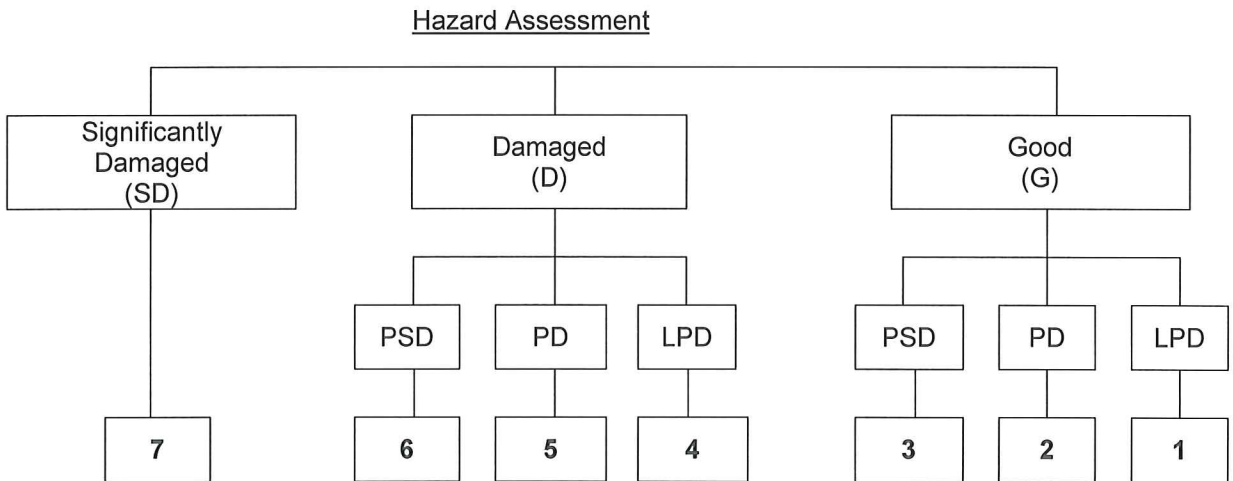
In accordance with the EPA and SCDHEC, confirmed ACM is assigned a hazard assessment based on its present condition and potential for disturbance. The hazard assessment is used as a tool for prioritization in remedial actions regarding ACM(s). The following key exhibits the criteria that compose the hazard assessment. No ACMs were identified in the bulk samples collected and analyzed, therefore the hazard assessment key does not apply.

Present Condition

- F = Friable
- NF = Non-friable
- G = Good (Very localized limited damage)
- D = Damaged (Damage of less than 10% distributed and less than 25% localized)
- SD = Significantly Damaged (Damage equal to or greater than 10% distributed, 25% localized)

Potential for Future Disturbance

- LPD = Low Potential for Disturbance (Contact, Vibration, and Air Erosion all of Low Concern)
- PD = Potential for Damage (Contact, Vibration, or Air Erosion of Moderate Concern)
- PSD = Potential for Significant Damage (Contact, Vibration, or Air Erosion of High Concern)

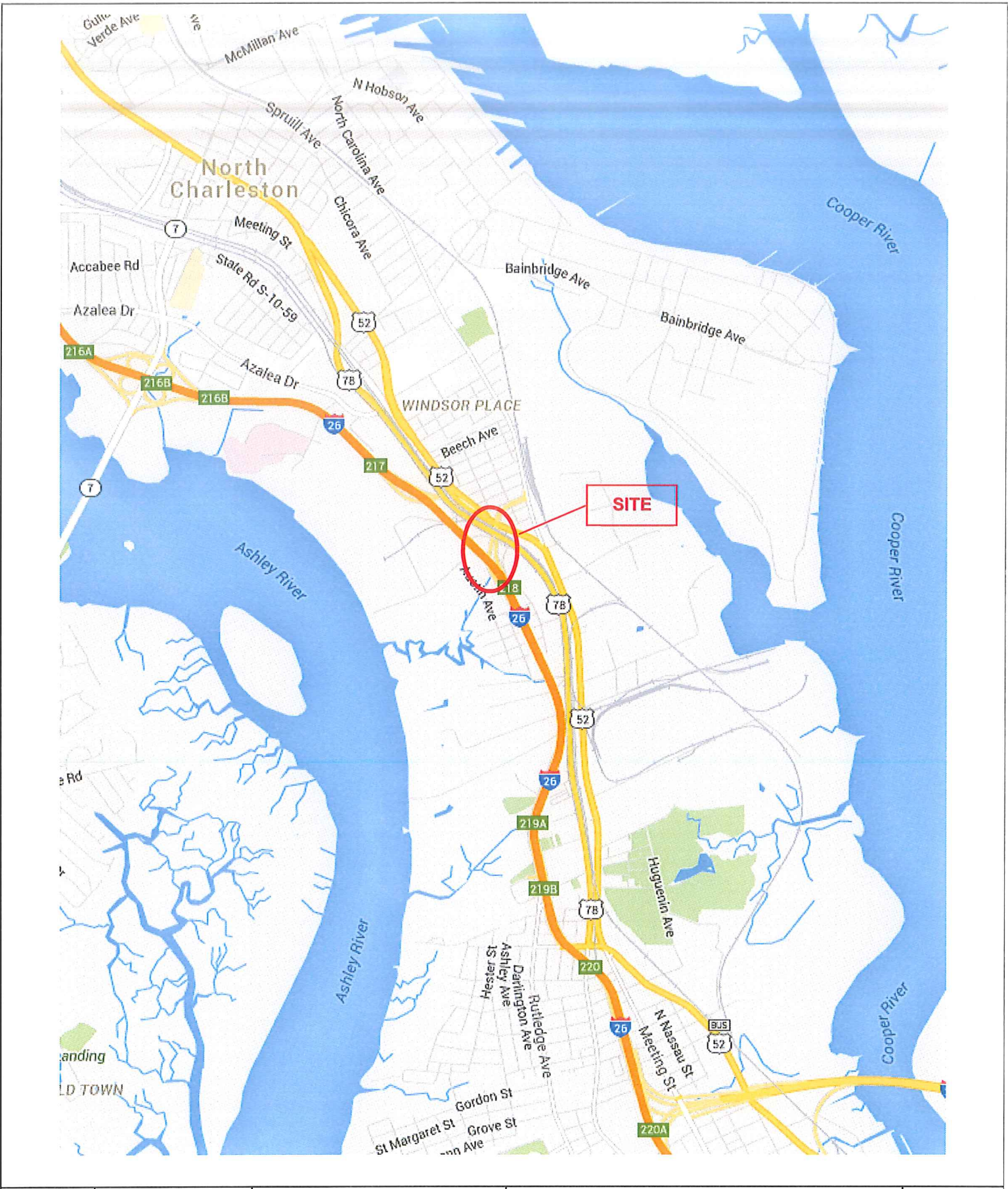


5. CONCLUSIONS AND RECOMMENDATIONS

The asbestos assessment conducted in July 2015 of the Exit 218 Spruill Avenue on/off-ramp (101002600992) located in North Charleston, South Carolina, did not identify the presence of ACMs. If additional suspect ACMs are discovered during the planned demolition and disposal activities, bulk samples should be collected by a SCDHEC licensed inspector and analyzed for asbestos content. An application for demolition, along with a copy of this report, must be submitted to SCDHEC 10 weekdays prior to demolition activities. This report should be provided to the contractor(s) to assist with compliance with applicable State and Federal regulations.

APPENDIX I

SITE LOCATION MAP



SCALE:	NTS
APPROVED BY:	TWR
DRAWN BY:	TWR
DATE:	JULY 24, 2015

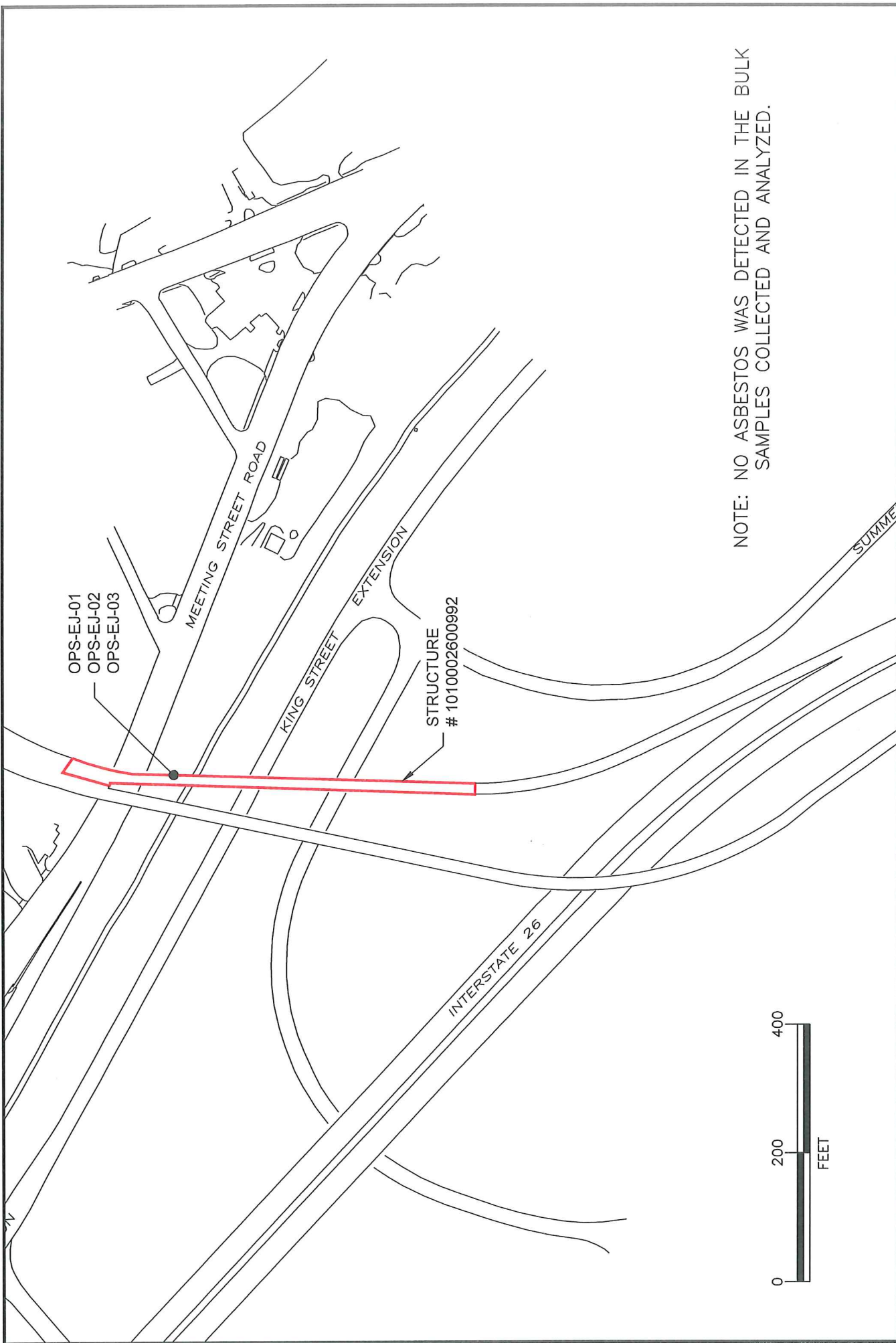


SITE LOCATION
 Exit 218 Spruill Avenue On and Off-Ramp
 Structure# 101002600992
 North Charleston, South Carolina
 S&ME Project No. 1413-15-075

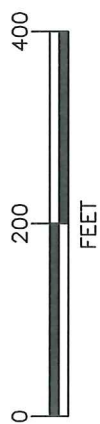
FIGURE NO.
 1

APPENDIX II

DIAGRAM OF BULK SAMPLE LOCATIONS



NOTE: NO ASBESTOS WAS DETECTED IN THE BULK SAMPLES COLLECTED AND ANALYZED.



SCALE:	AS SHOWN
APPROVED BY:	TR
DRAWN BY:	LAJ
DATE:	7-24-2015
PROJECT NO.	1413-15-075



ASBESTOS ASSESSMENT
EXIT 218 SPRUILL AVENUE ON/OFF RAMP
 STRUCTURE 1010002600992
 NORTH CHARLESTON, SOUTH CAROLINA

FIGURE NO.

1

APPENDIX III

COPY OF INSPECTOR'S SCDHEC LICENSE

SCDHEC ISSUED
Asbestos ID Card

William Seaborn

Expires

AIR SAMPLER
CONSULTBI

AS-00416 02/16/16
BI-01317 02/17/16



APPENDIX IV

LABORATORY ANALYSIS SHEETS AND CHAIN OF CUSTODY RECORDS



EMSL Analytical, Inc.

376 Crompton Street, Charlotte, NC 28273
Phone/Fax: (704) 525-2205 / (704) 525-2382
<http://www.EMSL.com> charlottelab@emsl.com

EMSL Order: 411504992
CustomerID: SMEI51
CustomerPO: 39450
ProjectID:

Attn: **Bill Seaborn**
S&ME, Inc.
620 Wando Park Boulevard

Mount Pleasant, SC 29464

Project: SCDOT Port Access Rd./ 1413-15-075

Phone: (843) 884-0005
Fax: (843) 881-6149
Received: 07/23/15 8:00 AM
Analysis Date: 7/23/2015
Collected: 7/22/2015

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
OPS-EJ2-01 411504992-0002	Spruill Ave. West Ramp - Expansion Joint	Black Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
OPS-EJ2-02 411504992-0003	Spruill Ave. West Ramp - Expansion Joint	Black Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected

Analyst(s)
Erin Guzowski (1)
Kristie Elliott (1)

Lee Plumley, 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. Charlotte, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from 07/23/2015 11:38:05

Asbestos Lab Services Chain of Custody

EMSL Order Number (Lab Use Only):

411504992

Company #1
576 Greenway Street
Chatham, NJ 07825
908-727-4274
www.emsl.com

Company: **SMME, Inc.** EMSL-Bill to: Same Different
908-727-4274 or in different state: 1-800-368-6666
Third Party Billing requires written authorization from third party

Street: **620 Wanda Park Blvd**

City/State/Zip: **ML Pleasant, SC 29404**

Report To (Name): **Tary Richburg** Fax:

Telephone: **843-884-0025** Email Address: **trichburg@smmeinc.com**

Project Name/Number: **1413-15-075 Port Access Rd** **10/002600992**

Please Provide Results: _____ Purchase Order: _____ State Samples Taken: **SC**

Turnaround Time (TAT) Options* - Please Check

3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. There is a premium charge for 3 Hour TEM/ASHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr, TWA PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6-NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)	TEM - Air <input type="checkbox"/> 4-4.5hr TAT (ASHERA only) <input type="checkbox"/> ASHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Bulk <input checked="" type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10um <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative) Other: _____
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Check For Positive Step - Clearly Identify Homogenous Group Filter Pore Size (Air Samples): 0.8µm 0.45µm

Samplers Name: _____ Samplers Signature: _____

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
OPS-EJ2-01	Expansion Joint - Spruill Ave	PLM	7-22-15 9:05
OPS-EJ2-02	↓	PLM	7-22-15 9:06
OPS-EJ2-03	↓	TEM	7-22-15 9:07

Client Sample # (s): _____ Total # of Samples: _____

Relinquished (Client): *[Signature]* Date: **7/22/15** Time: **11:30**

Received (Lab): *[Signature]* Date: **7/23/15** Time: **10:05 AM P/K**

Comments/Special Instructions:
 Run all samples concurrently, Email to: **trichburg@smmeinc.com**



EMSL Analytical, Inc.

376 Crompton Street, Charlotte, NC 28273
Phone/Fax: (704) 525-2205 / (704) 525-2382
<http://www.EMSL.com> charlottelab@emsl.com

EMSL Order: 411504992
CustomerID: SMEI51
CustomerPO: 39450
ProjectID:

Attn: **Bill Seaborn**
S&ME, Inc.
620 Wando Park Boulevard

Mount Pleasant, SC 29464
Project: SCDOT Port Access Rd./ 1413-15-075


Phone: (843) 884-0005
Fax: (843) 881-6149
Received: 07/23/15 8:00 AM
Analysis Date: 7/23/2015
Collected: 7/22/2015

**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
OPS-EJ2-03 411504992-0004	Spruill Ave. West Ramp - Expansion Joint	Black Fibrous Heterogeneous	100	None	No Asbestos Detected

Analyst(s)

Kristie Elliott (1)



Lee Plumley, 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. Charlotte, NC

Initial report from 07/23/2015 16:12:55

Asbestos Lab Services Chain of Custody

EMSL Order Number (Lab Use Only):

411504992

Contract # 170
 570 Connecticut Street
 Charlotte, NC 28211
 704.373.4200
 Fax: 704.373.4202

Company: SSME, Inc. EMSL-Bill to: Same Different
 Street: 620 Wando Park Blvd. (If Different, note instructions in Comments)
 City/State/Zip: Mt. Pleasant, SC 29404 Third Party Billing requires written authorization from third party
 Report To (Name): Terry Richburg Fax:
 Telephone: 843-804-0025 Email Address: trichburg@smelnc.com
 Project Name/Number: 1413-15-075 Port Access Rd. 10/002600992
 Please Provide Results: Purchase Order: State Samples Taken: SC

Turnaround Time (TAT) Options* - Please Check
 13 Hour 6 Hour 24 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 800/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point: Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point: Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)	TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Bulk <input checked="" type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 800 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10um <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative) Other: <input type="checkbox"/>
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Check For Positive Step - Clearly Identify Homogenous Group Filter Pore Size (Air Samples): 0.8um 0.45um

Samplers Name: Samplers Signature:

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
OPS-EJ2-01	Expansion Joint - Spruill Ave	PLM	7-22-15 9:05
OPS-EJ2-02	↓	PLM	7-22-15 9:06
OPS-EJ2-03	↓	TEM	7-22-15 9:07

Client Sample # (s): Total # of Samples:
 Relinquished (Client): *[Signature]* Date: 7/22/15 Time: 11:30
 Received (Lab): *[Signature]* Date: 7/23/15 Time: 10:05 AM P/L

Comments/Special Instructions:
 Run all samples concurrently, Email to: trichburg@smelnc.com

APPENDIX V
PHOTOGRAPHS



Photo 1	
	
Date: 07-09-15 Photographer: Seaborn	
Location/Orientation	ID label on exit ramp
Remarks	

Photo 2	
	
Date: 07-24-15 Photographer: Richburg	
Location/Orientation	Photo taken on King Street Extension facing North
Remarks	