

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 217 North Meeting Street On and Off-ramps Structure# 101002600891 and 102005200191

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 217 NORTH MEETING STREET ON AND OFF-RAMPS STRUCTURE# 101002600891 AND 102005200191 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

\$S&ME

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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S&ME Project No. 1413-15-075 July 24, 2015

EXECUTIVE SUMMARY

An asbestos assessment was conducted on July 9, 10 and 22, 2015, of the Exit 217 North Meeting Street on and off-ramps 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 two identification numbers assigned by the owner for each ramp (101002600891 and 102005200191), however both ramps join together as one structure and is considered one structure for the purpose of this assessment. It should be noted that the ID label for structure 102005200191 was not observed on the structure, however ID label 101002600891 was confirmed on the structure.

The Exit 217 North Meeting Street on/off-ramps are approximately 1,900 feet long and 20 to 45 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 each ramp and common section appeared to be homogeneous.

Suspect ACMs observed, sampled and analyzed included the referenced asphaltic expansion joint material. <u>Based on the bulk sampling and analysis performed as part of this assessment, no ACMs were identified.</u> 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 217 North Meeting Street on and off-ramps 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 two identification numbers assigned by the owner for each ramp (101002600891 and 102005200191), however the two referenced ramps join together as one structure, and is considered one structure for the purpose of this assessment.

The Exit 217 North Meeting Street on/off-ramps are approximately 1,900 feet long and 20 to 45 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 each ramp and common section 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 inhouse 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 217 North Meeting Street on/off-ramps 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

		Pola	Polarized Light Microscopy	icroscopy				
Sample Number	Location	Material	² Approx. Quantity	² Approx. Asbestos Quantity Type	¹ Percent	Condition	Potential for Disturbance	Hazard Assessment
OPN-EJ-01				ND	AN	AN	NA	NA
OPN-EJ-02	Between bridge	Asphaltic expansion	L - - - - -	QN	A N	AN	NA	NA
3OPN-EJ-03	decking	joint material	-17 08c	QN	A N	AN	AN	NA
OPN-EJ-04				QN	A N	AN	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)

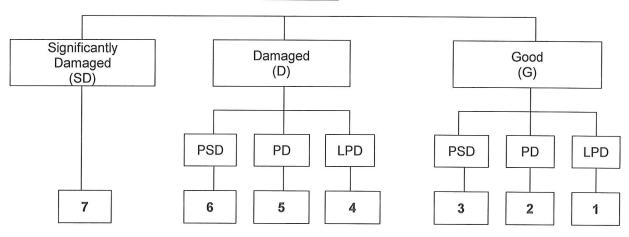
Potential for Future Disturbance

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)

Hazard Assessment

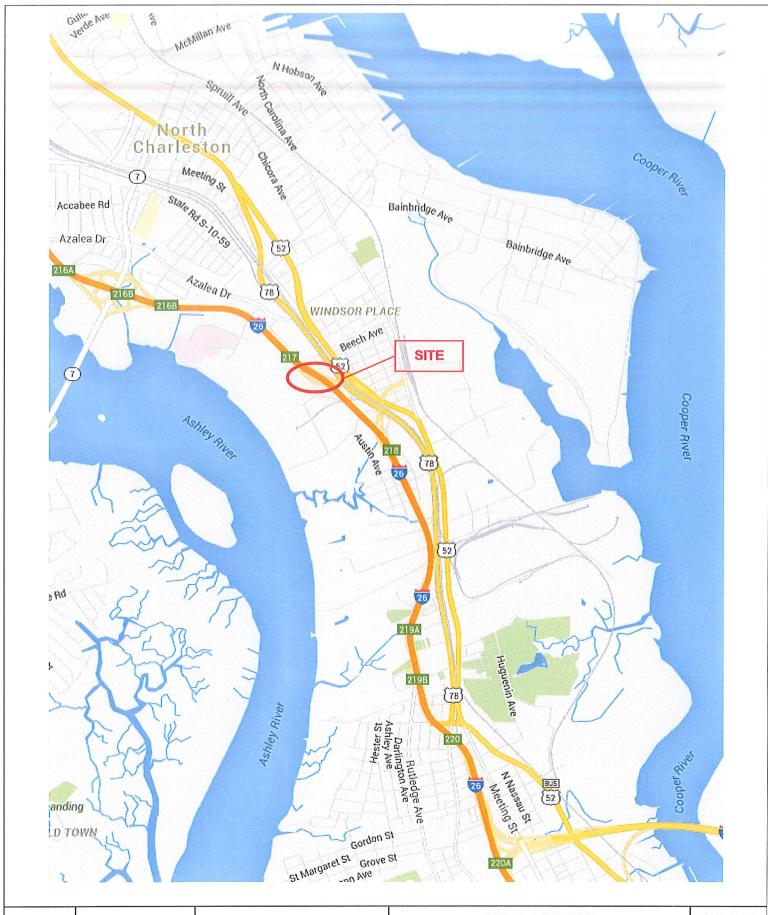


5. CONCLUSIONS AND RECOMMENDATIONS

The asbestos assessment conducted in July 2015 of the Exit 217 North Meeting Street on/off-ramps 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



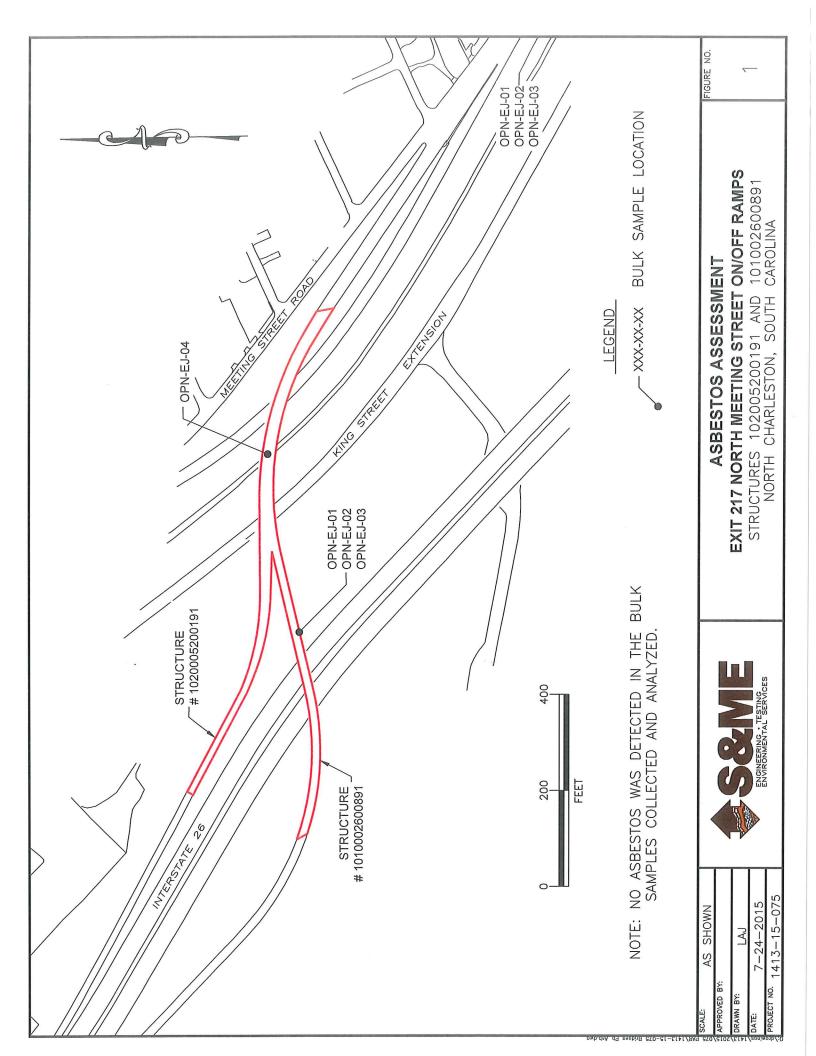
SITE LOCATION

Exit 217 North Meeting Street On and Off-ramps Structure# 101002600891 and 102005200191 North Charleston, South Carolina S&ME Project No. 1413-15-075 FIGURE NO.

1

APPENDIX II

DIAGRAM OF BULK SAMPLE LOCATIONS



APPENDIX III

COPY OF INSPECTOR'S SCDHEC LICENSE

SCDHEC ISSUED Asbestos ID Card

William Seaborn

AIRSAMPLER CONSULTBI

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

APPENDIX IV

LABORATORY ANALYSIS SHEETS AND CHAIN OF CUSTODY RECORDS

704-940-1830 Fax 704-565-4929 NVLAP Lab Code 102075-0

Asbestos Analysis Summary

Client Name Charleston Branch

Client Job

SCDOT Port Access N. Meeting St W/E Ramp

29464 620 Wando Park Blvd. Mt. Pleasant SC

Date Received 7/13/2015

POLARIZED LIGHT MICROSCOPY

Performed by EPA 600/R-93/116 Method

Date Analyzed 7/16/2015

1413-15-075 Job Number

Non-Fibrous %/Type	95 ОТНЕК	95 OTHER
Non-Asbestos Fibrous %/Type	5 CELLULOSE	5 CELLULOSE
Asbestos %/Type	ND	QN
Comments		
Sample #: Appearance	BLACK FIBROUS	BLACK FIBROUS
Sample #:	OPN-EJ-01	OPN-EJ-02
Lab ID:	15-8269	15-8270

Laboratory Manager Jane Wasilewski

The state of the s

Analyzed by: Jane Wasilewski Additional Comments:

- A TO SERVICE CONTRACTOR OF THE PARTY OF TH

For heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. ND = None Detected (Asbestos Not

may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Although Polarized Light Microscopy (PLM/Dispersion Staining) (Method EPA 600/R-93/116) is the specified method for analysis of bulk material samples for asbestos under the EPA Asbestos Hazard Emergency Response Act, there have been reports that this method may not identify asbestos when fiber sizes are extremely small or if they are bound in a resinous material. Such materials include floor tile, mastic and asphaltic roofing. Currently, reanalysis by Transmission Electron Microscopy (TEM) to verify results of <1% or "None Detected" for these Present In Representative Sample). RCF= (Refractory Ceramic Fiber) The results relate only to the items tested.

The sample may not be fully representative of the larger material in question. This sheet may not be reproduced except with permission from SME, Inc. This report materials is recommended.

BULK (

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BULKS	CHAIN OF CUSTODY RECORD	PROJECT NO.	1413-15-075	FACILITY	N. Meehna St. Westleast Ramp	SAMPLER(S)	S. Reichard, B. Seaborn	SAMPLE#	OPN-EJ-OI	OPN-ET-02	OPW-EJ-03			4							

STRUCTIONS

PLM TAT 5 days TEM TAT 3 days

Do not from TEM if both PLMs are POSIFIVE

M - A.H.U. Exp. Jt.
N - Ceiling/Wall Tile
O - Fiberboard
P - Other
(See notes - Front
or back)

G - 9-14" Pipe H - >14" Pipe I - Spray-On/Trowel J - Floor Tile K - Tanks/Boiler L - A.H.U. Insul.

A - <4" Pipe Fitting
B - 4-8" Pipe Fitting
C - 9-14" Pipe Fitting
D - >14" Pipe Fitting
E - <4" Pipe

MATERIAL TYPES

This document was prepared pursuant to a specific agreement to address the unique requirements of an S&ME client. Prior to further use, an S&ME professional should be contacted for a complete explanation of its preparation and contents.

S&ME SF(-002 (REV, 5/93)



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:

411504889

CustomerID: CustomerPO:

SMEI54 62503

ProjectID:

Jane Wasilewski

S&ME, Inc.

9771D Southern Pine Blvd. Charlotte, NC 28273

Phone: Fax:

(704) 565-4929

Received:

07/17/15 12:30 PM

Analysis Date:

7/20/2015

Collected:

Project: 1413-15-075

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
OPN-EJ-03	- Exp. Joint	Black	100	<0.1 Fibrous (other)	No Asbestos Detected
411504889-0001		Fibrous			
		Heterogeneous			

Analyst(s)

Charles Harris (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 07/21/2015 07:54:31

OrderID: 411504889



Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

44504887

EMSL Analytical, Inc. 376 Crompton St Charlotte, NC 28273

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: 9771D Southern Pine Blvd.		Third Party Billing requires written authorization from third party						
	State/Province: NC	Zip/Postal Code: 28273	Country:	тот инга рапу				
Report To (Name): Jane Wasilewski	· ·	Telephone #: 704-940-1830						
Email Address: jwasilewski@smeinc	AAM							
Project Name/Number:	.com	Fax #: Purchase Order: 6 25 0 3 Please Provide Results: ☐ Fax ☒ Email						
U.S. State Samples Taken:	·	CT Samples: Commercial/Taxable Residential/Tax Exemp						
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☐ w/ OSHA 8hr. TWA	☐ NIOSH 7402	711,1 1111100	☐ Wipe - ASTM D64					
PLM - Bulk (reporting limit)	☐ EPA Level II		•					
☐ PLM EPA 600/R-93/116 (<1%)			Carpet Sonication	e e e e e e e e e e e e e e e e e e e				
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	☐ Chatfield SOF		TEM CARB 435 - C					
☐ 400 (<0.25%) ☐ 1000 (<0.1%)	**************************************	alysis-EPA 600 sec. 2.5	TEM Qual. via Filtr					
NYS 198.1 (friable in NY)	TEM - Water: EF		☐ TEM Qual. via Drop	p-Mount Technique				
☐ NYS 198.6 NOB (non-friable-NY)		☐ Waste ☐ Drinking	Other:					
☐ NIOSH 9002 (<1%)	All Fiber Sizes	☐ Waste ☐ Drinking	Д					
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Relinquished (Client):	Date:	7/17/15	Time:					
Received (Lab):	Date:	7/17/15	Time:	1230 pu WI				
Comments/Special Instructions: Bill I		hern Pine Blvd., Charlotte	NC 28273	- ~ ph w				
Construction of the Constr								
	1413	-15-075						



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: CustomerID:

411505035

CustomerPO:

SMEI51 39450

ProjectID:

Terry Richburg S&ME, Inc.

620 Wando Park Boulevard

Phone:

(843) 884-0005

Fax: Received: (843) 881-6149

Analysis Date:

07/23/15 2:05 PM

Collected:

7/23/2015 7/22/2015

Mount Pleasant, SC 29464

Project: 1413-15-075 Port Access Rd.

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

Non-Asbestos **Asbestos Appearance** Sample Description Fibrous % Non-Fibrous % Type OPN-EJ-04 N. Meeting St. -Black 10% Cellulose 5% Ca Carbonate None Detected **Expansion Joint** Non-Fibrous 85% Non-fibrous (other) 411505035-0001 Homogeneous

Analyst(s)

Eric Loomis (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 15:06:07

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Ashestos Lab Services Chain of Custody EMSL Order Number(Lab Use Only):

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Company: £8ME, Inc.	The second secon	EMSL-Bill to: Same . Different #Bill to Silveral net Interceion in Comments"
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City/State/Zip: Mt. Pleasant, SC 29454		and the state of t
Report Yo (Name): Terry Richburg	Faxi	
Telephone: 843-984-0005	Cmail Address: Iriol	hburg@enekro.com
Project Name/Number: 1413-15-075	Part Access Rd	
	39450 State Samples	
	Turnaround Time (TAT) Options' - Plea	
	Rour 48 Hour 72 Hour	96 Hour 1 Week 2 Week
"For TEM Air 3 br Strough 6 hr, please cell afteold	to şahadıda, "There is u premium charge for 3 Hota elvals completed in econdonce with EMSI's Toma	r TEM AFIERA or EPA Level II TAT. You will be asked to sign is and Conditions located in the Analytical Price Guide.
PCM - Air Check if samples are from i		
NIOSH 7400	AHERA 40 CFR, Part 763	Microvac - ASTM D 5755
	D NIOSH7402	☐ Wipe - ASTM D6480
W/ OSHA 8hr, TWA		
PirM - Bulk (reporting limit)	☐ EPA Level II	Carpet Sonication (EPA 600/J-93/167)
☑9EM EPA 600/R-93/116 (<1%)	☐ ISO 10312	Soll/Rock/Vermiculite
☐ PLM EPA NOB (<1%)	TEM - Bulk	☐ PLM CARB 435 - A (0.25% sensilivity)
Point Count	AD TEM EPA NOB	☐ PLM CARB 435 · B (0.1% sensitivity)
[] 400 (<0.25%)[] 1000 (<0.1%)	NYS NOB 198.4 (non-friable-NY)	TEM CARB 435 - B (0.1% sensitivity)
Polnt Court w/Gravimetric	☐ Charfield SOP	TEM CARB 435 - C (0.01% sonsitivity)
☐ 400 (<0.25%) ☐ 1000 (<0.1%)	☐ TEM Mass Analysis-EPA 600 se	c. 2.5 EPA Protocol (Semi-Quantitative)
NYS 198.1 (friable in NY)	TEM - Water: EPA 100.2	☐ EPA Proiocol (Quantitative)
☐ NYS 198.6 NOB (cor-inable-NY)	Fibers >10um [] Waste [] Drink	and the second s
	All Fiber Sizes Waste Orink	
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Samplers Name: William Se		Size (Air Samples): 0.8μm 0.45μm
Samplers Name: POTT CAPPT CO.	- Jamplets aign	
Sample #	Sample Description	Volume/Area (Air) Date/Time HA // (Bulk) Sampled
		1 0111 7-22-15
OPN-EJ-04 Expansion	. Joint - N. Meeting S	87 PLM 8:35
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Client Sample # (s):		Total # of Samples:
Relinquished (Client): Z	Date: 7-22-/5	Time: 11:30
Received (Lub): Yhl Nlan	Date: 7/23/15	Time: Z:05pm F/k
connents/Special Instructions:		
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Controlled Document Asterlise (ob Services COD + A1 9 - 11)22/2001	Page 1 of 1 Pages	8020 4253 1405

APPENDIX V

PHOTOGRAPHS

Asbestos Assessment Exit 217 North Meeting Street On/Off Ramps North Charleston, South Carolina S&ME Project No. 1413-15-075 Sheet 1 of 1



