



TENNESSEE DEPARTMENT OF TRANSPORTATION ASBESTOS INSPECTION REPORT

SR-250 Bridge over Harpeth River
Bridge ID Number 22S61490003
Dickson County, Tennessee



Prepared by:



K. S. WARE & ASSOCIATES, L.L.C.

54 Lindsley Avenue
Nashville, Tennessee 37210

April 11, 2014

KSWA Project Number: 100-14-0019

Daryl Corlew

Tennessee Asbestos Inspector Accreditation [A-I-78606-34727]

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1.0 INTRODUCTION

This report presents the findings of an inspection for asbestos-containing materials completed on the bridge identified in Section 1.1. The inspection was completed in accordance with the State of Tennessee, Department of Transportation Environmental Division, Social and Cultural Resources Office, Hazardous Materials Section requirements.

1.1 TDOT BRIDGE IDENTIFICATION

The bridge is identified in the TDOT Project System/Bridge Management System as:

TDOT PE Number: 98301-4229-04
TDOT PIN Number: 120198.00
Bridge Inventory Number: 22S61490003
State Route Number: SR-250
Log Mile Number: 6.14

1.2 GENERAL DESCRIPTION

The SR-250 Bridge is a nine-span concrete structure over the Harpeth River in Dickson County, Tennessee. The existing Bridge measures at 608 feet in length and consists of concrete and steel components. **Figure – 1** shows the general location of the bridge.

2.0 INSPECTION

The identification of asbestos-containing materials (ACM) is performed by collecting bulk samples of suspect materials and having those samples analyzed by a laboratory. Asbestos-containing materials (ACM) are those materials found to contain greater than one percent asbestos by calibrated visual area estimation (CVAE) using Polarized Light Microscopy (PLM).

Bulk sampling is a procedure in which representative homogeneous sampling areas in a structure are identified and then sampled. A homogeneous sampling area is defined as an area that contains material of the same type (uniform in color and texture) and is applied during the same general time period. Once the homogeneous sampling areas are identified, bulk samples of suspect materials are obtained at the discretion of our inspectors, based on site conditions and past experience.

2.1 PERSONNEL AND DATE(S) OF INSPECTION

The sampling and field activities were performed on April 2, 2014 by Daryl Corlew. Mr. Corlew is an accredited State of Tennessee Asbestos Inspectors. A copy of Daryl Corlew's current accreditation from the State of Tennessee is included in **Appendix A**.

2.2 VISUAL SURVEY

KSWA's survey began with a walk-through and visual survey of the structure located on the property. The visual survey consisted of:

- sketching the structure and/or verifying the plans provided
- locating and identifying homogeneous areas of suspect materials that may contain asbestos minerals
- determining applicable sampling locations

Table-1 lists the homogeneous areas identified during our visual survey.

2.3 ACCESS TO BRIDGE COMPONENTS

Individual bridge components were accessed by the following methods.

2.3.1 Asphalt Overlay

The asphalt overlay was accessed and sampled from the top and shoulders of the bridge.

2.3.2 Gasket Material

The gasket material was accessed and sampled from the top of the bridge.

2.3.3 Underside of Bridge Deck

The underside of the concrete bridge deck was accessed and sampled from beneath the bridge.

2.3.4 Bridge Beams

The concrete bridge beams were accessed and sampled from beneath the bridge.

2.3.5 Bridge Piers/Bents and Supports

The outer two concrete and steel bridge supports on each end of the bridge were accessed and sampled from beneath the bridge. No steel samples were taken from the bridge piers. Due to water level, the middle concrete bridge piers were not sampled. Although they appeared to be of different construction than the outer two piers that were sampled, the two middle piers were observed to be bare concrete with no paint or coating on them.

2.3.6 Guardrails

The concrete bridge guardrails were accessed and sampled from the top of the bridge.

2.3.7 Abutments

The concrete bridge abutments were accessed and sampled from beneath the bridge.

2.3.8 Cementitious Down Drains

The cementitious down drains were visually inspected from the top of the bridge. The drains were not sampled due to the asphalt overlay partially covering the drains and the drains being recessed within the concrete decking. The height of the bridge prevented the drains from being accessed from below the bridge.

Table – 1: Bridge Component Descriptions

Homogeneous Area	Description	No. Of Samples
A	Concrete Guardrail	4
B	Asphalt Overlay	4
C	Concrete Abutment	4
D	Concrete Under decking	4
E	Concrete Beams	4
F	Concrete Outer Piers	3
G	Steel Pier Concrete Foundation	3
H	Gasket Material	2

3.0 ANALYTICAL PROCEDURES

3.1 ASBESTOS ANALYSIS PROCEDURES

The bulk samples are analyzed in the laboratory using Polarized Light Microscopy (PLM) coupled with dispersion staining. PLM is an analytical method for asbestos identification, which identifies the specific asbestos minerals by their unique optical properties. The optical properties are a result of the mineral's chemical composition, physical atomic structure, and visual morphology. This is the U.S. Environmental Protection Agency (EPA) recommended method of analysis for asbestos identification in bulk samples.

In most instances samples from each homogeneous area are analyzed on a “first positive stop” basis. “First positive stop” means that if one sample from a homogeneous area of material is found to contain greater than one percent asbestos, the remaining samples from that homogeneous area are not analyzed and the material is assumed to contain asbestos. In addition, samples which contain multiple layers, or that have associated mastic or adhesive backing, are analyzed as two or more separate samples. Samples that are identified to contain 1% or less asbestos minerals have been point counted by the laboratory for confirmation.

3.2 LABORATORY NAME AND ACCREDITATION

The bulk samples collected for this inspection were analyzed by a laboratory that has received accreditation from the National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP). The name and accreditation number of the analytical laboratory that analyzed the samples for this inspection are indicated in **Table - 2**:

Table – 2: Analytical Laboratory

Laboratory	EMSL Analytical, Inc.
NVLAP Number	102104-0

4.0 REGULATORY OVERVIEW

4.1 NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS

The EPA's National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations (40 CFR 61, Subpart B) requires that all regulated asbestos-containing materials (RACM) be properly removed prior to any renovation or demolition activities that will disturb them. These regulations define RACM as:

- Friable ACM.
- Category I non-friable ACM that has become friable.
- Category I non-friable ACM that will be or has been subject to sanding, grinding, cutting, or abrading.
- Category II non-friable ACM that has a high probability of becoming, or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

4.1.1 Definitions

Significant definitions related to regulation of asbestos under NESHAPS include:

Friable asbestos-containing material (ACM), is defined by the Asbestos NESHAP, as any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy (PLM), that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure. (Sec. 61.141)

Non-friable ACM is any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy (PLM), that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. EPA also defines two categories of non-friable ACM, Category I and Category II non-friable ACM, which are described as follows:

Category I non-friable ACM is any asbestos-containing packing, gasket, resilient floor covering or asphalt roofing product which contains more than one percent (1%) asbestos as determined using polarized light microscopy (PLM) according to the method specified in Appendix A, Subpart F, 40 CFR Part 763. (Sec. 61.141)

Category II non-friable ACM is any material, excluding Category I non-friable ACM, containing more than one percent (1%) asbestos as determined using polarized light microscopy according to the methods specified in Appendix A, Subpart F, 40 CFR Part 763 that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. (Sec. 61.141)

"Regulated Asbestos-Containing Material" (RACM) is (a) friable asbestos material, (b) Category I non-friable ACM that has become friable, (c) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting or abrading, or (d) Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

Friable materials are defined as those which can be crumbled, pulverized, or reduced to powder by hand pressure when dry. The NESHAP regulations also establish specific notification and control requirements for renovation and demolition work.

5.0 RESULTS

The results of the asbestos inspection are presented in the following sections.

5.1 RESULTS OF ASBESTOS BULK SAMPLE ANALYSIS

Twenty-eight samples were obtained from the SR-250 Bridge over the Harpeth River. Multiple samples of each homogeneous area were collected in accordance with State of Tennessee, Department of Transportation Environmental Division, Social and Cultural Resources Office, Hazardous Materials Section requirements and delivered to the laboratory for visual observation and microscopic analysis. The samples were selected based on homogeneous areas of suspect materials, as described in Section 2.2.

Building material homogeneous areas sampled included: concrete guardrail, asphalt overlay, concrete abutment, concrete under decking, concrete beams, concrete outer piers, steel pier concrete foundations, and gasket material. Photographs of the subject Dickson County Bridge are presented in **Appendix B** and the analytical results of all the samples collected from the property, along with the chain-of-custody records, are included in **Appendix C**.

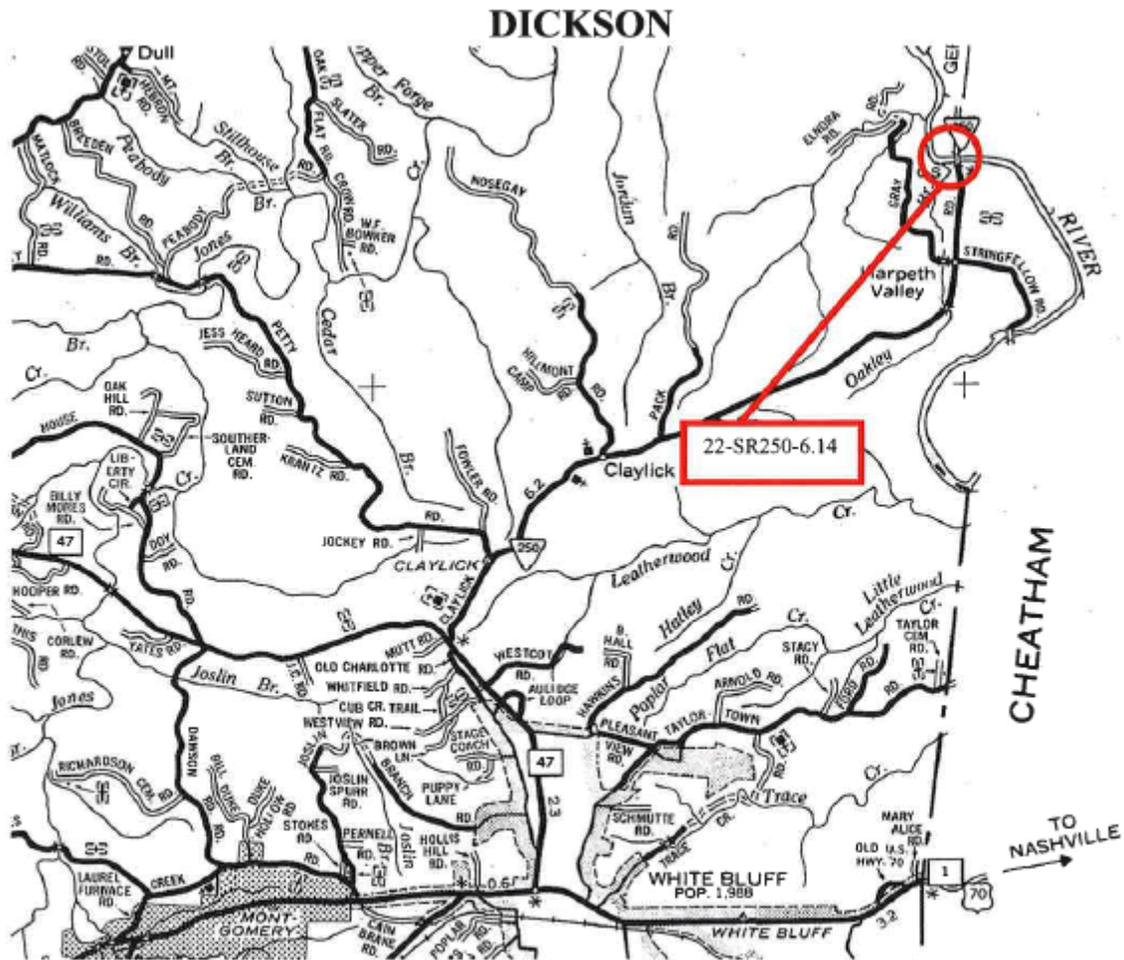
Despite not sampling the cementitious deck down drains, it was our understanding from the Request for Proposal (RFP) that this bridge is not on the TDOT list of bridge with Transite or asbestos listed in the construction plans. However, the original plans show Transite deck down drains. Approximately 82 deck down drains were counted to be present on the west and east sides of the bridge. From that information, we are presuming that the deck down drains are asbestos-containing. Additionally, the inner two concrete piers could not be accessed in order to be sampled. No asbestos was found to be present within any of the materials sampled from the SR-250 Bridge over the Harpeth River.

6.0 QUALIFICATIONS

The information presented herein is based on information obtained during the site visit and from previous experience. If additional information becomes available which might impact our conclusions or recommendations, K. S. Ware & Associates, L.L.C. requests the opportunity to review the information, reassess the potential concerns, and modify opinions, if warranted.

This report has been prepared on behalf of the Tennessee Department of Transportation. This document is not a Bid Document or a Contract Document. Use of this report or reliance upon information contained in this report by any other party implies an agreement by that party to the same terms and conditions under which service was provided. Furthermore, any party, other than our Client, relying on this document is cautioned that all conclusions made or decisions arrived at based on their review of this document are those solely of the third party, without warranty, guarantee or promise by the author. These findings are relevant to the dates of our services and should not be relied upon to represent conditions at substantially earlier or later dates.

Figure – 1: Site Vicinity Map



APPENDIX A: ASBESTOS INSPECTION PERSONNEL ACCREDITATIONS

THE STATE OF TENNESSEE

Department of Environment and Conservation
Division of Solid Waste Management
Toxic Substances Program

82815-21003



Initial

Daryl J Corlew

DOB	Sex	HGT	WGT
12-May-1988	M	5' 11"	180

Discipline	Accreditation	Expiration
Inspector	A-I-78606-34727	Feb-28-2015
Project Monitor	A-PM-78606-27862	Apr-30-2014

Asbestos Accreditation

APPENDIX B: PHOTOGRAPHS



Photo 1: View of the SR-250 Bridge over the Harpeth River in Dickson County, Tennessee



Photo 2: View of the SR-250 Bridge over the Harpeth River in Dickson County, Tennessee from below



Photo 3: View of the cementitious deck down drain from above



Photo 4: View of the cementitious deck down drain from below

APPENDIX C: ASBESTOS SAMPLE LABORATORY ANALYSIS DATA



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

177

EMSL Analytical, Inc.
706 Gralin Street

Kernersville, NC 27284

PHONE: (336) 992-1025

FAX: (336) 992-4175

Company: K.S. Ware and Associates		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 54 Lindsley Ave		Third Party Billing requires written authorization from third party	
City: Nashville	State/Province: TN	Zip/Postal Code: 37210	Country: United States
Report To (Name): Daryl Corlew		Telephone #: 615-255-9702	
Email Address: dcorlew@kswarellc.com		Fax #: 615-256-5873	Purchase Order:
Project Name/Number: 100-14-0019		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail	
U.S. State Samples Taken: TN		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

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 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.

PLM - Bulk (reporting limit)		TEM - Bulk	
<input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)	<input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1	<input type="checkbox"/> NY ELAP Method 198.4 (TEM)	<input type="checkbox"/> Chatfield Protocol (semi-quantitative)
<input type="checkbox"/> PLM EPA NOB (<1%)	<input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2	<input type="checkbox"/> TEM Qualitative via Filtration Prep Technique	<input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique
Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)		Other	
Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)		<input type="checkbox"/>	
<input type="checkbox"/> NIOSH 9002 (<1%)			
<input type="checkbox"/> NY ELAP Method 198.1 (friable in NY)			
<input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY)			
<input type="checkbox"/> OSHA ID-191 Modified			
<input type="checkbox"/> Standard Addition Method			

Check For Positive Stop - Clearly Identify Homogenous Group Date Sampled: April 2, 2014

Samplers Name: Daryl Corlew **Samplers Signature:** *Daryl Corlew*

Sample #	HA #	Sample Location	Material Description
250-1	A	NE	Concrete Guardrails
250-2	A	NW	" "
250-3	A	SE	" "
250-4	A	SW	" "
250-5	B	NE	Asphalt Overlay
250-6	B	NW	" "
250-7	B	SE	" "
250-8	B	SW	" "
250-9	C	NE	Concrete Abutment
250-10	C	NW	" "

Client Sample # (s): 250-1A - 250-284 **Total # of Samples:** 28

Relinquished (Client): Daryl Corlew **Date:** 4/3/14 **Time:** 3:00 pm

Received (Lab): *[Signature]* **Date:** 4-7-14 **Time:** 10:30

Comments/Special Instructions:
SR-250, 48 hour TAT
UPS: 12245 3AR 03 9401 6446



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

177

EMSL Analytical, Inc.
706 Gralin Street

Kernersville, NC 27284

PHONE: (336) 992-1025

FAX: (336) 992-4175

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	HA #	Sample Location	Material Description
250-11	C	SE	" "
250-12	C	SW	" "
250-13	D	NE	Concrete Underdecking
250-14	D	NW	" "
250-15	D	SE	" "
250-16	D	SW	" "
250-17	E	NE	Concrete Beams
250-18	E	NW	" "
250-19	E	SE	" "
250-20	E	SW	" "
250-21	F	NE	Concrete Outer Piers
250-22	F	NW	" "
250-23	F	S	" "
250-24	G	NE	Steel Pier Concrete Foundations
250-25	G	NW	" "
250-26	G	S	" "
250-27	H	NE	Gasket Material
250-28	H	NE	" "

***Comments/Special Instructions:**

SR-250, 48 hour TAT

**EMSL Analytical, Inc.**

706 Gralin Street, Kernersville, NC 27284

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EMSL Order: 021401771

CustomerID: KSWA77

CustomerPO:

ProjectID:

Attn: **Daryl Corlew**
K.S. Ware LLC
54 Lindsley Avenue
Nashville, TN 37210

Phone: (615) 742-7476
 Fax: (615) 256-5873
 Received: 04/07/14 10:30 AM
 Analysis Date: 4/9/2014
 Collected:

Project: 100-14-0019

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
250-1 021401771-0001	Concrete Guardrails	Gray/Tan Non-Fibrous Homogeneous	<1% Cellulose	5% Quartz 95% Non-fibrous (other)	None Detected
250-2 021401771-0002	Concrete Guardrails	Gray/Tan Non-Fibrous Homogeneous	<1% Cellulose	5% Quartz 95% Non-fibrous (other)	None Detected
250-3 021401771-0003	Concrete Guardrails	Gray/Tan Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (other)	None Detected
250-4 021401771-0004	Concrete Guardrails	Gray/Tan Non-Fibrous Homogeneous	<1% Cellulose	5% Quartz 95% Non-fibrous (other)	None Detected
250-5 021401771-0005	Asphalt Overlay	Gray/Black Non-Fibrous Homogeneous	<1% Cellulose	5% Quartz 95% Non-fibrous (other)	None Detected
250-6 021401771-0006	Asphalt Overlay	Gray/Black Non-Fibrous Homogeneous	<1% Cellulose	5% Quartz 95% Non-fibrous (other)	None Detected
250-7 021401771-0007	Asphalt Overlay	Gray/Tan/Black Non-Fibrous Homogeneous	<1% Cellulose	5% Quartz 95% Non-fibrous (other)	None Detected
250-8 021401771-0008	Asphalt Overlay	Gray/Black Non-Fibrous Homogeneous	<1% Cellulose	5% Quartz 95% Non-fibrous (other)	None Detected

Analyst(s)

Kristie Elliott (8)
 Nicole Shutts (20)

Stephen Bennett, Laboratory Manager
 or other approved signatory

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 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 04/09/2014 08:38:49

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CustomerID:	KSWA77
CustomerPO:	
ProjectID:	

Attn: **Daryl Corlew**
K.S. Ware LLC
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Nashville, TN 37210

Phone: (615) 742-7476
 Fax: (615) 256-5873
 Received: 04/07/14 10:30 AM
 Analysis Date: 4/9/2014
 Collected:

Project: 100-14-0019

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
250-9 021401771-0009	Concrete Abutment	Gray/Tan/Beige Non-Fibrous Homogeneous	1% Cellulose	5% Quartz 94% Non-fibrous (other)	None Detected
250-10 021401771-0010	Concrete Abutment	Gray/Tan Non-Fibrous Homogeneous	<1% Cellulose	5% Quartz 95% Non-fibrous (other)	None Detected
250-11 021401771-0011	Concrete Abutment	Brown/Gray/Tan Non-Fibrous Homogeneous	<1% Cellulose	5% Quartz 95% Non-fibrous (other)	None Detected
250-12 021401771-0012	Concrete Abutment	Gray/Tan Non-Fibrous Homogeneous	<1% Cellulose	5% Quartz 95% Non-fibrous (other)	None Detected
250-13 021401771-0013	Concrete Underdecking	Brown/Gray/Tan Non-Fibrous Homogeneous	1% Cellulose	5% Quartz 94% Non-fibrous (other)	None Detected
250-14 021401771-0014	Concrete Underdecking	Gray/Tan Non-Fibrous Homogeneous	<1% Cellulose	5% Quartz 95% Non-fibrous (other)	None Detected
250-15 021401771-0015	Concrete Underdecking	Brown/Gray/Tan Non-Fibrous Homogeneous	<1% Cellulose	5% Quartz 95% Non-fibrous (other)	None Detected
250-16 021401771-0016	Concrete Underdecking	Gray/Tan Non-Fibrous Homogeneous	<1% Cellulose	5% Quartz 95% Non-fibrous (other)	None Detected

Analyst(s)

 Kristie Elliott (8)
 Nicole Shutts (20)


 Stephen Bennett, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

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 Fax: (615) 256-5873
 Received: 04/07/14 10:30 AM
 Analysis Date: 4/9/2014
 Collected:

Project: 100-14-0019

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
250-17 021401771-0017	Concrete Beams	Gray/Tan Non-Fibrous Homogeneous	<1% Cellulose	5% Quartz 95% Non-fibrous (other)	None Detected
250-18 021401771-0018	Concrete Beams	Gray/Tan Non-Fibrous Homogeneous	2% Cellulose	5% Quartz 93% Non-fibrous (other)	None Detected
250-19 021401771-0019	Concrete Beams	Gray/Tan Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (other)	None Detected
250-20 021401771-0020	Concrete Beams	Gray/Tan Non-Fibrous Homogeneous	<1% Cellulose	5% Quartz 95% Non-fibrous (other)	None Detected
250-21 021401771-0021	Concrete Outer Piers	Gray/Tan Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (other)	None Detected
250-22 021401771-0022	Concrete Outer Piers	Gray/Tan Non-Fibrous Homogeneous	<1% Cellulose	5% Quartz 10% Ca Carbonate 85% Non-fibrous (other)	None Detected
250-23 021401771-0023	Concrete Outer Piers	Gray/Tan Non-Fibrous Homogeneous	<1% Cellulose	5% Quartz 10% Ca Carbonate 85% Non-fibrous (other)	None Detected
250-24 021401771-0024	Steel Pier Concrete Foundations	Gray Fibrous Heterogeneous	20% Glass <1% Cellulose	5% Quartz 75% Non-fibrous (other)	None Detected

Analyst(s)

Kristie Elliott (8)
Nicole Shutts (20)

Stephen Bennett, Laboratory Manager
 or other approved signatory

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EMSL Order:	021401771
CustomerID:	KSWA77
CustomerPO:	
ProjectID:	

Attn: **Daryl Corlew**
K.S. Ware LLC
54 Lindsley Avenue
Nashville, TN 37210

Phone: (615) 742-7476
 Fax: (615) 256-5873
 Received: 04/07/14 10:30 AM
 Analysis Date: 4/9/2014
 Collected:

Project: 100-14-0019

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
250-25 <i>021401771-0025</i>	Steel Pier Concrete Foundations	Brown/Gray/Tan Non-Fibrous Homogeneous	1% Cellulose	5% Quartz 94% Non-fibrous (other)	None Detected
250-26 <i>021401771-0026</i>	Steel Pier Concrete Foundations	Gray/Tan Non-Fibrous Homogeneous	<1% Cellulose	5% Quartz 95% Non-fibrous (other)	None Detected
250-27 <i>021401771-0027</i>	Gasket Material	Brown/Black Fibrous Heterogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
250-28 <i>021401771-0028</i>	Gasket Material	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected

Analyst(s)

 Kristie Elliott (8)
 Nicole Shutts (20)


 Stephen Bennett, Laboratory Manager
 or other approved signatory

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 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 04/09/2014 08:38:49