

# **INFORMATION HANDOUT**

**For Contract No. 12-0H5304**

**At 12-Ora-5-6.8, 22.8**

**Identified by**

**Project ID 1213000147**

## **MATERIALS INFORMATION**

Asbestos Survey Report

# ASBESTOS SURVEY REPORT

I-5 PROJECT  
CAMINO LAS RAMBLAS (BRIDGE NO. 55-620F)  
AND BEE CANYON (BRIDGE NO. 55-31)  
SAN JUAN CAPISTRANO AND IRVINE,  
CALIFORNIA

PREPARED FOR:

CALIFORNIA DEPARTMENT OF TRANSPORTATION, DISTRICT 12  
ENVIRONMENTAL ENGINEERING  
3334 MICHELSON DRIVE, SUITE 100  
IRVINE, CA 92612-8894



PREPARED BY:

GEOCON CONSULTANTS, INC.  
3303 N. SAN FERNANDO ROAD, SUITE 100  
BURBANK, CA 91504-2531



GEOCON

GEOCON PROJECT NO. S9890-06-15

PROJECT ID NO. 1213000147

FEBRUARY 2016



Project No. S9890-06-15  
February 22, 2016

Mr. Wayne Chiou  
California Department of Transportation, District 12  
Environmental Engineering  
3334 Michelson Drive, Suite 100  
Irvine, California 92612-8894

Subject: ASBESTOS SURVEY REPORT  
INTERSTATE 5 PROJECT – PROJECT ID NO. 1213000147  
CAMINO LAS RAMBLAS BRIDGE NO. 55-620F AND  
BEE CANYON BRIDGE NO. 55-55-31  
SAN JUAN CAPISTRANO AND IRVINE, CALIFORNIA

Dear Mr. Chiou:

In accordance with your request, we have performed an asbestos survey at the Interstate 5 Camino Las Ramblas Bridge (Bridge No. 55-620F) in San Juan Capistrano, California and at the Interstate 5 Bee Canyon Bridge (Bridge No. 55-31) in Irvine, California. Our scope of services included surveying areas at the subject sites for suspect asbestos-containing materials, collecting bulk samples, and submitting the samples to a laboratory for analysis.

The accompanying report summarizes the services performed and the results of laboratory testing.

If there are questions concerning the contents of this report, or if we may be of further service, please contact us at your convenience.

Sincerely,

**GEOCON CONSULTANTS, INC.**

Scott M. Nunes, CAC (No. 92-0547)  
Senior Environmental Scientist

Michael P. Conkle, PG  
Senior Geologist



(2) Addressee

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# ASBESTOS SURVEY REPORT

## 1.0 INTRODUCTION

### 1.1 Site Description

The site consists of the Camino Las Ramblas Undercrossing (Bridge 55-620F, north loop on-ramp) in San Juan Capistrano and the Bee Canyon Overhead (Bridge No. 55-31) in Irvine, California (the Site). The approximate site locations are depicted on the Vicinity Map, Figure 1, and Site Plans, Figures 2-1 and 2-2.

### 1.2 Objectives

The objective of our scope of services was to assess the potential presence and quantity of asbestos at the Site prior to planned renovation activities. The information obtained from this investigation will be used by Caltrans for waste profiling, determining California Occupational Safety and Health Administration (Cal/OSHA) applicability, and coordinating asbestos disturbance activities.

## 2.0 BACKGROUND

The *Code of Federal Regulations* (CFR), 40 CFR 61, Subpart M, National Emissions Standards for Hazardous Air Pollutants (NESHAP) and Federal Occupational Safety and Health Administration (FED OSHA) classify asbestos-containing material (ACM) as any material or product that contains *more than* 1% asbestos. Nonfriable ACM is classified by NESHAP as either Category I or Category II material defined as follows:

- **Category I** – asbestos-containing packings, gaskets, resilient floor coverings, and asphalt roofing products.
- **Category II** – all remaining types of non-friable asbestos-containing material not included in Category I that when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Regulated asbestos-containing material (RACM), a hazardous waste when friable, is classified as any manufactured material that contains *greater than* 1% asbestos by dry weight *and* is:

- Friable; or
- Category I material that has become friable; or
- Category I material that has been subjected to sanding grinding, cutting or abrading; or
- Category II non-friable material that has a high probability of becoming crumbled, pulverized, or reduced to a powder during demolition or renovation activities.

The South Coast Air Quality Management District (SCAQMD) Rule 1403 classifies ACM as any material or product that contains *more than* 1% asbestos. Nonfriable ACM is classified by the SCAQMD as either a Class I or Class II material, defined as follows:

- **Class I** – ACM that, when dry can be broken, crumbled, pulverized, or reduced to powder in the course of demolition or renovation activities. These materials include, but are not limited to, fractured or crushed asbestos cement products, mastic, roofing felts, roofing tiles, cement water pipes, and resilient floor coverings.
- **Class II** – all other ACM that is neither friable nor Class I nonfriable material.

Activities that disturb materials containing *any* amount of asbestos are subject to certain requirements of the Cal/OSHA asbestos standard contained in Title 8, California Code of Regulations (CCR) §1529. Typically, removal or disturbance of more than 100 square feet of material containing more than 0.1% asbestos must be performed by a registered asbestos abatement contractor, but associated waste labeling is not required if the material contains 1% or less asbestos. When the asbestos content of a material exceeds 1%, virtually all requirements of the standard become effective.

Materials containing more than 1% asbestos are also subject to NESHAP regulations (40 CFR Part 61, Subpart M). RACM (friable ACM and nonfriable ACM that will become friable during demolition or renovation operations) must be removed from buildings prior to demolition or renovation. Certain nonfriable ACM and materials containing 1% or less asbestos may remain in buildings during demolition; however, there are waste handling/disposal issues and Cal/OSHA work requirements that must be followed. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

With respect to potential worker exposure, notification, and registration requirements, Cal/OSHA defines asbestos-containing construction material (ACCM) as construction material that contains more than 0.1% asbestos (Title 8, CCR 341.6).

### **3.0 SCOPE OF SERVICES**

Mr. Scott Nunes performed the asbestos survey at the Site on February 8, 2016. Mr. Nunes is a California-Certified Asbestos Consultant (CAC), certification No. 92-0547 (expiration March 4, 2016). Architectural plans for the Site were available for our review. We did not observe specifications regarding the use of asbestos-containing materials in the architectural plans provided. Previous asbestos survey reports were not available for our review.

Suspect ACMs were grouped into homogeneous areas with representative samples randomly collected from each. In addition, each potential ACM was evaluated for quantity and friability. A total of 24 bulk asbestos samples representing eight material types were collected from the Site.

Geocon's procedures for inspection and sampling are discussed below:

- Collected bulk asbestos samples after first wetting friable material with a light mist of water. The samples were then cut from the substrate and transferred to labeled containers. Note that when multiple samples were collected, the sampling locations were distributed throughout the homogeneous area (spaces where the material was observed).

- Relinquished bulk asbestos samples to LA Testing (EMSL), a California-licensed laboratory, for asbestos analysis in accordance with EPA Test Method 600/R-93/116 using polarized light microscopy (PLM) procedures under standard chain-of-custody procedures. LA Testing is a laboratory accredited by the National Institute of Standards and Technology National Voluntary Laboratory Accreditation Program (NIST-NVLAP) for bulk asbestos fiber analysis. The laboratory analyses were requested on a 48-hour turnaround.

Sample locations are presented on the Site Plans, Figures 2-1 and 2-2. Geocon sample identification numbers, material descriptions, locations, approximate quantities, friability assessments, and photo references are summarized in Tables 1 and 2. Materials represented by the samples collected are shown in the attached photographs.

## **4.0 INVESTIGATIVE RESULTS**

### **Camino Las Ramblas Bridge**

Chrysotile asbestos at concentrations of 10-30% was detected in samples (sample numbers 1-3) representing approximately 7 square feet of nonfriable guardrail shims (sheet packing) located on both the north and south guardrails (approximately 28 total).

No asbestos fibers were observed in samples of the remaining suspect materials sampled (sample numbers 4-18) during our asbestos survey at this bridge.

### **Bee Canyon Bridge**

No asbestos fibers were observed in samples of the suspect materials sampled (sample numbers 1-6) during our asbestos survey at this bridge.

A summary of the analytical laboratory test results for asbestos is presented in Table 1.

## 5.0 CONCLUSIONS AND RECOMMENDATIONS

NESHAP regulations do not require that asbestos-containing sheet packing (a NESHAP Category I nonfriable/nonhazardous material and SCAQMD Class II nonfriable material) identified during our survey be removed prior to renovation/demolition or be treated as hazardous waste. However, Geocon recommends the asbestos-containing sheet packing (shims) be removed prior to the renovation activities (to avoid potential disturbance) using wet methods, placed in properly labeled bags, and disposed of as nonfriable, nonhazardous waste. The sheet packing may also be reused or stored for subsequent use. However, activities causing *disturbance* of the sheet packing matrix (i.e., cutting, abrading, sanding, grinding, etc.) would require compliance with the Cal/OSHA asbestos standard (Title 8, CCR §1529). Contractors are responsible for segregating and characterizing waste streams prior to disposal.

We also recommend the notification of contractors (that will be conducting demolition, renovation, or related activities) of the presence of asbestos in their work areas (i.e., provide the contractor[s] with a copy of this report and a list of asbestos removed by contractor[s] during subsequent activities). Personnel not trained for asbestos work should be instructed not to *disturb* asbestos. Contractors are responsible for informing the landfill of the contractor's intent to dispose of asbestos waste. Some landfills may require additional waste characterization. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

In accordance with SCAQMD Rule 1403, written notification to the District is required ten working days prior to commencement of *any* demolition activity (whether asbestos is present or not) and for renovation activities involving specified quantities of RACM. In accordance with Title 8, CCR 341.9, written notification to the nearest Cal/OSHA district office is required at least 24 hours prior to asbestos-related work.

In regards to the ACM identified in this report, notification to SCAQMD for the asbestos-containing shim removal would not be necessary due to the quantity of ACM identified (less than 100 square feet) and the project is not defined by SCAQMD Rule 1403 as a demolition project due to no load bearing members being demolished.

## 6.0 REPORT LIMITATIONS

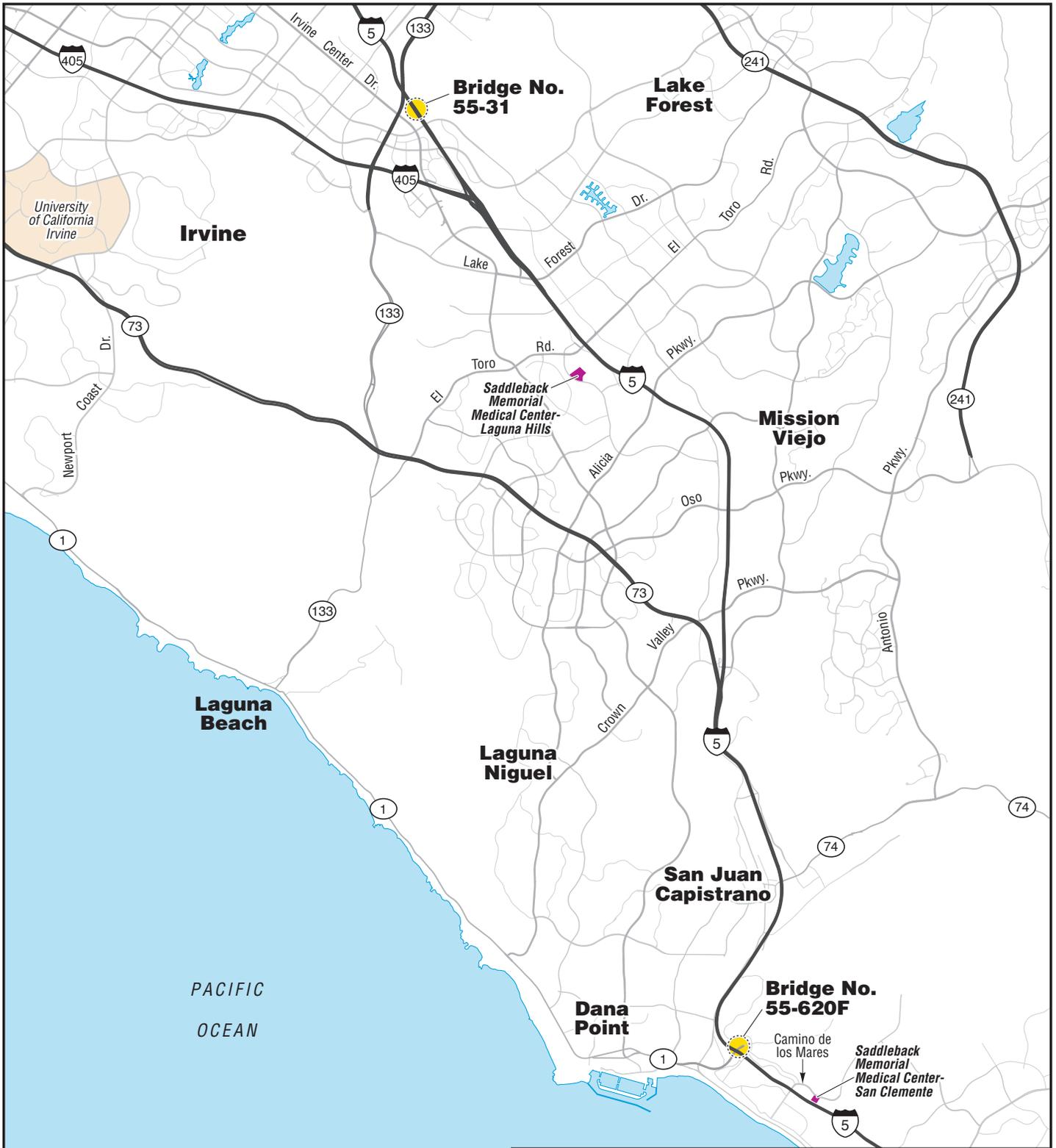
This report has been prepared exclusively for Caltrans. The information contained herein is only valid as of the date of the report, and will require an update to reflect additional information obtained.

The asbestos survey was conducted in conformance with generally accepted standards of practice for identifying and evaluating asbestos in structures. The survey addressed only the structure identified in Section 1.1. Due to the nature of structure surveys, asbestos use, and laboratory analytical limitations, some asbestos in the structure may not have been identified. Spaces, such as cavities, crawlspaces, voids, and pipe chases, may have been concealed to our investigator. Previous retrofit/rehabilitation work may have concealed or covered spaces or materials, or may have partially demolished materials and left debris in inaccessible areas. Additionally, retrofit/rehabilitation activities may have partially replaced asbestos with indistinguishable non-asbestos. Asbestos may exist in areas not accessible (such as the freeway center median where bridge support columns are located) or sampled in conjunction with our scope of services.

During renovation or demolition operations, suspect materials may be uncovered which are different from those accessible for sampling during this assessment. Personnel in charge of renovation/demolition should be alerted to note materials uncovered during such activities that differ substantially from those included in this or previous assessment reports. If additional suspect materials are found, they should be treated as hazardous until/unless sampling and analysis indicate otherwise.

This report is not a comprehensive site characterization and should not be construed as such. The findings as presented in this report are predicated on the results of the limited sampling and laboratory testing performed. In addition, the information obtained is not intended to address potential impacts related to sources other than those specified herein. Therefore, the report should be deemed conclusive with respect to only the information obtained. We make no warranty, express or implied, with respect to the content of this report or any subsequent reports, correspondence, or consultation. Geocon strived to perform the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.

The contents of this report reflect the views of the author who is responsible for the facts and accuracy of the data presented herein. This report does not constitute a standard, specification, or regulation.



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Camino Las Ramblas and Bee Canyon Bridges

Orange County,  
California

**VICINITY MAP**

GEOCON Proj. No. S9890-06-15

Task Order No. 15

February 2016

Figure 1




**GEOCON**  
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Camino Las Ramblas Bridge

San Juan Capistrano,  
California

**SITE PLAN**  
**Bridge No. 55-620F**

GEOCON Proj. No. S9890-06-15

Task Order No. 15

February 2016

Figure 2-1

LEGEND:

● Approximate Asbestos Sample Location





LEGEND:

- Approximate Asbestos Sample Location



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Bee Canyon Bridge

Irvine,  
California

GEOCON Proj. No. S9890-06-15

Task Order No. 15

**SITE PLAN**  
**Bridge No. 55-31**

February 2016

Figure 2-2



**Photo 1 - View of Camino Las Ramblas Bridge.**



**Photo 2 – View of asbestos shims and non-asbestos concrete rail walls/asphalt on Camino Las Ramblas Bridge.**

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**SITE PHOTOS 1 & 2**

Asbestos Survey  
I-5/Camino Las Ramblas and Bee Canyon Bridges  
San Juan Capistrano and Irvine, California

S9890-06-15

February 2016



**Photo 3 – Non-asbestos concrete patch on the Camino Las Ramblas Bridge.**



**Photo 4 – Non-asbestos black tar/mastic on the Camino Las Ramblas Bridge.**

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**SITE PHOTOS 3 & 4**

Asbestos Survey  
I-5/Camino Las Ramblas and Bee Canyon Bridges  
San Juan Capistrano and Irvine, California

S9890-06-15

February 2016



**Photo 5 – Asbestos shims on the Camino Las Ramblas Bridge.**



**Photo 6 – View of Bee Canyon Bridge.**

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**SITE PHOTOS 5 & 6**

Asbestos Survey  
I-5/Camino Las Ramblas and Bee Canyon Bridges  
San Juan Capistrano and Irvine, California

S9890-06-15

February 2016



**Photo 7 – Non-asbestos concrete rail wall on the Bee Canyon Bridge.**



**Photo 8 – Non-asbestos asphalt on the Bee Canyon Bridge.**

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**SITE PHOTOS 7 & 8**

Asbestos Survey  
I-5/Camino Las Ramblas and Bee Canyon Bridges  
San Juan Capistrano and Irvine, California

S9890-06-15

February 2016

**TABLE 1**  
**SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS - ASBESTOS**  
**I-5/CAMINO LAS RAMBLAS BRIDGE NO. 55-620F**  
**SAN JUAN CAPISTRANO, CALIFORNIA**

**Polarized Light Microscopy (PLM) - EPA Test Method 600/R-93/116**

<b>Sample Group No. ID</b>	<b>Description of Suspect Material</b>	<b>Location</b>	<b>Approximate Quantity</b>	<b>Friable</b>	<b>Site Photo</b>	<b>Asbestos Content</b>
1 to 3	Rail shims	North and south rail posts	7 square feet	No	2, 5	10-30% Chrysotile
4 to 6	Bridge deck concrete	Bridge deck	NA	NA	1	ND
7 to 9	Rail wall concrete	North and south rail walls	NA	NA	2	ND
10 to 12	Concrete patch	Central bridge deck	NA	NA	3	ND
13 to 15	Asphalt	East and west ends of the bridge	NA	NA	2	ND
16 to 18	Black tar/mastic	Various patches on the bridge deck	NA	NA	4	ND

NA = not applicable

ND = no asbestos fibers detected

**TABLE 2**  
**SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS - ASBESTOS**  
**I-5/BEE CANYON BRIDGE NO. 5-31**  
**IRVINE, CALIFORNIA**

**Polarized Light Microscopy (PLM) - EPA Test Method 600/R-93/116**

<b>Sample Group No. ID</b>	<b>Description of Suspect Material</b>	<b>Location</b>	<b>Approximate Quantity</b>	<b>Friable</b>	<b>Site Photo</b>	<b>Asbestos Content</b>
1 to 3	Wall concrete	West wall	NA	NA	7	ND
4 to 6	Asphalt	West of metal guard rail	NA	NA	8	ND

NA = not applicable

ND = no asbestos fibers detected

APPENDIX

A



# LA Testing

82 West Sierra Madre Boulevard Sierra Madre, CA 91  
Tel/Fax: (626) 355-4711 / (626) 355-4497  
<http://www.LATesting.com> / [sierramadrelab@latestesting.co](mailto:sierramadrelab@latestesting.co)

LA Testing Order: 451600529  
Customer ID: 32GCIE78  
Customer PO:  
Project ID:

**Attention:** Scott Nunes  
Geocon Inland Empire  
41571 Corning Place  
Suite 101  
Murrieta, CA 92562  
**Project:** S9890-06-15 / Camino Las Ramblas Bridge

**Phone:** (951) 256-6535  
**Fax:** (951) 304-2642  
**Received Date:** 02/15/2016 11:30 AM  
**Analysis Date:** 02/16/2016  
**Collected Date:** 02/08/2016

## 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
1 <small>451600529-0001</small>	Rail Shims - Northeast	Various Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
2 <small>451600529-0002</small>	Rail Shims - Northeast	Various Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
3 <small>451600529-0003</small>	Rail Shims - Southeast	Gray Non-Fibrous Homogeneous		70% Non-fibrous (Other)	30% Chrysotile
4 <small>451600529-0004</small>	Bridge Deck Concrete - East	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
5 <small>451600529-0005</small>	Bridge Deck Concrete - East	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
6 <small>451600529-0006</small>	Bridge Deck Concrete - Center	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
7 <small>451600529-0007</small>	Rail Wall Concrete - Northeast	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
8 <small>451600529-0008</small>	Rail Wall Concrete - Northeast	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
9 <small>451600529-0009</small>	Rail Wall Concrete - Southwest	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
10 <small>451600529-0010</small>	Concrete Patch - Center of Bridge	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11 <small>451600529-0011</small>	Concrete Patch - Center of Bridge	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
12 <small>451600529-0012</small>	Concrete Patch - Center of Bridge	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
13 <small>451600529-0013</small>	Asphalt - East	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14 <small>451600529-0014</small>	Asphalt - East	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
15 <small>451600529-0015</small>	Asphalt - West	Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16 <small>451600529-0016</small>	Tar/Mastic - East	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected



# LA Testing

82 West Sierra Madre Boulevard Sierra Madre, CA 91  
Tel/Fax: (626) 355-4711 / (626) 355-4497  
<http://www.LATesting.com> / [sierramadrelab@lateesting.co](mailto:sierramadrelab@lateesting.co)

LA Testing Order: 451600529  
Customer ID: 32GCIE78  
Customer PO:  
Project ID:

## 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
17 <i>451600529-0017</i>	Tar/Mastic - East	Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18 <i>451600529-0018</i>	Tar/Mastic - West	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)  
Nahid Motamedi (12)  
Wesene Sebhat (6)

  
Arturo Casas 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 LA Testing Sierra Madre, CA NVLAP Lab Code 102116-0, CA ELAP 1269

Initial Report From: 02/17/2016 14:27:13



### Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

451600529

LATESTING  
520 MISSION STREET  
SOUTH PASADENA, CA 91030  
PHONE: (800)-303-0047  
FAX: (323)-254-9962

Company: <u>Geon Consultants</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: <u>41571 Conning Place, Suite 101</u>		Third Party Billing requires written authorization from third party	
City: <u>Murreta</u>	State/Province: <u>CA</u>	Zip/Postal Code: <u>92562</u>	Country: <u>U-S</u>
Report To (Name): <u>Scott Nunes</u>		Telephone #: <u>(951) 304-2300</u>	
Email Address: <u>nunes@geoninc.com</u>		Fax #: <u>(951) 304-2392</u>	Purchase Order:
Project Name/Number: <u>59890-06-15 Camino Las Ramblas</u>		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail	
U.S. State Samples Taken: <u>CA</u>		Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential	

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.

<b>PCM - Air</b> <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA <b>PLM - Bulk (reporting limit)</b> <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%)	<b>TEM - Air</b> <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 <b>TEM - Bulk</b> <input 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 <b>TEM - Water:</b> EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	<b>TEM- Dust</b> <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) <b>Soil/Rock/Vermiculite</b> <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"/> TEM Qual. via Filtration Technique <input type="checkbox"/> TEM Qual. via Drop-Mount Technique <b>Other:</b> <input type="checkbox"/>
---	--	---

Check For Positive Stop - Clearly Identify Homogenous Group      Filter Pore Size (Air Samples):  0.8µm  0.45µm

Samplers Name: Scott Nunes      Samplers Signature: [Signature]

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
	<u>★ Caltrans Project</u>		

Client Sample # (s): 1-18      Total # of Samples: 18

Relinquished (Client): [Signature]      Date: 2-11-16      Time:

Received (Lab): Chadreny Warner      Date: 2/15/16      Time: 11:30AM

Comments/Special Instructions: Relinquished by Kaban 2/15/16



**BULK SAMPLE LOG**

Project Name: Camino Las Ramblas Bridge Collected By: SN

Project No.: S9890-06-15 Date: 2-8-16

HOMOGENEOUS MATERIAL: Rail Shims

Sample Number	Location	Area Sq. Ft.	Condition
1	Northeast	7	Good
2	"	↓	↓
3	Southeast	↓	↓

NOTES: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**CHAIN OF CUSTODY**

Relinquished By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_



**BULK SAMPLE LOG**

Project Name: Camino Las Ramblas Bridge Collected By: SN

Project No.: S9890-06-15 Date: 2-8-16

HOMOGENEOUS MATERIAL: Bridge Deck Concrete

Sample Number	Location	Area Sq. Ft.	Condition
4	East	1,600	Good
5	"	↓	↓
6	Center	↓	↓

NOTES: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**CHAIN OF CUSTODY**

Relinquished By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_

Received By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_

Received By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_



**BULK SAMPLE LOG**

Project Name: Camino Las Ramblas Bridge Collected By: SN

Project No.: S9890-06-15 Date: 2-8-16

**HOMOGENEOUS MATERIAL:** Rail Wall Concrete

Sample Number	Location	Area Sq. Ft.	Condition
7	Northeast	640	Good
8	Northeast	↓	↓
9	Southwest		

**NOTES:**  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**CHAIN OF CUSTODY**

Relinquished By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_



**BULK SAMPLE LOG**

Project Name: Camino Las Ramblas Bridge Collected By: SN

Project No.: S9890-06-15 Date: 2-8-16

**HOMOGENEOUS MATERIAL:** Concrete Patch

Sample Number	Location	Area Sq. Ft.	Condition
10	Center of Bridge	100	Good
11	"	↓	↓
12	"	↓	↓

**NOTES:**  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_

**CHAIN OF CUSTODY**

Relinquished By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_

Received By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_

Received By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_



### BULK SAMPLE LOG

Project Name: Camino Las Ramblas Bridge Collected By: SN

Project No.: S9890-06-15 Date: 2-8-16

HOMOGENEOUS MATERIAL: Asphalt

Sample Number	Location	Area Sq. Ft.	Condition
13	East	600	Good
14	"	↓	↓
15	West	↓	↓

**NOTES:** \_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**CHAIN OF CUSTODY**

Relinquished By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_

Received By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_

Received By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_



**BULK SAMPLE LOG**

Project Name: Camino Las Ramblas Bridge Collected By: SN

Project No.: S9890-06-15 Date: 2-8-16

**HOMOGENEOUS MATERIAL:** Black Tar/Mastic

Sample Number	Location	Area Sq. Ft.	Condition
16	East	30	Good
17	East	↓	↓
18	West	↓	↓

NOTES: Various patches on the bridge

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**CHAIN OF CUSTODY**

Relinquished By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_

Received By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_

Received By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_



# LA Testing

82 West Sierra Madre Boulevard Sierra Madre, CA 91  
Tel/Fax: (626) 355-4711 / (626) 355-4497  
<http://www.LATesting.com> / [sierramadrelab@latestesting.co](mailto:sierramadrelab@latestesting.co)

LA Testing Order: 451600528  
Customer ID: 32GCIE78  
Customer PO:  
Project ID:

**Attention:** Scott Nunes  
Geocon Inland Empire  
41571 Corning Place  
Suite 101  
Murrieta, CA 92562  
**Project:** S9890-06-15 / Bee Canyon Bridge

**Phone:** (951) 256-6535  
**Fax:** (951) 304-2642  
**Received Date:** 02/15/2016 11:30 AM  
**Analysis Date:** 02/16/2016  
**Collected Date:** 02/08/2016

## 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
1 <small>451600528-0001</small>	Wall concrete - West	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2 <small>451600528-0002</small>	Wall concrete - West	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3 <small>451600528-0003</small>	Wall concrete - West	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4 <small>451600528-0004</small>	Asphalt - West	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
5 <small>451600528-0005</small>	Asphalt - West	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
6 <small>451600528-0006</small>	Asphalt - West	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)  
Nahid Motamedi (4)  
Wesene Sebhat (2)

Arturo Casas 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 LA Testing Sierra Madre, CA NVLAP Lab Code 102116-0, CA ELAP 1269

Initial Report From: 02/17/2016 13:54:45



### Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

451600528

LATESTING  
520 MISSION STREET  
SOUTH PASADENA, CA 91030  
PHONE: (800)-303-0047  
FAX: (323)-254-9962

Company: <u>Geoson Consultants</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: <u>41571 Conroy Place, Suite 101</u>		<i>Third Party Billing requires written authorization from third party</i>	
City: <u>Munroeta</u>	State/Province: <u>CA</u>	Zip/Postal Code: <u>92582</u>	Country: <u>U.S</u>
Report To (Name): <u>Scott Nunes</u>		Telephone #: <u>(951) 304-2300</u>	
Email Address: <u>nunes@geosoninc.com</u>		Fax #: <u>(951) 304-2392</u>	
Project Name/Number: <u>Be Canyon Bridge / 59890-0615</u>		Purchase Order:	
U.S. State Samples Taken: <u>CA</u>		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail	
		Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential	

**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.

<b>PCM - Air</b> <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA <b>PLM - Bulk (reporting limit)</b> <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%)	<b>TEM - Air</b> <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 <b>TEM - Bulk</b> <input 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 <b>TEM - Water:</b> EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	<b>TEM- Dust</b> <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) <b>Soil/Rock/Vermiculite</b> <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"/> TEM Qual. via Filtration Technique <input type="checkbox"/> TEM Qual. via Drop-Mount Technique <b>Other:</b> <input type="checkbox"/>
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Check For Positive Stop - 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
	★ Caltrans Project		

Client Sample # (s): <u>1-b</u>	-	Total # of Samples: <u>6</u>
Relinquished (Client): <u>Stt in gms</u>	Date: <u>2-11-16</u>	Time: _____
Received (Lab): <u>Chadney (owner)</u>	Date: <u>2/15/16</u>	Time: <u>11:30am</u>
Comments/Special Instructions: <u>Relinquished by Fekou 2/15/16</u>		



**BULK SAMPLE LOG**

Project Name: Bee Canyon Bridge Collected By: SN

Project No.: S9890-06-15 Date: 2-8-16

HOMOGENEOUS MATERIAL: Wall Concrete

Sample Number	Location	Area Sq. Ft.	Condition
1	West	120	Good
2	"	↓	↓
3	"	↓	↓

NOTES: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**CHAIN OF CUSTODY**

Relinquished By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_



**BULK SAMPLE LOG**

Project Name: Bee Canyon Bridge Collected By: SN

Project No.: S9890-06-15 Date: 2-8-16

**HOMOGENEOUS MATERIAL:**

*Asphalt*

Sample Number	Location	Area Sq. Ft.	Condition
<i>4</i>	<i>West</i>	<i>160</i>	<i>Good</i>
<i>5</i>	<i>"</i>	<i>↓</i>	<i>↓</i>
<i>6</i>	<i>"</i>	<i>↓</i>	<i>↓</i>

**NOTES:**  
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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**CHAIN OF CUSTODY**

Relinquished By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_