

INFORMATION HANDOUT

For Contract No. 03-4F7004

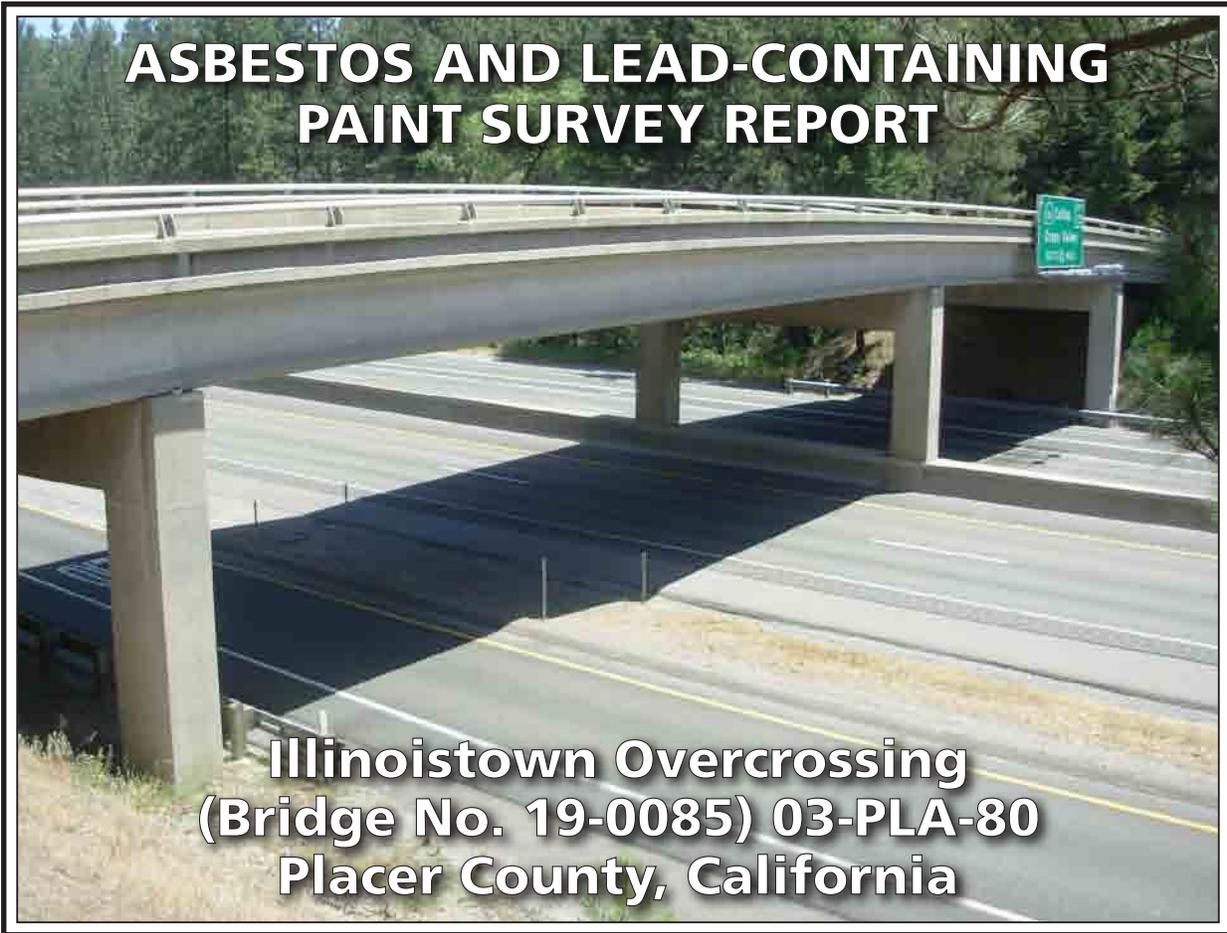
At 03-Pla-80-31.8

Identified by

Project ID 0314000243

MATERIALS INFORMATION

Asbestos and Lead-Containing Paint Survey Report



PREPARED FOR:

**CALIFORNIA DEPARTMENT OF TRANSPORTATION
DISTRICT 3
703 B STREET, P.O. BOX 911
MARYSVILLE, CALIFORNIA 95901**



PREPARED BY:

**GEOCON CONSULTANTS, INC.
3160 GOLD VALLEY DRIVE, SUITE 800
RANCHO CORDOVA, CALIFORNIA 95742**



**GEOCON PROJECT NO. S9805-01-29
TASK ORDER NO. 29
E-FIS 03-1400-0243-1 (EA 03-4F7001)
CONTRACT NO. 03A2132**

JUNE 2014



Project No. S9805-01-29

June 26, 2014

Alicia Beyer, Task Order Manager
Caltrans District 3
703 B Street
Marysville, California 95901

Subject: ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT
03-PLA-80, PM 31.8, ILLINOISTOWN OVERCROSSING (BRIDGE NO. 19-0085)
PLACER COUNTY, CALIFORNIA
CONTRACT NO. 03A2132, E-FIS 03 1400 0243 1, EA 03-4F7001
TASK ORDER NO. 29

Dear Ms. Beyer:

In accordance with California Department of Transportation Contract No. 03A2132 and Task Order No. 29, we have performed an asbestos and lead-containing paint survey of the Illinoistown Overcrossing in Placer County, California. Our scope of services included surveying the structure for suspect asbestos-containing materials and lead-containing paint, collecting bulk samples, and submitting the samples to laboratories for analyses.

The accompanying report summarizes the services performed and laboratory analysis.

The contents of this report reflect the views of Geocon Consultants, Inc., who are responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.

Please contact us if you have questions concerning the contents of this report or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.

David A. Watts, CAC No. 98-2404
Senior Project Scientist

(2 + 2 CDs) Addressee

John E. Juhrend, PE, CEG
Principal/Senior Engineer



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2. Summary of Paint Analytical Results – Total Lead

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- A. Analytical Laboratory Reports and Chain-of-custody Documentation

ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT

1.0 INTRODUCTION

This asbestos and lead-containing paint (LCP) survey report was prepared by Geocon Consultants, Inc. under Caltrans Contract No. 03A2132, Task Order No. 29 (TO-29).

1.1 Project Description

The project consists of the Illinoistown Overcrossing (Bridge No. 19-0085) at Post Mile 31.8 on Interstate 80 in Placer County, California. We performed asbestos and LCP survey activities at the project location. The project location is depicted on the Vicinity Map, Figure 1, and Site Plan, Figure 2.

1.2 General Objectives

The purpose of the scope of services outlined in TO-29 was to determine the presence and quantity of asbestos and LCP at the project location prior to various bridge improvement 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 and LCP disturbance activities.

It was not Geocon's intent during this inspection to conduct an evaluation of lead-based paint hazards in accordance with U.S. Department of Housing and Urban Development (HUD) guidelines.

2.0 BACKGROUND

2.1 Asbestos

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 *greater 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 nonfriable 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 (can be crumbled, pulverized, or reduced to powder by hand pressure); 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 nonfriable material that has a high probability of becoming crumbled, pulverized, or reduced to a powder during demolition or renovation activities.

Activities that disturb materials containing *any* amount of asbestos are subject to certain requirements of the Cal/OSHA asbestos standard contained in Title 8 of the 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 operations) must be removed from structures prior to demolition. Certain nonfriable ACM and materials containing 1% or less asbestos may remain in structures during demolition; however, there are waste handling/disposal issues and Cal/OSHA work requirements that must be addressed. 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).

2.2 Lead Paint

Construction activities (including demolition) that disturb materials or paints containing *any* amount of lead are subject to certain requirements of the Cal/OSHA lead standard contained in Title 8, CCR, §1532.1. Deteriorated paint is defined by Title 17, CCR, Division 1, Chapter 8, §35022 as a surface coating that is cracking, chalking, flaking, chipping, peeling, non-intact, failed, or otherwise separating from a substrate. Demolition of a deteriorated LCP component would require waste characterization and appropriate disposal. Intact LCP on a component is currently accepted by most landfills and recycling facilities; however, contractors are responsible for segregating and characterizing waste streams prior to disposal.

For a solid waste containing lead, the waste is classified as California hazardous when: 1) the representative total lead content equals or exceeds the respective Total Threshold Limit Concentration (TTLC) of 1,000 milligrams per kilogram (mg/kg); or 2) the representative soluble lead content equals or exceeds the respective Soluble Threshold Limit Concentration (STLC) of 5 milligrams per liter (mg/l) based on the standard Waste Extraction Test (WET). A waste has the potential for exceeding the lead STLC when the waste's total lead content is greater than or equal to ten times the respective STLC value since the WET uses a 1:10 dilution ratio. Hence, when total lead is detected at a

concentration greater than or equal to 50 mg/kg, and assuming that 100 percent of the total lead is soluble, soluble lead analysis is required. Lead-containing waste is classified as “Resource, Conservation, and Recovery Act” (RCRA) hazardous, or Federal hazardous, when the representative soluble lead content equals or exceeds the Federal regulatory level of 5 mg/l based on the Toxicity Characteristic Leaching Procedure (TCLP).

The above regulatory criteria are based on chemical concentrations. Wastes may also be classified as hazardous based on other criteria such as ignitability; however, for the purposes of this investigation, toxicity (i.e., lead concentration) is the primary factor considered for waste classification since waste generated during the construction activities would not likely warrant testing for ignitability or other criteria. Waste that is classified as either California-hazardous or RCRA-hazardous requires management as a hazardous waste.

Potential hazards exist to workers who remove or cut through LCP coatings during demolition. Dust containing hazardous concentrations of lead may be generated during scraping or cutting materials coated with lead-containing paint. Torching of these materials may produce lead oxide fumes. Therefore, air monitoring and/or respiratory protection may be required during the demolition of materials coated with LCP. Guidelines regarding regulatory provisions for construction work where workers may be exposed to lead are presented in Title 8, CCR, §1532.1.

2.3 Architectural Drawings and Previous Survey Activities

We reviewed structure as-built plans provided by Caltrans prior to field activities. We did not observe specifications or notes regarding the use of asbestos-containing materials or lead paint in the architectural plans provided. Previous asbestos survey reports were not available for our review.

3.0 SCOPE OF SERVICES

Mr. David Watts, a California-Certified Asbestos Consultant (CAC), certification No. 98-2404 (expiration September 16, 2014), and Certified Lead Paint Inspector/Assessor and Project Monitor with the California Department of Public Health (DPH), certification numbers I-1734 and M-1734 (expiration December 4, 2014), performed the asbestos and LCP survey at the project location on June 3, 2014.

3.1 Asbestos

Suspect ACM were grouped into homogeneous areas with representative samples randomly collected from each. In addition, each potential ACM was evaluated for friability. A total of six bulk asbestos samples representing three suspect components were collected.

Our procedures for inspection and sampling in accordance with TO-29 are discussed below:

- Collected bulk asbestos samples after first wetting friable materials 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 under standard chain-of-custody protocol to EMSL Analytical, Inc., a California-licensed and Caltrans-approved subcontractor, for asbestos analysis in accordance with United States Environmental Protection Agency (EPA) Test Method 600/R-93/116 using polarized light microscopy (PLM). EMSL Analytical, Inc. 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 turnaround period of five days.

Sample group identification numbers, material descriptions, approximate quantities, friability assessments, and photo references are summarized on Table 1. Approximate sample locations are presented on Figure 2. Materials represented by the samples collected are shown in the attached photographs.

3.2 Lead Paint

A total of four bulk paint samples were collected from suspect LCP observed at the project location. Mr. Watts field-composited the suspect LCP samples into two paint schemes prior to submittal to the laboratory. We did not observe deteriorated LCP during our survey. Our sampling procedures in accordance with TO-29 are discussed below:

- Collected bulk samples of suspect LCP using techniques presented in HUD guidelines. In addition, the painted areas were evaluated for evidence of deterioration such as flaking or cracking.
- Relinquished bulk LCP samples under standard chain-of-custody protocol to Advanced Technology Laboratories, a California-licensed and Caltrans-approved subcontractor, for total and soluble lead analysis in accordance with EPA Test Method 6010B. Advanced Technology Laboratories is accredited by the DPH for lead analysis. The laboratory analyses were requested on a turnaround period of five days.

Paint sample identification numbers, descriptions, peeling and flaking quantities, and photo references are summarized on Table 2. Approximate sample locations are presented on Figure 2. Materials represented by the samples collected are shown in the attached photographs.

4.0 INVESTIGATIVE RESULTS

4.1 Asbestos Analytical Results

No asbestos was detected in samples of the suspect concrete materials collected during our survey. A summary of the analytical laboratory test results for asbestos is presented on Table 1. Reproductions of the laboratory report and chain-of-custody documentation are presented in Appendix A.

4.2 Paint Analytical Results

A sample representing intact yellow traffic striping exhibited a representative total lead concentration of 2.7 mg/kg.

A sample representing intact gray graffiti abatement exhibited a representative total lead concentration of 32 mg/kg.

A summary of the analytical laboratory test results for paint is presented on Table 2. Reproductions of the laboratory reports and chain-of-custody documentation are presented in Appendix A.

5.0 RECOMMENDATIONS

Based on our findings, we recommend the following:

5.1 Asbestos

Since no asbestos was detected in the samples collected during our survey, the Cal/OSHA asbestos standard does not apply for planned activities. In addition, debris would not be considered a California hazardous waste based on asbestos content. Written notification to the U.S. EPA Region IX and the California Air Resources Board is required ten working days prior to commencement of *any* demolition activity (whether asbestos is present or not).

5.2 Lead Paint

Paints represented by samples collected during our survey would not be considered California or Federal hazardous based on lead content.

We recommend that all paints at the project location be treated as lead-containing for purpose of determining the applicability of the Cal/OSHA lead standard during maintenance, renovation, and demolition activities. This recommendation is based on LCP sample results and the fact that lead was a common ingredient of paints manufactured before 1978 and is still an ingredient of some paints. In accordance with Title 8, CCR, §1532.1(p), written notification to the nearest Cal/OSHA district office is required at least 24 hours prior to certain lead-related work. Compliance and training requirements regarding construction activities where workers may be exposed to lead are presented in Title 8, CCR, §1532.1, subsections (e) and (l), respectively.

The removal, transportation, placement, handling, and disposal of LCP must result in no visible dust.

6.0 REPORT LIMITATIONS

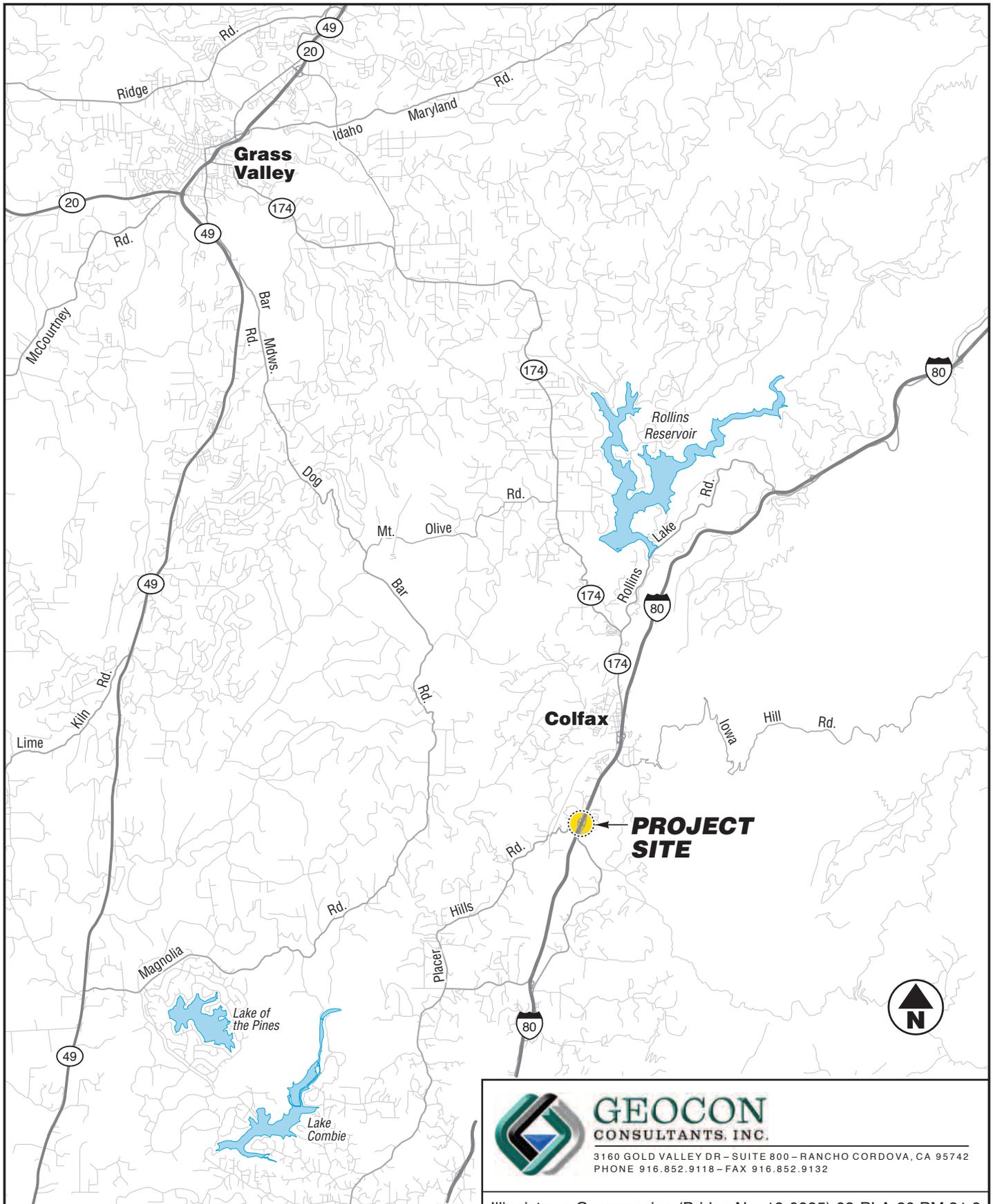
The asbestos and LCP survey was conducted in conformance with generally accepted standards of practice for identifying and evaluating asbestos and LCP in structures. The survey addressed only the structure identified in Section 1.1. Due to the nature of structure surveys, asbestos and LCP use, and laboratory analytical limitations, some ACM or LCP at the project location may not have been identified. Spaces such as cavities, voids, crawlspaces, and pipe chases may have been concealed to our investigator. Previous renovation work may have concealed or covered spaces or materials or may have partially demolished materials and left debris in inaccessible areas. Additionally, renovation activities may have partially replaced ACM with indistinguishable non-ACM. Asbestos and/or LCP may exist in areas of the structure that were not accessible or sampled in conjunction with this TO.

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 suspect ACM and/or LCP are found, additional sampling and analysis should be performed to determine if the materials contain asbestos or lead.

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.

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. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.



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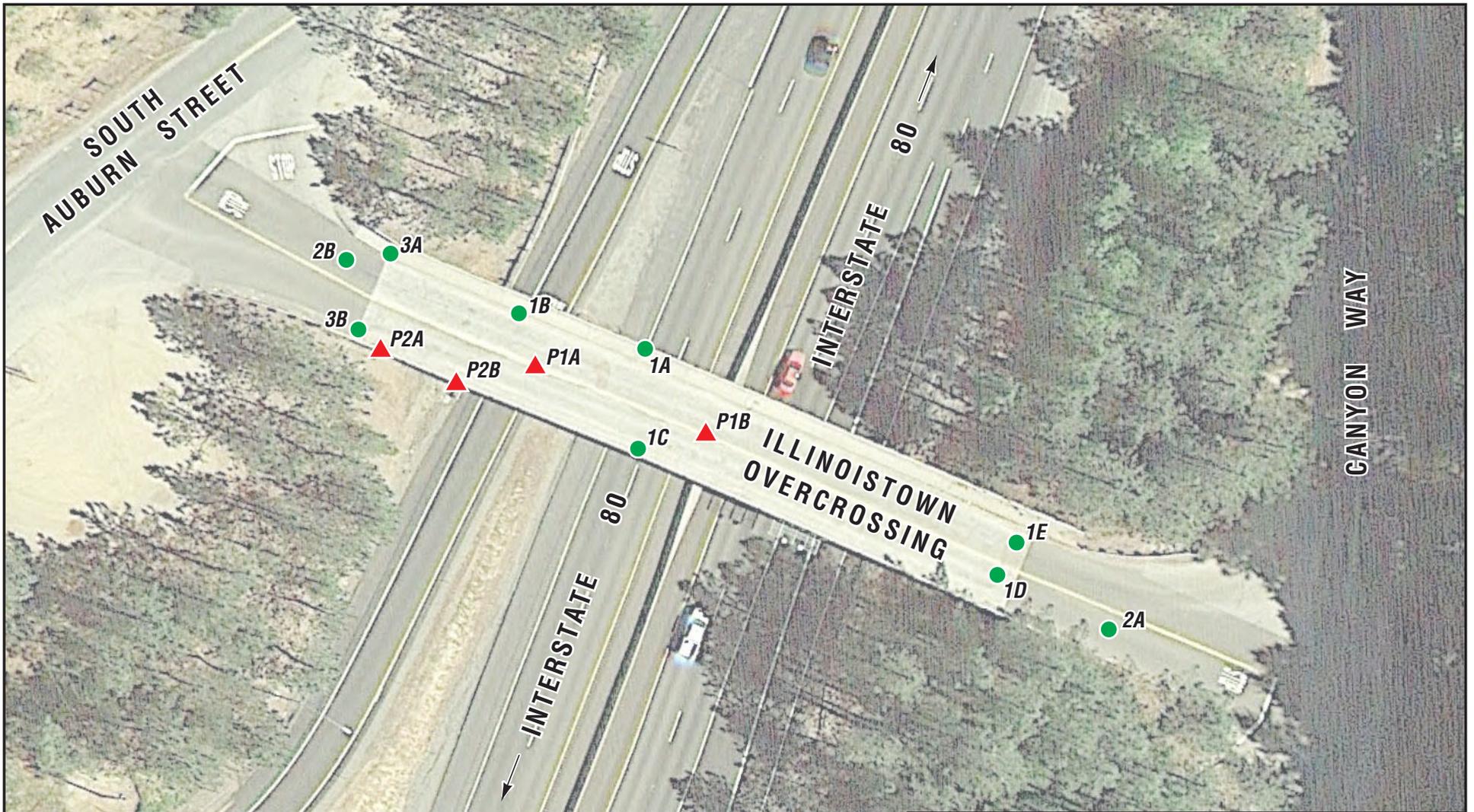
3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 - FAX 916.852.9132

Illinoistown Overcrossing (Bridge No. 19-0085) 03-PLA-80 PM 31.8

GEOCON Proj. No. S9805-01-29
Task Order No. 29
E-FIS 03-1400-0243-1
EA 03-4F7001
Caltrans Contract 03A2132

VICINITY MAP

June 2014	Figure 1
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LEGEND:

- Approximate Asbestos Sample Location
- ▲ Approximate Paint Sample Location



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Illinoistown Overcrossing (Bridge No. 19-0085) 03-PLA-80 PM 31.8

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E-FIS 03-1400-0243-1
EA 03-4F7001
Caltrans Contract 03A2132

SITE PLAN

June 2014

Figure 2



Photo 1 – Illinois town Overcrossing (Bridge 19-0085) at PM 31.8 on Interstate 80 in Placer County, California



Photo 2 – Bridge deck



Photo 3 – West abutment and concrete girder system



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PHOTOGRAPHS 1, 2, & 3

Illinoistown Overcrossing
Placer County, California

S9805-01-29

June 2014



Photo 4 – Bridge expansion joint and fill material



Photo 5 – Bridge columns



Photo 6 – Graffiti abatement near west abutment



GEOCON
CONSULTANTS, INC.

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PHONE 916.852.9118 - FAX 916.852.9132

PHOTOGRAPHS 4, 5, & 6

Illinoistown Overcrossing
Placer County, California

S9805-01-29

June 2014

TABLE 1
SUMMARY OF ASBESTOS ANALYTICAL RESULTS
ILLINOISTOWN OVERCROSSING (BRIDGE NO. 19-0085)
CONTRACT 03A2132, TASK ORDER NO. 29
03-PLA-80, POST MILE 31.8
PLACER COUNTY, CALIFORNIA

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

Sample Group No.	Description of Material	Approximate Quantity	Friable	Site Photo	Asbestos Content
1	Concrete	NA	NA	1 through 6	ND
2	Asphalt	NA	NA	2	ND
3	Joint fill material	NA	NA	3 and 4	ND

Notes:

NA = Not applicable (no asbestos detected)

ND = Not detected

TABLE 2
SUMMARY OF PAINT ANALYTICAL RESULTS - TOTAL LEAD
ILLINOISTOWN OVERCROSSING (BRIDGE NO. 19-0085)
CONTRACT 03A2132, TASK ORDER NO. 29
03-PLA-80, POST MILE 31.8
PLACER COUNTY, CALIFORNIA

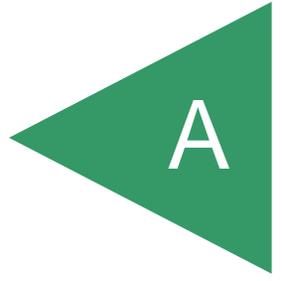
Paint Sample No.	Paint Description	Approximate Quantity Peeling/Flaking	Site Photos	Total Lead (mg/kg)
P1A/B	Yellow traffic striping	Intact	2	2.7
P2A/B	Gray paint (graffiti abatement)	Intact	6	32

Notes:

mg/kg = milligrams per kilogram (EPA Test Method 6010B)

APPENDIX

A





EMSL Analytical, Inc

2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577

Phone/Fax: (510) 895-3675 / (510) 895-3680

<http://www.EMSL.com>

sanleandrolab@emsl.com

EMSL Order:	091408445
CustomerID:	GECN21
CustomerPO:	
ProjectID:	

Attn: **Dave Watts**
Geocon Consultants, Inc.
6671 Brisa Street

Livermore, CA 94550

Project: **S9805-01-29**

Phone: (925) 371-5900
Fax: (925) 371-5915
Received: 06/06/14 9:00 AM
Analysis Date: 6/12/2014
Collected: 6/3/2014

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
1A-Concrete <i>091408445-0001</i>		Gray Non-Fibrous Homogeneous		30% Quartz 40% Ca Carbonate 30% Non-fibrous (other)	None Detected
1B-Concrete <i>091408445-0002</i>		Gray Non-Fibrous Homogeneous		30% Quartz 40% Ca Carbonate 30% Non-fibrous (other)	None Detected
1C-Concrete <i>091408445-0003</i>		Gray Non-Fibrous Homogeneous		30% Quartz 40% Ca Carbonate 30% Non-fibrous (other)	None Detected
1D-Concrete <i>091408445-0004</i>		Gray Non-Fibrous Homogeneous		30% Quartz 40% Ca Carbonate 30% Non-fibrous (other)	None Detected
1E-Concrete <i>091408445-0005</i>		Gray Non-Fibrous Homogeneous		30% Quartz 40% Ca Carbonate 30% Non-fibrous (other)	None Detected
2A-Asphalt <i>091408445-0006</i>		Gray/Black Non-Fibrous Homogeneous		60% Quartz 30% Matrix 10% Non-fibrous (other)	None Detected
2B-Asphalt <i>091408445-0007</i>		Gray/Black Non-Fibrous Homogeneous		60% Quartz 30% Matrix 10% Non-fibrous (other)	None Detected

Analyst(s)

Matthew Batongbacal (9)



Israel Gutierrez
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 San Leandro, CA NVLAP Lab Code 101048-3, WA C884

Initial report from 06/12/2014 13:34:45



EMSL Analytical, Inc

2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577

Phone/Fax: (510) 895-3675 / (510) 895-3680

<http://www.EMSL.com>

sanleandrolab@emsl.com

EMSL Order:	091408445
CustomerID:	GECN21
CustomerPO:	
ProjectID:	

Attn: **Dave Watts**
Geocon Consultants, Inc.
6671 Brisa Street

Livermore, CA 94550

Project: **S9805-01-29**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/06/14 9:00 AM
 Analysis Date: 6/12/2014
 Collected: 6/3/2014

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
3A-Joint Fill Material <i>091408445-0008</i>		Brown/Black Fibrous Homogeneous	55% Cellulose	35% Matrix 10% Non-fibrous (other)	None Detected
3B-Joint Fill Material <i>091408445-0009</i>		Black Fibrous Homogeneous	45% Cellulose	45% Matrix 10% Non-fibrous (other)	None Detected

Analyst(s)

 Matthew Batongbacal (9)



 Israel Gutierrez
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, WA C884

Initial report from 06/12/2014 13:34:45



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

091208445

EMSL ANALYTICAL, INC.
2235 POLVOROSA DR #230
SAN LEANDRO, CA 94577
PHONE: (510) 895-3675
FAX: (510) 895-3680

Company: GEOCON		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 6671 BRISA ST		Third Party Billing requires written authorization from third party	
City: LIVERMORE	State/Province: CA	Zip/Postal Code: 94550	Country: USA
Report To (Name): D. WATTS		Telephone #: 925-371-5900	
Email Address: WATTS@GEOCON.INC.COM		Fax #: 925-371-5915	Purchase Order:
Project Name/Number: 59805-01-29		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
U.S. State Samples Taken: CA		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.

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 (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 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 >10µm <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"/> TEM Qual. via Filtration Technique <input type="checkbox"/> TEM Qual. via Drop-Mount Technique Other: <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: **D. WATTS** Samplers Signature: *[Signature]*

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
1A-E	CONCRETE (BAR, SW, OK, AB, COL)	NA	6/3/14
2A/B	Asphalt	↓	↓
3A/B	JOINT FILL MATERIAL	↓	↓

Client Sample # (s): **1A-3B** Total # of Samples: **9**

Relinquished (Client): *[Signature]* Date: **6/3/14** Time: **1600**

Received (Lab): *[Signature]* Date: **6/3/14** Time: **1600**

Comments/Special Instructions: **Contract # 03A2132**

June 11, 2014

Dave Watts
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
Tel: (925) 961-5273
Fax:(925) 371-5915

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1401641

Client Reference : ILLINOISTOWN OC, S9805-01-29

Enclosed are the results for sample(s) received on June 04, 2014 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Geocon Consultants, Inc.
6671 Brisa Street
Livermore , CA 94550

Project Number : ILLINOISTOWN OC, S9805-01-29
Report To : Dave Watts
Reported : 06/11/2014

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P1A/B	1401641-01	Paint	6/03/14 0:00	6/04/14 8:10
P2A/B	1401641-02	Paint	6/03/14 0:00	6/04/14 8:10



Certificate of Analysis

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Livermore , CA 94550

Project Number : ILLINOISTOWN OC, S9805-01-29
Report To : Dave Watts
Reported : 06/11/2014

Client Sample ID P1A/B

Lab ID: 1401641-01

Total Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	2.7	1.0	NA	1	B4F0137	06/09/2014	06/10/14 13:10	



Certificate of Analysis

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Livermore, CA 94550

Project Number : ILLINOISTOWN OC, S9805-01-29

Report To : Dave Watts

Reported : 06/11/2014

Client Sample ID P2A/B

Lab ID: 1401641-02

Total Metals by ICP-AES EPA 6010B

Analyst: CB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	32	11	NA	1	B4F0137	06/09/2014	06/10/14 13:13	

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B4F0137 - EPA 3050B

Blank (B4F0137-BLK1)				Prepared: 6/9/2014 Analyzed: 6/10/2014					
Lead	ND	1.0			NR				
LCS (B4F0137-BS1)				Prepared: 6/9/2014 Analyzed: 6/10/2014					
Lead	51.5174	1.0	50.0000		103	80 - 120			
Duplicate (B4F0137-DUP1)				Source: 1401657-01 Prepared: 6/9/2014 Analyzed: 6/10/2014					
Lead	1.98108	1.0		1.99947	NR		0.924	20	
Duplicate (B4F0137-DUP2)				Source: 1401657-01RE1 Prepared: 6/9/2014 Analyzed: 6/10/2014					
Lead	1.99133	10		2.27326	NR		13.2	20	
Matrix Spike (B4F0137-MS1)				Source: 1401657-01 Prepared: 6/9/2014 Analyzed: 6/10/2014					
Lead	107.667	1.0	125.000	1.99947	84.5	43 - 120			
Matrix Spike (B4F0137-MS2)				Source: 1401657-01RE1 Prepared: 6/9/2014 Analyzed: 6/10/2014					
Lead	126.267	10	125.000	2.27326	99.2	43 - 120			
Matrix Spike Dup (B4F0137-MSD1)				Source: 1401657-01 Prepared: 6/9/2014 Analyzed: 6/10/2014					
Lead	114.531	1.0	125.000	1.99947	90.0	43 - 120	6.18	20	
Matrix Spike Dup (B4F0137-MSD2)				Source: 1401657-01RE1 Prepared: 6/9/2014 Analyzed: 6/10/2014					
Lead	125.428	10	125.000	2.27326	98.5	43 - 120	0.667	20	



Certificate of Analysis

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Report To : Dave Watts

Reported : 06/11/2014

Notes and Definitions

ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.

