

# ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT

**STORAGE BUILDING, 245 MOWRY AVENUE  
FREMONT, CALIFORNIA**

***PREPARED FOR:***

CALIFORNIA DEPARTMENT OF TRANSPORTATION  
DISTRICT 4  
OFFICE OF ENVIRONMENTAL ENGINEERING  
111 GRAND AVENUE  
OAKLAND, CALIFORNIA



***PREPARED BY:***

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GEOCON PROJECT NO. E8721-02-23  
CALTRANS EA 04-0J9401  
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## TABLE OF CONTENTS

<b>ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT</b>		Page
REPORT LIMITATIONS.....		i
PROJECT TEAM.....		iii
EXECUTIVE SUMMARY.....		iv
1.0 INTRODUCTION .....		1
1.1 Site Description and Proposed Improvements .....		1
1.2 Purpose.....		1
2.0 BACKGROUND .....		1
2.1 Asbestos .....		1
2.2 Lead Paint .....		2
2.3 Architectural Drawings and Previous Survey Activities.....		3
3.0 SCOPE OF SERVICES .....		3
3.1 Pre-Field Activities .....		3
3.2 Field Activities.....		4
4.0 INVESTIGATIVE METHODS .....		4
4.1 Asbestos .....		4
4.2 Paint .....		4
5.0 INVESTIGATIVE RESULTS .....		5
5.1 Asbestos .....		5
5.2 Paint .....		5
6.0 CONCLUSIONS.....		6
6.1 Asbestos .....		6
6.2 Paint .....		6

### TABLES

1. Summary of Analytical Laboratory Test Results – Asbestos
2. Summary of Analytical Laboratory Test Results - Paint

### FIGURES

1. Vicinity Map
2. Site Plan

### SITE PHOTOGRAPHS (1 through 8)

### APPENDIX

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

## REPORT LIMITATIONS

This asbestos and lead-containing paint (LCP) survey was conducted in conformance with generally accepted standards of practice for identifying and evaluating asbestos and LCP in structures. Due to the nature of structure surveys, asbestos and LCP use, and laboratory analytical limitations, some asbestos or LCP in the structure may not have been identified. Structure spaces such as cavities, crawlspaces, and pipe chases may have been concealed to our investigator. Previous structure 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 asbestos with indistinguishable non-asbestos materials. Asbestos or LCP may exist in areas of the structure not accessible or sampled in conjunction with this Task Order.

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 materials 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 the State of California Department of Transportation (Caltrans) District 4. 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 authors 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.

**GEOCON CONSULTANTS, INC.**



Chris Giuntoli, CAC No. 02-3163  
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**CALIFORNIA DEPARTMENT OF TRANSPORTATION – DISTRICT 4  
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## EXECUTIVE SUMMARY

This asbestos and lead-containing paint (LCP) survey report was prepared for the storage building at the Caltrans facility located at 245 Mowry Avenue in Fremont, California. We performed an asbestos and LCP survey at the storage building. The project location is depicted on the Vicinity Map, Figure 1, and Site Plan, Figure 2. Caltrans has requested an investigation at the project location to provide data regarding the presence of asbestos and LCP prior to demolition activities.

This report documents the investigation sampling methods and laboratory analytical data. The primary objective of our survey was to determine and quantify asbestos and LCP at the project location prior to demolition activities. The information obtained from this investigation will be used by Caltrans to coordinate proposed demolition activities, determine appropriate abatement/disposal costs, and identify health and safety concerns during demolition.

The field investigation was performed on January 28, 2015. The following field activities were performed during asbestos and LCP sampling efforts:

- Collected eleven bulk samples of suspect asbestos;
- Collected five bulk sample of suspect LCP; and
- Transported samples to Caltrans-approved, California-certified environmental laboratories.

Samples were collected from locations as shown in the Site Plan (Figure 2). Suspect asbestos and LCP sample identification numbers are presented in Tables 1 and 2, respectively. Materials represented by the samples collected are presented in the Site Photographs.

Bulk suspect asbestos materials samples were collected after first wetting friable materials with a light mist of water. The samples were then cut from the substrate, transferred to labeled containers, and sealed. Five suspect asbestos materials were identified during the survey (see Table 1). Sampling locations were distributed throughout the homogeneous areas (spaces where the material was observed).

We relinquished bulk samples using standard chain-of-custody documentation for asbestos analysis. Asbestos content was determined using U.S. Environmental Protection Agency (EPA) Test Method 600/R-93/116 for polarized light microscopy (PLM). We requested laboratory analyses to be within a 48-hour turnaround.

Bulk paint sampling was performed using techniques presented in U.S. Department of Housing and Urban Development (HUD) guidelines. Five paint systems were sampled during the survey (see Table 2).

*It was not Geocon's intent during this inspection to conduct an evaluation of lead-based paint hazards in accordance with HUD guidelines.*

We relinquished our bulk paint samples using standard chain-of-custody documentation for lead analysis. Total lead content was determined using EPA Test Method 6010B. We requested laboratory analyses to be within a 48-hour turnaround.

Chrysotile asbestos at a concentration of less than (<) 0.1% was detected in a sample representing approximately 850 square feet of nonfriable stucco (skim coat layer) on the exterior walls of the storage building. The asbestos content was determined using PLM point count analysis (1,000 points). No asbestos was detected in samples of the remaining suspect materials collected during our survey. Laboratory results for the asbestos samples are summarized in Table 1. Reproductions of the laboratory report and chain-of-custody documentation are presented in Appendix A.

The sample representing intact beige exterior wall paint exhibited a representative a total lead concentration of 23 milligrams per kilogram (mg/kg). The sample representing intact brown exterior trim (roof) paint exhibited a representative a total lead concentration of 52,000 mg/kg and a soluble lead TCLP concentration of 120 milligrams per liter (mg/l). The sample representing approximately 20 square feet of deteriorated exterior green trim (doors) paint exhibited a representative a total lead concentration of 7,000 mg/kg and a soluble lead TCLP concentration of 6.0 mg/l. Lead was not detected above the laboratory reporting limit of 40 mg/kg in a sample representing intact yellow exterior (water piping) paint. The sample representing intact orange exterior (fire hydrant bollards) paint exhibited a representative a total lead concentration of 670 mg/kg, a soluble lead WET concentration of 1.7 mg/l, and a soluble lead TCLP concentration of 9.5 mg/l.

The paint sample laboratory results are summarized in Table 2. Reproductions of the lead laboratory report and chain-of-custody documentation are presented in Appendix A.

We provide the following conclusions and recommendations based on the results of our investigation.

National Emissions Standards for Hazardous Air Pollutants (NESHAP) and Bay Area Air Quality Management District (BAAQMD) regulations do not require that material containing 1% or less asbestos (i.e., stucco) identified during our asbestos survey be removed prior to demolition or treated as hazardous waste. However, the disturbance of the material is still covered by the California Department of Occupational Safety and Health Administration (Cal/OSHA) asbestos standard (Title 8, CCR Section 1529). We recommend that a licensed contractor registered with Cal/OSHA for asbestos-related work perform any activities that would disturb the material. 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.

Geocon also recommends the notification of contractors (that will be conducting renovation or related activities) of the presence of asbestos in their work areas (i.e., provide contractor[s] with a copy of this report and a list of asbestos removed during subsequent activities). Contractors not trained for asbestos work should be instructed not to disturb asbestos during their activities.

In accordance with BAAQMD Regulation 11, Rule 2, written notification is required ten working days prior to commencement of *any* demolition activity (whether asbestos is present or not).

Analysis of the paint samples collected during our survey indicated the following:

- Intact beige exterior wall paint and yellow water piping paint would not be considered a California or Federal hazardous waste based on lead content if stripped, blasted, or otherwise separated from the substrate.
- Intact brown exterior trim (roof) paint would be considered a California and Federal hazardous waste based on lead content if stripped, blasted, or otherwise separated from the substrate.
- Intact orange fire hydrant bollard paint would be considered a Federal hazardous waste based on lead content if stripped, blasted, or otherwise separated from the substrate.
- Deteriorated green exterior trim (doors) paint would be considered a California and Federal hazardous waste based on lead content.

We recommend that the deteriorated LCP at the project location that meet the criteria of either California or Federal hazardous waste be removed and disposed of prior to renovation, demolition, or other activities that would disturb the paint.

We recommend that the contractor be required to use personnel who have lead-related construction certification as supervisors or workers, as appropriate, from the California DPH for LCP removal work. Loose and peeling/flaking LCP require removal prior to demolition for waste segregation purposes: to separate potentially hazardous waste (Category III concentrated lead such as loose paint, paint sludge, vacuum debris, and vacuum filters) from non-hazardous demolition debris (Category II intact lead-painted architectural components such as doors, windows, framework, cladding, and trim). Category I waste is low lead waste (typically non-hazardous) such as construction materials, filtered wash water, and plastic sheeting. Contractors are responsible for informing the landfill of the contractor's intent to dispose of RCRA waste, California hazardous waste, and/or architectural components containing intact LCP. Some landfills and recycling facilities may require additional waste characterization. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

We recommend that all paints at the project location (i.e., signage, etc.) be treated as lead-containing for purposes 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, Section 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, Section 1532.1, subsections (e) and (l), respectively. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

# ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT

## 1.0 INTRODUCTION

This asbestos and lead-containing paint (LCP) survey report was prepared for the storage building at the Caltrans facility located at 245 Mowry Avenue in Fremont, California. This report documents the investigation sampling methods and laboratory analytical data.

### 1.1 Site Description and Proposed Improvements

The project consists of the storage building at the Caltrans facility located at 245 Mowry Avenue in Fremont, California. The project location is depicted on the Vicinity Map, Figure 1, and Site Plan, Figure 2. Caltrans has requested an investigation at the project location to provide data regarding the presence of asbestos and LCP prior to demolition activities.

### 1.2 Purpose

The primary objective of our survey was to determine and quantify asbestos and LCP at the project location prior to demolition activities. The information obtained from this investigation will be used by Caltrans to coordinate proposed demolition activities, determine appropriate abatement/disposal costs, and identify health and safety concerns during demolition.

## 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 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.

Activities that disturb materials containing *any* amount of asbestos are subject to certain requirements of the California Occupational Safety and Health Administration (Cal/OSHA) asbestos standard contained in Title 8, CCR Section 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 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).

## **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, Section 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 component. Demolition of a deteriorated LCP component would require waste characterization and appropriate disposal. Most landfills and recycling facilities accept intact LCP on a component; 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., representative lead concentrations) 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 LCP. 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 the Title 8, CCR, Section 1532.

### **2.3 Architectural Drawings and Previous Survey Activities**

Architectural plans and previous asbestos survey reports were not available for our review.

## **3.0 SCOPE OF SERVICES**

The following scope of services was performed:

### **3.1 Pre-Field Activities**

- Retained the services of EMSL, a Caltrans-approved laboratory accredited by the National Voluntary Laboratory Accreditation Program (NVLAP), to perform the asbestos analyses.
- Retained the services of Advanced Technology Laboratories, a Caltrans-approved laboratory, to perform the lead analyses.

### 3.2 Field Activities

Mr. Chris Giuntoli, a California-Certified Asbestos Consultant (CAC), certification number 02-3163 (expiration June 19, 2015), and Certified Lead Paint Inspector/Assessor with the California Department of Public Health (DPH), certification number I-5502 (expiration June 14, 2015), performed the limited asbestos and LCP survey on January 28, 2015. Eleven bulk samples of suspect asbestos materials were collected. Five bulk samples of suspect LCP were collected.

## 4.0 INVESTIGATIVE METHODS

### 4.1 Asbestos

Bulk suspect asbestos samples were collected after first wetting friable materials with a light mist of water. The samples were then cut from the substrate, transferred to labeled containers, and sealed. We observed five suspect asbestos materials during the survey (see Table 1). Sampling locations were distributed throughout the homogeneous areas (spaces where the material was observed).

We relinquished bulk samples for asbestos analysis using standard chain-of-custody documentation. Asbestos content was determined using EPA Test Method 600/R-93/116 for polarized light microscopy (PLM). We requested laboratory analyses to be within a 48-hour turnaround.

### 4.2 Paint

The bulk paint samples were collected using techniques presented in U.S. Department of Housing and Urban Development (HUD) guidelines. Two paint systems were sampled during the survey (see Table 2).

*It was not Geocon's intent during this inspection to conduct an evaluation of lead-based paint hazards in accordance with HUD guidelines.*

We relinquished the bulk paint samples for lead analysis using standard chain-of-custody documentation. Total lead content was determined using EPA Test Method 6010B. We requested laboratory analyses to be within a 48-hour turnaround.

## 5.0 INVESTIGATIVE RESULTS

### 5.1 Asbestos

Chrysotile asbestos at a concentration of less than (<) 0.1% was detected in a sample representing approximately 850 square feet of nonfriable stucco (skim coat layer) on the exterior walls of the storage building. The asbestos content was determined using PLM point count analysis (1,000 points).

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

### 5.2 Paint

The sample representing intact beige exterior wall paint exhibited a representative a total lead concentration of 23 milligrams per kilogram (mg/kg).

The sample representing intact brown exterior trim (roof) paint exhibited a representative a total lead concentration of 52,000 mg/kg and a soluble lead TCLP concentration of 120 milligrams per liter (mg/l).

The sample representing approximately 20 square feet of deteriorated exterior green trim (doors) paint exhibited a representative a total lead concentration of 7,000 mg/kg and a soluble lead TCLP concentration of 6.0 mg/l.

Lead was not detected above the laboratory reporting limit of 40 mg/kg in a sample representing intact yellow exterior (water piping) paint.

The sample representing intact orange exterior (fire hydrant bollards) paint exhibited a representative a total lead concentration of 670 mg/kg, a soluble lead WET concentration of 1.7 mg/l, and a soluble lead TCLP concentration of 9.5 mg/l.

The paint sample laboratory results are summarized in Table 2. Reproductions of the lead laboratory report and chain-of-custody documentation are presented in Appendix A.

## 6.0 CONCLUSIONS

### 6.1 Asbestos

NESHAP and Bay Area Air Quality Management District (BAAQMD) regulations do not require that material containing 1% or less asbestos (i.e., stucco) identified during our asbestos survey be removed prior to demolition or treated as hazardous waste. However, the disturbance of the material is still covered by the Cal/OSHA asbestos standard (Title 8, CCR Section 1529). We recommend that a licensed contractor registered with Cal/OSHA for asbestos-related work perform any activities that would disturb the material. 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.

Geocon also recommends the notification of contractors (that will be conducting renovation or related activities) of the presence of asbestos in their work areas (i.e., provide contractor[s] with a copy of this report and a list of asbestos removed during subsequent activities). Contractors not trained for asbestos work should be instructed not to disturb asbestos during their activities.

In accordance with BAAQMD Regulation 11, Rule 2, written notification is required ten working days prior to commencement of *any* demolition activity (whether asbestos is present or not).

### 6.2 Paint

Analysis of the paint samples collected during our survey indicated the following:

- Intact beige exterior wall paint and yellow water piping paint would not be considered a California or Federal hazardous waste based on lead content if stripped, blasted, or otherwise separated from the substrate.
- Intact brown exterior trim (roof) paint would be considered a California and Federal hazardous waste based on lead content if stripped, blasted, or otherwise separated from the substrate.
- Intact orange fire hydrant bollard paint would be considered a Federal hazardous waste based on lead content if stripped, blasted, or otherwise separated from the substrate.
- Deteriorated green exterior trim (doors) paint would be considered a California and Federal hazardous waste based on lead content.

We recommend that the deteriorated LCP at the project location that meet the criteria of either California or Federal hazardous waste be removed and disposed of prior to renovation, demolition, or other activities that would disturb the paint.

We recommend that the contractor be required to use personnel who have lead-related construction certification as supervisors or workers, as appropriate, from the California DPH for LCP removal work. Loose and peeling/flaking LCP require removal prior to demolition for waste segregation purposes: to

separate potentially hazardous waste (Category III concentrated lead such as loose paint, paint sludge, vacuum debris, and vacuum filters) from non-hazardous demolition debris (Category II intact lead-painted architectural components such as doors, windows, framework, cladding, and trim). Category I waste is low lead waste (typically non-hazardous) such as construction materials, filtered wash water, and plastic sheeting. Contractors are responsible for informing the landfill of the contractor's intent to dispose of RCRA waste, California hazardous waste, and/or architectural components containing intact LCP. Some landfills and recycling facilities may require additional waste characterization. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

We recommend that all paints at the project location (i.e., signage, etc.) be treated as lead-containing for purposes 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, Section 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, Section 1532.1, subsections (e) and (l), respectively. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

**TABLE 1**  
**SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS - ASBESTOS**  
**STORAGE BUILDING**  
**245 MOWRY AVENUE**  
**FREMONT, ALAMEDA COUNTY, 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>
245-1	Roof core	Roof	NA	NA	1, 2, 4, and 7	ND
245-2	Vapor barrier	Interior walls	NA	NA	3 and 5	ND
245-3	Concrete	Storage building foundation	NA	NA	3	ND
<b>245-4</b>	<b>Stucco (skim coat layer)</b>	<b>Exterior walls</b>	<b>850 square feet</b>	<b>No</b>	<b>1, 2 and 7</b>	<b>&lt;0.1%*</b>
245-5	Concrete	Light poll base	NA	NA	6	ND

Notes:

NA = Not applicable

ND = No asbestos fibers detected

< = Less than

\* = Asbestos detected using PLM Point Count Methodology (1,000 points)

**TABLE 2**  
**SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS - PAINT**  
**STORAGE BUILDING**  
**245 MOWRY AVENUE**  
**FREMONT, ALAMEDA COUNTY, CALIFORNIA**

**Total and Soluble Lead**

<b>Sample ID</b>	<b>Paint Description</b>	<b>Location</b>	<b>Approximate Quantity Peeling &amp; Flaking</b>	<b>Site Photo</b>	<b>Total Lead (mg/kg)</b>	<b>WET Lead (mg/l)</b>	<b>TCLP Lead (mg/l)</b>
245-P1	Beige paint	Exterior walls	Intact	1, 2, 7 and 8	23	---	---
245-P2	Brown paint	Exterior trim (roof)	Intact	1, 2 and 7	52,000	---	120
245-P3	Green paint	Exterior trim (doors)	20 square feet	1 and 7	7,000	---	6.0
245-P4	Yellow paint	Water pipe	Intact	2	<40	---	---
245-P5	Orange paint	Fire hydrant bollards	Intact	1 and 8	670	1.7	9.5

Notes:

mg/kg = milligrams per kilogram

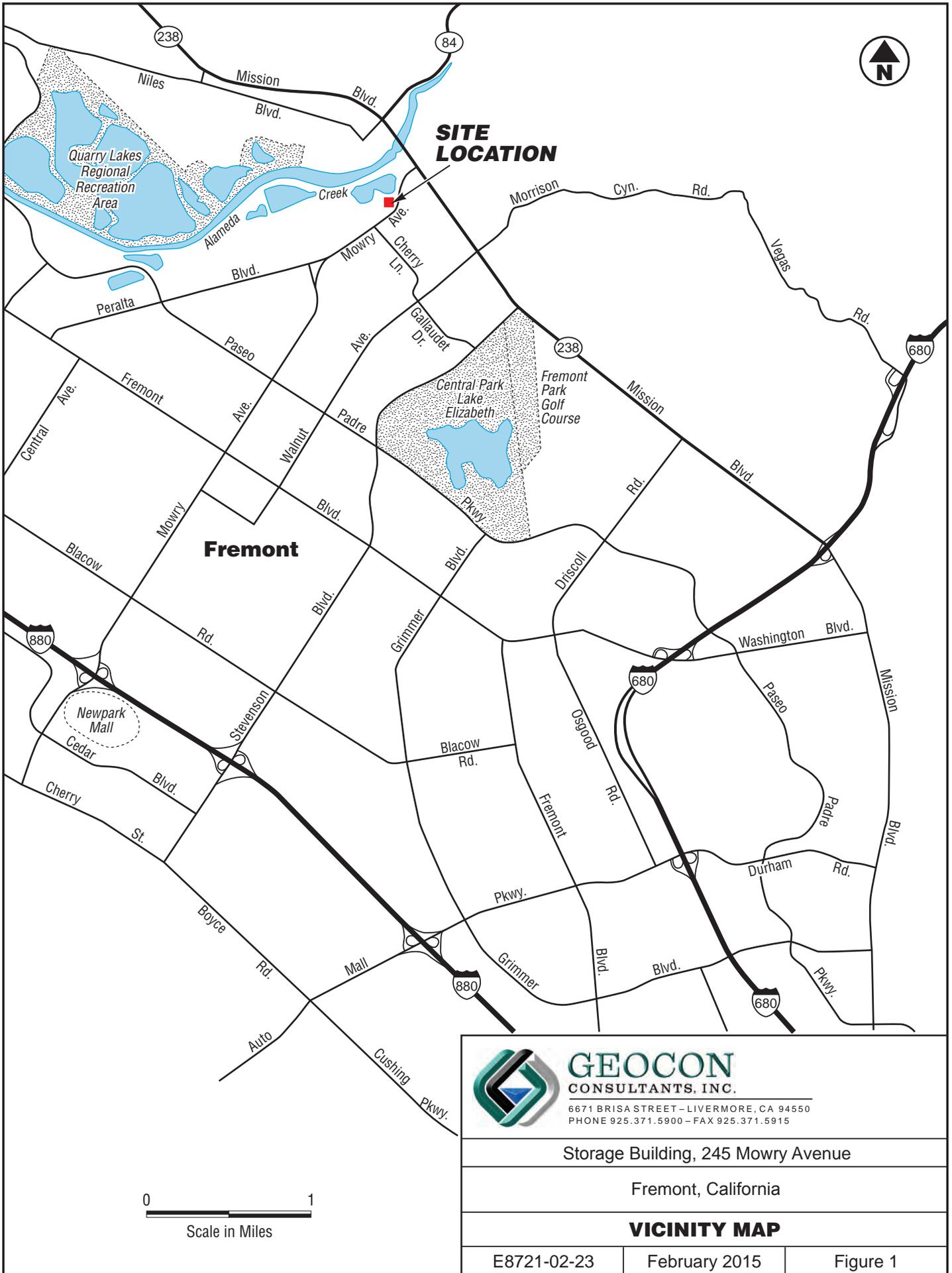
WET = Waste Extraction Test

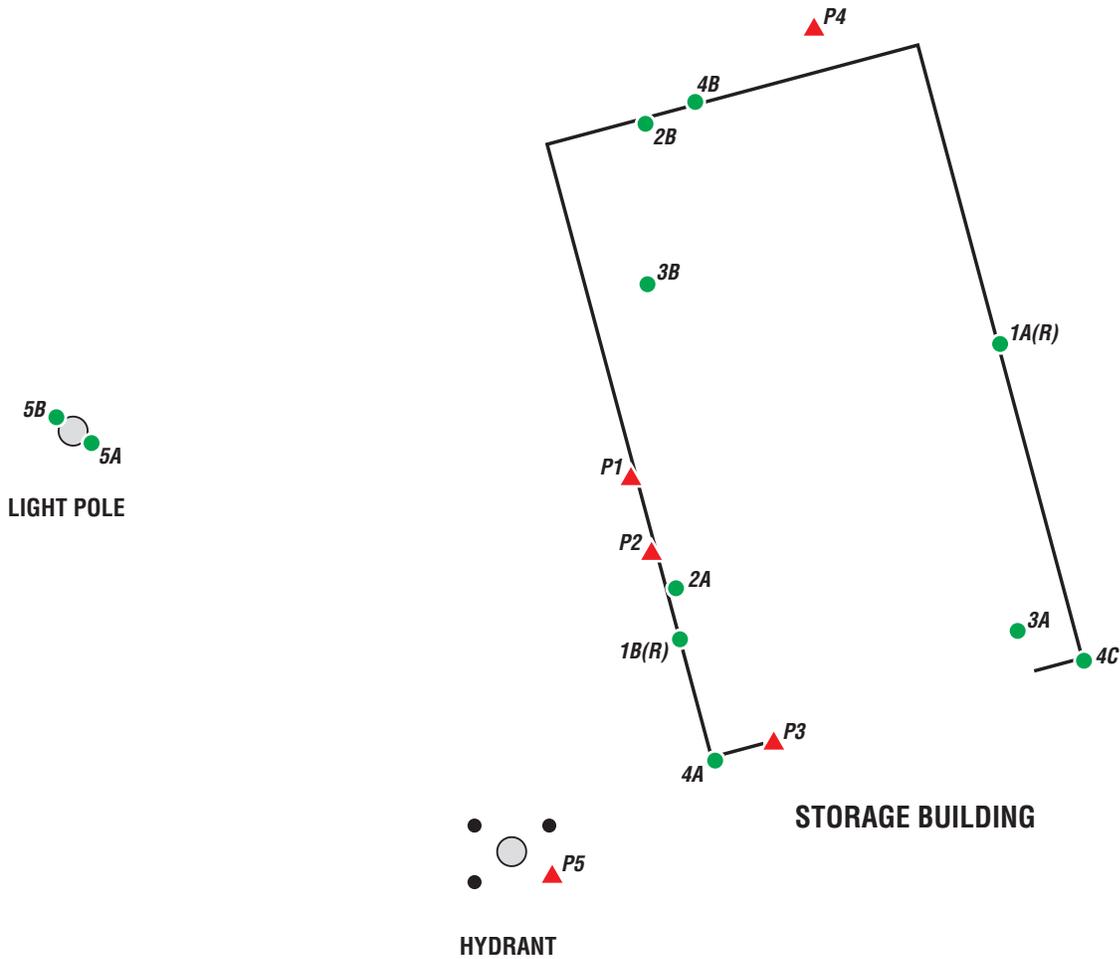
TCLP = Toxicity Characteristic Leaching Procedure

mg/l = milligrams per liter

--- = Not analyzed

< = Not detected at a concentration exceeding the reporting limit





LIGHT POLE

STORAGE BUILDING

HYDRANT

LEGEND:

- Approximate Asbestos Sample Location
- ▲ Approximate Paint Sample Location
- (R) Roof



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Storage Building, 245 Mowry Avenue

Fremont, California

**SITE PLAN**

E8721-02-23

February 2015

Figure 2



**Photo 1 – Front of the storage building, 245 Mowry Avenue, Fremont, California**



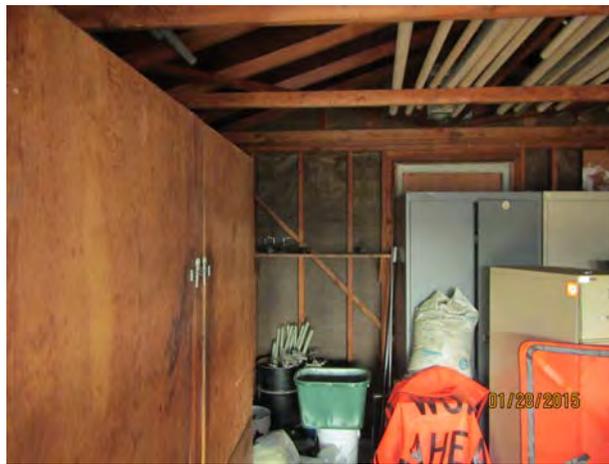
**Photo 2 – Rear of the storage building**



**Photo 3 – Storage building interior**



**Photo 4 – Storage building roof**



**Photo 5 –Storage building interior walls and ceiling**



**Photo 6 – Adjacent lamp post/concrete base**



**GEOCON**  
CONSULTANTS, INC.

6671 BRISA STREET – LIVERMORE, CA 94550  
PHONE 925.371.5900 – FAX 925.371.5915

**PHOTOGRAPHS 4, 5, & 6**

245 Mowry Avenue (Storage Building)  
Fremont, California

E8721-02-23

Task Order No. 23

February 2015



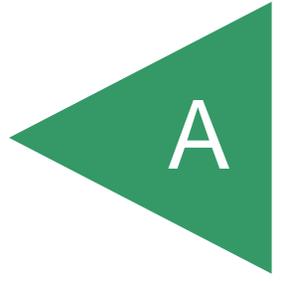
**Photo 7 – Exterior wall and trim (brown roof and green door) paint of the storage building**



**Photo 8 – Adjacent fire hydrant and bollards**

APPENDIX

A





# EMSL Analytical, Inc

464 McCormic Street, San Leandro, CA 94577

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

<http://www.EMSL.com>

[sanleandrolab@emsl.com](mailto:sanleandrolab@emsl.com)

EMSL Order:	091501349
CustomerID:	GECN21
CustomerPO:	E8721-02-23
ProjectID:	

Attn: <b>Chris Giuntoli</b> <b>Geocon Consultants, Inc.</b> <b>6671 Brisa Street</b> <b>Livermore, CA 94550</b>	Phone: (925) 371-5900 Fax: (925) 371-5915 Received: 01/28/15 11:00 AM Analysis Date: 1/29/2015 Collected: 1/28/2015
Project: <b>6671 BRISA ST LIVERMORE CA E8721-02-23</b>	

## 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
245-1A-Shingle 1 <i>091501349-0001</i>		Tan/Black/Orange Fibrous Homogeneous	20% Glass	60% Matrix 20% Non-fibrous (other)	None Detected
245-1A-Mastic <i>091501349-0001A</i>		Black Non-Fibrous Homogeneous		90% Matrix 10% Non-fibrous (other)	None Detected
245-1A-Shingle 2 <i>091501349-0001B</i>		Brown/Black Non-Fibrous Homogeneous	20% Glass	60% Matrix 20% Non-fibrous (other)	None Detected
245-1A-Felt <i>091501349-0001C</i>		Black Fibrous Homogeneous	40% Cellulose	50% Matrix 10% Non-fibrous (other)	None Detected
245-1B-Shingle 1 <i>091501349-0002</i>		Tan/Black/Orange Non-Fibrous Homogeneous	20% Glass	60% Matrix 20% Non-fibrous (other)	None Detected
245-1B-Mastic <i>091501349-0002A</i>		Black Non-Fibrous Homogeneous		90% Matrix 10% Non-fibrous (other)	None Detected
245-1B-Shingle 2 <i>091501349-0002B</i>		Brown/Black Non-Fibrous Homogeneous	20% Glass	60% Matrix 20% Non-fibrous (other)	None Detected
245-1B-Felt <i>091501349-0002C</i>		Black Fibrous Homogeneous	40% Cellulose	50% Matrix 10% Non-fibrous (other)	None Detected

Analyst(s)  
Matthew Batongbatal (21)

  
Chris Dojlidko, Laboratory Manager  
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%  
Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, WA C884

Initial report from 01/29/2015 18:51:34



# EMSL Analytical, Inc

464 McCormic Street, San Leandro, CA 94577

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

<http://www.EMSL.com>

[sanleandrolab@emsl.com](mailto:sanleandrolab@emsl.com)

EMSL Order:	091501349
CustomerID:	GECN21
CustomerPO:	E8721-02-23
ProjectID:	

Attn: <b>Chris Giuntoli</b> <b>Geocon Consultants, Inc.</b> <b>6671 Brisa Street</b> <b>Livermore, CA 94550</b>	Phone: (925) 371-5900 Fax: (925) 371-5915 Received: 01/28/15 11:00 AM Analysis Date: 1/29/2015 Collected: 1/28/2015
Project: <b>6671 BRISA ST LIVERMORE CA E8721-02-23</b>	

## 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
245-2A-Vapor Barrier <i>091501349-0003</i>		Brown/Black Fibrous  Homogeneous	30% Cellulose	50% Matrix 20% Non-fibrous (other)	None Detected
245-2B-Vapor Barrier <i>091501349-0004</i>		Brown/Black Fibrous  Homogeneous	30% Cellulose 5% Glass	50% Matrix 15% Non-fibrous (other)	None Detected
245-3A-Concrete <i>091501349-0005</i>		Tan Non-Fibrous Homogeneous		20% Quartz 15% Ca Carbonate 65% Non-fibrous (other)	None Detected
245-3B-Concrete <i>091501349-0006</i>		Tan Non-Fibrous Homogeneous		20% Quartz 15% Ca Carbonate 65% Non-fibrous (other)	None Detected
245-4A-Stucco <i>091501349-0007</i>		Gray Non-Fibrous Homogeneous		30% Quartz 10% Ca Carbonate 60% Non-fibrous (other)	None Detected
245-4A-Skim Coat <i>091501349-0007A</i>		White Non-Fibrous Homogeneous		15% Quartz 20% Ca Carbonate 65% Non-fibrous (other)	None Detected
245-4B-Stucco <i>091501349-0008</i>		Gray Non-Fibrous Homogeneous		30% Quartz 10% Ca Carbonate 60% Non-fibrous (other)	None Detected

Analyst(s)  
Matthew Batongbacal (21)

  
Chris Dojlidko, Laboratory Manager  
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%  
Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, WA C884

Initial report from 01/29/2015 18:51:34



# EMSL Analytical, Inc

464 McCormic Street, San Leandro, CA 94577

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

<http://www.EMSL.com>

[sanleandrolab@emsl.com](mailto:sanleandrolab@emsl.com)

EMSL Order:	091501349
CustomerID:	GECN21
CustomerPO:	E8721-02-23
ProjectID:	

Attn: **Chris Giuntoli**  
**Geocon Consultants, Inc.**  
**6671 Brisa Street**  
**Livermore, CA 94550**

Phone: (925) 371-5900  
 Fax: (925) 371-5915  
 Received: 01/28/15 11:00 AM  
 Analysis Date: 1/29/2015  
 Collected: 1/28/2015

Project: **6671 BRISA ST LIVERMORE CA E8721-02-23**

## 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
245-4B-Skim Coat <i>091501349-0008A</i>		White Non-Fibrous Homogeneous		10% Quartz 20% Ca Carbonate 70% Non-fibrous (other)	None Detected
245-4C-Stucco <i>091501349-0009</i>		Gray Non-Fibrous Homogeneous		30% Quartz 10% Ca Carbonate 60% Non-fibrous (other)	None Detected
245-4C-Skim Coat 1 <i>091501349-0009A</i>		White Non-Fibrous Homogeneous		10% Quartz 20% Ca Carbonate 70% Non-fibrous (other)	None Detected
245-4C-Skim Coat 2 <i>091501349-0009B</i>		Tan Non-Fibrous Homogeneous		15% Quartz 30% Ca Carbonate 55% Non-fibrous (other)	<1% Chrysotile
245-5A-Concrete <i>091501349-0010</i>		Tan Non-Fibrous Homogeneous		15% Quartz 35% Ca Carbonate 50% Non-fibrous (other)	None Detected
245-5B-Concrete <i>091501349-0011</i>		Tan Non-Fibrous Homogeneous		15% Quartz 35% Ca Carbonate 50% Non-fibrous (other)	None Detected

Analyst(s)  
 \_\_\_\_\_  
 Matthew Batongbacal (21)

Chris Dojlidko, Laboratory Manager  
 or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%  
 Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, WA C884

Initial report from 01/29/2015 18:51:34

**EMSL Analytical, Inc**

464 McCormick Street, San Leandro, CA 94577

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

<http://www.EMSL.com>[sanleandrolab@emsl.com](mailto:sanleandrolab@emsl.com)

EMSL Order: 091501349

CustomerID: GECN21

CustomerPO: E8721-02-23

ProjectID:

Attn: **Chris Giuntoli**  
**Geocon Consultants, Inc.**  
**6671 Brisa Street**  
**Livermore, CA 94550**

Phone: (925) 371-5900  
 Fax: (925) 371-5915  
 Received: 01/28/15 11:00 AM  
 Analysis Date: 1/30/2015  
 Collected: 1/28/2015

Project: 6671 BRISA ST LIVERMORE CA E8721-02-23

## Test Report: Asbestos Analysis of Bulk Material via EPA 600/R-93/116. Quantitation using the 1,000 Point Count Procedure

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
245-4C-Skim Coat 2 091501349-0009B		Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.1% Chrysotile

Analyst(s)

Adam C. Fink (1)

Chris Dojlidko, Laboratory Manager  
or other approved signatory

Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.1%. EMSL Analytical Inc suggests that samples reported as <0.1% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc. bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

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

Initial report from 01/30/2015 20:54:57



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

### Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

**091501349**

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077

PHONE: (800) 220-3675  
FAX: (856) 786-5974

Company: <b>GECON</b>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: <b>6671 BRISA ST</b>		Third Party Billing requires written authorization from third party	
City: <b>LIVERMORE</b>	State/Province: <b>CA</b>	Zip/Postal Code: <b>94550</b>	Country: <b>US</b>
Report To (Name): <b>CHRIS GIUNTOLI</b>		Telephone #: <b>775-685-6116</b>	
Email Address: <b>GIUNTOLI@GECONING.COM</b>		Fax #:	Purchase Order:
Project Name/Number: <b>E8721-02-23</b>		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail	
U.S. State Samples Taken: <b>CA</b>		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>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 - 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>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 - 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: EPA 100.2</b> Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	<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: **CHRIS GIUNTOLI**      Samplers Signature: *Chris Giuntoli*

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
245-1A/1B	ROOF CORE		1/28/15
245-2A/2B	VAPOR BARRIER		↓
245-3A/3B	CONCRETE		
245-4A-4C	STUCCO		
245-5A/5B	CONCRETE		

Client Sample # (s): \_\_\_\_\_ Total # of Samples: **11**

Relinquished (Client): *Chris Giuntoli* Date: **1/28/15** Time: **1057**

Received (Lab): **Z.A** Date: **1/28/15** Time: **11am**

Comments/Special Instructions: **(W1)**

February 02, 2015

Chris Giuntoli  
Geocon Consultants, Inc.  
6671 Brisa Street  
Livermore, CA 94550  
Tel: (925) 961-5274  
Fax:(925) 371-5915

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

Re: ATL Work Order Number : 1500378  
Client Reference : 245 MOWRY AVE, E8721-02-23

Enclosed are the results for sample(s) received on January 29, 2015 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 : 245 MOWRY AVE, E8721-02-23  
Report To : Chris Giuntoli  
Reported : 02/02/2015

### SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
245-P1	1500378-01	Paint Chip	1/28/15 0:00	1/29/15 10:10
245-P2	1500378-02	Paint Chip	1/28/15 0:00	1/29/15 10:10
245-P3	1500378-03	Paint Chip	1/28/15 0:00	1/29/15 10:10
245-P4	1500378-04	Paint Chip	1/28/15 0:00	1/29/15 10:10
245-P5	1500378-05	Paint Chip	1/28/15 0:00	1/29/15 10:10



## Certificate of Analysis

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

Project Number : 245 MOWRY AVE, E8721-02-23  
Report To : Chris Giuntoli  
Reported : 02/02/2015

**Client Sample ID 245-P1**

**Lab ID: 1500378-01**

### Total Metals by ICP-AES EPA 6010B

**Analyst: RR**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	23	4.0	2	B5A0795	01/30/2015	01/30/15 18:30	D2



## Certificate of Analysis

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

Project Number : 245 MOWRY AVE, E8721-02-23  
Report To : Chris Giuntoli  
Reported : 02/02/2015

**Client Sample ID 245-P2**

**Lab ID: 1500378-02**

### Total Metals by ICP-AES EPA 6010B

**Analyst: RR**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	52000	100	50	B5A0795	01/30/2015	01/30/15 18:14	D6



## Certificate of Analysis

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

Project Number : 245 MOWRY AVE, E8721-02-23  
Report To : Chris Giuntoli  
Reported : 02/02/2015

**Client Sample ID 245-P3**

**Lab ID: 1500378-03**

**Total Metals by ICP-AES EPA 6010B**

**Analyst: RR**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	7000	100	50	B5A0795	01/30/2015	01/30/15 18:16	D6



## Certificate of Analysis

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

Project Number : 245 MOWRY AVE, E8721-02-23  
Report To : Chris Giuntoli  
Reported : 02/02/2015

**Client Sample ID 245-P4**

**Lab ID: 1500378-04**

### Total Metals by ICP-AES EPA 6010B

**Analyst: RR**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	40	20	B5A0795	01/30/2015	01/30/15 18:33	D2



## Certificate of Analysis

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

Project Number : 245 MOWRY AVE, E8721-02-23

Report To : Chris Giuntoli

Reported : 02/02/2015

**Client Sample ID 245-P5**

**Lab ID: 1500378-05**

**Total Metals by ICP-AES EPA 6010B**

**Analyst: RR**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	670	100	50	B5A0795	01/30/2015	01/30/15 18:24	D6

### 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	% Rec Limits	RPD RPD	RPD Limit	Notes
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**Batch B5A0795 - EPA 3050B\_S**

**Blank (B5A0795-BLK1)**

Prepared: 1/30/2015 Analyzed: 1/30/2015

Lead	ND	1.0		NR					
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**LCS (B5A0795-BS1)**

Prepared: 1/30/2015 Analyzed: 1/30/2015

Lead	46.3879	1.0	50.0000	92.8	80 - 120				
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**Duplicate (B5A0795-DUP1)**

**Source: 1500322-01**

Prepared: 1/30/2015 Analyzed: 1/30/2015

Lead	281.918	1.0		279.662	NR	0.803	20		
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**Matrix Spike (B5A0795-MS1)**

**Source: 1500322-01**

Prepared: 1/30/2015 Analyzed: 1/30/2015

Lead	384.506	1.0	125.000	279.662	83.9	33 - 134			
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**Matrix Spike Dup (B5A0795-MSD1)**

**Source: 1500322-01**

Prepared: 1/30/2015 Analyzed: 1/30/2015

Lead	311.134	1.0	125.000	279.662	25.2	33 - 134	21.1	20	M1, R
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## Certificate of Analysis

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

Project Number : 245 MOWRY AVE, E8721-02-23  
Report To : Chris Giuntoli  
Reported : 02/02/2015

### Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
D6	Sample required dilution due to high concentration of target analyte.
D2	Sample required dilution due to high concentration of non-target analyte.
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.

# CHAIN OF CUSTODY RECORD

Pg 1 of 1

**ADVANCED TECHNOLOGY LABORATORIES**  
 3275 Walnut Ave., Signal Hill, CA 90755  
 Tel: (562) 989-4045 • Fax: (562) 989-4040

**Client: Geocon Consultants, Inc.**  
**Attn: CHRIS GIUNTOLO**

Address: 6671 Brisa Street  
 City: Livemore State: CA Zip Code: 94550  
 TEL: (925) 371-5900  
 FAX: (925) 371-5915

Project #: **EB721-02-23** Sampler: **CHRIS GIUNTOLO**

Relinquished by: **CHRIS GIUNTOLO** Date: **1/28/15** Time: **1700**  
 Relinquished by: (Signature and Printed Name) Received by: (Signature and Printed Name) Date: **1/28/15** Time: **10:10**

Relinquished by: (Signature and Printed Name) Received by: (Signature and Printed Name) Date: \_\_\_\_\_ Time: \_\_\_\_\_

I hereby authorize ATL to perform the work indicated below:  
 Project Mgr (Submitter): **Chris** Date: **1/28/15**  
 Print Name: \_\_\_\_\_ Signature: \_\_\_\_\_

Send Report To: **SEE ABOVE**  
 Attn: **SAME**  
 Co: \_\_\_\_\_  
 Addr: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Special Instructions/Comments:  
**\* SOLUBLE LEAD MAY BE REQUESTED BASED ON TOTAL LEAD RESULTS**  
**48-HR TAT**

**Sample/Records - Archival & Disposal**  
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.  
**Storage Fees (applies when storage is requested):**  
 • Sample : \$2.00 / sample / mo (after 45 days)  
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY:	Sample Description	Date	Time
Batch #:			
Lab No.			
1500374 - 01	245-P1	1/28/15	
- 2	245-P2		
- 3	245-P3		
- 4	245-P4		
- 5	245-P5		

Circle or Add Analysis(es) Requested	City	State	Zip
808A (Pesticides)			
8280B (PCB)			
8270C (BNA)			
8010B (Total Metal)			
8015B (GRO) / 8021 (BTEX)			
8015B (DRO)			
TITLE 22 / CAM 17 (6010 / 7000)			
TOTAL LEAD *			

SPECIFY APPROPRIATE MATRIX	Container(s)		TAT	Type	PRESERVATION	QA/QC
	#	Type				
SEDIMENT						RTNE <input type="checkbox"/> CT <input checked="" type="checkbox"/> Legal <input type="checkbox"/> SWRCB <input type="checkbox"/> Logcode <input type="checkbox"/> OTHER <input type="checkbox"/>
SOIL						REMARKS
DRINKING WATER						
GROUND WATER						
WASTEWATER						
STORMWATER						
AQUEOUS						
PAINT CHIP						

## FOR LABORATORY USE ONLY:

Method of Transport  
 Client  ATL  
 FedEx  OnTrac  
 GSO  
 Other: \_\_\_\_\_

Sample Condition Upon Receipt  
 1. CHILLED Y  N  4. CUSTODY SEAL Y  N   
 2. HEADSPACE (VOA) Y  N  5. # OF SPLS MATCH COC Y  N   
 3. CONTAINER INTACT Y  N  6. PRESERVED Y  N

Quote #: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 NOTE: Please include your Quote No. to ensure proper pricing of your project.

Preservatives:  
 H=HCl N=HNO<sub>3</sub> S=H<sub>2</sub>SO<sub>4</sub> C=4°C  
 Z=Zn(AC)<sub>2</sub> O=NaOH T=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Tedlar G=Glass P=Plastic M=Metal

TAT:  A= Overnight ≤ 24 hrs  B= Emergency Next workday  C= Critical 2 Workdays  D= Urgent 3 Workdays  E= Routine 7 Workdays

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

February 06, 2015

Chris Giuntoli  
Geocon Consultants, Inc.  
6671 Brisa Street  
Livermore, CA 94550  
Tel: (925) 961-5274  
Fax: (925) 371-5915

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

Re: ATL Work Order Number : 1500378  
Client Reference : 245 MOWRY AVE, E8721-02-23

Enclosed are the results for sample(s) received on January 29, 2015 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 : 245 MOWRY AVE, E8721-02-23  
Report To : Chris Giuntoli  
Reported : 02/06/2015

### SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
245-P2	1500378-02	Paint Chip	1/28/15 0:00	1/29/15 10:10
245-P3	1500378-03	Paint Chip	1/28/15 0:00	1/29/15 10:10
245-P5	1500378-05	Paint Chip	1/28/15 0:00	1/29/15 10:10



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Livermore , CA 94550

Project Number : 245 MOWRY AVE, E8721-02-23  
Report To : Chris Giuntoli  
Reported : 02/06/2015

**Client Sample ID 245-P2**

**Lab ID: 1500378-02**

**TCLP Metals by ICP-AES EPA 6010B**

**Analyst: RR**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	120	0.50	10	B5B0182	02/06/2015	02/06/15 14:21	D6



## Certificate of Analysis

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Livermore, CA 94550

Project Number : 245 MOWRY AVE, E8721-02-23  
Report To : Chris Giuntoli  
Reported : 02/06/2015

**Client Sample ID 245-P3**

**Lab ID: 1500378-03**

**TCLP Metals by ICP-AES EPA 6010B**

**Analyst: RR**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	6.0	0.050	1	B5B0182	02/06/2015	02/06/15 13:29	



### Certificate of Analysis

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Livermore , CA 94550

Project Number : 245 MOWRY AVE, E8721-02-23  
Report To : Chris Giuntoli  
Reported : 02/06/2015

**Client Sample ID 245-P5**

**Lab ID: 1500378-05**

**TCLP Metals by ICP-AES EPA 6010B**

**Analyst: RR**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	9.5	0.12	1	B5B0182	02/06/2015	02/06/15 13:31	

**STLC Metals by ICP-AES by EPA 6010B**

**Analyst: RR**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	1.7	1.0	20	B5B0152	02/05/2015	02/06/15 12:01	



## Certificate of Analysis

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 6671 Brisa Street  
 Livermore, CA 94550

Project Number : 245 MOWRY AVE, E8721-02-23

Report To : Chris Giuntoli

Reported : 02/06/2015

### QUALITY CONTROL SECTION

#### TCLP Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Batch B5B0182 - EPA 3010A_S</b>									
<b>Blank (B5B0182-BLK1)</b>				Prepared: 2/6/2015 Analyzed: 2/6/2015					
Lead	ND	0.050			NR				
<b>LCS (B5B0182-BS1)</b>				Prepared: 2/6/2015 Analyzed: 2/6/2015					
Lead	0.971674	0.050	1.00000		97.2	80 - 120			
<b>Duplicate (B5B0182-DUP1)</b>				<b>Source: 1402948-08</b> Prepared: 2/6/2015 Analyzed: 2/6/2015					
Lead	0.002467	0.050		0.002741	NR		10.5	20	
<b>Matrix Spike (B5B0182-MS1)</b>				<b>Source: 1402948-08</b> Prepared: 2/6/2015 Analyzed: 2/6/2015					
Lead	2.31598	0.050	2.50000	0.002741	92.5	77 - 121			
<b>Matrix Spike Dup (B5B0182-MSD1)</b>				<b>Source: 1402948-08</b> Prepared: 2/6/2015 Analyzed: 2/6/2015					
Lead	2.18934	0.050	2.50000	0.002741	87.5	77 - 121	5.62	20	



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### STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Batch B5B0152 - STLC_S Extraction</b>									
<b>Blank (B5B0152-BLK1)</b>				Prepared: 2/5/2015 Analyzed: 2/6/2015					
Lead	ND	1.0			NR				
<b>Blank (B5B0152-BLK2)</b>				Prepared: 2/5/2015 Analyzed: 2/6/2015					
Lead	ND	1.0			NR				
<b>LCS (B5B0152-BS1)</b>				Prepared: 2/5/2015 Analyzed: 2/6/2015					
Lead	1.84981		2.00000		92.5	80 - 120			
<b>Duplicate (B5B0152-DUP1)</b>				Source: 1500299-22 Prepared: 2/5/2015 Analyzed: 2/6/2015					
Lead	0.105684	1.0		0.123370	NR		15.4	20	
<b>Duplicate (B5B0152-DUP2)</b>				Source: 1500299-15 Prepared: 2/5/2015 Analyzed: 2/6/2015					
Lead	ND	1.0		0.068054	NR			20	
<b>Matrix Spike (B5B0152-MS1)</b>				Source: 1500299-22 Prepared: 2/5/2015 Analyzed: 2/6/2015					
Lead	2.32998		2.50000	0.123370	88.3	44 - 130			
<b>Matrix Spike (B5B0152-MS2)</b>				Source: 1500299-15 Prepared: 2/5/2015 Analyzed: 2/6/2015					
Lead	2.24086		2.50000	0.068054	86.9	44 - 130			
<b>Matrix Spike Dup (B5B0152-MSD1)</b>				Source: 1500299-22 Prepared: 2/5/2015 Analyzed: 2/6/2015					
Lead	2.53020		2.50000	0.123370	96.3	44 - 130	8.24	20	



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Project Number : 245 MOWRY AVE, E8721-02-23  
Report To : Chris Giuntoli  
Reported : 02/06/2015

### Notes and Definitions

D6	Sample required dilution due to high concentration of target analyte.
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.