INFORMATION HANDOUT

For Contract No. 08-0R9604
At Paradise Valley Maintenance Station in San Bernardino County

Identified by
Project ID 0812000223

ASBESTOS AND DETERIORATED LEAD-CONTAINING PAINT SURVAY REPORT

Project No. T2570-22-03
April 22, 2014

Mr. Michael Ristic, P.E.
Department of Transportation
464 W. Fourth Street, 6th floor, MS 1104
San Bernardino, California 92401

Subject: ASBESTOS AND DETERIORATED LEAD-CONTAINING PAINT SURVEY REPORT
CALTRANS MAINTENANCE YARD
6690 LA CONTENA ROAD
YUCCA VALLEY, CALIFORNIA

Dear Mr. Ristic:

In accordance with your request, we have performed an asbestos and deteriorated lead-containing paint (LCP) survey of the Caltrans maintenance yard at 6690 La Contena Road, Yucca Valley, California. Our scope of services included surveying areas at the subject site for suspect asbestos-containing materials and deteriorated LCP, collecting bulk samples, and submitting the samples to laboratories for analyses.

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

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

Sincerely,

GEOCON WEST, INC.

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

(2) Addressee

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ASBESTOS AND DETERIORATED LEAD-CONTAINING PAINT SURVEY REPORT

ASBESTOS AND DETERIORATED LEAD-CONTAINING PAINT SURVEY REPORT

1.0 INTRODUCTION

1.1 Site Description

The Site consists of an existing California Department of Transportation (Caltrans) maintenance yard located at 6690 La Contena Road, Yucca Valley, California. The approximate site location is depicted on the Vicinity Map, Figure 1, and Sample Location Map, Figure 2.

1.2 Objectives

The objectives of our scope of services were to assess the potential presence and quantity of asbestos and deteriorated lead-containing paint (LCP) at the Site prior to planned demolition activities of the water tank, emulsion tank, water pump shed, and aboveground diesel tank. 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 <u>not</u> Geocon's intent during this inspection to conduct an evaluation of lead-based paint hazards in accordance with United States 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 *more than* 1% asbestos. Nonfriable ACM is classified by NESHAP as either Category I or Category II material defined as follows:

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

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

- Friable; or
- Category I material that has become friable; or

- Category I material that has been subjected to sanding grinding, cutting or abrading; or

- Category II non-friable material that has a high probability of becoming crumbled, pulverized, or Activities that disturb materials containing *any* amount of asbestos are subject to certain requirements of the Cal/OSHA asbestos standard contained in Title 8, California Code of Regulations (CCR) 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 or renovation operations) must be removed from buildings prior to demolition or renovation. Certain nonfriable ACM and materials containing 1% or less asbestos may remain in buildings during demolition; however, there are waste handling/disposal issues and Cal/OSHA work requirements that must be followed. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

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

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. 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 representative 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 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 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 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 the Title 8, CCR, Section 1532.1.

3.0 SCOPE OF SERVICES

Mr. Scott Nunes performed the asbestos and deteriorated LCP survey at the Site on April 7, 2014. Mr. Nunes is a California-Certified Asbestos Consultant (CAC), certification No. 92-0547 (expiration March 4, 2015), and Certified Lead Paint Inspector/Assessor with the California Department of Public Health (DPH), certification number I-1085 (expiration March 24, 2015). Architectural plans and previous survey reports for the Site were not available for our review.

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 quantity and friability. A total of 18 bulk asbestos samples representing 6 material types were collected from the Site.

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

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

- Relinquished bulk asbestos samples under standard chain-of-custody procedures to AQ Environmental Laboratories, a California-licensed laboratory, for asbestos analysis in accordance with EPA Test Method 600/R-93/116 using polarized light microscopy (PLM) procedures. AQ Environmental Laboratories 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 standard turnaround time.

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

3.2 Lead Paint

One bulk paint sample was collected from the Site. Our sampling procedures are discussed below:

- Collected a representative bulk sample of suspect LCP using techniques presented in HUD guidelines. In addition, the painted area was evaluated for evidence of deterioration such as flaking or cracking.

- Relinquished the LCP sample under standard chain-of-custody procedures to Advanced Technology Laboratories (ATL), a California-licensed laboratory, for lead analyses in accordance with EPA Test Method 6010. The laboratory analyses were requested on a standard turnaround time.

The sample location is presented on the Sample Location Map, Figure 2. Our paint sample identification number, paint description, location, approximate peeling/flaking quantity, and photo reference are summarized in Table 2.

4.0 INVESTIGATIVE RESULTS

4.1 Asbestos Results

Chrysotile asbestos at a concentration of 25% was detected in three samples (sample group 1-3) representing approximately 3 square feet of nonfriable sealant located on various pipe threads/joints and locations on the water tank.

Chrysotile asbestos at concentrations ranging from 5-10% was detected in three samples (sample group 10-12) representing approximately 5 square feet of nonfriable white/gray sealant located on several seams and the opening at the bottom of the emulsion tank.

No asbestos fibers were observed in samples of the remaining suspect materials sampled (sample numbers 4-9 and 13-18) during our asbestos survey at the Site. A summary of the analytical laboratory test results for asbestos is presented in Table 1. Reproductions of the laboratory report and chain-of-custody documentation are presented as an attachment.

4.2 Paint Results

A sample representing approximately 200 square feet of deteriorated yellow paint on the metal exterior walls of the water pump shed exhibited a total lead concentration of 1.7% by weight, or 17,000 mg/kg.

Subsequent analysis of the sample indicated a TCLP lead concentration of 8.5 mg/l.

A summary of the analytical laboratory test results for paint is presented in Table 2. Reproductions of the laboratory report and chain-of-custody documentation are presented as an attachment.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Asbestos

Mojave Desert Air Quality Management District (MDAQMD) regulations require that the asbestos-containing sealant on the water tank and white/gray sealant on the emulsion tank, (NESHAP Category I nonfriable/nonhazardous material) identified during our asbestos survey be removed and disposed of prior to renovation or demolition activities that would disturb the material. This material can be disposed of as non-hazardous waste. However, *disturbance* of the material is still covered by the Cal/OSHA asbestos standard (Title 8, CCR Section 1529).

We recommend the notification of contractors (that will be conducting demolition, renovation, or related activities) and/or facility occupants of the presence of asbestos in their work areas (i.e., provide the occupants and contractor[s] with a copy of this report and a list of asbestos removed by asbestos abatement contractor[s] during subsequent abatement activities). Contractors should be instructed not to disturb asbestos during their work.

Contractors are responsible for informing the landfill of the contractor's intent to dispose of asbestos waste. Some landfills may require additional waste characterization. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

In accordance with MDAQMD requirements, written notification is required ten working days prior to commencement of *any* demolition activity (whether asbestos is present or not).

5.2 Lead Paint

The deteriorated yellow exterior paint located on the water pump shed would be classified as California and RCRA hazardous based on lead content.

Deteriorated paints classified as RCRA and/or California hazardous waste must be removed and disposed of prior to renovation, demolition, or other activities that would disturb them. 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 any LCP removal work. Loose and peeling/flaking LCP classified as RCRA and/or California hazardous waste 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 Site be treated as lead-containing for purposes of determining the applicability of the Cal/OSHA lead standard during maintenance, renovation, or demolition activities. This recommendation is based on the LCP sample result and the fact that lead was a common ingredient of paints manufactured before 1978 and is still an ingredient of some paints. 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. 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.

6.0 REPORT LIMITATIONS

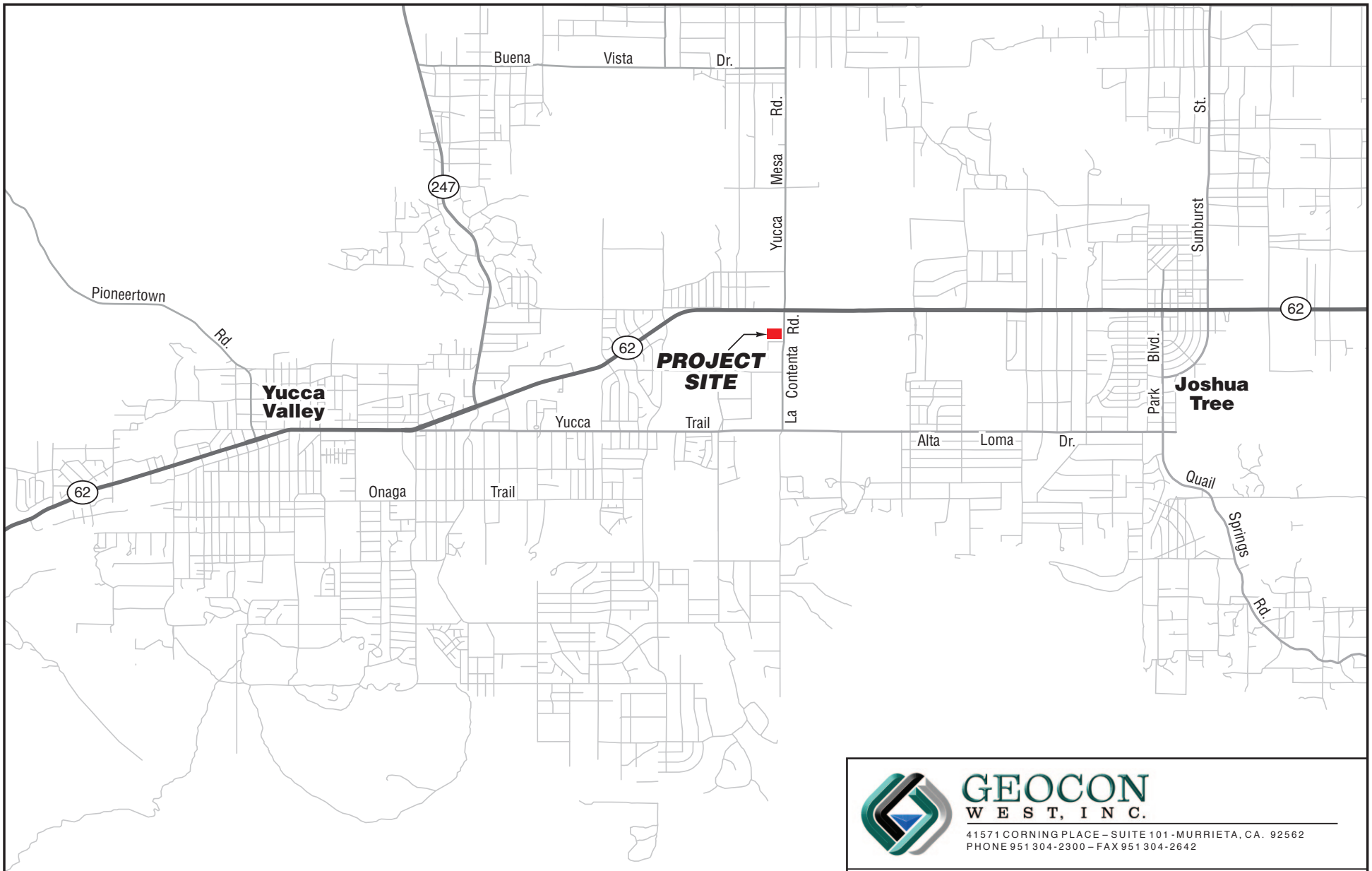
This report has been prepared exclusively for Caltrans. The information contained herein is only valid as of the date of the report, and will require an update to reflect additional information obtained.

The asbestos and deteriorated 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 structures identified in Section 1.1. Due to the nature of structure surveys, asbestos and LCP use, and laboratory analytical limitations, some asbestos or deteriorated LCP in the structure may not have been identified. Spaces, such as cavities, crawlspaces, voids, and pipe chases, may have been concealed to our investigator. Previous retrofit/rehabilitation work may have concealed or covered spaces or materials, or may have partially demolished materials and left debris in inaccessible areas. Additionally, retrofit/rehabilitation activities may have partially replaced asbestos with indistinguishable non-asbestos. Asbestos and/or LCP may exist in areas not accessible or sampled in conjunction with our scope of services.

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

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

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



GEOCON WEST, INC.
41571 CORNING PLACE – SUITE 101 - MURRIETA, CA. 92562
PHONE 951 304-2300 – FAX 951 304-2642

Caltrans Maintenance Yard

6690 La Contenta Road
Yucca Valley, California

VICINITY MAP

T2570-22-03	April 2014	Figure 1

LEGEND:

- Approximate Asbestos Sample Location
- Approximate Paint Sample Location

N

0 80

Scale in Feet

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Caltrans Maintenance Yard

6690 La Contenta Road
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SAMPLE LOCATION MAP

T2570-22-03	April 2014	Figure 2

Photo 1 – View looking north at the water pump shed and water tank.

Photo 2 – View looking west at the emulsion tank.

GEOCON
WEST, INC.
3303 N. SAN FERNANDO BLVD. – SUITE 100 - BURBANK, CA. 91504
PHONE 818 841-8388 – FAX 818 841-1704

SITE PHOTOS 1 & 2		
Caltrans Maintenance Yard 6690 La Contena Road, Yucca Valley, California		
T2570-22-03		April 2014

Photo 3 – View of ACM sealant on the water tank.

Photo 4 – View of ACM white/gray sealant on bottom of the emulsion tank.

Photo 5 – View of deteriorated LCP on the exterior of the water pump shed.

Photo 6 – View of non-asbestos insulation in the water pump shed.

TABLE 1
SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS - ASBESTOS
6690 LA CONTENA ROAD, YUCCA VALLEY, CALIFORNIA

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

Sample Group No. ID	Description of Suspect Material	Location	Approximate Quantity	Friable	Site Photo	Asbestos Content
S-1 to S-3	**Sealant**	**Water tank**	**3 square feet**	**No**	**3**	**25% Chrysotile**
S-4 to S-6	Fireproofing insulation	Water pump shed	NA	NA	6	ND
S-7 to S-9	Concrete	Diesel AST roof	NA	NA	NP	ND
S-10 to S-12	**White/gray sealant**	**Emulsion tank seams and bottom opening**	**5 square feet**	**No**	**4**	**5-10% Chrysotile**
S-13 to S-15	Tank insulation	Emulsion tank	NA	NA	NP	ND
S-16 to S-18	Pipe insulation	Water tank	NA	NA	NP	ND

Notes:
NA = Not applicable
ND = No asbestos fibers detected
NP = No photo

TABLE 2
SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS - PAINT
6690 LA CONTENA ROAD, YUCCA VALLEY, CALIFORNIA

Total Lead and Soluble Lead

Sample ID	Paint Description	Location	Approximate Quantity Peeling & Flaking	Site Photo	Total Lead (mg/kg)	TCLP Lead (mg/l)
P1	Yellow	Water pump shed exterior	200 square feet	5	17,000	8.50

Notes:
mg/kg = milligrams per kilogram
mg/l = milligrams per liter
TCLP = Toxicity Characteristic Leaching Procedure

APPENDIX A

AQ ENVIRONMENTAL LABORATORIES

1508 East 33rd Street
Signal Hill, CA 90755
Toll: 888-207-2022
Tel: 562-206-2770
Fax: 562-206-2773

Geocon West, Inc.
41571 Corning Place, Suite 101
Murrieta CA 92562
Attn.: Scott Nunes

Report Number 1416767

Project Number T2570-22-03
Project Name Caltrans Yucca Valley
Location Yucca Valley, CA
PO Number
WO Number

Date Received 04/08/2014
Date Analyzed 04/10/2014
Date Reported 04/10/2014

Date Sampled 04/07/2014
Sampled By Scott Nunes
Total Samples 18

Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
1416767-001	Water Tank on Pipe Joints/Threads on Side of Tank					
1	Sealant, White, Homogeneous	LAYER 1 100%	 Calcium Carbonate Binder/Filler	 50% 25%	Chrysotile	25%
	Asbestos Present: Yes		Total % Non-Asbestos:	75.0%	**Total %Asbestos:**	**25.0%**
1416767-002	Water Tank on Pipe Joints/Threads on Side of Tank					
2	Sealant, White, Homogeneous	LAYER 1 100%	 Calcium Carbonate Binder/Filler	 50% 25%	Chrysotile	25%
	Asbestos Present: Yes		Total % Non-Asbestos:	75.0%	**Total %Asbestos:**	**25.0%**
1416767-003	Water Tank on Pipe Joints/Threads on Side of Tank					
3	Sealant, White, Homogeneous	LAYER 1 100%	 Calcium Carbonate Binder/Filler	 50% 25%	Chrysotile	25%
	Asbestos Present: Yes		Total % Non-Asbestos:	75.0%	**Total %Asbestos:**	**25.0%**
1416767-004	Well Pump Shed on Walls, Ceiling, Tank, and Debris on Ground					
4	Fireproofing Insulation, White, Homogeneous	LAYER 1 100%	Cellulose Fiber	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1416767-005	Well Pump Shed on Walls, Ceiling, Tank, and Debris on Ground					
5	Fireproofing Insulation, White, Homogeneous	LAYER 1 100%	Cellulose Fiber	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1416767-006	Well Pump Shed on Walls, Ceiling, Tank, and Debris on Ground					
6	Fireproofing Insulation, White, Homogeneous	LAYER 1 100%	Cellulose Fiber	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
1416767-007	Diesel Tank - Roof					
7	Concrete, Gray, Homogeneous	LAYER 1			None Detected	
		100%	Calcium Carbonate	30%		
			Quartz	45%		
			Other Non-Fibrous Material	25%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1416767-008	Diesel Tank - Roof					
8	Concrete, Gray, Homogeneous	LAYER 1			None Detected	
		100%	Calcium Carbonate	30%		
			Quartz	45%		
			Other Non-Fibrous Material	25%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1416767-009	Diesel Tank - Roof					
9	Concrete, Gray, Homogeneous	LAYER 1			None Detected	
		100%	Quartz	40%		
			Calcium Carbonate	30%		
			Other Non-Fibrous Material	30%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1416767-010	Emulsion Tank on Several Seams and Opening at Bottom of Tank					
10	Sealant, Gray, Non-homogeneous	LAYER 1			Chrysotile	10%
		100%	Calcium Carbonate	65%		
			Binder/Filler	25%		
	Asbestos Present: Yes		Total % Non-Asbestos:	90.0%	**Total %Asbestos:**	**10.0%**
1416767-011	Emulsion Tank on Several Seams and Opening at Bottom of Tank					
11	Sealant, Gray, Non-homogeneous	LAYER 1	Fibrous Glass	5%	Chrysotile	8%
		100%	Calcium Carbonate	62%		
			Binder/Filler	25%		
	Asbestos Present: Yes		Total % Non-Asbestos:	92.0%	**Total %Asbestos:**	**8.0%**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
1416767-012	Emulsion Tank on Several Seams and Opening at Bottom of Tank					
12	Sealant, Gray, Homogeneous	LAYER 1			Chrysotile	5%
		100%	Calcium Carbonate	75%		
			Binder/Filler	20%		
	Asbestos Present: Yes		Total % Non-Asbestos:	95.0%	**Total %Asbestos:**	**5.0%**
1416767-013	Emulsion Tank under Metal Covering					
13	Tank Insulation, Gray, Homogeneous	LAYER 1	Mineral Wool	100%	None Detected	
		100%				
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1416767-014	Emulsion Tank under Metal Covering					
14	Tank Insulation, Yellow, Homogeneous	LAYER 1	Fibrous Glass	95%	None Detected	
		100%	Non-Fibrous Material	5%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1416767-015	Emulsion Tank under Metal Covering					
15	Tank Insulation, Gray/Yellow, Homogeneous	LAYER 1	Fibrous Glass	95%	None Detected	
		100%	Non-Fibrous Material	5%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1416767-016	Water Tank					
16	Pipe Insulation, Yellow, Non-homogeneous	LAYER 1	Fibrous Glass	85%	None Detected	
		100%	Non-Fibrous Material	15%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1416767-017	Water Tank					
17	Pipe Insulation, Yellow/Gray, Non-homogeneous	LAYER 1	Fibrous Glass	80%	None Detected	
		100%	Non-Fibrous Material	20%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
1416767-018	Water Tank					
18	Pipe Insulation, Yellow/Gray, Non-homogeneous	LAYER 1	Fibrous Glass	90%	None Detected	
		100%	Non-Fibrous Material	10%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)

Method Detection Limit: Less than one percent (<1%). Asbestos content has been determined using calibrated visual estimation (CVES). Samples tested were received in acceptable condition unless otherwise stated. Test report relates only to items tested. Due to PLM limitations, results on samples with None Detected or samples with low asbestos concentrations may not be reliable and further analysis such as TEM is recommended to confirm PLM results. This report shall not be reproduced except in full without the written approval of this laboratory. This report may not be used by the customer to claim product certification, endorsement, or approval by NIST/NVLAP or any agency of the government. Samples shall be disposed according to local, state and federal laws, 30 days after results are reported.

Analyst - Fred Chappelear

Approved Signatory Cristina E. Tabatt

NVLAP®
Lab Code 500044-0

ADVANCED TECHNOLOGY LABORATORIES

April 14, 2014

Scott Nunes
Geocon West, Inc.
41571 Corning Place, Suite 101
Murrietta, CA 92562
Tel: (951) 304-2300
Fax:(951) 304-2392

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

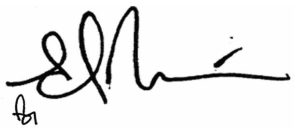
Re: ATL Work Order Number : 1401057

Client Reference : Caltrans-Yucca Valley, T2570-22-03

Enclosed are the results for sample(s) received on April 08, 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 West, Inc.		Project Number :	Caltrans-Yucca Valley, T2570-22-03
41571 Corning Place, Suite 101		Report To :	Scott Nunes
Murrietta , CA 92562		Reported :	04/14/2014

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P-1-Wate Well Shed-Fastener Yellow	1401057-01	Paint Chip	4/07/14 12:15	4/08/14 11:12

Certificate of Analysis

Geocon West, Inc.	Project Number : Caltrans-Yucca Valley, T2570-22-03
41571 Corning Place, Suite 101	Report To : Scott Nunes
Murrietta , CA 92562	Reported : 04/14/2014

Client Sample ID P-1-Wate Well Shed-Fastener Yellow

Lab ID: 1401057-01

TCLP Metals by ICP-AES EPA 6010B **Analyst: LA**

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**8.5**	0.050	NA	1	B4D0202	04/11/2014	04/14/14 11:24	

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
Batch B4D0202 - EPA 3010A_SOIL									
Blank (B4D0202-BLK1)				Prepared: 4/11/2014 Analyzed: 4/14/2014					
Lead	ND	0.050			NR				
Blank (B4D0202-BLK2)				Prepared: 4/11/2014 Analyzed: 4/14/2014					
Lead	ND	0.050			NR				
LCS (B4D0202-BS1)				Prepared: 4/11/2014 Analyzed: 4/14/2014					
Lead	1.02703	0.050	1.00000		103	80 - 120			
LCS Dup (B4D0202-BSD1)				Prepared: 4/11/2014 Analyzed: 4/14/2014					
Lead	1.04463	0.050	1.00000		104	80 - 120	1.70	20	

Certificate of Analysis

Geocon West, Inc.		Project Number :	Caltrans-Yucca Valley, T2570-22-03
41571 Corning Place, Suite 101		Report To :	Scott Nunes
Murrietta , CA 92562		Reported :	04/14/2014

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.

Diane Galvan

From: Scott Nunes [nunes@geoconinc.com]
Sent: Wednesday, April 09, 2014 3:19 PM
To: Diane Galvan
Subject: RE: Results/EDD/Invoice - Caltrans-Yucca Valley (1401057)

How about a 72 hour turnaround.

Sent on the new Sprint Network from my Samsung Galaxy S®4.

-------- Original message --------
From: Diane Galvan
Date:04/09/2014 3:08 PM (GMT-08:00)
To: Scott Nunes
Subject: RE: Results/EDD/Invoice - Caltrans-Yucca Valley (1401057)

Sure Scott, what TAT will you need? Please advise.

Thanks,

Diane

From: Scott Nunes [mailto:nunes@geoconinc.com]
Sent: Wednesday, April 09, 2014 3:08 PM
To: Diane Galvan
Subject: RE: Results/EDD/Invoice - Caltrans-Yucca Valley (1401057)

Thanks Diane. Can you please run the TCLP on the sample.

Thanks,

Scott

Sent on the new Sprint Network from my Samsung Galaxy S®4.

April 09, 2014

Scott Nunes
Geocon West, Inc.
41571 Corning Place, Suite 101
Murrietta, CA 92562
Tel: (951) 304-2300
Fax:(951) 304-2392

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

Re: ATL Work Order Number : 1401057

Client Reference : Caltrans-Yucca Valley, T2570-22-03

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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

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Certificate of Analysis

Geocon West, Inc.		Project Number :	Caltrans-Yucca Valley, T2570-22-03
41571 Corning Place, Suite 101		Report To :	Scott Nunes
Murrietta , CA 92562		Reported :	04/09/2014

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P-1-Wate Well Shed-Fastener Yellow	1401057-01	Paint Chip	4/07/14 12:15	4/08/14 11:12

Certificate of Analysis

Geocon West, Inc.	Project Number : Caltrans-Yucca Valley, T2570-22-03
41571 Corning Place, Suite 101	Report To : Scott Nunes
Murrietta , CA 92562	Reported : 04/09/2014

Client Sample ID P-1-Wate Well Shed-Fastener Yellow

Lab ID: 1401057-01

Total Metals by ICP-AES EPA 6010B **Analyst: LA**

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**17000**	200	NA	50	B4D0133	04/08/2014	04/09/14 11:33	

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
Batch B4D0133 - EPA 3050B									
Blank (B4D0133-BLK1)				Prepared: 4/8/2014 Analyzed: 4/9/2014					
Lead	ND	1.0			NR				
LCS (B4D0133-BS1)				Prepared: 4/8/2014 Analyzed: 4/9/2014					
Lead	48.0580	1.0	50.0000		96.1	80 - 120			
Duplicate (B4D0133-DUP1)		**Source: 1401028-33**		Prepared: 4/8/2014 Analyzed: 4/9/2014					
Lead	16.9586	1.0		32.4964	NR		62.8	20	R
Matrix Spike (B4D0133-MS1)		**Source: 1401028-33**		Prepared: 4/8/2014 Analyzed: 4/9/2014					
Lead	117.137	1.0	125.000	32.4964	67.7	43 - 120			
Matrix Spike Dup (B4D0133-MSD1)		**Source: 1401028-33**		Prepared: 4/8/2014 Analyzed: 4/9/2014					
Lead	118.967	1.0	125.000	32.4964	69.2	43 - 120	1.55	20	

Certificate of Analysis

Geocon West, Inc.	Project Number : Caltrans-Yucca Valley, T2570-22-03
41571 Corning Place, Suite 101	Report To : Scott Nunes
Murrietta , CA 92562	Reported : 04/09/2014

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
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)
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Notes:
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(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES

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

CHAIN OF CUSTODY RECORD

Page 1 of 1

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company: Geocon West, Inc. | Address: 41571 Corning Place, Suite 101 | City: Murrieta | State: CA | Zip: 92562 | Tel: (951) 304-2300 | Fax: (951) 304-2392

SEND REPORT TO:
Attn: Scott Nunes | Email: nunes@geoconinc.com
Company: Geocon West, Inc.
Address: 41571 Corning Place, Suite 101
City: Murrieta | State: CA | Zip: 92562

SEND INVOICE TO: ☒ same as SEND REPORT TO
Attn: | Email:
Company:
Address:
City: | State: | Zip:

PROJECT SAMPLES

Project Name: Caltrans - Yucca Valley
Project No.: ~~C87720~~ T2570-22-03
Sampler:
Quote No:
PO #:
Special Instructions/Comments: Paint Chip Sample

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Lead	Paint Chip	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	140057-01	P-1 - Water Well Shed - Footwear Yellow	4-7-14	12:15pm									✓						✓	1	1		2		
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									

QA/QC: ☐ Routine ☒ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples Submitted AFTER 3:00 PM, are considered received the following Business day at 8:00 AM.
3. The following turnaround time conditions apply:
   - TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
   - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday, after-hours work - ask for quote.
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
   - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; $2/sample/month if extended storage or hold is requested.
   - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; $20/ sample/week if extended storage is requested.
   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Scott M. Nunes — Submitter Print Name | Scott M. Nunes — Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Scott M. Nunes / Scott M. Nunes	4-8-14	11:12am	FEDEX	4/8/14	1112
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

CHAIN OF CUSTODY

ENVIRONMENTAL LABORATORIES

1508 E. 33rd Street
Signal Hill, CA 90755
562-206-2770 Tel
562-206-2773 Fax
services@AQenvlabs.com

(Lab) Order No. 1416767

CUSTOMER INFORMATION	
Company	Geocon West, Inc.
Address	41571 Corning Place Suite 101
City/State/Zip	Murrieta, CA 92562
Contact	Scott Nuner
Office Phone	(951) 304-2300
Cell	(951) 258-6533
Fax	(951) 304-2392
Email	snuner@geoconinc.com

Turnaround Time		Shipped By		Report Send Via:	
Same Day	☐	Fedex	☐	Web	☐
1 Day	☐	UPS	☐	Email	☒
2 Day	☒	USPS	☐	Fax	☐
3 Day	☐	Drop Off	☒	Verbal	☐
5 Day	☐	Drop Box	☐	Mail	☐
Weekend	☐	Other	☐	Pick up	☐

Special Instructions:

PROJECT INFORMATION

Project Name:	Caltrans Yucca Valley
Project Number:	T2570-22-03
Location:	Yucca Valley, CA
PO Number:	
Work Order No.:	
Sampled By:	Scott Nuner

PLM		PCM		MOLD		LEAD (Pb)			
PLM EPA 600/R-93/116	☒	NIOSH 7400A	☐	Spore Trap	☐	Air	☐	TTLC	☐
PLM 400 Pt. Count (<0.25%)	☐	NIOSH 7400B	☐	Tape Lift	☐	Paint	☐		
PLM 1000 Pt. Count (<0.1%)	☐	w/ TWA	☐	Bulk Sample	☐	Wipe	☐		
				Swab	☐	Soil	☐		

SAMPLE ID	SAMPLE TYPE	LOCATION	Date Sampled	Start Time / Stop Time	Avg Flow Rate	Volume (L)

Relinquished By:	Scott Nuner
Date/Time:	4-8-14 / 11:30 am
Received By:	Jennifer Pruett
Date/Time:	4/8/14 11:30am

Lab Forms
Ver. 082411

GEOCON
WEST, INC.
GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS

1416767

BULK SAMPLE LOG

Project Name: Caltrans Yucca Valley Collected By: SN

Project No.: T2570-22-03 Date: 4-7-14

HOMOGENEOUS MATERIAL: Sealant

Sample Number	Location	Area Sq. Ft.	Condition
1	Water Tank	3	Good
2	"	↓	↓
3	"		

NOTES: On various pipe joints/ threads on side of tank

CHAIN OF CUSTODY

Relinquished By: Scott Graham Time: 11:15 am Date: 4-8-14

Received By: Jennie Tafoya Time: 11:15am Date: 4/8/14

Relinquished By: _____ Time: _____ Date: _____

Received By: _____ Time: _____ Date: _____

GEOCON
WEST, INC.
GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS

1416767

BULK SAMPLE LOG

Project Name: Caltrans Yucca Valley Collected By: SN

Project No.: T2570-22-03 Date: 4-7-14

HOMOGENEOUS MATERIAL: Fireproofing Insulation

Sample Number	Location	Area Sq. Ft.	Condition
4	Well Pump Shed	700	Damged
5	"	↓	↓
6	"	↓	↓

NOTES: On walls, ceiling, tank and debris on ground

CHAIN OF CUSTODY

Relinquished By: [signature] Time: 11:15 am Date: 4-8-14

Received By: [signature] Time: 11:15 am Date: 4/8/14

Relinquished By: _____ Time: _____ Date: _____

Received By: _____ Time: _____ Date: _____

GEOCON
WEST, INC.
GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS

14116767

BULK SAMPLE LOG

Project Name: Caltrans Yucca Valley Collected By: SN

Project No.: T2570-22-03 Date: 4-7-14

HOMOGENEOUS MATERIAL: Concrete

Sample Number	Location	Area Sq. Ft.	Condition
7	Diesel Tank - Roof	150	Good
8	" - "	↓	↓
9	" - "	↓	↓

NOTES:

CHAIN OF CUSTODY

Relinquished By: [signature] Time: 11:15 am Date: 4-8-14

Received By: [signature] Time: 11:15am Date: 4/8/14

Relinquished By: _____ Time: _____ Date: _____

Received By: _____ Time: _____ Date: _____

GEOCON
WEST, INC.
GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS

1416767

BULK SAMPLE LOG

Project Name: Caltrans Yucca Valley Collected By: SN

Project No.: T2570-22-03 Date: 4-7-14

HOMOGENEOUS MATERIAL: White/Grey Sealant

Sample Number	Location	Area Sq. Ft.	Condition
10	Emulsion Tank	5	Good
11	"	↓	↓
12	"	↓	↓

NOTES: On several seams and openings at bottom of tank

CHAIN OF CUSTODY

Relinquished By: [signature] Time: 11:15 am Date: 4-8-14

Received By: [signature] Time: 11:15am Date: 4/8/14

Relinquished By: _____ Time: _____ Date: _____

Received By: _____ Time: _____ Date: _____

GEOCON
WEST, INC.
GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS

1416767

BULK SAMPLE LOG

Project Name: Caltrans Yucca Valley Collected By: SN

Project No.: T2570-22-03 Date: 4-7-14

HOMOGENEOUS MATERIAL: Tank Insulation

Sample Number	Location	Area Sq. Ft.	Condition
13	Emulsion Tank	500	Good
14	"	↓	↓
15	"	↓	↓

NOTES: Under metal covering.

CHAIN OF CUSTODY

Relinquished By: [signature] Time: 11:15 am Date: 4-8-14

Received By: [signature] Time: 11:15 am Date: 4/8/14

Relinquished By: _____ Time: _____ Date: _____

Received By: _____ Time: _____ Date: _____

GEOCON
WEST, INC.
GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS

1416767

BULK SAMPLE LOG

Project Name: Caltrans Yucca Valley Collected By: SN

Project No.: T2570-22-03 Date: 4-7-14

HOMOGENEOUS MATERIAL: Pipe Insulation

Sample Number	Location	Area Sq. Ft.	Condition
16	Water Tank	8	Good
17	"	↓	↓
18	"	↓	↓

NOTES:

CHAIN OF CUSTODY

Relinquished By: [signature] Time: 11:15 am Date: 4-8-14

Received By: [signature] Time: 11:15 am Date: 4/8/14

Relinquished By: Time: Date:

Received By: Time: Date: