

INFORMATION HANDOUT

MATERIALS INFORMATION

FINAL FOUNDATION REPORT

July 1, 2008

ADDENDUM TO FINAL FOUNDATION REPORT

August 25, 2008

ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT

February 2009

Memorandum

*Flex your power!
Be energy efficient!*

To: **MR. SEAN SAMUEL**
Branch Chief
Structural Design Section 2
Division of Engineering Services

Date: July 1, 2008

File: 09-MNO-395 PM 63.7
09-334201

Conway Summit HMS 5704

Attention: Dai Lu

From: **DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
GEOTECHNICAL SERVICES – MS 5**

Subject: Final Foundation Report

Introduction

Per your request, dated March 11, 2008, a Foundation Report is prepared to provide geotechnical recommendations for the reconstruction project of the cinder/salt storage facility in the Conway Summit Maintenance Station. The project area is located on Highway 395 at PM 63.5 in Mono County. See Plate No. 1 for the Vicinity Map.

Existing Facilities and Proposed Improvements

The Conway Summit Maintenance Station currently has an existing shed that is used for cinder storage. This project is proposed to demolish the existing shed and construct a new cinder/salt shed. The new shed is proposed to be built with an enclosed equipment bay for storage of a snow blower, a small work area, and restrooms for employees. The new shed is proposed to be built with concrete walls, pre-engineered framing with metal stud wall, and metal roof. The shed will be supported on continuous and isolated concrete footings to support concrete walls and pre-engineered columns.

Pertinent Reports and Investigations

In preparing this report, the following documents were reviewed:

1. California Building Code (2007 Edition).

Mr. SEAN SAMUEL

July 1, 2008

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2. USGS Earthquake Ground Motion Parameter:
<http://earthquake.usgs.gov/research/hazmaps/design/>
3. Four Cone Penetration soundings (CPT), done on May 06, 2008, at the proposed site.
4. Geologic Map of California - Walker Lake Sheet (California Division of Mines and Geology, 1963).
5. "California Seismic Hazard Map", prepared by Caltrans, dated 1996.
6. Floor Plan, Exterior Elevation, and Building Section, provided by Division of Engineering Services, Architectural Design, dated June 20, 2006.

Geology and Seismicity

The California Department of Conservation, Division of Mines and Geology Geologic Map of California, Walker Lake Sheet, 1963 was used to determine the geologic formations in the project location. A section from these maps showing the project location is attached as Plate No. 2, Geology Map. The project location is mapped as being in an area of sedimentary deposits (Qg and Qal) formed during the Quaternary Period of the Cenozoic Era, between 10 thousand and 1.6 million years ago.

The Department's California Seismic Hazard Map, dated 1996, was also reviewed. The map indicates that the controlling fault is the Mono Lake Fault. See Plate No. 3, Seismic Hazard Map. This is a normal fault which is located approximately 0.2 mile (0.4 km) east of the project location. The fault is expected to be capable of producing a Maximum Credible Earthquake (MCE) of magnitude $M_w=7.00$.

The following seismic design parameters are in accordance to the 2007 California Building Code:

- Site Class: D
- Mapped spectral accelerations for short periods (S_s): 1.8g
- Mapped spectral accelerations for a 1-second period (S_1): 0.62g

Mr. SEAN SAMUEL

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- Surface Displacement from Fault Rupture: None

Geotechnical Conditions

According to CPT Soundings and a site visit on April 23, 2008, the site is underlain by sedimentary deposits which consist of fine to coarse grained, medium dense to very dense silt, sand, gravels, and mixtures thereof. For the preparation of this report, we have assumed similar soil conditions in the vicinity of the proposed construction.

Ground Water Condition

Since the project site is located in a rural mountainous area with small population, no Department of Water Resources (DWR) monitoring well is installed near the project area; therefore, no DWR record of groundwater levels was used. Groundwater was not encountered during CPT soundings. Based on the general location of the site (high elevation, mountainous, sandy soil), groundwater is approximated to be deeper than 10 ft. Groundwater is not likely to be encountered during construction.

Liquefaction

Due to the low potential for groundwater, liquefaction potential is considered to be low. The potential for seismic induced liquefaction is also considered to be low, as well.

Frost Depth

According to the Mono County Building Code, the frost depth should be 18 inches below finish grade. All footing needs to be place below this depth.

Foundation Recommendations

Footing

The proposed structure should be supported on spread footings using a allowable bearing pressure of 1.0 tsf. The spread footings should be at least 12 inches wide and embedded

Mr. SEAN SAMUEL

July 1, 2008

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at least 3 feet below existing ground surface or finished grade.

Lateral Pressures

An active pressure of 37 psf/ft and passive pressure of 390 psf/ft should be used for design.

Moisture Barrier

Due to the snow in the winter season, moisture barrier should be implemented. A vinyl membrane with a minimum thickness of 6 mils should be placed over 4 inches of clean sand. The membrane should be covered by 3 inches of sand to aid in a uniform concrete cure.

Slope Stability

The new shed is proposed to be built on a relatively flat surface. There is no potential for slope instability.

Differential Settlement

The estimated total differential settlement is less than 0.5 inch.

Corrosive Soil Consideration

Corrosion test was performed on a sample obtained from 0 to 5 ft below ground surface. The Minimum Resistivity is tested to be 3885 ohm-cm and pH is 8.01. The site is determined to be non-corrosive for foundation element.

Construction Considerations

Spreading footing should be placed on firm soil. If non-suitable materials are encountered during construction, these materials should be removed and the footing elevation should be lowered to a firm base. If un-anticipated geological conditions are encountered during excavation of the footing, the Office of Geotechnical Design – North should be contacted for more recommendations.

Mr. SEAN SAMUEL
July 1, 2008
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Project Information

Standard Special Provision S5-280, "Project Information", discloses to bidders and contractors a list of pertinent information available for their inspection prior to bid opening. The following is an excerpt from SSP S5-280 disclosing information originating from Geotechnical Services. Items listed to be included in the Information Handout will be provided in Acrobat (.pdf) format to the addressee(s) of this report via electronic mail.

Data and information attached with the project plans are:
None

Data and information included in the Information Handout provided to the bidders and contractors are:
Foundation Report for EA 09-334201, dated July 1, 2008.

Data and information available for inspection at the District Office:
None.

Data and information available for inspection at the Transportation Laboratory are:
None.

If any changes to the structure are proposed during the final project design, the Office of Geotechnical Design – North should review those changes to determine if the foundation recommendation herein still applies.

A full-sized Log of Test Boring (LOTB) which is to be incorporated in the project plans is being prepared by Geotechnical Services, Office of Geotechnical Support Branch D – Contracts, Graphics & Records, and will be forwarded when completed. Mrs. Irma Gamarra-Remmen of the Contracts, Graphic & Records branch may be contacted directly for information on the LOTB.

If you have any questions or comments, please call Carolyn Zhen at (916) 227-1055 or John Huang at (916) 227-1037.



Geology base map from California Division of Mines and Geology – Geologic Map of California, Walker Lake Sheet, dated 1963

Explanation of Relevant Formations:

Qg – Quaternary Glacial Deposits - Glacial moraines and till of the Toiga, Tahoe, and Sherwin Stages.

Qal – Recent Alluvium - Stream and river alluvium; glacial outwash; Recent fan deposits.

gr – Undifferentiated - Mesozoic granitic rock, Ranging in composition from granite to diorite, probably representing several plutons (in part sheared and metamorphosed)



CALTRANS
 Division of Engineering Services
 Geotechnical Services
 Office of Geotechnical Design - North

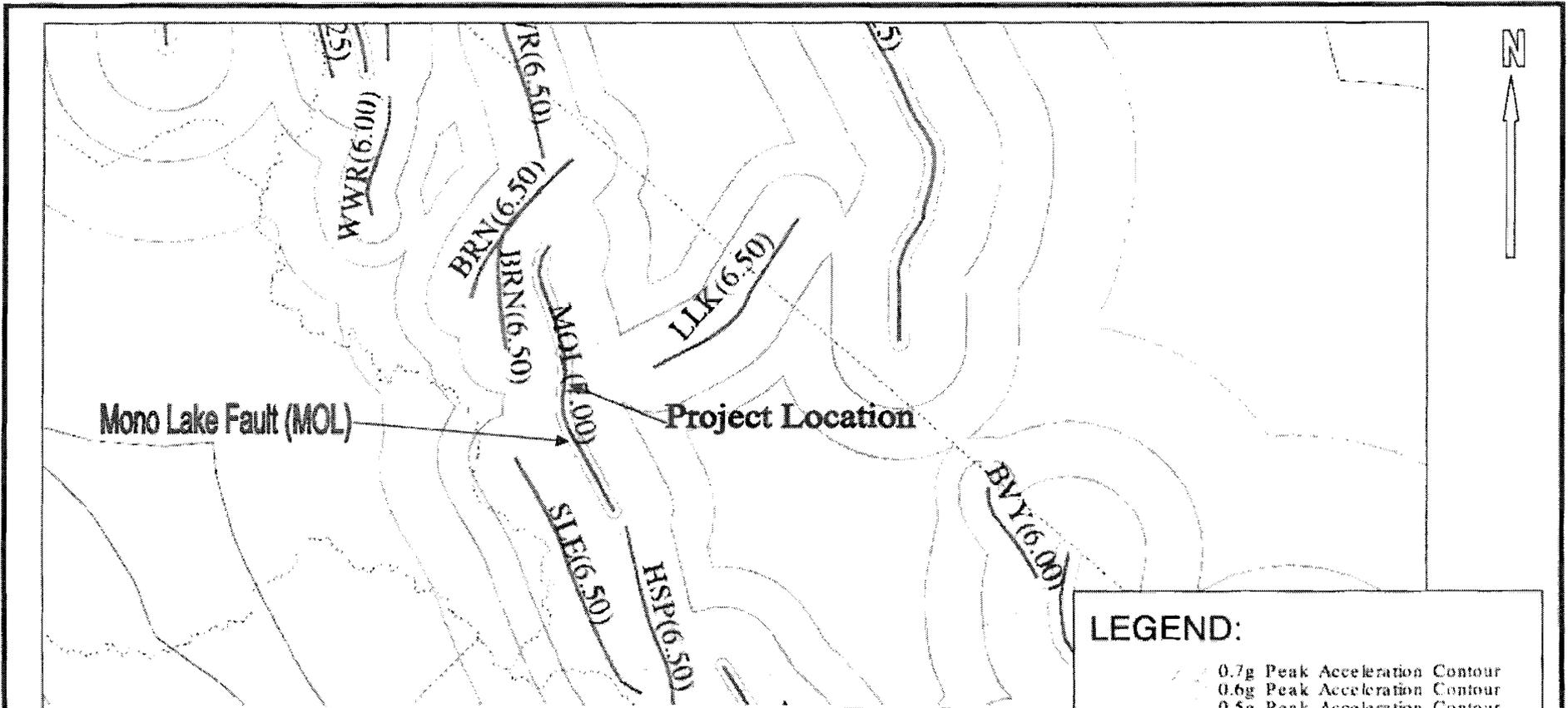
EA: 09-334201

Date: July 2008

GEOLOGY MAP

**09-MNO-5704 (PM 63.7)
 FOUNDATION REPORT**

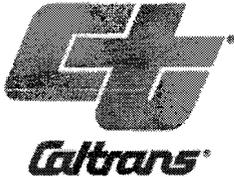
Plate
 No. 2



California Seismic Hazard Map, 1996, by Lalliana Mualchin

LEGEND:

- 0.7g Peak Acceleration Contour
- 0.6g Peak Acceleration Contour
- 0.5g Peak Acceleration Contour
- 0.4g Peak Acceleration Contour
- 0.3g Peak Acceleration Contour
- 0.2g Peak Acceleration Contour
- 0.1g Peak Acceleration Contour
- Special Seismic Source (SSS)
- Faults with Fault Codes (MCF)
- State Highways
- County Boundary
- Latitude & Longitude

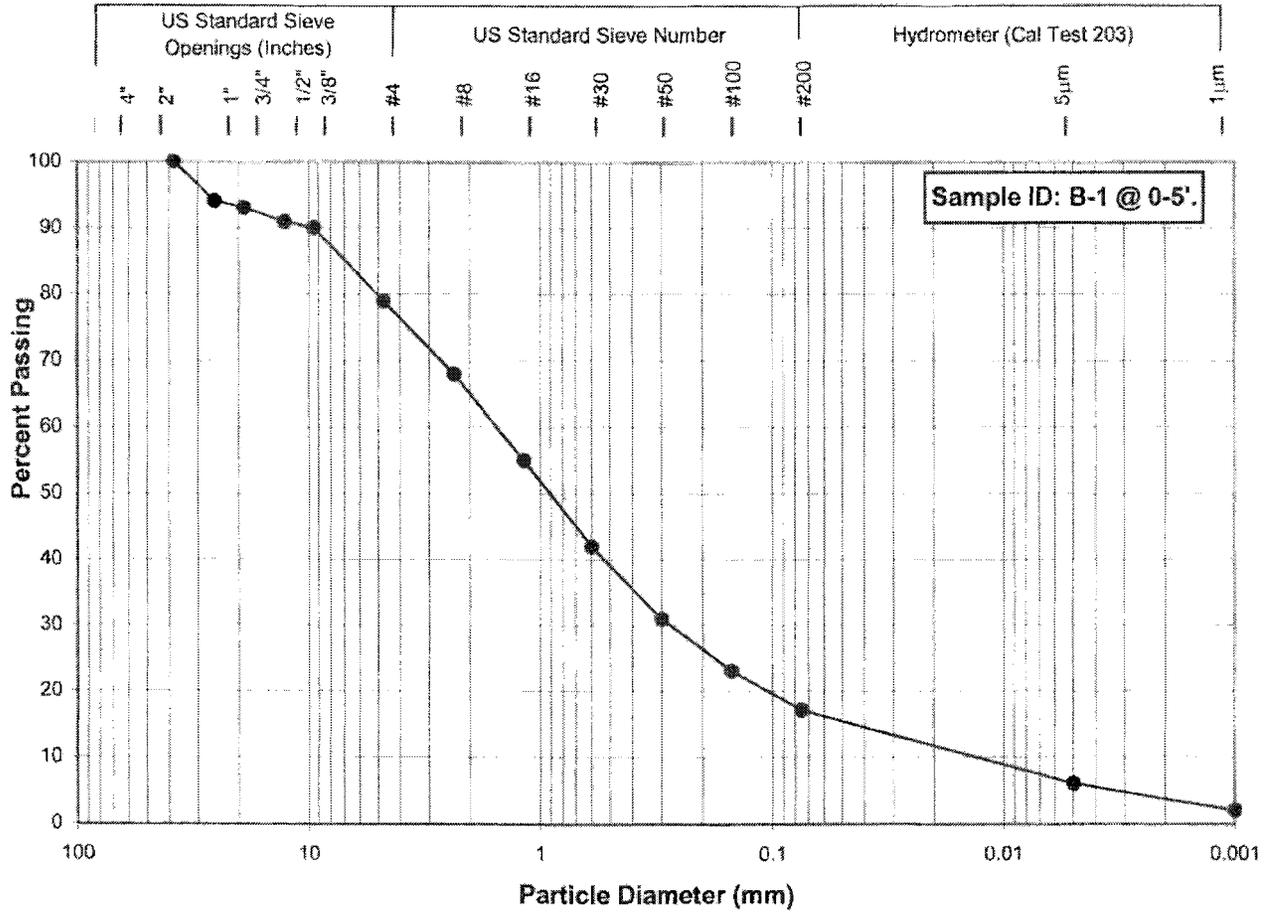


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 Geotechnical Services
 Office of Geotechnical Design North

EA: 09-334201	SEISMIC HAZARD MAP
July 2008	

09-MNO-5704 (Rte 395 PM 63.7) FOUNDATION REPORT	Plate No. 3
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Gradation Analysis Test Results



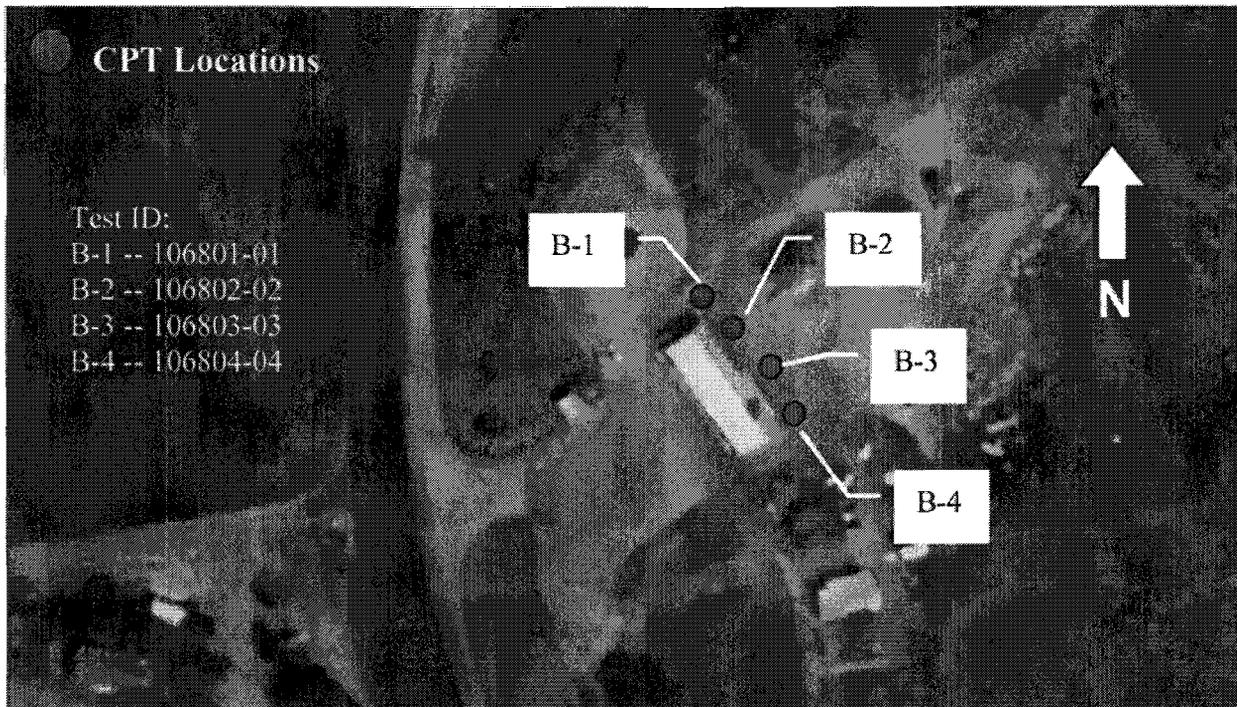
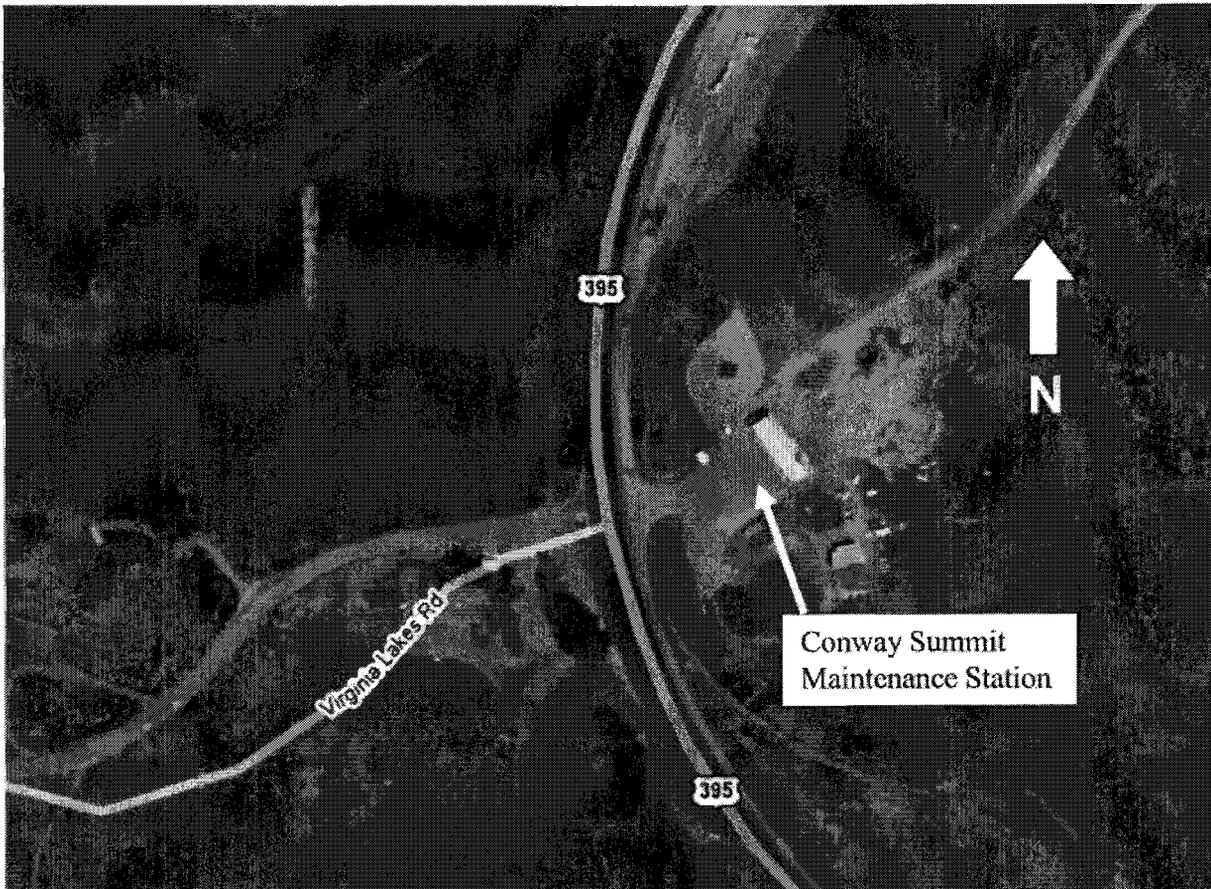
GRAVELS		SANDS			SILT	CLAY
Coarse	Fine	Coarse	Medium	Fine		

Project: Conway Summit M. S.
EA: 09-334201
D.-Co.-Rt.-: 09-MNO-5704 (395 PM63.7)
Sample ID: B-1 @ 0-5'
Test Date: Jun. 16, 2008



Division of Engineering Services
 Geotechnical Services
 Office of Geotechnical Design - North

CPT Sounding Locations



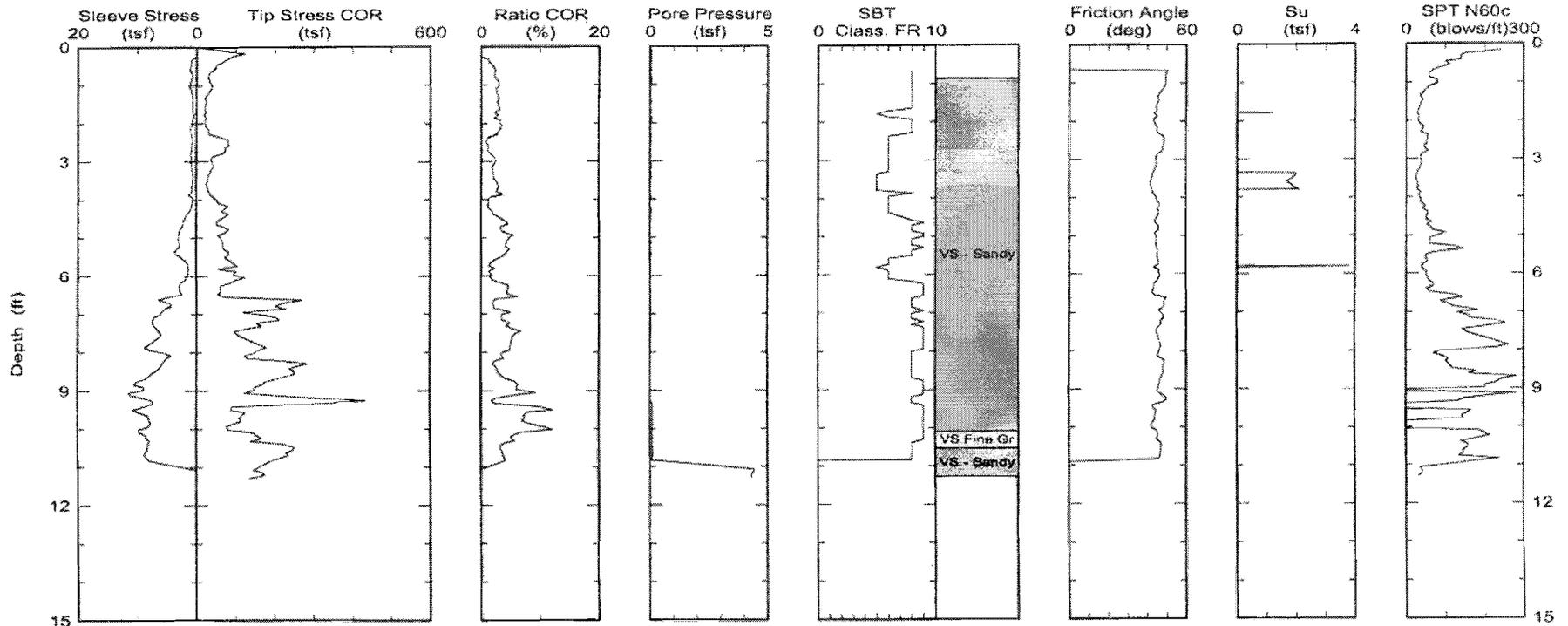
**CPT Results
(4 sheets)**



Division of Engineer Service
Geotechnical Service
5900 Folsom Blvd. Sac., CA 95819
www.dot.ca.gov

Lat: 0
Lon: 0
Elevation: 0
Customer: Carolyn Zhen
Job Site: 09-MNO-395-Pm 63.7

Date: 06/May/2008
Test ID: 106801-01
Project: 09-334201



Maximum depth: 11.28 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

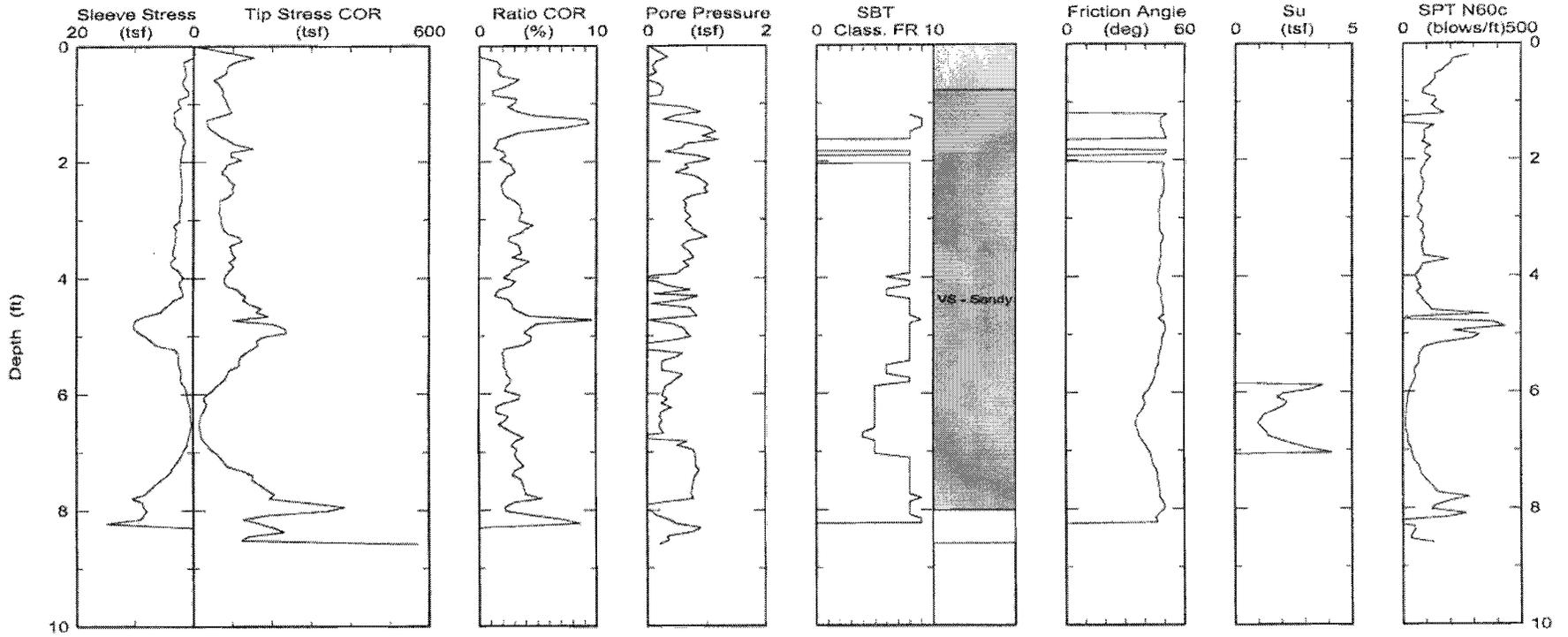


Division of Engineer Service
Geotechnical Service
5900 Folsom Blvd. Sac., CA 95819
www.dot.ca.gov

Lat: 0
Lon: 0
Elevation: 0

Date: 06/May/2008
Test ID: 106802-02
Project: 09-334201

Customer: Carolyn Zhen
Job Site: 09-MNO-395-Pm 63.7



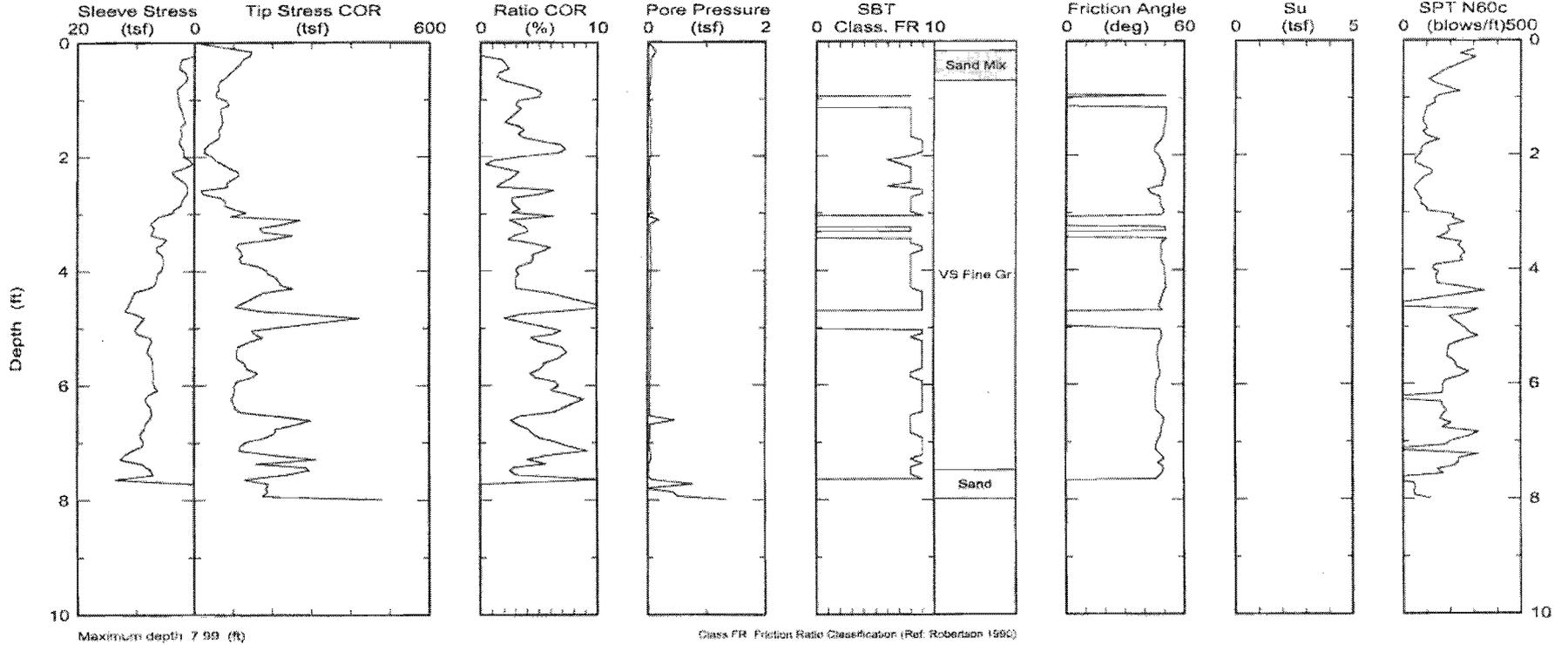


Division of Engineer Service
Geotechnical Service
5900 Folsom Blvd. Sac., CA 95819
www.dot.ca.gov

Lat: 0
Lon: 0
Elevation: 0

Date: 06/May/2008
Test ID: 106803-03
Project: 09-334201

Customer: Carolyn Zhen
Job Site: 09-MNO-395-Pm 63.7



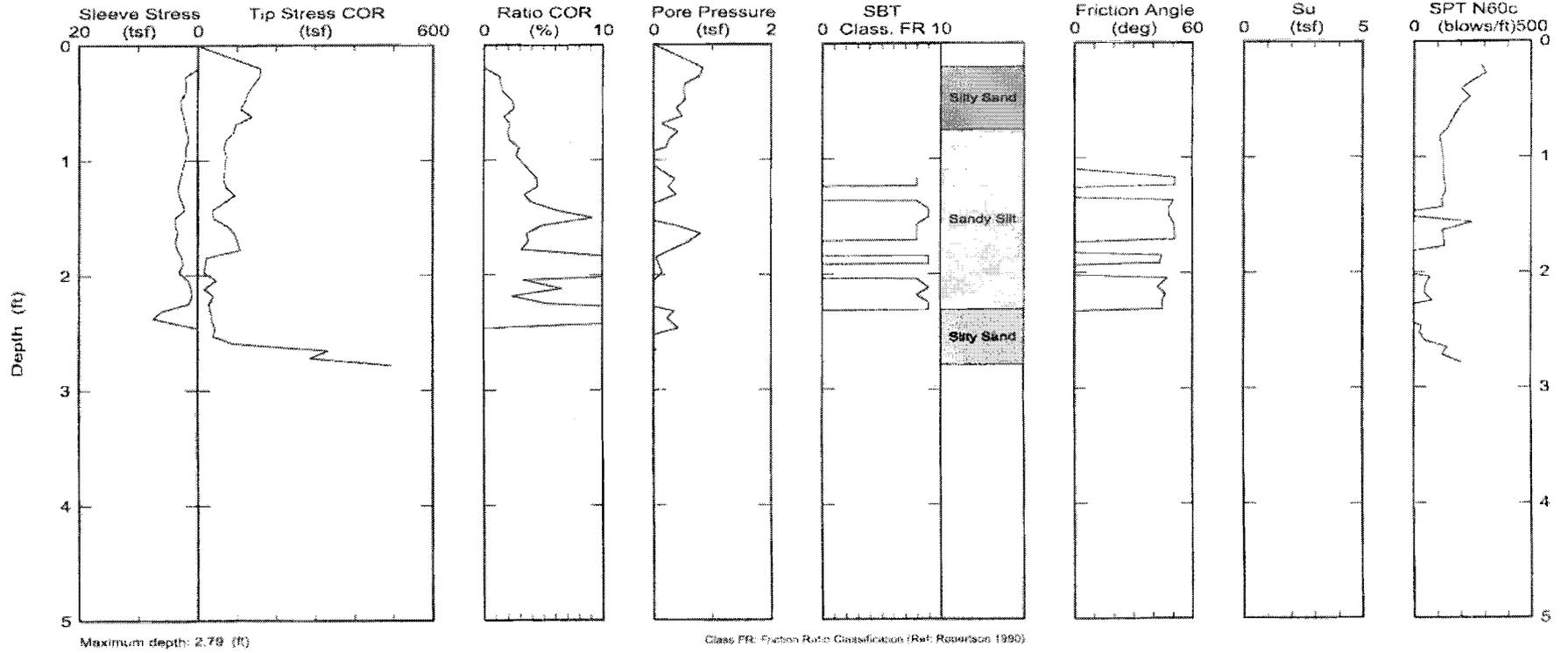


Division of Engineer Service
Geotechnical Service
5900 Folsom Blvd. Sac., CA 95819
www.dot.ca.gov

Lat: 0
Lon: 0
Elevation: 0

Date: 06/May/2008
Test ID: 106804-04
Project: 09-334201

Customer: Carolyn Zhen
Job Site: 09-MNO-395-Pm 63.7



Mr. SEAN SAMUEL

July 1, 2008

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Report by:
CAROLYN ZHEN
Transportation Engineer, Civil
Office of Geotechnical Design – North
Branch E



Sign by:
JOHN HUANG, P.E.
Senior Materials and Research Engineer
Office of Geotechnical Design – North
Branch E

ATTACHMENTS:

Plate 1 – Vicinity Map
Plate 2 – Geology Map
Plate 3 – Seismic Hazard Map
Gradation Analysis Test Results
CPT Locations
CPT Results (4 sheets)



c: R. E. Pending
Structure OE
PCE (E-copy)
DME (E-copy)
GDN File
GS File Room

Memorandum

*Flex your power!
Be energy efficient!*

To: MR. SEAN SAMUEL
Branch Chief
Structural Design Section 2
Division of Engineering Services

Attention: Dai Lu

Date: August 25, 2008

File: 09-MNO-395 PM 63.7
09-334201
Conway Summit HMS 5704

**From: DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
GEOTECHNICAL SERVICES – MS 5**

Subject: Addendum to Final Foundation Report

Introduction

Per your email request, dated July 29, 2008, an addendum to the Foundation Report (FR), dated July 1, 2008, is prepared to address the change to the bearing capacity recommendation provided in the FR for the reconstruction project of the cinder/salt storage facility in the Conway Summit Maintenance Station. The project area is located on Highway 395 at PM 63.7 in Mono County.

Existing Facilities and Proposed Improvements

The Conway Summit Maintenance Station currently has an existing shed that is used for cinder storage. This storage facility does not currently have restrooms. The project is proposed to demolish the existing shed and construct a new cinder/salt shed. The new shed is proposed to be built with an enclosed equipment bay for storage of a snow blower, a small work area, and restrooms for employees. The new shed is proposed to be built with concrete walls, pre-engineered framing with metal stud wall, and metal roof. The shed will be supported on continuous and isolated concrete footings to support concrete walls and pre-engineered columns.

Mr. SEAN SAMUEL
July 1, 2008
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Bearing Capacity

The original recommendation provided on the FR, dated July 1 2008, for the allowable bearing pressure was 1.0 tsf (or 2000 psf). Office of Geotechnical Design – North recommends that the foundation design can be based on an allowable bearing pressure of 1.25 tsf (or 2500 psf).

Project Information

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None

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Foundation Report for EA 09-334201, dated July 1, 2008.

Addendum to Foundation Report for EA 09-334201, dated August 25, 2008.

Data and information available for inspection at the District Office:

None.

Data and information available for inspection at the Transportation Laboratory are:

None.

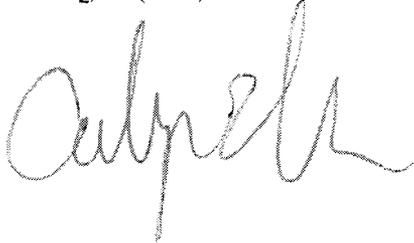
If any changes to the structure are proposed during the final project design, the Office of Geotechnical Design – North should review those changes to determine if the foundation recommendation herein still applies.

Mr. SEAN SAMUEL

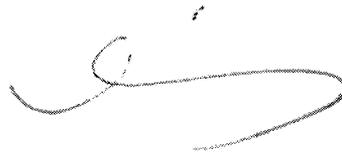
July 1, 2008

Page 3

If you have any questions or comments, please call Carolyn Zhen at (916) 227-1055 or John Huang at (916) 227-1037.



Report by:
CAROLYN ZHEN
Transportation Engineer, Civil
Office of Geotechnical Design – North
Branch E



Sign by:
JOHN HUANG, P.E.
Senior Materials and Research Engineer
Office of Geotechnical Design – North
Branch E

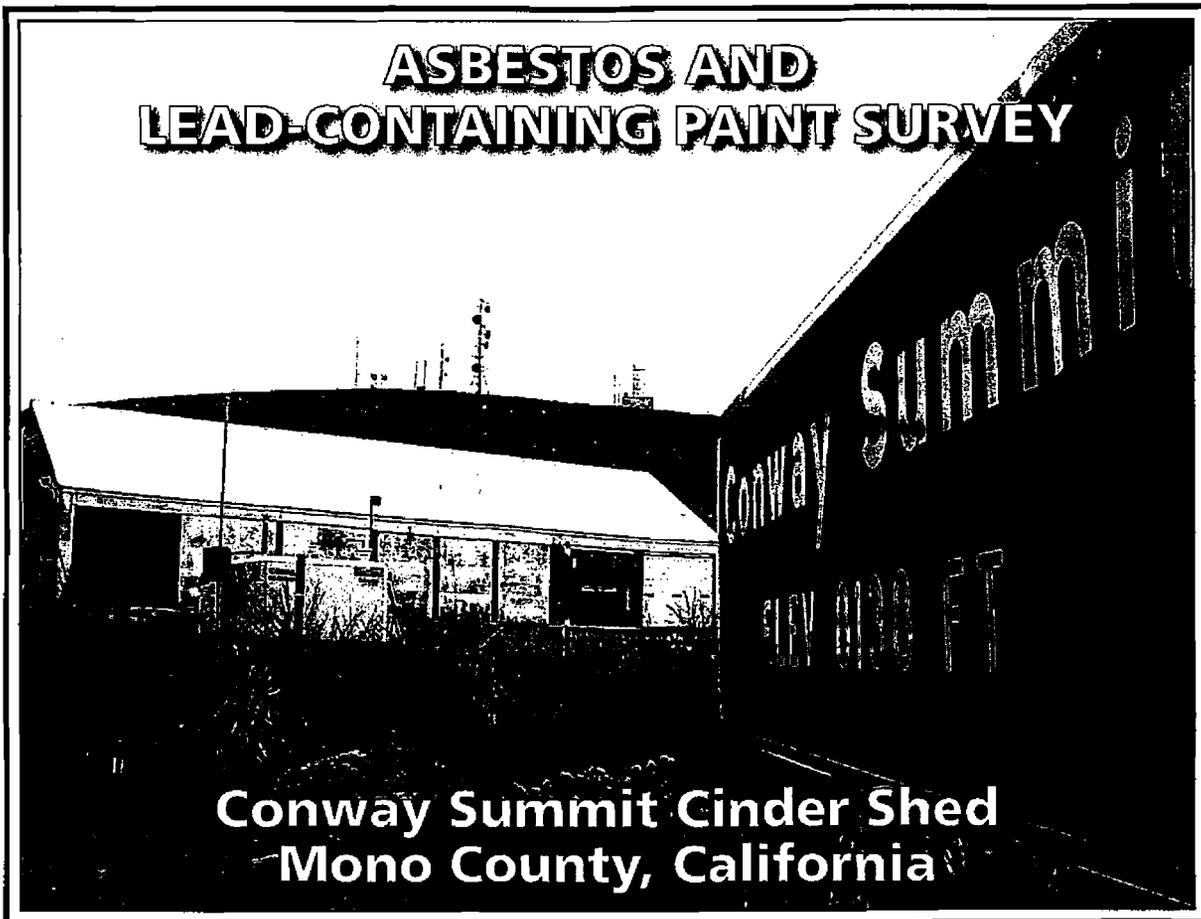
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Gradation Analysis Test Results
CPT Locations
CPT Results (4 sheets)



c: R. E. Pending
Structure OE
PCE (E-copy)
DME (E-copy)
GDN File
GS File Room

ASBESTOS AND LEAD-CONTAINING PAINT SURVEY



**Conway Summit Cinder Shed
Mono County, California**

PREPARED FOR:

**CALIFORNIA DEPARTMENT OF TRANSPORTATION -
DISTRICT 9
500 SOUTH MAIN STREET
BISHOP, CALIFORNIA 93514**



PREPARED BY:

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



**GEOCON PROJECT NO. S9200-06-62
CONTRACT NO.
TASK ORDER NO. 62, EA 09-341601**

FEBRUARY 2009

GEOCON

CONSULTANTS, INC.

G E O T E C H N I C A L ■ E N V I R O N M E N T A L ■ M A T E R I A L S



Project No. S9200-06-62
February 6, 2009

Mr. Daniel Holland, Task Order Manager
Caltrans District 9
500 South Main Street
Bishop, California 93514

Subject: CONWAY SUMMIT CINDER SHED
MONO COUNTY, CALIFORNIA
CONTRACT NO. 06A1141
TASK ORDER NO. 62, EA NO. 09-341601
ASBESTOS AND LEAD-CONTAINING PAINT SURVEY

Dear Mr. Holland:

In accordance with California Department of Transportation Contract No. 06A1141 and Task Order No. 62, we have performed an asbestos and lead-containing paint (LCP) survey of the subject property in Mono County, California. The scope of services included surveying the Conway Summit Cinder Shed for suspect asbestos-containing materials and LCP, collecting bulk samples, and submitting the samples to laboratories for analyses.

The accompanying report summarizes the services performed and laboratory analysis.

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

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

Sincerely,

GEOCON CONSULTANTS, INC.


David A. Watts, CAC
Senior Project Scientist


John E. Jurend, PE, CEG
Project Manager

DAW:JEJ:jaj

(5 + 2 CD) Addressee

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FIGURES

1. Vicinity Map
2. Site Plan

PHOTOGRAPHS (1 through 9)

TABLE

1. Summary of Asbestos Analytical Results
2. Summary of Paint Analytical Results – Lead

APPENDIX

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

ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT

1.0 INTRODUCTION

This asbestos and lead-containing paint (LCP) survey report was prepared by Geocon Consultants, Inc. under Caltrans Contract No. 06A1141, Task Order No. 62 (TO-62).

1.1 Project Description

The project consists of the Conway Summit Cinder Shed located at Post Mile 63.5 on Highway 395 in Mono County, California. We performed asbestos and LCP survey activities on the salt and cinder storage structure at the project location. The project location is depicted on the Vicinity Map, Figure 1, and Site Plan, Figure 2.

1.2 General Objectives

The primary purpose of the scope of services outlined in TO-62 was to determine the presence and quantity of asbestos and deteriorated LCP at the project location prior to demolition activities. Caltrans will use the information obtained from this investigation for waste profiling, determining California Occupational Safety and Health Administration (Cal/OSHA) applicability, and coordinating asbestos and LCP disturbance activities.

It was not Geocon's intent during this inspection to conduct an evaluation of lead-based paint hazards in accordance with U.S. Department of Housing and Urban Development (HUD) guidelines. HUD protocol generally requires a very extensive sampling strategy that includes sampling of paint on each surface type (e.g., wall, ceiling, window sill, window frame, door frame, molding, etc.) in each room.

2.0 BACKGROUND

2.1 Asbestos

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

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

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

- Friable (can be crumbled, pulverized, or reduced to powder by hand pressure); or
- Category I material that has become friable; or
- Category I material that has been subjected to sanding grinding, cutting or abrading; or
- Category II nonfriable material that has a high probability of becoming crumbled, pulverized, or reduced to a powder during demolition or renovation activities.

Activities that disturb materials containing *any* amount of asbestos are subject to certain requirements of the Cal/OSHA asbestos standard contained in Title 8, 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 renovation and 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. Renovation or demolition of a deteriorated LCP component would require waste characterization and appropriate disposal. Intact LCP on a component is currently accepted by most landfill 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 total lead content equals or exceeds the respective Total Threshold Limit Concentration (TTLC) of 1,000 milligrams per kilogram (mg/kg); or 2) the 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 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.

2.3 Architectural Drawings and Previous Survey Activities

Caltrans provided cinder shed architectural drawings for our review. We observed no evidence of asbestos-containing products or lead-containing paints specified on the architectural drawings we reviewed. Previous survey reports for the project were not available for our review.

3.0 SCOPE OF SERVICES

Mr. David Watts, a California-Certified Asbestos Consultant (CAC), certification No. 98-2404 (expiration September 16, 2009), and Certified Lead Paint Inspector/Assessor and Project Monitor with the California Department of Public Health (DPH), certification numbers I-1734 and M-1734 (expiration December 4, 2009), performed the asbestos and LCP survey at the project location on January 21, 2009.

3.1 Asbestos

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

Our procedures for inspection and sampling in accordance with TO-62 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 a labeled container. Note that when multiple samples were collected, the sampling locations were distributed throughout the homogeneous area (spaces where the material was observed).
- Relinquished bulk asbestos samples to EMSL Analytical, Inc., a California-licensed and Caltrans-approved subcontractor, for asbestos analysis in accordance with United States Environmental Protection Agency (EPA) Test Method 600/R-93/116 using polarized light microscopy (PLM) under chain-of-custody protocol. EMSL Analytical, Inc. is a laboratory accredited by the National Institute of Standards and Technology National Voluntary Laboratory Accreditation Program (NIST-NVLAP) for bulk asbestos fiber analysis. The laboratory analyses were requested under a 48-hour turn-around-time.

Sample identification numbers, material descriptions, approximate quantities, friability assessments, and photo references are summarized on Table 1. Approximate sample locations are presented on Figure 2.

3.2 Lead Paint

Four bulk samples of suspect LCP were collected at the project location. Our paint sampling procedures are discussed below:

- Collected representative bulk samples of suspect LCP using techniques presented in HUD guidelines. In addition, the painted areas were evaluated for evidence of deterioration such as flaking or cracking.
- Relinquished paint samples to Advanced Technology Laboratories (ATL), a California-licensed laboratory, for lead analyses in accordance with EPA Test Method 6010 under standard chain-of-custody procedures. ATL is accredited by the California DPH for lead analysis. The laboratory analyses were requested under a 48-hour turn-around-time.

Geocon paint sample identification numbers, paint descriptions, approximate peeling/flaking quantities, and photo references are summarized on Table 2. Approximate sample locations are presented on Figure 2.

4.0 INVESTIGATIVE RESULTS

4.1 Asbestos

Chrysotile asbestos at a concentration of less than (<) 0.1% was detected in samples representing approximately 50 square feet of nonfriable window putty.

Asbestos was not detected in the remaining samples collected during our survey. A summary of the analytical laboratory test results for asbestos is presented on Table 1. Reproductions of the laboratory report and chain-of-custody documentation are presented in Appendix A.

4.2 Lead Paint

A sample representing approximately 500 square feet of deteriorated silver exterior paint exhibited a total lead concentration of 64,000 mg/kg and a soluble (TCLP) lead concentration of 120 mg/l.

A sample representing approximately 50 square feet of deteriorated green exterior paint exhibited a total lead concentration of 4,000 mg/kg and a soluble (TCLP) lead concentration of 10 mg/l.

A sample representing approximately 250 square feet of deteriorated white exterior paint exhibited a total lead concentration of 4.8 mg/kg.

A sample representing approximately 500 square feet of deteriorated light blue interior paint exhibited a total lead concentration of 110,000 mg/kg and a soluble (TCLP) lead concentration of 130 mg/l.

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

5.0 RECOMMENDATIONS

Based on our findings, we recommend the following:

5.1 Asbestos

NESHAP regulations do not require that asbestos-containing window putty identified during our survey be removed prior demolition or be treated as a hazardous waste. However, certain requirements of the Cal/OSHA asbestos standard (such as wet work methods and the prompt cleanup of asbestos-containing debris) still apply. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

We also recommend the notification of contractors (that will be conducting demolition or related activities) and cinder shed employees of the presence of asbestos in their work areas (i.e., provide the contractors and employees with a copy of this report). Contractors and/or employees should be instructed not to disturb asbestos during their work.

In accordance with Great Basin Unified Air Pollution Control District Rule 1002, written notification is required ten working days prior to commencement of *any* demolition activity (whether asbestos is present or not).

5.2 Lead Paint

Peeling/flaking silver and green (exterior), and light blue (interior) paints identified during our survey would be classified as California and Federal hazardous wastes based on lead content. As such, they must be removed and disposed of prior to renovation, demolition, or other activities that would disturb them. The contractor should 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 paints with hazardous lead levels 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 may require additional waste characterization. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

Deteriorated lead-containing white exterior paint identified during our survey would not be classified as a California or Federal hazardous waste based on lead content.

Geocon recommends that all paints at the project location be treated as lead-containing for purposes of determining the applicability of the Cal/OSHA lead standard during any future 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 industrial 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.

6.0 REPORT LIMITATIONS

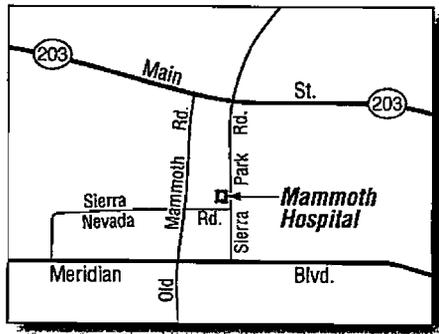
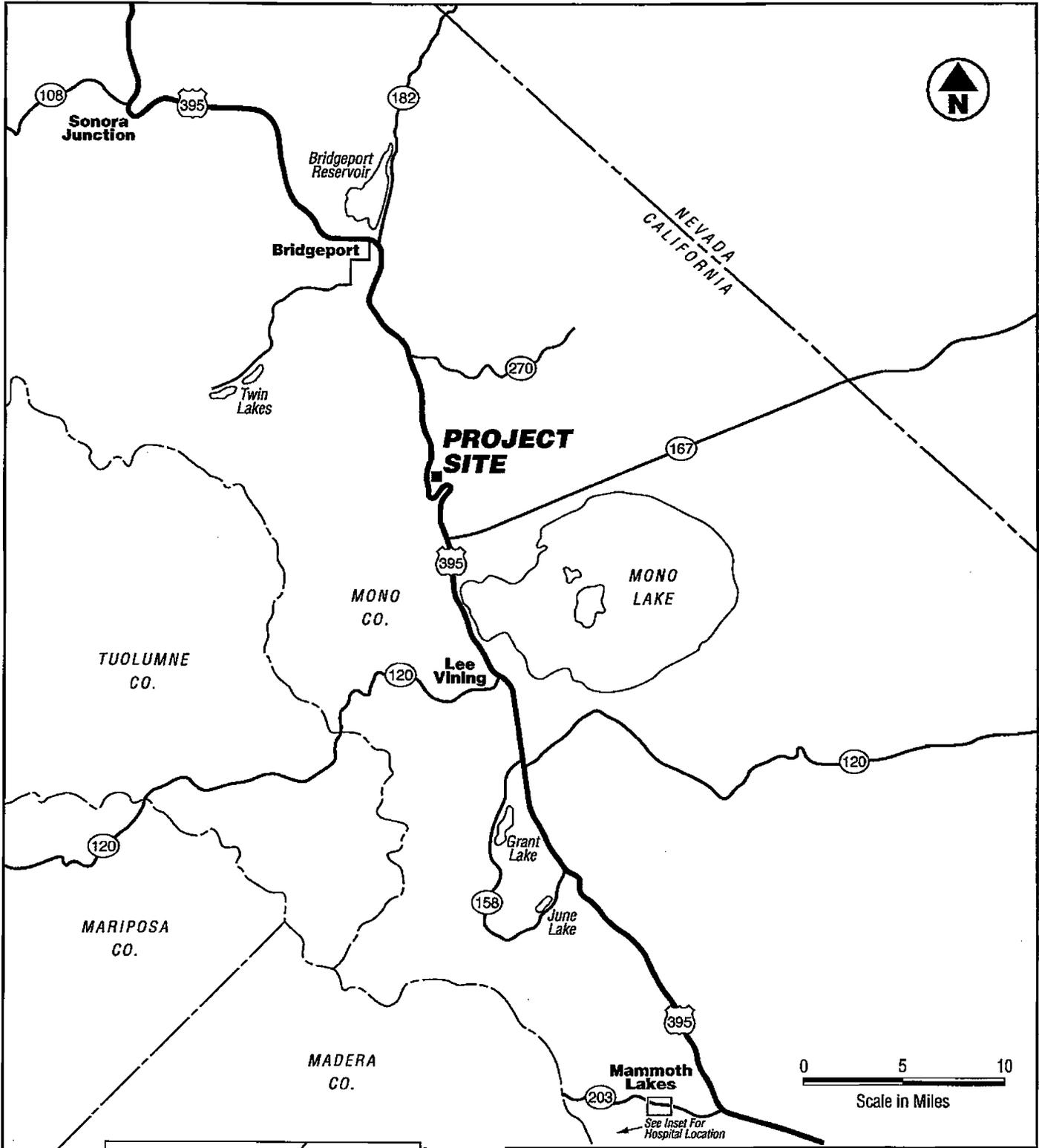
This asbestos and LCP survey was conducted in conformance with generally accepted standards of practice for identifying and evaluating asbestos and LCP in structures. The survey addressed only the structure identified in Section 1.1. Due to the nature of structure surveys, asbestos and LCP use, and laboratory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

During renovation or demolition operations, suspect materials may be uncovered which are different from those accessible for sampling during this assessment. Personnel in charge of renovation/demolition should be alerted to note materials uncovered during such activities that differ substantially from those included in this or previous assessment reports. If suspect ACM and/or LCP are found, additional sampling and analysis should be performed to determine if the materials contain asbestos or lead.

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

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

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



GEOCON
CONSULTANTS, INC.

3160 GOLD VALLEY DR. - SUITE 800 - RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 - FAX 916 852-9132

Conway Summit Cinder Shed

Mono County,
California

VICINITY MAP

GEOCON Proj. No. S9200-06-62

Task Order No. 62, EA 09-341601

February 2009

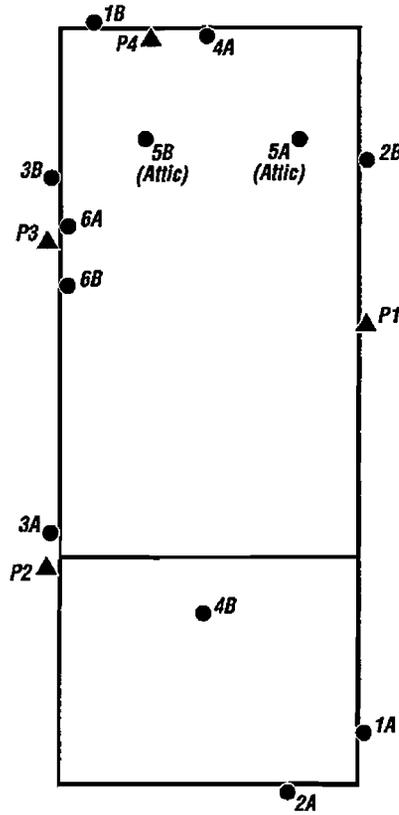
Figure 1



To
Bridgeport

HIGHWAY
395

To
Lee Vining



CONWAY SUMMIT CINDER SHED

SCALE APPROXIMATE

LEGEND:

- Approximate Asbestos Sample Location
- ▲ Approximate Paint Sample Location



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Conway Summit Cinder Shed

Mono County,
California

SITE PLAN

GEOCON Proj. No. S9200-06-62

Task Order No. 62, EA 09-341601

February 2009

Figure 2



Photo 1 – Conway Summit Cinder Shed



Photo 2 – Conway Summit Cinder Shed



Photo 3 – North exterior wall



GEOCON
CONSULTANTS, INC.

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PHOTOGRAPHS 1, 2, & 3

Conway Summit Cinder Shed
Mono County, California

S9200-06-62

February 2009

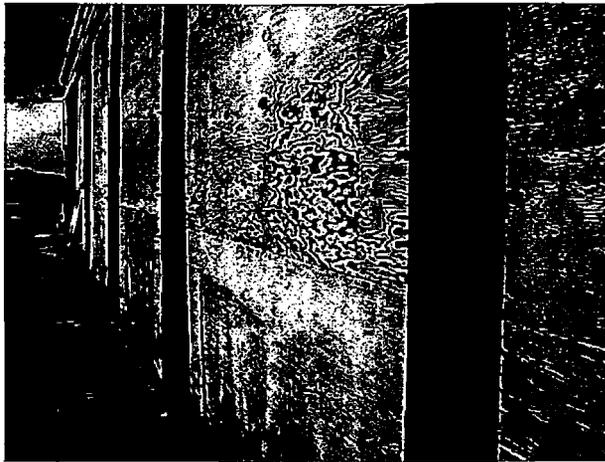


Photo 4 – West exterior wall

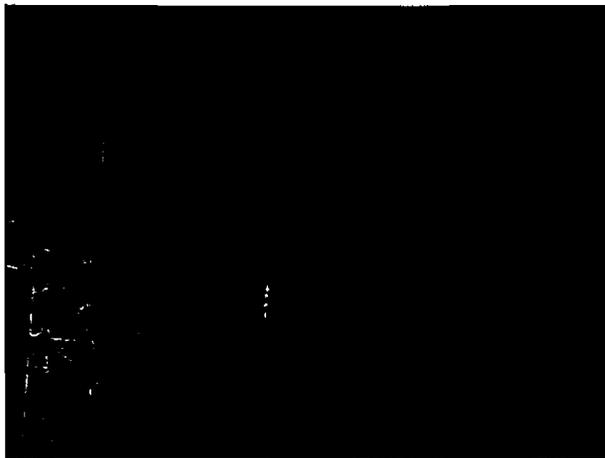


Photo 5 – Interior



Photo 6 – Interior wall



GEOCON
CONSULTANTS, INC.

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PHOTOGRAPHS 4, 5, & 6

Conway Summit Cinder Shed
Mono County, California

S9200-06-62

February 2009



Photo 7 - West interior wall



Photo 8 - Ceiling

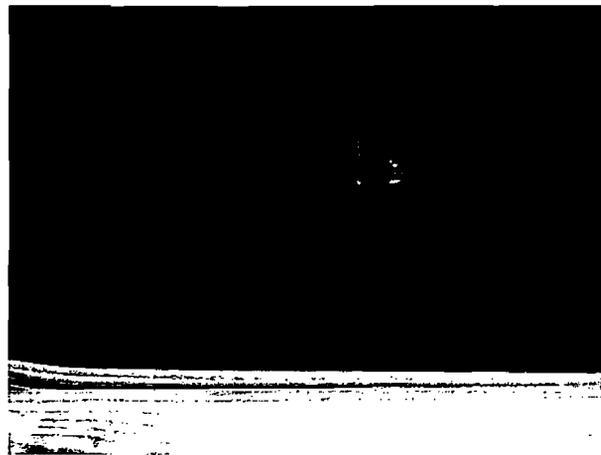


Photo 9 - Ceiling cavity



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CONSULTANTS, INC.

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PHOTOGRAPHS 7, 8, & 9

Conway Summit Cinder Shed
Mono County, California

S9200-06-62

February 2009

TABLE 1
 SUMMARY OF ASBESTOS ANALYTICAL RESULTS
 CONWAY SUMMIT CINDER SHED
 CALTRANS CONTRACT 06A1141, TASK ORDER NO. 62, EA 09-341601
 MONO COUNTY, CALIFORNIA

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

Asbestos Sample No.	Description of Material	Approximate Quantity	Friable	Site Photos	Asbestos Content
1A	Textured exterior paint (silver)	NA	NA	1, 2, & 3	ND
1B					ND
2A	Window putty	50 square feet	No	3	<0.1%*
2B					<0.1%*
3A	Textured exterior paint (green)	NA	NA	4	ND
3B					ND
4A	Textured interior paint (light blue)	NA	NA	5 & 6	ND
4B					ND
5A	Lay-in attic insulation	NA	NA	9	ND
5B					ND
6A	Vapor barrier	NA	NA	7	ND
6B					ND

Notes:

NA = Not applicable (no asbestos detected)

ND = Not detected

* Material analyzed using PLM Point Count Methodology (1,000 points)

TABLE 2
SUMMARY OF PAINT ANALYTICAL RESULTS – LEAD
CONWAY SUMMIT CINDER SHED
CALTRANS CONTRACT 06A1141, TASK ORDER NO. 62, EA 09-341601
MONO COUNTY, CALIFORNIA

Paint Sample No.	Paint Description	Approximate Quantity Peeling/Flaking	Site Photos	Total Lead (mg/kg)	TCLP Lead (mg/l)
P1	Textured exterior paint (silver)	500 square feet	1, 2, & 3	64,000	120
P2	Textured exterior paint (green)	50 square feet	4	4,000	10
P3	White exterior paint	250 square feet	4	4.8	---
P4	Textured interior paint (light blue)	500 square feet	5 & 6	110,000	130

Notes:

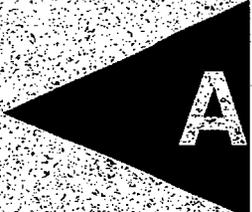
mg/kg = Milligrams per kilogram

TCLP = Toxicity Characteristic Leaching Procedure (EPA Test Method 1311)

mg/l = Milligrams per liter

--- = Not tested

APPENDIX





EMSL Analytical, Inc

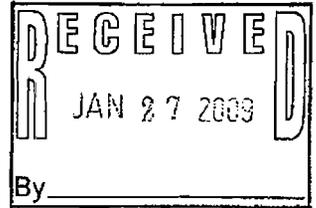
2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577

Phone: (510) 895-3675 Fax: (510) 895-3680 Email: milpitaslab@emsl.com

Attn: **Dave Watts**
Geocon Consultants
6671 Brisa Street
Livermore, CA 94550

Fax: (925) 371-5915 Phone: (925) 371-5900
Project: S9200-06-62, Conway Summit, Mono County, CA

Customer ID: GECN21
Customer PO: S9200-06-62
Received: 01/22/09 9:40 AM
EMSL Order: 090900444
EMSL Proj: S9200-06-**
Analysis Date: 1/23/2009
Report Date: 1/24/2009

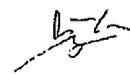


Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1A, Exterior paint, textured 090900444-0001		Silver, White, Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
1B, Exterior paint, textured 090900444-0002		Silver, White, Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2A, Window putty 090900444-0003		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
2B, Window putty 090900444-0004		Various Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
3A, Exterior trim, textured 090900444-0005		Green Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
3B, Exterior trim, textured 090900444-0006		Green Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
4A, Interior paint, textured 090900444-0007		Blue Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Jorge Leon (12)


Baojia Ke, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

NVLAP Lab Code 101048-3



EMSL Analytical, Inc

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

Phone: (510) 895-3675 Fax: (510) 895-3680 Email: milpitaslab@emsl.com

Attn: **Dave Watts**
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6671 Brisa Street
Livermore, CA 94550

Fax: (925) 371-5915 Phone: (925) 371-5900
Project: S9200-06-62, Conway Summit, Mono County, CA

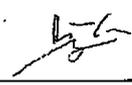
Customer ID: GECN21
Customer PO: S9200-06-62
Received: 01/22/09 9:40 AM
EMSL Order: 090900444
EMSL Proj: S9200-06-62
Analysis Date: 1/23/2009
Report Date: 1/24/2009

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4B, Interior paint, textured 090900444-0008		Blue Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
5A, Lay-in insulation 090900444-0009		Gray, Brown Fibrous Homogeneous	40% Cellulose 60% Glass		None Detected
5B, Lay-in insulation 090900444-0010		Gray, Brown Fibrous Homogeneous	40% Cellulose 60% Glass		None Detected
6A, Vapor barrier 090900444-0011		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
6B, Vapor barrier 090900444-0012		Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected

Analyst(s)

Jorge Leon (12)


Baojia Ke, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.
NVLAP Lab Code 101048-3

Chain of Custody Form

90900444

Project No.: 39200-06-62 Client Name: GEOCON Analyze sample sets until positive? Yes No

Report Results to: D. WATTS Office Location: LIVERMORE, CA Analytical Fee (per sample): \$48 Hr Date(s) Inspected: 21 JAN 2009

Consultants Ph. #: (925) 371-5900 Consultants Fax #: (925) 371-5915 Other Comments: PLM

Site Name: CONWAY Summit Building No.: _____ Site Address: MONO COUNTY, CA

Material Code	Sample Number			Samples Collected											Not Sampled	Material Description	
	Site No.	Bldg. No.	Material Link No.	A	B	C	D	E	F	G	H	I	J	K			
			1	X	X												SILVER EXTERIOR PAINT (TEXTURED)
			2	X	X												WINDOW PUTTY
			3	X	X												GREEN EXTERIOR TRIM (TEXTURED)
			4	X	X												LIGHT BLUE INTERIOR PAINT (TEXTURED)
			5	X	X												LAY-IN INSULATION
			6	X	X												VAPOR BARRIER

Relinquished by: Print Name: D. Watts Signature: [Signature] Date/Time: 21 JAN 2009 1500

Received by: Print Name: UP S Signature: [Signature] Date/Time: 21 JAN 2009 1500

Relinquished by: Print Name: _____ Signature: _____ Date/Time: _____

Received by: Print Name: Storey Signature: [Signature] Date/Time: 1/20/09 @ 9:40 AM

- | | | | | | |
|---|--|--|---|---|--|
| <p>Flooring</p> <ul style="list-style-type: none"> CFT = Ceramic floor tile grout/mastic (M) F = Floor material-Generic (M) FMAF = Floor mastic (M) FT = Vinyl composite tile floor (M) FS = Vinyl composite sheet floor (M) FLC = Floor leveling compound (M) TBRF = Terrazzo flooring (M) | <p>Wall/Ceiling/Other</p> <ul style="list-style-type: none"> ACOU = Textured acoustical (sprayed) (S) BDM = Baseboard mastic (M) CM = Ceiling (unspecified type) (M) CS = Ceiling (unspecified type) (S) CP = Ceiling panel - Lay-in (M) CMAS = Ceiling mastic (M) CT = Ceiling tile - Splined or nailed (M) CTG = Ceiling tile - Glued (M) CWT = Ceramic wall tile grout & mastic (M) DBDM = Debris (unspecified) (M) DBDS = Debris (unspecified) (S) DBDT = Debris (unspecified) (TSI) DOOR = Door core insulation - Fire door (M) | <ul style="list-style-type: none"> OFM = Other friable material (M) OFB = Other friable material (S) ONFM = Other nonfriable material (M) ONFS = Other nonfriable materials (S) PL = Plaster (wall or ceiling) (S) SHR = Sheetrock (no joint compound) (M) SHRJC = Sheetrock with joint compound (M) STUC = Stucco (S) STUC = Structural fireproofing (S) TRAN = Transite panel (M) TK = Surface texturing on walls/ceiling (S) WM = Wall (unspecified type) (M) WS = Wall (unspecified type) (S) WT = Wall tile - Splined or nailed (M) WTG = Wall tile - Glued on (M) | <p>Plumbing/TSI</p> <ul style="list-style-type: none"> FI = Fitting insulation (type not specified) (TSI) FICIW = Fitting - Chilled water system (TSI) FICON = Fitting - Condensate (TSI) FICDW = Fitting - Domestic cold water (TSI) FIDIW = Fitting - Domestic hot water (TSI) FIH1W = Fitting - Heating hot water (TSI) FISTM = Fitting - Steam (TSI) DI = Duct insulation (TSI) DTAPU = Duct joint tape/compound (M) DFLEX = HVAC - Flexible duct/flex duct joint (M) DFLEX = Mech. equipment - Flex insulation (TSI) | <ul style="list-style-type: none"> MOSKT = Mech. equipment - Tank insulation (M) NTANK = Mech. equipment - Tank insulation (TSI) PI = Pipe insulation (type not specified) (TSI) PICIW = Pipe insulation - Chilled water system (TSI) FICON = Pipe insulation - Condensate (TSI) PICDW = Pipe insulation - Domestic cold water (TSI) PIDIW = Pipe insulation - Domestic hot water (TSI) PIH1W = Pipe insulation - Heating hot water (TSI) PISTM = Pipe insulation - Steam (TSI) PTRAN = Pipe - Transite (M) | <p>Roofing</p> <ul style="list-style-type: none"> RF = Roofing material (M) RFAG = Asphalt and gravel (M) RFAT = Asphalt roof tile (M) RFLS = Flashing (M) RFLM = Felt material (M) RFMAS = Penetration mastic (M) RFR01 = Rolled sheet type (M) RTRAN = Transite shingle (M) |
|---|--|--|---|---|--|
- (M) = Miscellaneous material
(S) = Surfacing material
(TSI) = Thermal System Insulation

1/2

January 26, 2009



Dave Watts
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
Arizona: AZ0689
CSDLAC No.: 10196
Workorder No.: 103395

RE: Conway Summit, S9200-06-62

Attention: Dave Watts

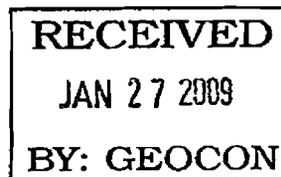
Enclosed are the results for sample(s) received on January 22, 2009 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,


Eddie F. Rodriguez
Laboratory Director



The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



CLIENT: Geocon Consultants, Inc.
Project: Conway Summit, S9200-06-62
Lab Order: 103395

CASE NARRATIVE

Analytical Comments for Method 7420

Dilution was necessary for samples 103395-001A and 103395-004A, due to sample matrix.



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 26-Jan-09

CLIENT: Geocon Consultants, Inc.
Project: Conway Summit, S9200-06-62

Lab Order: 103395

Lab ID: 103395-001 Collection Date: 1/21/2009 10:21:00 AM
Client Sample ID: P1 Matrix: PAINT CHIP

Analyses Result PQL Qual Units DF Date Analyzed

ICP METALS

EPA 3050B

EPA 6010B

RunID: ICP8_090123C QC Batch: 52412 PrepDate: 1/22/2009 Analyst: CL
Lead 64000 40 mg/Kg 10 1/23/2009 02:34 PM

Lab ID: 103395-002 Collection Date: 1/21/2009 10:34:00 AM
Client Sample ID: P2 Matrix: PAINT CHIP

Analyses Result PQL Qual Units DF Date Analyzed

ICP METALS

EPA 3050B

EPA 6010B

RunID: ICP8_090123C QC Batch: 52412 PrepDate: 1/22/2009 Analyst: CL
Lead 4000 4.0 mg/Kg 1 1/26/2009 12:17 PM

Lab ID: 103395-003 Collection Date: 1/21/2009 10:51:00 AM
Client Sample ID: P3 Matrix: PAINT CHIP

Analyses Result PQL Qual Units DF Date Analyzed

ICP METALS

EPA 3050B

EPA 6010B

RunID: ICP8_090123C QC Batch: 52412 PrepDate: 1/22/2009 Analyst: CL
Lead 4.8 4.0 mg/Kg 1 1/26/2009 12:22 PM

Lab ID: 103395-004 Collection Date: 1/21/2009 11:11:00 AM
Client Sample ID: P4 Matrix: PAINT CHIP

Analyses Result PQL Qual Units DF Date Analyzed

ICP METALS

EPA 3050B

EPA 6010B

RunID: ICP8_090123C QC Batch: 52412 PrepDate: 1/22/2009 Analyst: CL
Lead 110000 80 mg/Kg 20 1/26/2009 12:27 PM

- Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 28-Jan-09

CLIENT: Geocon Consultants, Inc.
Project: Conway Summit, S9200-06-62

Lab Order: 103395

Lab ID: 103395-001 **Collection Date:** 1/21/2009 10:21:00 AM
Client Sample ID: P1 **Matrix:** PAINT CHIP

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

LEAD BY ATOMIC ABSORPTION (TCLP)

EPA 1311 EPA 1311/ 7420

RunID: AA2_090128A	QC Batch: 52527				PrepDate:	Analyst: VV
Lead	120	1.0	mg/L	4		1/28/2009 11:58 AM

Lab ID: 103395-002 **Collection Date:** 1/21/2009 10:34:00 AM
Client Sample ID: P2 **Matrix:** PAINT CHIP

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

LEAD BY ATOMIC ABSORPTION (TCLP)

EPA 1311 EPA 1311/ 7420

RunID: AA2_090128A	QC Batch: 52527				PrepDate:	Analyst: VV
Lead	10	0.25	mg/L	1		1/28/2009 11:57 AM

Lab ID: 103395-004 **Collection Date:** 1/21/2009 11:11:00 AM
Client Sample ID: P4 **Matrix:** PAINT CHIP

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

LEAD BY ATOMIC ABSORPTION (TCLP)

EPA 1311 EPA 1311/ 7420

RunID: AA2_090128A	QC Batch: 52527				PrepDate:	Analyst: VV
Lead	130	1.0	mg/L	4		1/28/2009 11:58 AM

Qualifiers: B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 S Spike/Surrogate outside of limits due to matrix interference
 DO Surrogate Diluted Out
 E Value above quantitation range
 ND Not Detected at the Reporting Limit
 Results are wet unless otherwise specified





Advanced Technology
Laboratories

3275 Walnut Avenue

Signal Hill, CA 90755

Tel: 562 989-4045

Fax: 562 989-4040

Advanced Technology Laboratories

Date: 26-Jan-09

CLIENT: Geocon Consultants, Inc.
Work Order: 103395
Project: Conway Summit, S9200-06-62

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID:	SampType:	TestCode:	Units:	Prep Date:	RunNo:						
MB-52412	MBLK	6010_S	mg/Kg	1/22/2009	104815						
Client ID: PBS	Batch ID: 52412	TestNo: EPA 6010B EPA 3050B		Analysis Date: 1/23/2009	SeqNo: 1639726						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.0									
LCS-52412	LCS	6010_S	mg/Kg	1/22/2009	104815						
Client ID: LCSS	Batch ID: 52412	TestNo: EPA 6010B EPA 3050B		Analysis Date: 1/23/2009	SeqNo: 1639729						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	49.433	1.0	50.00	0	98.9	80	120				
103407-005ADUP	DUP	6010_S	mg/Kg	1/22/2009	104815						
Client ID: ZZZZZZ	Batch ID: 52412	TestNo: EPA 6010B EPA 3050B		Analysis Date: 1/23/2009	SeqNo: 1639735						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.891	1.0						8.437	53.2	20	R
103407-005AMS	MS	6010_S	mg/Kg	1/22/2009	104815						
Client ID: ZZZZZZ	Batch ID: 52412	TestNo: EPA 6010B EPA 3050B		Analysis Date: 1/23/2009	SeqNo: 1639738						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	99.352	1.0	125.0	8.437	72.7	33	120				
103407-005AMSD	MSD	6010_S	mg/Kg	1/22/2009	104815						
Client ID: ZZZZZZ	Batch ID: 52412	TestNo: EPA 6010B EPA 3050B		Analysis Date: 1/23/2009	SeqNo: 1639739						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	95.403	1.0	125.0	8.437	69.6	33	120	99.35	4.06	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



Advanced Technology Laboratories

Date: 28-Jan-09

CLIENT: Geocon Consultants, Inc.
Work Order: 103395
Project: Conway Summit, S9200-06-62

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID	SampType	TestCode	Units	Prep Date	RunNo						
MB-52537	MBLK	7420_TC	mg/L		104993						
Client ID: PBS	Batch ID: 52527	TestNo: EPA 1311/ 74 EPA 1311		Analysis Date: 1/28/2009	SeqNo: 1642753						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.174	0.25									
MB-52527 TCLP	MBLK	7420_TC	mg/L		104993						
Client ID: PBS	Batch ID: 52527	TestNo: EPA 1311/ 74 EPA 1311		Analysis Date: 1/28/2009	SeqNo: 1642754						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.227	0.25									
LCS-52537	LCS	7420_TC	mg/L		104993						
Client ID: LCSS	Batch ID: 52527	TestNo: EPA 1311/ 74 EPA 1311		Analysis Date: 1/28/2009	SeqNo: 1642755						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.135	0.25	5.000	0.1739	99.2	80	120				
103323-002A-MS	MS	7420_TC	mg/L		104993						
Client ID: ZZZZZZ	Batch ID: 52527	TestNo: EPA 1311/ 74 EPA 1311		Analysis Date: 1/28/2009	SeqNo: 1642757						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.825	0.25	2.500	2.306	101	70	130				
103323-002A-MSD	MSD	7420_TC	mg/L		104993						
Client ID: ZZZZZZ	Batch ID: 52527	TestNo: EPA 1311/ 74 EPA 1311		Analysis Date: 1/28/2009	SeqNo: 1642758						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.801	0.25	2.500	2.308	99.8	70	130	4.825	0.492	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



Advanced Technology
Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Geocon Consultants, Inc.
Work Order: 103395
Project: Conway Summit, S9200-06-62

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: 103395-004A-DUP	SampType: DUP	TestCode: 7420_TC	Units: mg/L	Prep Date:	RunNo: 104993						
Client ID: P4	Batch ID: 62527	TestNo: EPA 1311/ 74	EPA 1311	Analysis Date: 1/28/2009	SeqNo: 1642762						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	126.479	1.0						125.5	0.782	20	

Qualifiers:

- | | | |
|---|--|--|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |

Diane Galvan

From: David Watts [watts@geoconinc.com]
Sent: Friday, January 23, 2009 11:50 AM
To: Diane Galvan
Subject: S9200-06-62 (Conway Summit)

Diane...for the four paint samples on this project:

- Please run TCLPs on samples with total Pb results $\geq 1,000$ ppm.
- Please proceed with WETs on samples with total Pb results ≥ 50 ppm *but* are also $< 1,000$ ppm.
- Please run TCLPs on samples that fail WET *and* have a TTLC ≥ 100 ppm.
(48-hr TATs)

Thanks.

David Watts
Senior Project Scientist
Please visit our new website at <http://www.geoconinc.com>

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GEOTECHNICAL - ENVIRONMENTAL - MATERIALS

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