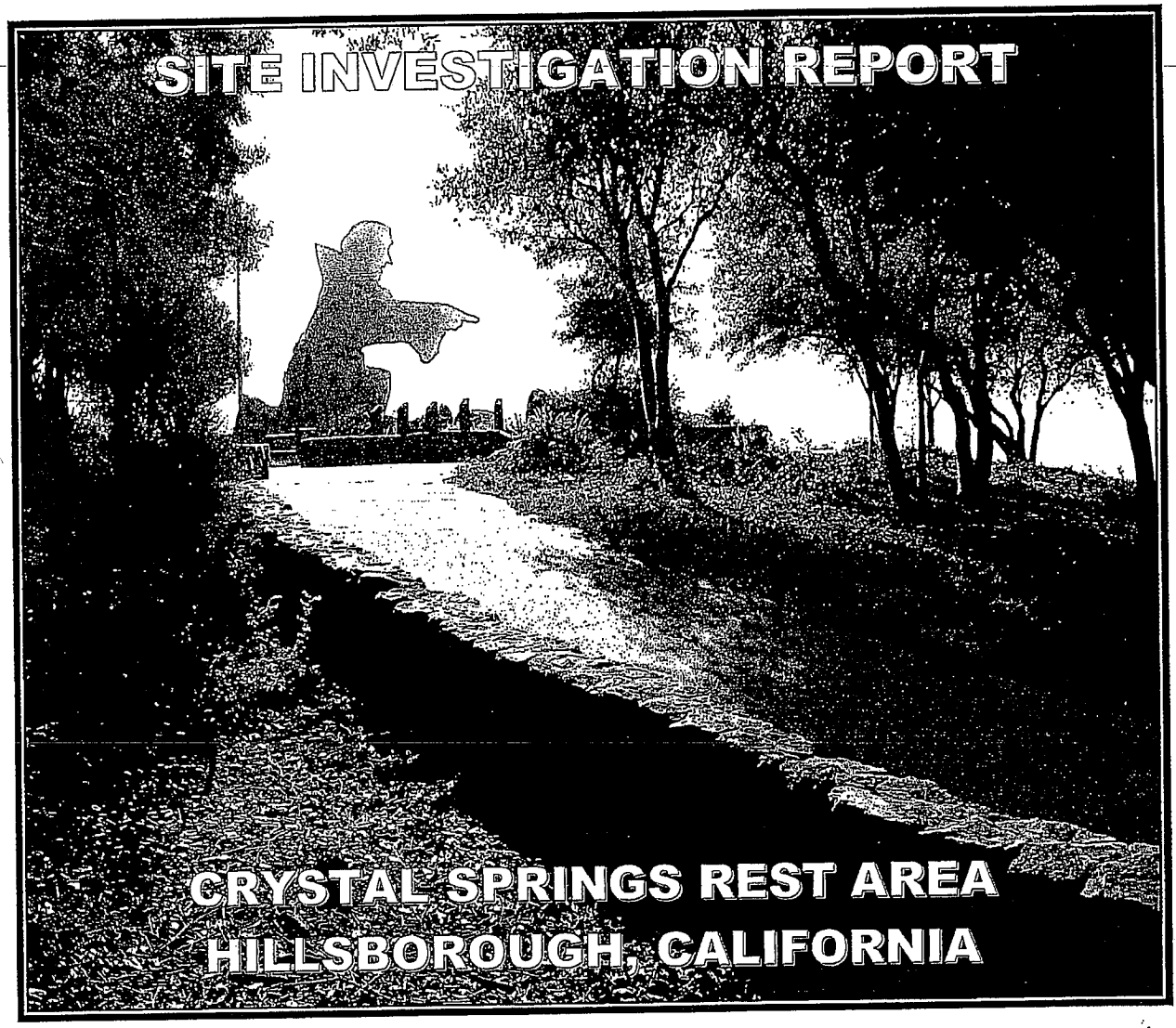

PREPARED FOR:
CALIFORNIA DEPARTMENT OF TRANSPORTATION
DISTRICT 4
OFFICE OF ENVIRONMENTAL ENGINEERING
111 GRAND AVENUE
OAKLAND, CALIFORNIA

PREPARED BY:
GEOCON CONSULTANTS, INC.
2356 RESEARCH DRIVE
LIVERMORE, CALIFORNIA

CALTRANS CONTRACT 04A1862
TASK ORDER NO. 71
EA No. 04-0A9201

GEOCON PROJECT NO. E8220-06-71

Caltrans

GEOCON

MARCH 2007

SITE INVESTIGATION REPORT

Page

REPORT LIMITATIONS i

PROJECT TEAM ii

EXECUTIVE SUMMARY iii

1.0 INTRODUCTION 1
- 1.1 Site Description and Proposed Improvements 1
- 1.2 Purpose 1

2.0 BACKGROUND 2
- 2.1 Potential ADL Impacts 2
- 2.2 Hazardous Waste Determination Criteria 2
- 2.3 NOA Reuse/Disposal Criteria 3

3.0 SCOPE OF SERVICES 5
- 3.1 Pre-Field Activities 5
- 3.2 Field Activities 5

4.0 INVESTIGATIVE METHODS 6
- 4.1 Sampling Procedures 6
- 4.2 Laboratory Analyses 6
- 4.3 Laboratory QA/QC 7

5.0 INVESTIGATIVE RESULTS 8
- 5.1 Soil Analytical Results 8

6.0 CONCLUSIONS 9
- 6.1 Lead 9
- 6.2 NOA 9

TABLES
1. Boring Coordinates
2. Summary of Lead, pH, and NOA Results

FIGURES
1. Vicinity Map
2. Site Plan

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

REPORT LIMITATIONS

This report has been prepared exclusively for the State of California Department of Transportation (Caltrans) District 4. The information contained herein is only valid as of the date of the report, and will require an update to reflect additional information obtained.

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

The contents of this report reflect the views of the 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

David Watts, CAC
Project Scientist

Richard Day, CEG, CHG
Regional Manager

PROFESSIONAL GEOLOGIST
RICHARD W. DAY
No. 5479
Exp. 09-30-07
STATE OF CALIFORNIA

CALIFORNIA DEPARTMENT OF TRANSPORTATION – DISTRICT 4
OFFICE OF ENVIRONMENTAL ENGINEERING

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Dan Kocher 408.934.7010 408.934.7015 fax milpitaslab@emsl.com	EMSL Analytical, Inc. 382 South Abbott Avenue Milpitas, CA 95035 (*Geocon Subcontractor*)	NOA Analysis

EXECUTIVE SUMMARY

We prepared this Site Investigation Report for the Crystal Springs Safety Roadside Rest Area Project. This report documents our investigation sampling methods and laboratory analytical data.

The project consists of the Crystal Springs Safety Roadside Rest Area (SRRA) at Post Mile (PM) 13.4 on State Route (SR) 280 in Hillsborough, San Mateo County, California. The project location is depicted on the Vicinity Map, Figure 1. We understand that Caltrans proposes to perform various SRRA improvements.

The purposes of the scope of services performed were to 1) evaluate whether impacts due to aerially deposited lead (ADL) exist in the surface and near surface soil within the project boundaries; and 2) evaluate for the presence of naturally-occurring asbestos (NOA) in soil within the project boundaries. Caltrans will use the information obtained from this investigation to coordinate improvement activities, determine soil disposal costs, and identify health and safety concerns during improvements.

We performed the field investigation on January 25, 2007. The following field activities were performed during soil sampling efforts.

- Advanced five soil borings using hand auger methods.
- Collected samples in pre-cleaned and unused containers.
- Transported samples to California-certified environmental laboratories.

We collected soil samples from five borings (CSB1 through CSB5) shown in the Site Plan, Figure 2. Boring locations were surveyed using Differential Global Positioning System (DGPS) equipment. Boring coordinates are presented in Table 1.

We advanced soil borings to a maximum depth of approximately 2.5 feet below ground surface (bgs) using hand augers. Samples were collected from each boring at approximate depth intervals of 0 to 0.5 foot, 1 to 1.5 feet, and 2.0 to 2.5 feet. We collected a total of 30 soil samples. Completed soil boreholes were backfilled to surface with the soil cuttings.

The laboratory testing performed is summarized below:

- Total lead was determined using EPA Test Method 6010.
- One soil sample had a total lead concentration greater than 50 mg/kg and was further analyzed for soluble (Waste Extraction Test [WET]) lead using EPA Test Method 7420.
- pH was determined using EPA Test Method 9045.
- NOA was determined using CARB Method 435A.

Laboratory analyses were requested under 72-hour turn-around-times. Reproductions of the laboratory reports and chain-of-custody documentation are presented in Appendix A.

A summary of the analytical laboratory test results for lead, pH, and NOA is presented as Table 2. The laboratory analyses indicated the following:

- Soil samples analyzed for total lead exhibited concentrations ranging from less than the laboratory reporting limit of 5.0 milligrams per kilogram (<5.0 mg/kg) to 84 mg/kg.
- The soluble (WET) lead concentration was 4.1 milligrams per liter (mg/l).
- Soil pH values ranged from 7.2 to 7.8.
- Chrysotile asbestos was detected at concentrations ranging from <0.25% to 6% in 12 of the 15 soil samples analyzed for NOA.

Lead

Based on the analytical results, soil excavated from the site would not be classified as a hazardous waste based on lead content. Consequently, soil can be reused without restrictions or disposed of as non-hazardous waste with respect to lead content.

Per Caltrans standard requirements, contractor(s) should prepare a project-specific Lead Compliance Plan to prevent or minimize worker exposure to lead impacted soil. The plan should include protocols for environmental and personnel monitoring, requirements for personal protective equipment, and other appropriate health and safety protocols and procedures for the handling of lead impacted soil.

NOA

The following conclusions and recommendations are based on the site investigation results and are applicable regardless of whether the excavated NOA containing materials generated during construction activities are reused onsite or transported offsite for disposal.

Naturally-occurring asbestos is a State of California regulated substance. Excavated materials with levels equal to or exceeding the CARB regulatory limit of 0.25% NOA content cannot be used as, or in such a way that it could fall under the definition of, surfacing material as defined by the ATCM 93106 Rules.

The asbestos content of some of the materials sampled on the project site equals or is in excess of the CARB limit of 0.25% for surfacing materials. The asbestos type reported is chrysotile, based on CARB 435A analysis. As such, these materials are not suitable for reuse within the project boundaries as surfacing materials but may be used as fill materials provided they are buried beneath a minimum of six inches of clean material. Furthermore, construction/maintenance activities involving disturbance of these asbestos-containing materials falls under regulatory jurisdiction of the California Division of the Occupational Safety and Health Administration (Cal-OSHA) under Title 8 Section 5208 of the California Code of Regulations (CCR). Mitigation measures during construction/maintenance activities are required under ATCM 93105, to minimize releases of NOA to air (dust control) and surface waters (storm water discharge). Asbestos containing soils reused on the project site should be placed in the deepest fills.

Under ATCM 93105, offsite disposal of the material requires asbestos content notification. Facility-specific landfill acceptance criteria should be determined for asbestos containing soil materials. Asbestos at average concentrations equal to or less than 1.0% is generally eligible for disposal in a Class III Waste Management Unit (WMU). Asbestos at concentrations greater than 1.0% will require disposal in an appropriately permitted disposal facility, generally a Class II WMU.

Currently, regulatory exposure limits and health hazard data are not available for NOA in soils. Federal regulations governing asbestos define it as the asbestiform variety of the amphibole minerals actinolite, amosite, anthophyllite, crocidolite, and tremolite, and the asbestiform variety of serpentine, chrysotile. Asbestos fibers occurring in industrial materials are considered by the National Institute for Occupational Safety and Health (NIOSH) as potential occupational carcinogens. Prudence is recommended, therefore, in dealing with soils containing NOA. Engineering controls such as wet suppression should be utilized to minimize aerial dispersion of NOA fibers in planned work areas during excavation and road construction activities. Under Title 8 Section 5208 of the CCR, disturbance of asbestos containing materials requires wet working methods and possible respiratory protection and air monitoring. The CARB has established protocols outlined in ATCM 93105 for the implementation of worker health, safety and monitoring plans for excavation, grading and transport of NOA containing soils. The excavation contractor should consult ATCM 93105 and Bay Area Air Quality Management District Regulation 11, Rule 14. The excavation contractor should also contact Cal-OSHA to establish the appropriate regulatory protocol and actions necessary for excavation and/or disturbance of asbestos containing soils.

1.0 INTRODUCTION

We prepared this Site Investigation Report for the Crystal Springs Safety Roadside Rest Area Project. This report documents our investigation sampling methods and laboratory analytical data.

1.1 Site Description and Proposed Improvements

The project consists of the Crystal Springs Safety Roadside Rest Area (SRRA) at Post Mile (PM) 13.4 on State Route (SR) 280 in Hillsborough, San Mateo County, California. The project location is depicted on the Vicinity Map, Figure 1. We understand that Caltrans proposes to perform various SRRA improvements.

1.2 Purpose

The purposes of the scope of services performed were to 1) evaluate whether impacts due to aerially deposited lead (ADL) exist in the surface and near surface soil within the project boundaries; and 2) evaluate for the presence of naturally-occurring asbestos (NOA) in soil within the project boundaries. The information obtained from this investigation will be used by Caltrans to coordinate improvement activities, determine soil disposal costs, and identify health and safety concerns during improvements.

2.0 BACKGROUND

2.1 Potential ADL Impacts

Testing by Caltrans has indicated that ADL exists along major freeway routes due to past emissions from vehicles powered by leaded gasoline. Caltrans reports that total lead concentrations in soil adjacent to the freeways have typically ranged between 50 and 3,000 milligrams per kilogram (mg/kg). The ADL is generally limited to the upper 0.6 meter of soil material within the unpaved median and shoulder areas.

2.2 Hazardous Waste Determination Criteria

Regulatory criteria to classify waste as a California hazardous waste for handling and disposal purposes are contained in the CCR, Title 22, Division 4.5, Chapter 11, Article 3, §66261.24. Criteria to classify waste as Resource, Conservation, and Recovery Act (RCRA) hazardous are contained in Chapter 40 of the Code of Federal Regulations (40 CFR), Section 261.

For a waste containing metals, the waste is classified as a California hazardous waste when: 1) the total metal content exceeds the respective Total Threshold Limit Concentration (TTLC); or 2) the soluble metal content exceeds the respective Soluble Threshold Limit Concentration (STLC) based on the standard Waste Extraction Test (WET). A waste has the potential of exceeding the STLC when the waste's total metal content is greater than or equal to ten times the respective STLC value since the WET uses a 1:10 dilution ratio. Hence, when a total metal is detected at a concentration greater than or equal to ten times the respective STLC, and assuming that 100 percent of the total metals are soluble, soluble metal analysis is required. A material is classified as RCRA hazardous, or Federal hazardous, when the soluble metal content exceeds the Federal regulatory level based on the Toxicity Characteristic Leaching Procedure (TCLP).

State and Federal regulatory levels have also been established for other compounds such as TPHd, TPHg, and chlorinated herbicides. Currently, regulatory criteria for the classification of wastes based solely on total petroleum hydrocarbon concentrations have not yet been promulgated.

The above regulatory criteria are based on chemical concentrations. Wastes may also be classified as hazardous based on other criteria such as ignitability and corrosivity; 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 a California hazardous waste or a RCRA hazardous waste requires management as a hazardous waste.

Geologic mapping by the California Geologic Survey (CGS) depicts an ultramafic rock formation in the vicinity of the project site. The alteration of ultramafic rocks can lead to the formation of NOA

minerals. Construction activities proposed by Caltrans associated with SRRA improvements may disturb NOA-containing soils and/or rock units, if present. California Code of Regulations (CCR) Title 17, Section 93106 (17 CCR 93106) and Bay Area Air Quality Management District (BAAQMD) Regulation 11, Rule 14 include regulations governing, and recommendations for the mitigation of, airborne asbestos from road surfacing applications. 17 CCR 93106 specifies that using road surfacing material with greater than 0.25 percent asbestos material is not permitted. Materials found to contain asbestos in excess of 0.25 percent are considered to be designated waste if transported offsite, requiring disposal at a landfill facility designated to accept asbestos waste. However, 17 CCR 93106 and Title 17, Section 93105 (17 CCR 93105) both allow for the onsite reuse of NOA containing material, if it is buried under at least 0.15 meter (0.5 foot) of material that does not contain NOA.

17 CCR 93105 requires dust mitigation practices for construction, grading, quarrying, and surface mining operations that result in the disturbance of rock or soil containing more than 0.25% NOA, as outlined in 17 CCR 93105. NOA potentially poses a health hazard when it becomes an airborne particulate. The construction activities implemented for the project improvements could disturb NOA laden soil, thereby potentially creating an airborne hazard. Mitigation practices can reduce the risk of exposure to airborne NOA containing dust. Dust suppression and control practices include wetting the materials being disturbed and wearing approved High Efficiency Particulate Air (HEPA) asbestos masks during construction activities.

2.3 NOA Reuse/Disposal Criteria

As defined in current California Air Resources Board (CARB) rules, serpentine material refers to any material that contains at least 10% serpentine, and asbestos-containing serpentine refers to serpentine materials with an asbestos content greater than 5% as determined by CARB Test Method 435 (CARB 435). The use of serpentine material for road surfacing is prohibited in California by Title 17 of the California Code of Regulations (CCR) Section 93106, Asbestos Airborne Toxic Control Measure (ATCM) for Surfacing Application (ATCM 93106), unless the material has been tested and determined to have an asbestos content of less than 0.25%. Materials found to contain asbestos of 0.25% or more are considered to be designated waste if transported offsite, requiring disposal at a landfill facility designated to accept asbestos waste. Alternatively, asbestos-containing materials may be reused onsite if buried beneath a minimum 6 inches of soil.

The CARB specifies mitigation practices for construction, grading, quarrying, and surface mining operations that contain natural occurrences of asbestos outlined in Title 17, Section 93105 Asbestos ATCM for Construction, Grading, Quarrying, and Surface Mining Operations, (ATCM 93105). Based on Part (e) Subpart (2) of ATCM 93105 an asbestos dust mitigation plan is required and must be implemented for a project if NOA is disturbed after the start of construction. Additionally, ATCM 93105 specifies that the air pollution control district (APCD) must be notified, and an asbestos dust

mitigation plan submitted to the APCD. The ATCM states that air monitoring may be required on the site. NOA potentially posses a health hazard when it becomes an airborne particulate.

The construction/maintenance activities mentioned above could disturb NOA laden debris and soil, thereby potentially creating an airborne hazard. Mitigation practices can reduce the risk of exposure to airborne NOA containing dust. Dust suppression practices include wetting the materials being disturbed and wearing approved respirators with HEPA filters during construction activities.

3.0 SCOPE OF SERVICES

The following scope of services was performed:

3.1 Pre-Field Activities

- Prepared the Workplan, dated January 8, 2007, to summarize the scope of services to be performed by Geocon.
- Prepared the Health and Safety Plan, dated January 15, 2007, to provide guidelines on the use of personal protective equipment (PPE) during the field activities. The Health and Safety Plan also provided guidelines on the use of onsite monitoring equipment and action levels for upgrades to higher PPE.
- Retained the services of California-licensed laboratories to perform the soil analyses.

3.2 Field Activities

Mr. David Watts performed the soil investigation on January 25, 2007, under the responsible charge of Richard Day. Mr. Day is a Professional Geologist in the State of California. The following field activities were performed during soil sampling efforts.

- Advanced five soil borings using hand auger methods.
- Collected samples in laboratory supplied pre-cleaned and unused containers.
- Transported samples to California-certified environmental laboratories.

4.0 INVESTIGATIVE METHODS

4.1 Sampling Procedures

We collected soil samples from five borings (CSB1 through CSB5) shown in the Site Plan, Figure 2. Boring locations were surveyed using Differential Global Positioning System (DGPS) equipment. Boring coordinates are presented in Table 1.

We advanced soil borings to a maximum depth of approximately 2.5 feet below ground surface (bgs) using hand augers. Samples were collected from each boring at approximate depth intervals of 0 to 0.5 foot, 1 to 1.5 feet, and 2.0 to 2.5 feet. We collected a total of 30 soil samples. Completed soil boreholes were backfilled to surface with the soil cuttings.

Geocon provided quality assurance/quality control (QA/QC) procedures during the field activities. These procedures included washing the sampling equipment with a Liquinox™ solution followed by a double rinse with deionized water. Decontamination water was disposed to the ground surface within Caltrans right-of-way in a manner not to create runoff, away from drain inlets or potential water bodies.

Sample containers were sealed, labeled, and transported to Caltrans-approved, certified environmental laboratories using standard chain-of-custody documentation. Groundwater was not encountered during the advancement of the boreholes.

4.2 Laboratory Analyses

The laboratory testing performed is summarized below:

- Total lead was determined using EPA Test Method 6010.
- One soil sample had a total lead concentration greater than 50 mg/kg and was further analyzed for soluble (WET) lead using EPA Test Method 7420.
- pH was determined using EPA Test Method 9045.
- NOA was determined using CARB Method 435A.

Laboratory analyses were performed under 72-hour turn-around-times. Reproductions of the laboratory reports and chain-of-custody documentation are presented in Appendix A.

4.3 Laboratory QA/QC

QA/QC procedures were performed for each method of analysis with specificity for each analyte listed in the test method's QA/QC. The laboratory QA/QC procedures included the following:

- One method blank for every ten samples, batch of samples or type of matrix, whichever was more frequent.
- One sample analyzed in duplicate for every ten samples, batch of samples or type of matrix, whichever was more frequent.
- One spiked sample for every ten samples, batch of samples or type of matrix, whichever was more frequent, with spike made at ten times the detection limit or at the analyte level.

5.0 INVESTIGATIVE RESULTS

5.1 Soil Analytical Results

A summary of the analytical laboratory test results for lead, pH, and NOA is presented as Table 2. The laboratory analyses indicated the following:

- Soil samples analyzed for total lead exhibited concentrations ranging from less than the laboratory reporting limit of 5.0 mg/kg (<5.0 mg/kg) to 84 mg/kg.
- The soluble (WET) lead concentration was 4.1 mg/l.
- Soil pH values ranged from 7.2 to 7.8.
- Chrysotile asbestos was detected at concentrations ranging from <0.25% to 6% in 12 of the 15 soil samples analyzed for NOA.

6.0 CONCLUSIONS

6.1 Lead

Based on the analytical results, soil excavated from the site would not be classified as a hazardous waste based on lead content. Consequently, soil can be reused without restrictions or disposed of as non-hazardous waste with respect to lead content.

Per Caltrans standard requirements, contractor(s) should prepare a project-specific Lead Compliance Plan to prevent or minimize worker exposure to lead impacted soil. The plan should include protocols for environmental and personnel monitoring, requirements for personal protective equipment, and other appropriate health and safety protocols and procedures for the handling of lead impacted soil.

6.2 NOA

The following conclusions and recommendations are based on the site investigation results and are applicable regardless of whether the excavated NOA containing materials generated during construction activities are reused onsite or transported offsite for disposal.

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Currently, regulatory exposure limits and health hazard data are not available for NOA in soils. Federal regulations governing asbestos define it as the asbestiform variety of the amphibole minerals actinolite, amosite, anthophyllite, crocidolite, and tremolite, and the asbestiform variety of serpentine, chrysotile. Asbestos fibers occurring in industrial materials are considered by the National Institute for Occupational Safety and Health (NIOSH) as potential occupational carcinogens. Prudence is recommended, therefore, in dealing with soils containing NOA. Engineering controls such as wet suppression should be utilized to minimize aerial dispersion of NOA fibers in planned work areas during excavation and road construction activities. Under Title 8 Section 5208 of the CCR, disturbance of asbestos containing materials requires wet working methods and possible respiratory protection and air monitoring. The CARB has established protocols outlined in ATCM 93105 for the implementation of worker health, safety and monitoring plans for excavation, grading and transport of NOA containing soils. The excavation contractor should consult ATCM 93105 and Bay Area Air Quality Management District Regulation 11, Rule 14. The excavation contractor should also contact Cal-OSHA to establish the appropriate regulatory protocol and actions necessary for excavation and/or disturbance of asbestos containing soils.

TABLE 1
BORING COORDINATES
Crystal Springs Rest Area
San Mateo County, California

Boring	Northing	Easting
CSB1	1,594,250.804	6,456,052.235
CSB2	1,594,145.247	6,456,099.439
CSB3	1,594,104.847	6,456,076.682
CSB4	1,594,094.856	6,456,029.892
CSB5	1,594,060.651	6,456,021.199

Notes: Northing and Easting shown in feet, NAD 83 (Zone 2)

TABLE 2
SUMMARY OF LEAD, pH, and NOA RESULTS - SOIL
Crystal Springs Rest Area
San Mateo County, California

Sample ID	Sample Depth (feet)	Sample Depth (meters)	Total Lead (mg/kg)	WET Lead (mg/l)	pH	Asbestos Content (% dry weight)
CSB1-0	0	0	19	---	7.8	0.75% Chrysotile
CSB1-1	1	0.3	<5.0	---	---	0.75% Chrysotile
CSB1-2	2	0.6	<5.0	---	---	None Detected
CSB2-0	0	0	84	4.1	---	None Detected
CSB2-1	1	0.3	8.2	---	7.2	<0.25% Chrysotile
CSB2-2	2	0.6	5.5	---	---	None Detected
CSB3-0	0	0	23	---	---	<0.25% Chrysotile
CSB3-1	1	0.3	<5.0	---	---	<0.25% Chrysotile
CSB3-2	2	0.6	<5.0	---	---	1.00% Chrysotile
CSB4-0	0	0	26	---	7.2	<0.25% Chrysotile
CSB4-1	1	0.3	5.6	---	---	0.50% Chrysotile
CSB4-2	2	0.6	<5.0	---	---	1.00% Chrysotile
CSB5-0	0	0	30	---	---	1.25% Chrysotile
CSB5-1	1	0.3	10	---	---	2.50% Chrysotile
CSB5-2	2	0.6	<5.0	---	7.6	6.00% Chrysotile

Notes:

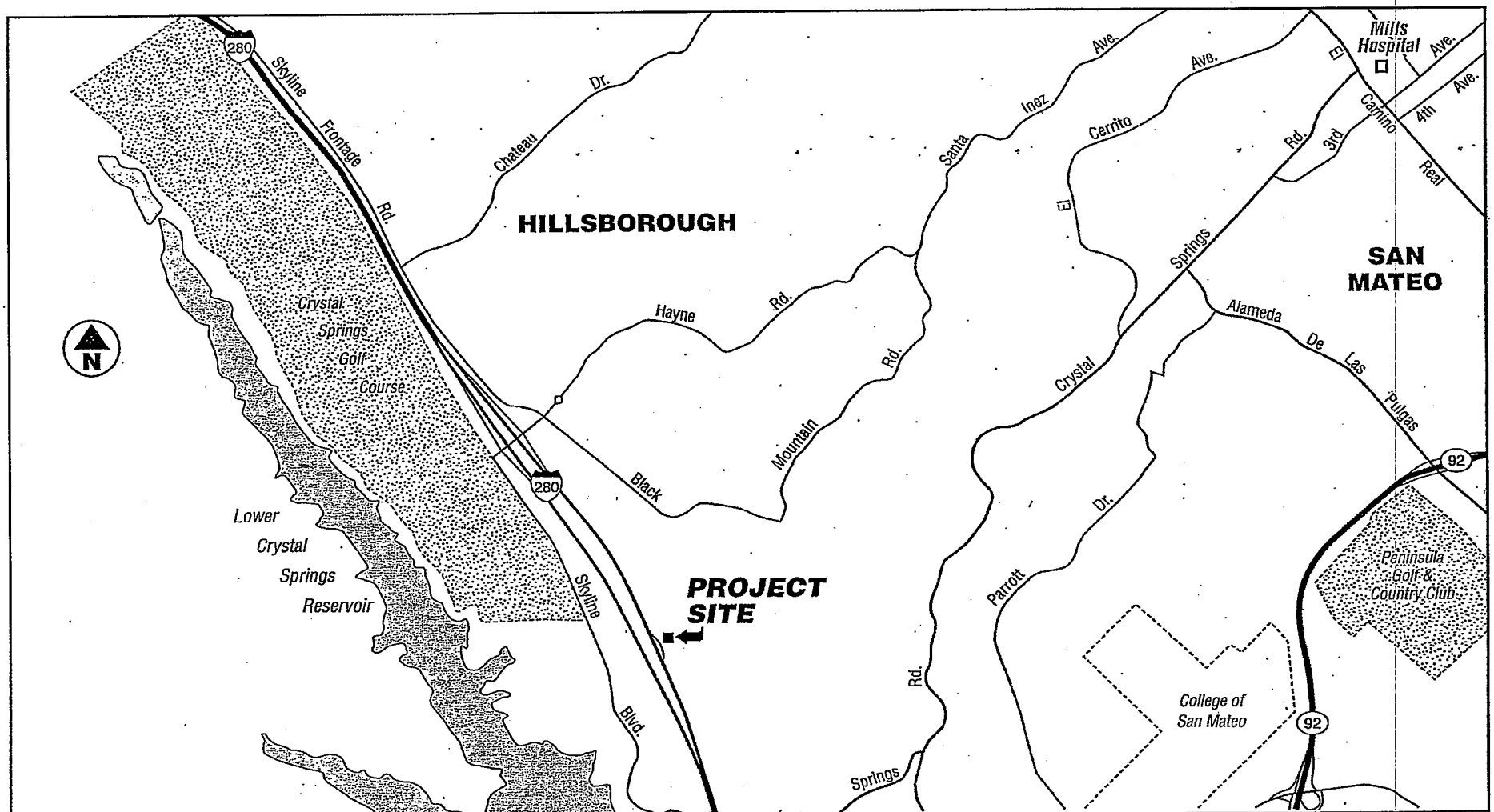
WET = Waste Extraction Test using citric acid as the extraction fluid

mg/kg = milligrams per kilogram

mg/l = milligrams per liter

--- = Not Analyzed

<= Not detected above laboratory reporting limit



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CONSULTANTS, INC.
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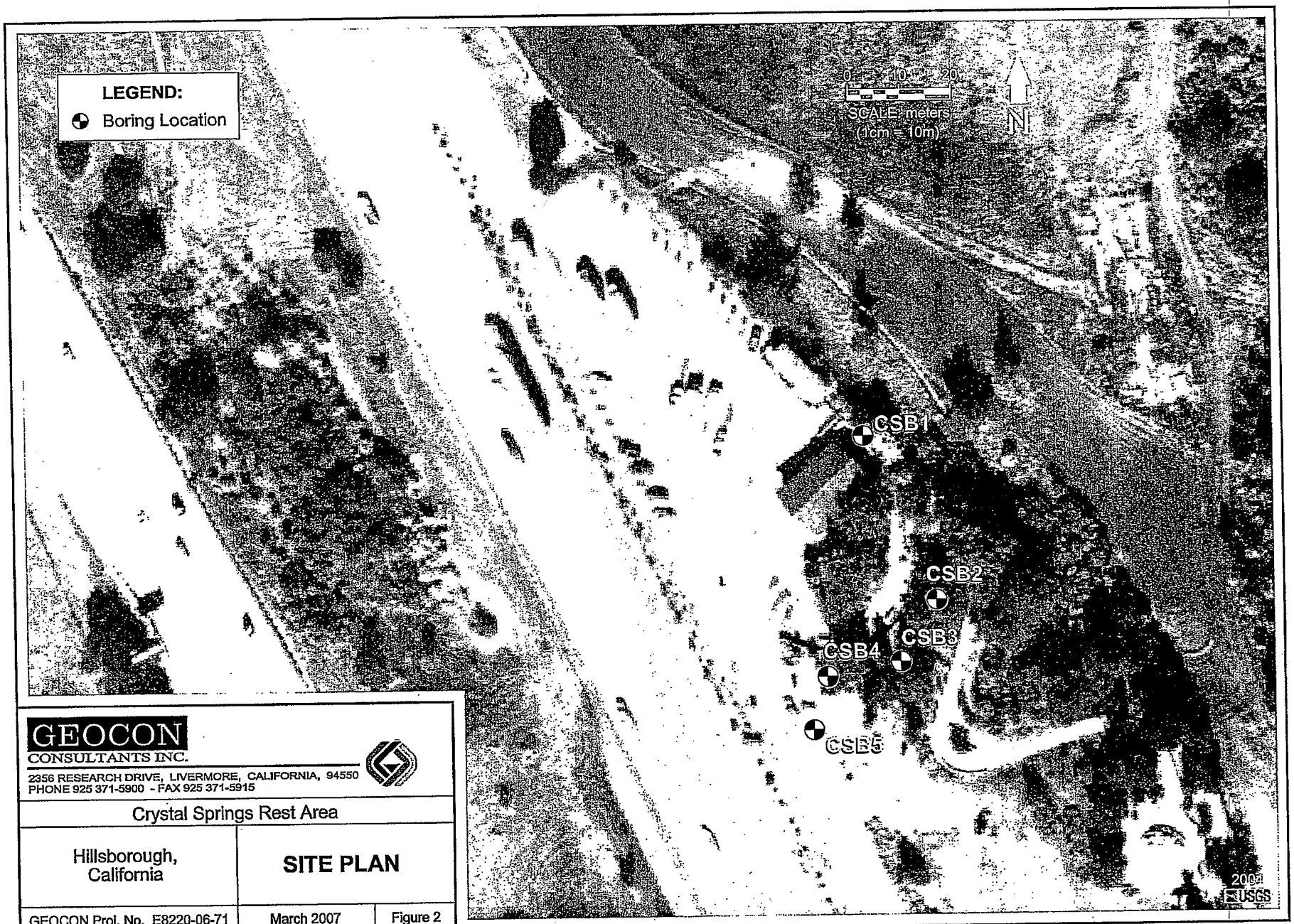
PHONE 925 371-5900 – FAX 925 371-5915

Crystal Springs Rest Area

Hillsborough,
California

VICINITY MAP

E8220-06-71	March 2007	Figure 1



GEOCON
CONSULTANTS INC.
2356 RESEARCH DRIVE, LIVERMORE, CALIFORNIA, 94550
PHONE 925 371-5900 - FAX 925 371-5915

Crystal Springs Rest Area

Hillsborough, California	SITE PLAN	
GEOCON Proj. No. E8220-06-71	March 2007	Figure 2

SITE0207

February 05, 2007

Rick Day\Dave Watts
Geocon Consultants, Inc.
2356 Research Drive
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.: 089310

RE: CRYSTAL SPRINGS SRRA, E8220-06-71

Attention: Rick Day\Dave Watts

Enclosed are the results for sample(s) received on January 26, 2007 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.

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

CLIENT: Geocon Consultants, Inc.
Project: CRYSTAL SPRINGS SRRA, E8220-06-71
Lab Order: 089310

CASE NARRATIVE

Analytical Comments for Method 7420

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are outside recovery criteria for sample 089310-004AMS; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Advanced Technology Laboratories

Date: 2/5/2007

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	089310
Project:	CRYSTAL SPRINGS SRRA, E8220-06-71	**Date Received**	1/26/2007 9:45:00 AM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
089310-001A	CSB1-0	19	mg/Kg	33065	5.0	1	'25/2007 8:51:00 AM	1/30/2007 6:58:08 PM
089310-002A	CSB1-1	ND	mg/Kg	33065	5.0	1	'25/2007 8:51:00 AM	1/30/2007 7:01:36 PM
089310-003A	CSB1-2	ND	mg/Kg	33065	5.0	1	'25/2007 8:51:00 AM	1/30/2007 7:05:00 PM
089310-004A	CSB2-0	84	mg/Kg	33065	5.0	1	'25/2007 9:21:00 AM	1/30/2007 7:15:49 PM
089310-005A	CSB2-1	8.2	mg/Kg	33065	5.0	1	'25/2007 9:21:00 AM	1/30/2007 7:19:12 PM
089310-006A	CSB2-2	5.5	mg/Kg	33065	5.0	1	'25/2007 9:21:00 AM	1/30/2007 7:22:38 PM
089310-007A	CSB3-0	23	mg/Kg	33065	5.0	1	'25/2007 9:54:00 AM	1/30/2007 7:26:02 PM
089310-008A	CSB3-1	ND	mg/Kg	33065	5.0	1	'25/2007 9:54:00 AM	1/30/2007 7:29:26 PM
089310-009A	CSB3-2	ND	mg/Kg	33065	5.0	1	'25/2007 9:54:00 AM	1/30/2007 7:32:54 PM
089310-010A	CSB4-0	26	mg/Kg	33065	5.0	1	25/2007 10:40:00 A	1/30/2007 7:36:21 PM
089310-011A	CSB4-1	5.6	mg/Kg	33065	5.0	1	25/2007 10:40:00 A	1/30/2007 8:09:54 PM
089310-012A	CSB4-2	ND	mg/Kg	33065	5.0	1	25/2007 10:40:00 A	1/30/2007 8:13:19 PM
089310-013A	CSB5-0	30	mg/Kg	33065	5.0	1	25/2007 12:11:00 P	1/30/2007 8:16:43 PM
089310-014A	CSB5-1	10	mg/Kg	33065	5.0	1	25/2007 12:11:00 P	1/30/2007 8:20:07 PM
089310-015A	CSB5-2	ND	mg/Kg	33065	5.0	1	25/2007 12:11:00 P	1/30/2007 8:23:34 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

Date: 2/5/2007

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION WET/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	089310
Project:	CRYSTAL SPRINGS SRRA, E8220-06-71	**Date Received**	1/26/2007 9:45:00 AM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	EKS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
089310-004A	CSB2-0	4.1	mg/L	R73876	0.25	1	25/2007 9:21:00 AI	2/2/2007

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

Date: 2/5/2007

ANALYTICAL RESULTS

pH
EPA 9045C

CLIENT:	Geocon Consultants, Inc.	Lab Order:	089310
Project:	CRYSTAL SPRINGS SRRA, E8220-06-71	Date Received	1/26/2007 9:45:00 AM
Project No:		Matrix:	Soil
Analyte:	pH	Analyst:	RSJ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
089310-001A	CSB1-0	7.8	pH Units	R73556	0.10	1	'25/2007 8:51:00 AI	1/26/2007
089310-005A	CSB2-1	7.2	pH Units	R73556	0.10	1	'25/2007 9:21:00 AI	1/26/2007
089310-010A	CSB4-0	7.2	pH Units	R73556	0.10	1	25/2007 10:40:00 A	1/26/2007
089310-015A	CSB5-2	7.6	pH Units	R73556	0.10	1	25/2007 12:11:00 P	1/26/2007

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

Date: *05-Feb-07*

CLIENT: Geocon Consultants, Inc.
Work Order: 089310
Project: CRYSTAL SPRINGS SRRA, E8220-06-71

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: MB-33065A | SampType: MBLK | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 1/29/2007 | RunNo: 73707
Client ID: PBS | Batch ID: 33065 | TestNo: EPA 6010B EPA 3050M | Analysis Date: 1/30/2007 | SeqNo: 1105354

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: LCS-33065 | SampType: LCS | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 1/29/2007 | RunNo: 73707
Client ID: LCSS | Batch ID: 33065 | TestNo: EPA 6010B EPA 3050M | Analysis Date: 1/30/2007 | SeqNo: 1105355

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	274.252	5.0	250.0	0	110	80	120				

Sample ID: 089310-010ADUP | SampType: DUP | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 1/29/2007 | RunNo: 73707
Client ID: CSB4-0 | Batch ID: 33065 | TestNo: EPA 6010B EPA 3050M | Analysis Date: 1/30/2007 | SeqNo: 1105366

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	22.337	5.0						26.48	17.0	20	

Sample ID: 089310-010AMS | SampType: MS | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 1/29/2007 | RunNo: 73707
Client ID: CSB4-0 | Batch ID: 33065 | TestNo: EPA 6010B EPA 3050M | Analysis Date: 1/30/2007 | SeqNo: 1105367

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	240.564	5.0	250.0	26.48	85.6	37	128				

Sample ID: MB-33065B | SampType: MBLK | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 1/29/2007 | RunNo: 73707
Client ID: PBS | Batch ID: 33065 | TestNo: EPA 6010B EPA 3050M | Analysis Date: 1/30/2007 | SeqNo: 1105368

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

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

CLIENT: Geocon Consultants, Inc.
Work Order: 089310
Project: CRYSTAL SPRINGS SRRA, E8220-06-71

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: 089310-015ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 1/29/2007	RunNo: 73707
Client ID: CSB5-2	Batch ID: 33065	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 1/30/2007	SeqNo: 1105374

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.435	5.0						2.412	0	20	

Sample ID: 089310-015AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 1/29/2007	RunNo: 73707
Client ID: CSB5-2	Batch ID: 33065	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 1/30/2007	SeqNo: 1105375

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	179.662	5.0	250.0	2.412	70.9	37	128				

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

CLIENT: Geocon Consultants, Inc.
Work Order: 089310
Project: CRYSTAL SPRINGS SRRA, E8220-06-71.

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: MB-33140 | SampType: MBLK | TestCode: 7420_ST | Units: mg/L | Prep Date: | RunNo: 73876
Client ID: PBS | Batch ID: R73876 | TestNo: WET/ EPA 74 | Analysis Date: 2/2/2007 | SeqNo: 1108168

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: LCS-33140 | SampType: LCS | TestCode: 7420_ST | Units: mg/L | Prep Date: | RunNo: 73876
Client ID: LCSS | Batch ID: R73876 | TestNo: WET/ EPA 74 | Analysis Date: 2/2/2007 | SeqNo: 1108169

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.966	0.25	5.000	0	99.3	80	120				

Sample ID: 089310-004A-DUP | SampType: DUP | TestCode: 7420_ST | Units: mg/L | Prep Date: | RunNo: 73876
Client ID: CSB2-0 | Batch ID: R73876 | TestNo: WET/ EPA 74 | Analysis Date: 2/2/2007 | SeqNo: 1108171

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.082	0.25						4.052	0.734	20	

Sample ID: 089310-004A-MS | SampType: MS | TestCode: 7420_ST | Units: mg/L | Prep Date: | RunNo: 73876
Client ID: CSB2-0 | Batch ID: R73876 | TestNo: WET/ EPA 74 | Analysis Date: 2/2/2007 | SeqNo: 1108172

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.822	0.25	5.000	4.052	55.4	70	130				S

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

CLIENT: Geocon Consultants, Inc.
Work Order: 089310
Project: CRYSTAL SPRINGS SRRA, E8220-06-71

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: 089310-001ADUP SampType: DUP TestCode: 9045_S Units: pH Units Prep Date: RunNo: 73556
Client ID: CSB1-0 Batch ID: R73556 TestNo: EPA 9045C Analysis Date: 1/26/2007 SeqNo: 1102944

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.750	0.10						7.650	1.30	20	

Sample ID: 089286-004ADUP SampType: DUP TestCode: 9045_S Units: pH Units Prep Date: RunNo: 73556
Client ID: ZZZZZZ Batch ID: R73556 TestNo: EPA 9045C Analysis Date: 1/26/2007 SeqNo: 1104518

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	11.820	0.10						12.01	1.59	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

CHAIN OF CUSTODY RECORD

Pg. 1 of 1

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#:
Logged By: [illegible] Date: 1/26/07

Method of Transport: Client ☐ ATL ☐ CA OverN ☐ FEDEX ☐ Other: UPS

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

Client: GEOCON
Attn: D. WATTS / R. DAY
Address: 2356 RESEARCH DR
City: LIVERMORE State: CA Zip Code: 94550
TEL: (925) 371-5900
FAX: (") " 5915

Project Name: CRYSTAL SPRINGS SPRR
Project #: E8220-06-71
Sampler: D. WATTS (Printed Name) (Signature)

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
D. WATTS	25 JAN 2007	1500	UPS	25 JAN 2007	1500
			MARY [illegible]	1/26/07	9:48

I hereby authorize ATL to perform the work indicated below:
Project Mgr/Submitter: D. WATTS 25 JAN 07
Print Name Date
Signature

Send Report To: Attn: Co: SEE "CLIENT" Address City State Zip

Bill To: Attn: Co: Address City State Zip

Special Instructions/Comments: SEE ATTACHED INSTRUCTIONS
HOMOGENIZE SAMPLES
PLEASE RETURN ALL GEOCON COOLERS
DO NOT COMPOSITE SAMPLE SETS

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested: 8081A (Pesticides), 8082 (PCB), 8260B (Volatiles), 8270C (BNA), 6010B (Total/Total), 8015B (GRO), 8020 (BTEX), 8015B (DRO), 8021 (BTEX), TITLE 22 / CAM 17 (6010, 7000)

SPECIFY APPROPRIATE MATRIX: SOIL, WATER, GROUND WATER, WASTEWATER

QA/QC: RTNE ☐ CT ☒ SWRCB ☐ Logcode ____ OTHER ____

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total/Total)	8015B (GRO)	8020 (BTEX)	8015B (DRO)	8021 (BTEX)	TITLE 22 / CAM 17 (6010, 7000)	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	C8 9310-001/003	CSB1-0,1,2	1/25/07	0851				X							X				72 HR	3	P		
	-004/006	CSB2-0,1,2		0921																			
	-007/009	CSB3-0,1,2		0954																			
	-010/012	CSB4-0,1,2		1040																			
	-013/015	CSB5-0,1,2		1111																			

• TAT starts 8 a.m. following day if samples received after 3 p.m.

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

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

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

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

- ADL soil samples (up to 15 samples) will be analyzed for total lead using EPA Test Method 6010.
- Four ADL samples (randomly selected by ATL) will be analyzed for pH using EPA Test Method 9045.
- Those soil samples that exhibit a total lead concentration equal to or greater than 50 milligrams per kilogram (mg/kg) (i.e., greater than 10 times the soluble threshold limit concentration) *and* less than 1,000 mg/kg will be further analyzed via the Waste Extraction Test (WET). At the discretion of the Caltrans Task Order Manager, soil samples may be further analyzed for soluble lead via the deionized-water Waste Extraction Test (WET-DI) and Toxicity Characteristic Leaching Procedure (TCLP) test.

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: David Watts
Geocon Consultants
2356 Research Drive
Livermore, CA 94550

Fax: (925) 371-5915 Phone: (925) 371-5900
Project: E8220-06-71

Customer ID: GECN21
Customer PO: E8220-06-71
Received: 01/25/07 12:40 PM
EMSL Order: 090700388

EMSL Proj:
Analysis Date: 1/30/2007
Report Date: 1/31/2007

PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

Sample	Location	Appearance	% Fibrous	% Non-Fibrous	Asbestos % Type
			Non-Asbestos		
CSB1-0 090700388-0001		Gray Non-Fibrous Homogeneous		99.25% Non-fibrous (other)	0.75% Chrysotile
CSB1-1 090700388-0002		Gray Non-Fibrous Homogeneous		99.25% Non-fibrous (other)	0.75% Chrysotile
CSB1-2 090700388-0003		Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
CSB2-0 0700388-0004		Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
CSB2-1 090700388-0005		Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
CSB2-2 090700388-0006		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
CSB3-0 090700388-0007		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
CSB3-1 090700388-0008		Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
CSB3-2 090700388-0009		Gray Non-Fibrous Homogeneous		99.00% Non-fibrous (other)	1.00% Chrysotile

Analyst(s)
Jason McGriff (15)

or other approved signatory

This report relates only to the samples listed above and may not be reproduced except in full, without EMSL's written approval. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for sample collection activities or method limitations. Some samples may contain asbestos fibers below the resolution limit of PLM. EMSL recommends that samples reported as none detected or less than the limit of detection undergo additional analysis via TEM. Samples received in good condition unless otherwise noted.

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: David Watts
Geocon Consultants
2356 Research Drive
Livermore, CA 94550

Fax: (925) 371-5915 Phone: (925) 371-5900
Project: E8220-06-71

Customer ID: GECN21
Customer PO: E8220-06-71
Received: 01/25/07 12:40 PM
EMSL Order: 090700388

EMSL Proj:
Analysis Date: 1/30/2007
Report Date: 1/31/2007

PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

Sample	Location	Appearance	% Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
CSB4-0 090700388-0010		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
CSB4-1 090700388-0011		Brown Non-Fibrous Homogeneous		99.50% Non-fibrous (other)	0.50% Chrysotile
CSB4-2 090700388-0012		Brown Non-Fibrous Homogeneous		99.00% Non-fibrous (other)	1.00% Chrysotile
CSB5-0 090700388-0013		Brown Non-Fibrous Homogeneous		98.75% Non-fibrous (other)	1.25% Chrysotile
CSB5-1 090700388-0014		Gray Non-Fibrous Homogeneous		97.50% Non-fibrous (other)	2.50% Chrysotile
CSB5-2 090700388-0015		Gray Non-Fibrous Homogeneous		94.00% Non-fibrous (other)	6.00% Chrysotile

Analyst(s)
Jason McGriff (15)

or other approved signatory

This report relates only to the samples listed above and may not be reproduced except in full, without EMSL's written approval. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for sample collection activities or method limitations. Some samples may contain asbestos fibers below the resolution limit of PLM. EMSL recommends that samples reported as none detected or less than the limit of detection undergo additional analysis via TEM.Samples received in good condition unless otherwise noted.

THIS IS THE LAST PAGE OF THE REPORT.

EMSL Analytical, Inc.
Revised 07/07/99

CHAIN OF CUSTODY

Asbestos

EMSL Rep: D. Koehler
Your Company Name: GEOCON
Street: 2356 Research Dr
Box #:
City/State: Livermore, CA Zip: 94550

Phone Results to:
Name: D. Watts
Telephone #: 925-371-5900
Project Name/Number: E8220-06-71

Third Party Billing requires written authorization from third party

EMSL-Bill to:
Street:
Box #:
City/State: Zip:

Fax Results to:
Name:
Fax #:
Purchase Order #:

MATRIX			TURNAROUND			
☐ Air	☐ Floor Tile	☒ Soil	☐ 3 hrs	☐ 6 Hours	☐ Same Day or 12 Hours*	☐ 24 Hours 1 day
☐ Bulk	☐ Drinking Water	☐ Dust	☐ 48 Hours 2 days	☒ 72 Hours 3 days	☐ 96 Hours 4 days	☐ 120 Hours 5 Days
☐ Wipe	☐ Wastewater	☐ Micro-Vac	☐ 144+ hours 6-10 Days			

TEM AIR, 3 hours, 6 hours, Please call ahead to schedule. There is a premium charge for 3 hour tat, please call 1-800-220-3675 for price prior to sending samples. You will be asked to sign and authorization form for this service. 12 hours (must arrive by 11:00 a.m Mon - Fri.), Please Refer to Price Quote

PCM - Air
☐ NIOSH 7400
☐ OSHA
☐ Other:

TEM AIR
☐ AHERA
☐ NIOSH 7402
☐ EPA Level II

TEM WATER
☐ Wastewater
☐ Drinking Water EPA 100.1
☐ Water - NY Wastewater
☐ Water-NY Drinking Water

PLM - Bulk
☐ EPA 600/R-93/116
☐ EPA Point Count
☐ NY Stratified Point Count
☐ PLM NOB (Gravimetric) NY 198.1
☐ Other:

TEM BULK/misc
☐ Drop Mount (Qualitative)
☐ Chatfield
☐ TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC / WIPE
☐ ASTM D 5755-95 quantitative method

XRD
☐ Asbestos
☐ Silica

SEM Air or Bulk
☐ Qualitative
☐ Quantitative

OTHER (NOA)
☒ CARB 435(A)

SAMPLE NUMBER		LOCATION	VOLUME (If Applicable)

Client Sample # (s) Total Samples #: 15

Relinquished: [signature] Date: 25 JAN 2007 Time: 1240

Received: Amanda Lucceri Date: 25 JAN 2007 Time: 1240 PM

D/O

EMSL Analytical, Inc.
Revised 07/07/99

CHAIN OF CUSTODY

Asbestos

SAMPLE NUMBER	LOCATION	VOLUME (If Applicable)
CSB 1-0		
CSB 1-1		
CSB 1-2		
CSB 2-0		
CSB 2-1		
CSB 2-2		
CSB 3-0		
CSB 3-1		
CSB 3-2		
CSB 4-0		
CSB 4-1		
CSB 4-2		
CSB 5-0		
CSB 5-1		
CSB 5-2		

2

90700388

90700388