

INFORMATION HANDOUT

**For Contract No. 02-4G3804
At 02-Tri-299-0.0/8.3**

**Identified by
Project ID 0214000006**

MATERIALS INFORMATION

Aerially Deposited Lead and Naturally Occurring Asbestos Site Investigation Report - State Route 299 (02-TRI-299) Post Mile 2.3/20.5

Water Source Information

MATERIALS INFORMATION

Aerially Deposited Lead and Naturally Occurring Asbestos Site Investigation Report -



Project No. S9805-01-68
April 12, 2016

Mr. Rajive Chadha
California Department of Transportation - District 3
Environmental Engineering Office
703 B Street
Marysville, California 95901

Subject: AERIALY DEPOSITED LEAD AND NATURALLY OCCURRING ASBESTOS
SITE INVESTIGATION REPORT
STATE ROUTE 299 (02-TRI-299) POST MILE 2.3 TO 20.5
TRINITY COUNTY, CALIFORNIA
CONTRACT NO. 03A2132, TASK ORDER NO. 68, EA 02-4G3801

Dear Mr. Chadha:

In accordance with California Department of Transportation (Caltrans) Contract No. 03A2132, Task Order No. 68, and Expense Authorization 02-4G3801, we have performed environmental engineering services at the project site. The Site consists of State Route 299 from Post Mile 2.3 to 20.5 in Trinity County, California. The accompanying report summarizes the services performed including the excavation of 45 hand-auger borings for the collection of soil samples for aerially deposited lead and/or naturally occurring asbestos analyses.

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.

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

Sincerely,

GEOCON CONSULTANTS, INC.

Gemma G. Reblando
Project Geologist

John C. Pfeiffer, PG, CEG
Senior Geologist



(2 + 2 CD) Addressee

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AERIALY DEPOSITED LEAD AND NATURALLY OCCURRING ASBESTOS SITE INVESTIGATION REPORT

1.0 INTRODUCTION

This Aerially Deposited Lead (ADL) and Naturally Occurring Asbestos (NOA) Site Investigation Report for State Route 299 (SR-299) Post Mile (PM) 2.3 to 20.5 was prepared under California Department of Transportation (Caltrans) Contract No. 03A2132, Task Order (TO) No. 68, and Expense Authorization (EA) 02-4G3801.

1.1 Project Description and Proposed Improvements

The project areas consist of the unpaved shoulders of eastbound (EB) and westbound (WB) SR-299 from just west of the SR-299/Oden Flat Road intersection (approximate PM 2.3) to just west of the SR-299/Angie Lane intersection (approximate PM 20.51) (the Site) near the town of Salyer in Trinity County, California. The approximate project locations are depicted on the attached Vicinity Map, Figure 1. Caltrans proposes roadway improvements along SR-299 which will include widening the highway shoulders. The approximate project locations are depicted on the attached Site Plans, Figures 2-1 to 2-6.

1.2 General Objectives

Construction of planned roadway improvements at the Site will require the disturbance of soil and existing pavement at the Site and may generate excess soil. The purpose of the scope of services outlined in TO No. 68 was to evaluate the Site for potential impacts due to ADL from motor vehicle exhaust in the surface and near-surface soils and the presence of NOA within the project boundaries. The investigative results will be used by Caltrans to inform the construction contractor if ADL- and/or NOA-impacted soils are present within the project boundaries for construction worker health and safety, and soil management and disposal purposes.

2.0 BACKGROUND

Caltrans requested the site investigation to provide data regarding the potential presence of ADL and/or NOA within the proposed roadway improvement areas.

2.1 Hazardous Waste Determination Criteria

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

For waste containing metals, the waste is classified as California hazardous when: 1) the representative total metal content equals or exceeds the respective Total Threshold Limit Concentration (TTLC); or 2) the representative soluble metal content equals or exceeds the respective Soluble Threshold Limit Concentration (STLC) based on the standard Waste Extraction Test (WET). A waste may have 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 representative soluble metal content equals or exceeds the Federal regulatory level 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 and corrosivity; however, for the purposes of this investigation, toxicity (i.e., representative lead concentrations) is the primary factor considered for waste classification since waste generated during the construction activities would not likely warrant testing for ignitability or corrosivity. Waste that is classified as either California-hazardous or RCRA-hazardous requires management as a hazardous waste.

2.2 California Human Health Screening Levels

The California Environmental Protection Agency (Cal/EPA) has prepared technical reports entitled *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties* (Cal/EPA, January 2005) and *Revised California Human Health Screening Levels for Beryllium* (Cal/EPA, March 2009) and *Lead* (Cal/EPA, September 2009), which present CHHSLs for soil, shallow soil gas, and indoor air to assist in evaluating sites impacted by releases of hazardous chemicals.

The CHHSLs are concentrations of 54 hazardous chemicals including Title 22 metals that Cal/EPA considers to be below thresholds of concern for risks to human health. The CHHSLs were developed by the Office of Environmental Health Hazard Assessment (OEHHHA) on behalf of Cal/EPA. The thresholds of concern used to develop the CHHSLs are an excess lifetime cancer risk of one in a million and a hazard quotient or 1.0 for noncancer effects. Under most circumstances, the presence of a chemical at a concentration less than its respective CHHSL can be assumed to not pose a significant risk. The presence of a chemical at a concentration greater than a CHHSL does not indicate that adverse impacts to human health are occurring or will occur but suggests that further evaluation is warranted (Cal/EPA, January 2005).

The CHHSLs for residential and industrial/commercial land use are on Table 2.

2.3 Environmental Screening Levels

The San Francisco Bay Regional Water Quality Control Board (SFRWQCB) has prepared a technical report entitled *User's Guide: Derivation and Application of Environmental Screening Levels, Interim*

Final 2016 (updated February 2016), which presents Environmental Screening Levels (ESLs) for over 100 commonly found contaminants in soil, groundwater, soil gas, and surface water, to assist in evaluating sites impacted by releases of hazardous chemicals. “If used correctly, ESLs are considered to be protective for typical bay area sites. Under most circumstances, ...the presence of a chemical in soil, soil gas, or groundwater at concentrations below the corresponding ESL can be assumed to not pose a significant threat to human health, water resources, or the environment.” (SFRWQCB, February 2016).

ESLs are commonly used by contractors, soil trucking companies, and private and commercial land owners as default acceptance criteria to evaluate suitability of import soil material. ESL Table S-1, Summary of Soil ESLs, Direct Exposure to Human Health, was used for this characterization.

The respective ESLs are listed at the end of Table 2.

2.4 Naturally Occurring Asbestos

The construction activities proposed by Caltrans may disturb NOA-containing soil/rock units, if present at the Site. The California Air Resources Board (CARB) has mitigation practices for construction, grading, quarrying and surface mining operations that may disturb natural occurrences of asbestos as outlined in CCR Title 17, § 93105. NOA potentially poses a health hazard when it becomes an airborne particulate. Mitigation practices can reduce the risk of exposure to asbestos-containing dust. The primary mitigation practice used for controlling exposure to potentially asbestos-containing dust is the implementation of engineering controls including wetting the materials being disturbed. If engineering controls do not adequately control exposure to potentially asbestos-containing dust, the use of personal protective equipment including wearing air purifying respirators with High Efficiency Particulate Air (HEPA) filters is required during construction activities. Dust control methods similar to those in CCR Title 17, § 93105 are outlined in CCR Title 17, § 93106 for airborne asbestos in road surfacing applications. Using surfacing material with 0.25% or more asbestos material is not permitted and wetting of the material or the application of a surface sealant is recommended to minimize disturbance of the asbestos material. Onsite reuse or disposal of NOA-containing materials is allowed by CCR Title 17, § 93106 and CCR Title 17, § 93105 if it is buried under at least 3 inches of material that does not contain NOA.

3.0 SCOPE OF SERVICES

The scope of services requested by Caltrans in TO No. 68 included the collection of soil samples for analysis to determine ADL and asbestos content and the preparation of this report.

3.1 Pre-field Activities

- Retained the services of Advanced Technologies Laboratories (ATL), a Caltrans-approved and California-certified analytical laboratory, to perform the chemical analyses of soil samples.

- Retained the services of EMSL Inc., a Caltrans-approved analytical laboratory, to perform the asbestos analyses of samples.
- Reviewed documents pertaining to the geologic setting of the site vicinity.

3.2 Field Activities

On March 15 and 16, 2016, we advanced 24 hand-auger borings (B1 to B24) for ADL sampling to an approximate maximum sampling depth of 3 feet on EB and WB SR-299 between PM 2.3 and 2.7 (B1 to B12) and between PM 15.2 and 15.5 (B13 to B24). Soil samples were collected at depth intervals of 0 to 0.5 foot, 0.5 to 1 foot, 1 to 2 feet, and 2 to 3 feet.

We also advanced 21 hand-auger borings (SS1 to SS21) for NOA sampling to approximate sampling depths up to 2.5 feet on EB and WB SR-299 between PMs 2.3 and 2.5, 4.6 and 5.2, 6.6 and 6.8, 8.1 and 8.3, and 20.2 and 20.5. Soil samples were collected at depth intervals between 0.5 and 2.5 feet.

The sample locations were selected in the field by the Caltrans Task Order manager and Geocon field geologist. Following sample collection, the borings were backfilled with excess soil cuttings. Details of the field activities are presented in the following sections.

4.0 INVESTIGATIVE METHODS

4.1 Soil Sampling Procedures

4.1.1 ADL

A total of 72 soil samples were collected from 24 ADL borings advanced at the Site as described below. The approximate boring locations are depicted on Figures 2-1 to 2-6.

- Borings B1 through B12 were advanced along the shoulders of EB and WB SR-299 between PM 2.3 and 2.7.
- Borings B13 through B24 were advanced along the shoulders of EB and WB SR-299 between PM 15.2 and 15.5.

Soil samples were collected using a hand-auger and transferred directly into Ziploc[®] re-sealable plastic bags. The soil samples were then homogenized in the field and subsequently placed in an ice chest, and delivered to ATL for analytical testing under chain-of-custody (COC) documentation. Following sample collection, the borings were backfilled with excess soil cuttings.

4.1.2 NOA

Soil samples collected from ADL borings B1 to B24 from depth intervals of 0.5 to 2.5 feet were split into two samples, and a second sample was placed in a labeled Ziploc[®] re-sealable plastic bag and labeled with sample identification for asbestos analysis.

Additional NOA samples were collected from borings SS1 through SS21 advanced along SR-299 between PM 2.38 and 20.51. The samples were placed in labeled Ziploc[®] re-sealable plastic bags for asbestos analysis. The soil samples were then homogenized in the field, subsequently placed in an ice chest, and delivered to EMSL for asbestos analysis under COC protocol. The laboratory was instructed to place the samples collected from borings B5, B8, B9, B16, B18, and B21 on hold pending preliminary asbestos results. Following sample collection, the borings were backfilled with excess soil cuttings.

Soil/rock types were logged in the field by a California-licensed Professional Geologist using the Unified Soil Classification System. The decontamination water was discharged to the ground surface away from surface water bodies or storm drain inlets.

The coordinates of the boring locations were determined using a global positioning system (GPS) except borings B1, B16 and SS1. The coordinates for these borings could not be obtained due to failed satellite connection. The GPS was utilized during the field activities to locate the horizontal position of the boring locations with an error of no more than 3.3 feet. The latitude and longitude of the boring locations are summarized on Table 1.

4.2 Quality Assurance/Quality Control (QA/QC) Procedures

QA/QC procedures were performed during the field exploration activities. These procedures included the decontamination of sampling equipment before each sample was collected and providing COC documentation for each sample submitted to the laboratories. The soil sampling equipment was cleansed between borings by washing the equipment with an Alconox[®] solution followed by a double rinse with purified water. The decontamination water was discharged to the ground surface within the Caltrans right-of-way, away from the roadway and storm drain inlets.

4.3 Laboratory Analyses

4.3.1 ADL Soil Samples

Seventy-two soil samples collected within the project boundaries were submitted to ATL and analyzed for total lead following United States Environmental Protection Agency (EPA) Test Method 6010B under a five-day turnaround time (TAT). The laboratory was instructed to homogenize the soil samples prior to analysis in accordance with Contract 03A2132 requirements.

4.3.2 NOA Samples

EMSL performed asbestos fiber analysis on the 39 soil samples under one-week TAT. EMSL analyzed the samples for asbestos using polarized light microscopy (PLM) by CARB Method 435 (CARB 435). The CARB 435 preparation includes milling the sample to a -200 mesh size which also homogenizes the sample. The analytical sensitivity of the PLM analysis was 0.25% by area.

4.3.3 Laboratory QA/QC Procedures

QA/QC procedures were performed by ATL as applicable for each method of analysis with specificity for each analyte listed in the test method's QA/QC. QA/QC measures for the lead analysis 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 the spike made at ten times the detection limit or at the analyte level.

Prior to submitting the samples to the laboratories, the COC documentation was reviewed for accuracy and completeness. Copies of the laboratory reports and COC documentation are presented in Appendix A.

5.0 FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS

5.1 Geologic Map Review

We reviewed the following documents pertaining to the geologic setting of the Site:

1. *Geologic Atlas of California – Redding Sheet*, California Geological Survey, Geologic Atlas of California Map No. 011, Scale 1:250,000, 1962.
2. *Digital Geologic Map of the Redding 1x2 Degrees Quadrangle, Shasta, Tehama, Humboldt, and Trinity Counties, California*, United States Geological Survey, Open-File Report 2012-1228, Scale 1:250,000, 2012.
3. *A General Location Guide for Ultramafic Rocks in California – Areas More Likely to Contain Naturally Occurring Asbestos*, California Department of Conservation, Division of Mines and Geology, Open-File Report 2000-19, Scale 1:1,100,000, 2000.
4. *Fault Activity Map of California (2010)*, California Department of Conservation, California Geological Survey, Geologic Data Map No. 6, Scale 1:750,000, 2015.

Reference 1 depicts the geologic unit underlying the Site as Upper Jurassic marine. Reference 2 depicts the geologic unit underlying the project locations between PM 2.3 and 8.3 as Western Jurassic Terrane of the Galice Formation, which consists primarily of metasedimentary rock (interbedded mudstone,

graywacke, and conglomerate) and is not considered likely to contain NOA. Reference 2 depicts the geologic unit underlying the project location between PM 15.2 and 15.5 as Ironside Mountain batholith, which consists primarily of monzodiorite, but includes quartz diorite and minor gabbro and pyroxenite. Reference 2 depicts the geologic unit underlying the project location between PM 20.2 and 20.5 as Hayfork Bally Meta-andesite, which consists primarily of mafic volcanic rock. The nearest ultramafic rock is mapped at least 2 miles southwest of the project location in the vicinity of PM 6.69 based on our review of References 2 and 3. Reference 4 depicts several branches of faults in the vicinity of the project locations on SR-299 between PM 8.13 and 20.51.

John Pfeiffer, a California Certified Engineering Geologist (CEG 2372) with experience in the assessment of NOA, performed the geologic assessment of soil/rocks observed on the Site. The observed geology at the project locations are described below, which was generally consistent with that depicted on the referenced geologic maps.

5.1.1 PM 2.3 to 2.5

Soil/rock observed in the cut slope on EB SR-299 was sheared metasedimentary rock, very fine-grained, gray shale with white calcite veins. Materials and features indicative of a geological environment conducive to the formation of NOA were not observed along this portion of SR-299. No ultramafic rock was observed.

5.1.2 PM 4.6 to 5.2

Soil/rock observed along this portion of EB SR-299 was highly fractured/sheared, very fine-grained, thin-bedded, gray metasedimentary rock (slate to schist). Materials and features indicative of a geological environment conducive to the formation of NOA were not observed at the Site. Visible fill along WB SR-299 appears similar as that of EB SR-299, which are locally derived. No ultramafic rock was observed.

5.1.3 PM 6.6 to 6.8

Soil/rock observed along this portion of SR-299 was grey, fine- to very fine-grained metavolcanic rock (andesite). Materials and features indicative of a geological environment conducive to the formation of NOA were not observed along this portion of SR-299. No ultramafic rock was observed.

5.1.4 PM 8.1 to 8.3

Soil/rock observed along this portion of SR-299 was fill material composed of andesite and minor metasedimentary rock. Materials and features indicative of a geological environment conducive to the formation of NOA were not observed along this portion of SR-299. No ultramafic rock was observed.

5.1.5 PM 15.2 to 15.5

The western portion of this segment of SR-299 was composed of stream terrace deposits (sandy gravel). The eastern portion is composed of grey, very fine- to medium-grained metavolcanic rock (andesite). Materials and features indicative of a geological environment conducive to the formation of NOA were not observed at the Site. No ultramafic rock was observed.

5.1.6 PM 20.2 to 20.5

Materials observed along this segment of SR-299 consisted of stream terrace deposits (sandy gravel and silty sand). Materials and features indicative of a geological environment conducive to the formation of NOA were not observed at the Site. No ultramafic rock was observed.

5.2 ADL Soil Analytical Results

5.2.1 PM 2.38 to 2.45 – Borings B1 to B12

Total lead was detected in 37 of the 38 soil samples collected from this highway segment at concentrations ranging from 1.7 to 65 milligrams per kilogram (mg/kg). Two of the 38 soil samples had total lead concentrations greater than 50 mg/kg (i.e., ten times the STLC for lead of 5.0 milligrams per liter [mg/l]). The two samples were not analyzed for WET soluble lead since the calculated upper confidence limits (UCLs) are less than 50 mg/kg (Section 5.5).

5.2.2 PM 15.2 to 15.5 – Borings B13 to B24

Total lead was detected in 31 of the 34 soil samples collected from this highway segment at concentrations ranging from 1.2 to 31 mg/kg, which are less than 50 mg/kg (i.e., ten times the STLC for lead of 5.0 mg/l).

A summary of the ADL analytical results are presented on Table 2. A copy of the ATL laboratory report and COC documentation are in Appendix A.

5.3 NOA Results

None of the samples submitted for analysis were reported to contain asbestos at or above the laboratory reporting limit of 0.25% by the PLM method. The analytical laboratory reported each of the samples as 100% non-fibrous. A summary of NOA analytical results is on Table 3. A copy of the EMSL laboratory report and COC documentation is in Appendix A.

5.4 Laboratory QA/QC

We reviewed the QA/QC provided with the ATL laboratory report. The relative percent difference for some sample duplicates and matrix spike duplicates were outside acceptance criteria. Calculation is based on raw values as noted in the laboratory report. Based on the laboratory QA/QC data, no qualification of the data presented herein is necessary, and the data are of sufficient quality for the purposes of this report.

5.5 Statistical Evaluation for Lead Detected in Soil Samples

Statistical methods were applied to the total lead data to evaluate the UCLs of the arithmetic means of the total lead concentrations for each sampling depth. The total lead data were separated into two sample populations for statistical evaluation as described below.

- **PM 2.38 to 2.45** consists of borings B1 to B12 advanced along the EB and WB shoulders of SR-299 between PM 2.38 and 2.45; and
- **PM 15.2 to 15.5** consists of borings B13 to B24 advanced along the EB and WB shoulders of SR-299 between PM 15.2 and 15.5.

Non-parametric bootstrap techniques were used to calculate the UCLs. The upper one-sided 90% and 95% UCLs of the arithmetic mean are defined as the values that, when calculated repeatedly for randomly drawn subsets of site data, equal or exceed the true mean 90% and 95% of the time, respectively. Statistical confidence limits are the classical tool for addressing uncertainties of a distribution mean. The UCLs of the arithmetic mean concentration are used as mean concentrations because it is not possible to know the true mean due to the essentially infinite number of soil samples that could be collected from a site. The UCLs therefore account for uncertainties due to limited sampling data. As data become less limited at a site, uncertainties decrease, and the UCLs move closer to the true mean.

The bootstrap results are in Appendix B. The calculated UCLs and statistical results for sample population **PM 2.38 to 2.45** are summarized in the table below.

PM 2.38 to 2.45

SAMPLE INTERVAL (feet)	90% TOTAL LEAD UCL (mg/kg)	95% TOTAL LEAD UCL (mg/kg)	TOTAL LEAD MEAN (mg/kg)	MINIMUM VALUE (mg/kg)	MAXIMUM VALUE (mg/kg)
0 to 0.5	4.9	5.1	4.0	0.5	11
0.5 to 1	16.4	17.7	11.6	1.7	52
1 to 2	27.7	30.2	18.6	4.4	65
2 to 3	16.8	18.2	12.2	5.0	32

Statistical analysis was not performed for lead data for sample population **PM 15.2 to 15.5** since the total lead concentrations for the soil samples collected within this highway segment are less than 50 mg/kg (i.e., ten times the lead STLC of 5.0 mg/l).

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 ADL

6.1.1 PM 2.38 to 2.45 – Borings B1 to B12

Total lead concentrations for the soil samples collected from this segment of SR-299 ranged from 1.7 to 65 mg/kg, with an average total lead concentration of 10.8 mg/kg. Soil excavated to a depth of 3 feet or shallower within the project limits as represented by borings B1 to B12 will not require special soil handling and disposal procedures based on lead content and can be reused or disposed of as non-hazardous soil since the calculated total lead UCLs are less than 50 mg/kg (i.e., ten times the lead STLC of 5.0 mg/l).

The total lead concentrations for the samples collected from the surface to a depth of 3 feet from this segment of SR-299 are less than the residential and commercial land use CHHSLs, ESLs, and the construction exposure ESL (Table 2).

6.1.2 PM 15.2 to 15.5 – Borings B13 to B24

Total lead concentrations for the soil samples collected from this segment of SR-299 ranged from 1.2 to 31 mg/kg, with an average total lead concentration of 5.3 mg/kg. Soil excavated to a depth of 3 feet or shallower within the project limits as represented by borings B13 to B24 will not require special soil handling and disposal procedures based on lead content and can be reused or disposed of as non-hazardous soil since the total lead concentrations are less than 50 mg/kg (i.e., ten times the lead STLC of 5.0 mg/l).

The total lead concentrations for the samples collected from the surface to a depth of 3 feet from this segment of SR-299 are less than the residential and commercial land use CHHSLs, ESLs, and the construction exposure ESL (Table 2).

6.2 Naturally Occurring Asbestos

The mapped and observed geology at the Site are not indicative of a geologic environment where NOA minerals are likely to occur. None of the soil samples collected at the Site between PM 2.38 and 20.51 submitted for analysis were reported to contain asbestos at or above the regulatory threshold of 0.25% by the PLM method. Since geologic conditions conducive to the formation of NOA were not observed on the Site and the laboratory did not report asbestos in the samples, engineering controls to minimize the aerial dispersion of NOA are not required for operations in the project area, and soils generated from the Site during construction can be reused or disposed of without restrictions with regard to NOA.

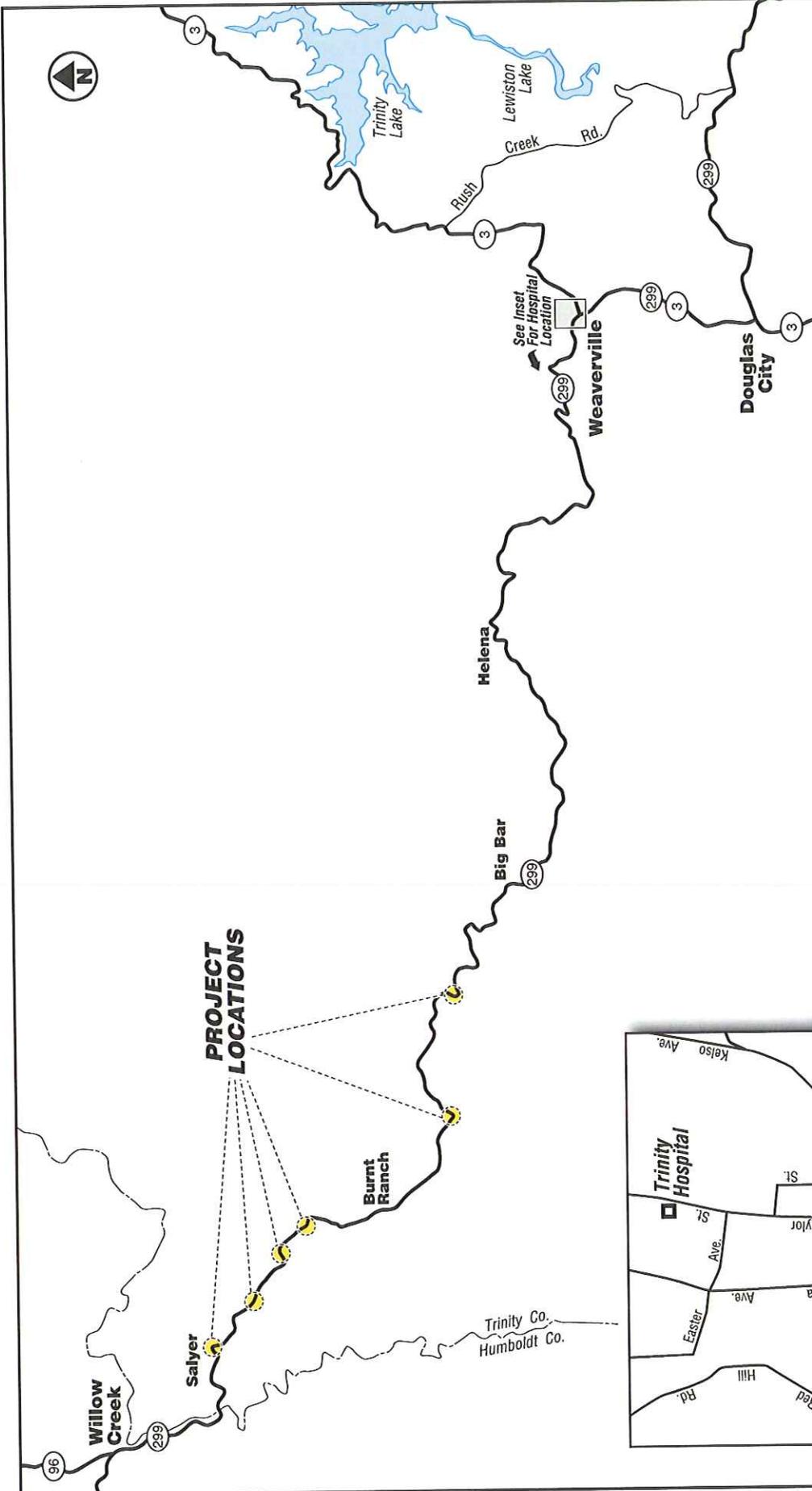
6.3 Worker Protection

Per Caltrans' requirements, the contractor(s) should prepare a project-specific Lead Compliance Plan (CCR Title 8, § 1532.1, the "Lead in Construction" standard) to minimize worker exposure to lead-impacted soil. The plan should include protocols for environmental and personnel monitoring, requirements for personal protective equipment, and other health and safety protocols and procedures for the handling of lead-impacted soil.

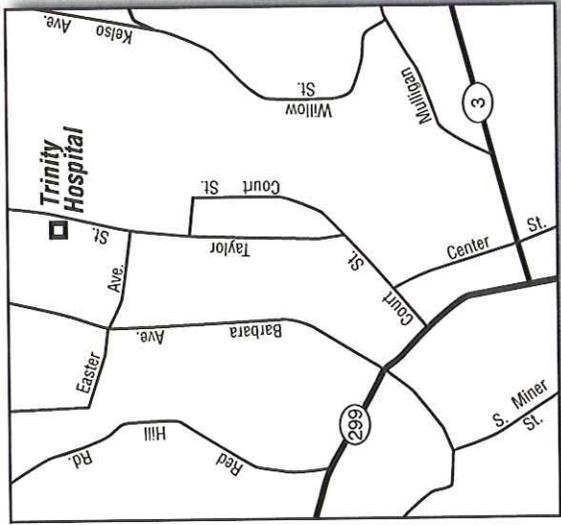
7.0 REPORT LIMITATIONS

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

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. We 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.



PROJECT LOCATIONS



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

State Route 299 (02-TRI-299) Post Mile 2.3 to 20.5	
Trinity County, California	VICINITY MAP
GEOCON Proj. No. S9805-01-68	
Task Order No. 68	April 2016
	Figure 1



GEOCON
 CONSULTANTS, INC.
 3755 GOLD VALLEY DR.—SUITE 800—RANCHO CORDOVA, CA 95742
 PHONE 916.852.9118—FAX 916.852.9132

State Route 299 (02-TRI-299) Post Mile 2.3 to 20.5

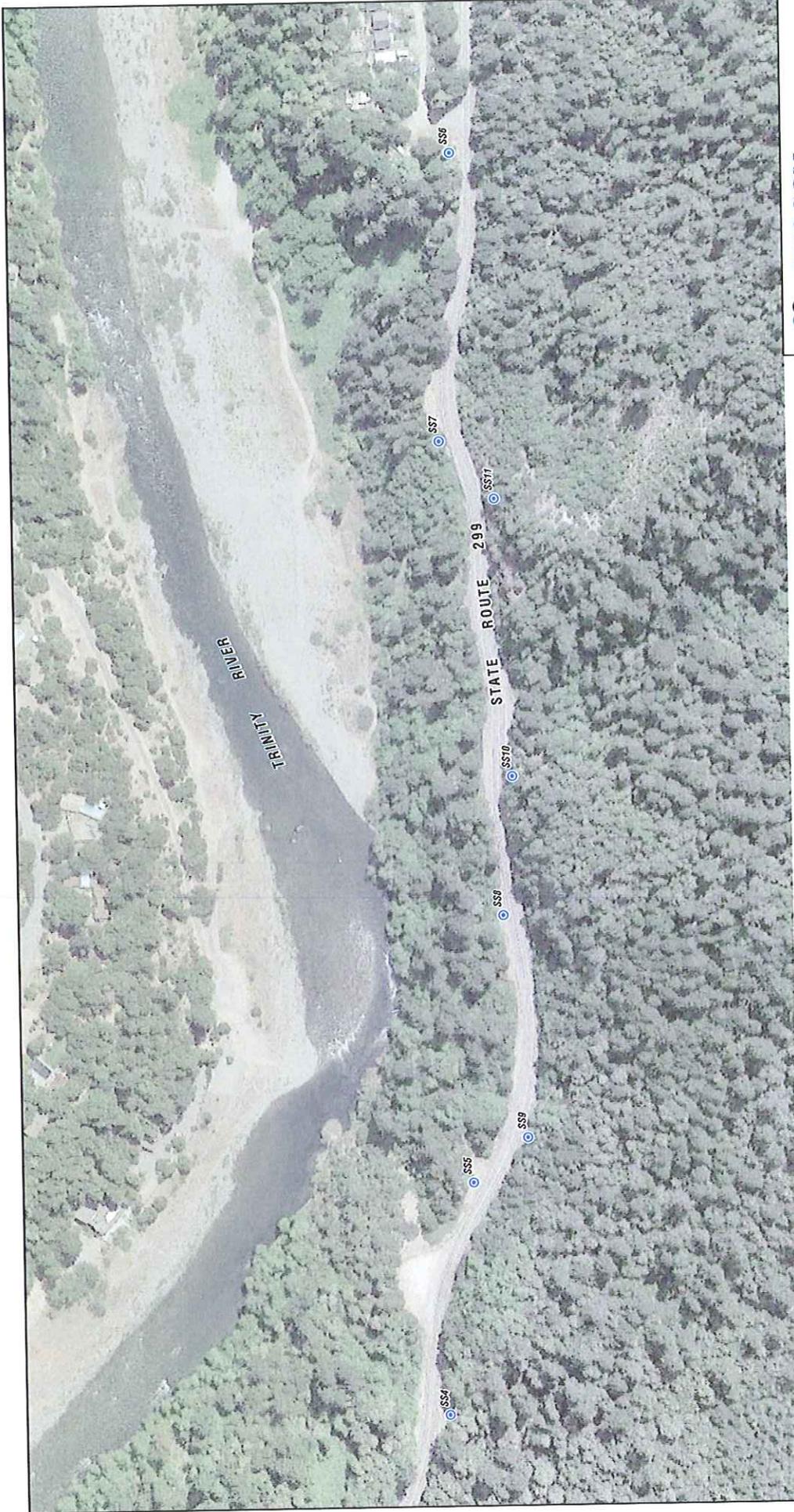
Trinity County,
 California

SITE PLAN
PM 2.3 to 2.5

GEOCON Proj. No. 59805-01-68
 Task Order No. 68
 April 2016
 Figure 2-1



- LEGEND:**
- B1** X Approximate Aerially Deposited Lead/
 Naturally Occurring Asbestos Boring Location
 - SS1** O Approximate Naturally Occurring
 Asbestos Sample Location



GEOCON
CONSULTANTS, INC.
 3188 GOLD VALLEY DR.—SUITE 800—RANCHO CORDOVA, CA 95742
 PHONE 916.862.8118 —FAX 916.862.8132

State Route 299 (02-TRI-299) Post Mile 2.3 to 20.5

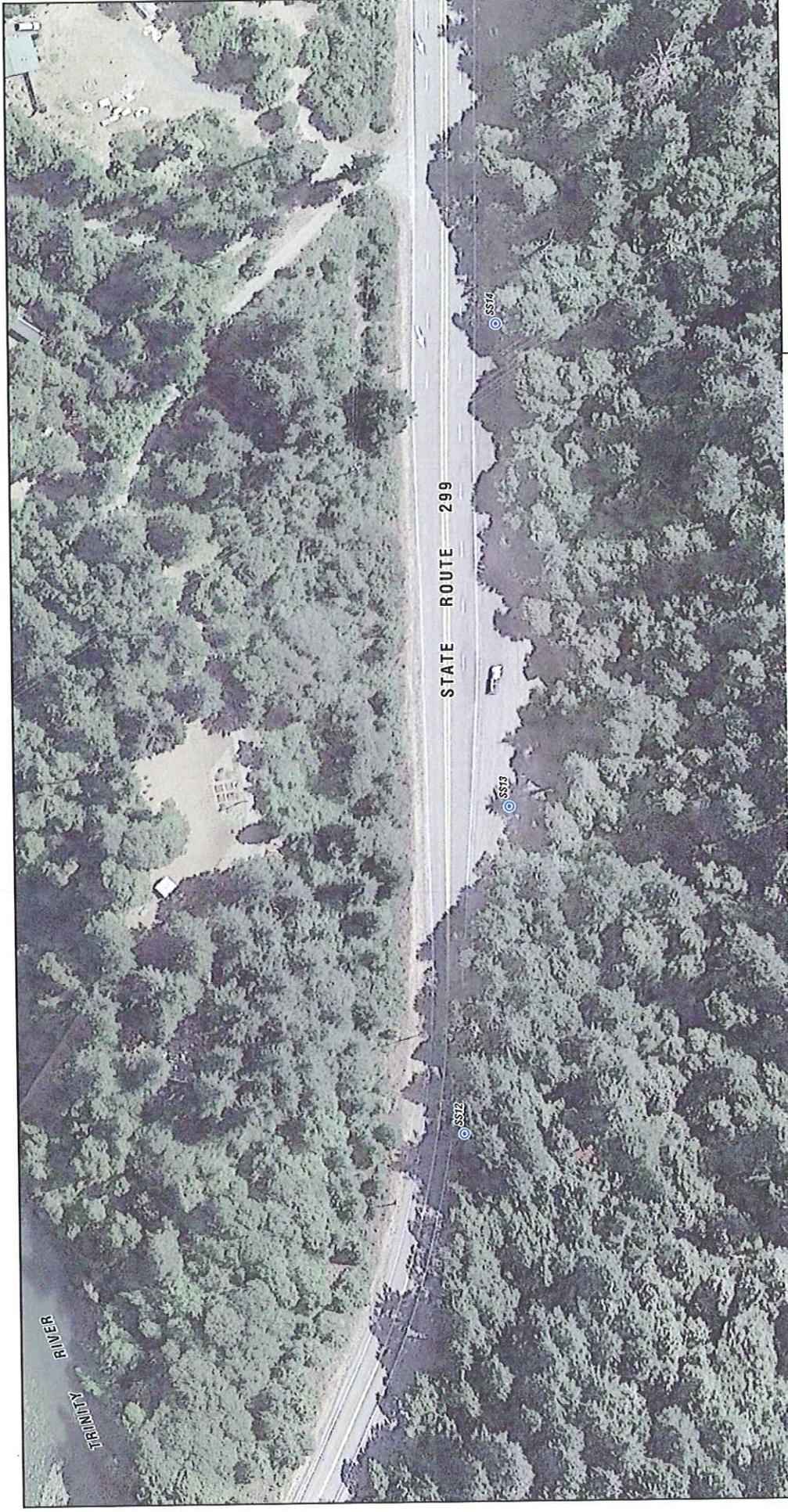
Trinity County,
 California

SITE PLAN
PM 4.6 to 5.2

GEOCON Proj. No. S9805-01-68
 Task Order No. 68
 April 2016
 Figure 2-2



LEGEND:
 SS7 Approximate Naturally Occurring
 Asbestos Sample Location

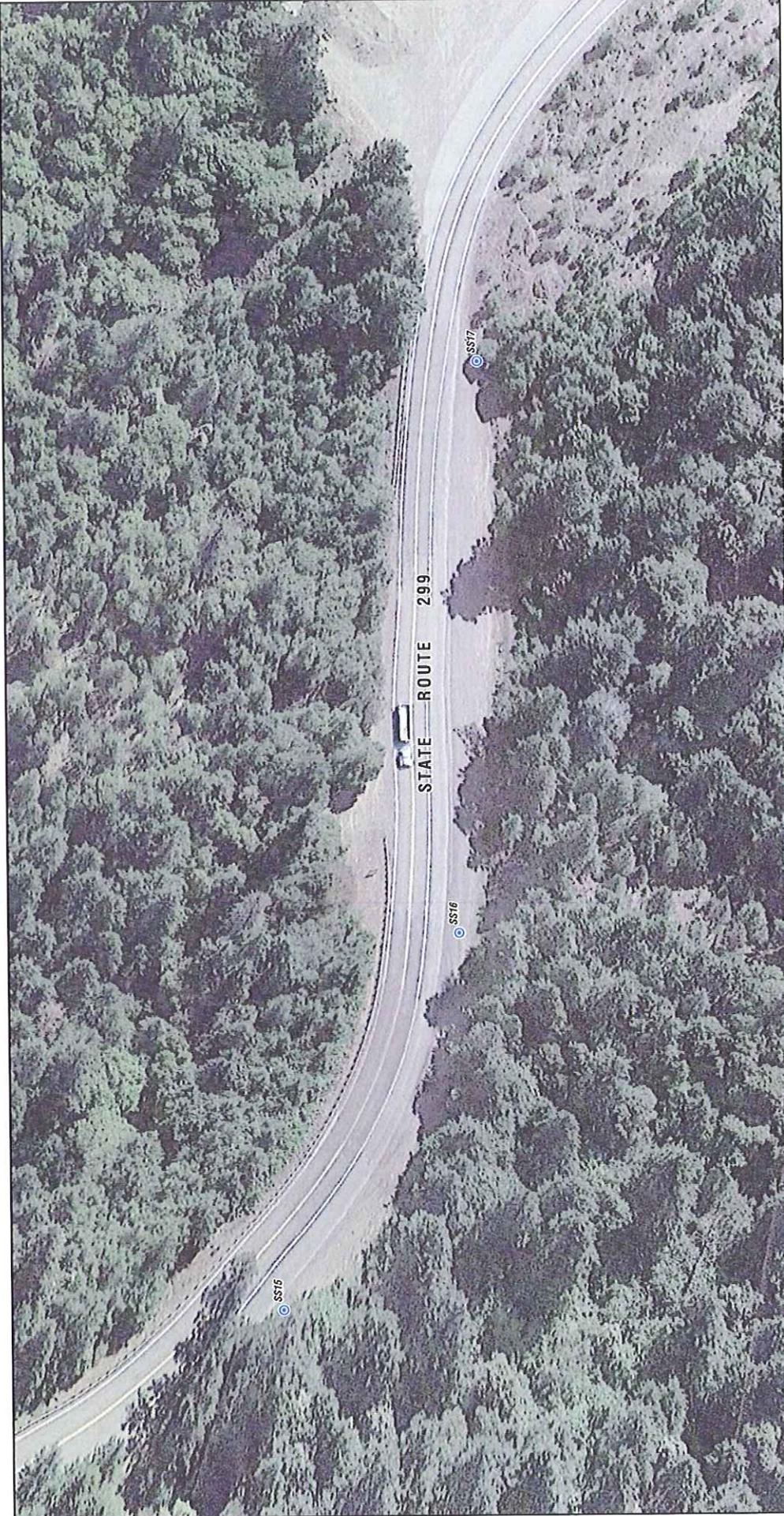


GEOCON
CONSULTANTS, INC.
 3180 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
 PHONE 916.882.9118 - FAX 916.882.9132

State Route 299 (02-TRI-299) Post Mile 2.3 to 20.5	
Trinity County, California	SITE PLAN
GEOCON Proj. No. S9805-01-68	PM 6.6 to 6.8
Task Order No. 68	April 2016 Figure 2-3



LEGEND:
 SS1/ Approximate Naturally Occurring
 Asbestos Sample Location



GEOCON CONSULTANTS, INC.
 3168 OGDEN VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
 PHONE 916.852.9118 - FAX 916.852.9132

State Route 299 (02-TRI-299) Post Mile 2.3 to 20.5

Trinity County, California

GEOCON Proj. No. S9805-01-68

Task Order No. 68

SITE PLAN
PM 8.1 to 8.3

April 2016

Figure 2-4



LEGEND:
 SS17 Approximate Naturally Occurring Asbestos Sample Location



GEOCON
CONSULTANTS, INC.
 3166 GOLD VALLEY DR - SUITE 800 - RANCHO CONCHOVA, CA 95742
 PHONE 916.852.9118 - FAX 916.852.9132

State Route 299 (02-TFI-299) Post Mile 2.3 to 20.5
 Trinity County,
 California
SITE PLAN
PM 15.2 to 15.5
 GEOCON Proj. No. S9805-01-68
 Task Order No. 68
 April 2016
 Figure 2-5



LEGEND:
 B1 X Approximately Aerially Deposited Lead/
 Naturally Occurring Asbestos Boring Location



GEOCON
 CONSULTANTS, INC.
 3180 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
 PHONE 916.882.9118 - FAX 916.852.9132

State Route 299 (02-TRI-299) Post Mile 2.3 to 20.5	
Trinity County, California	SITE PLAN
GEOCON Proj. No. S9805-01-68	PM 20.2 to 20.5
Task Order No. 68	April 2016



LEGEND:
 SS7 Approximate Naturally Occurring
 Asbestos Sample Location

TABLE 1
 SUMMARY OF SOIL BORING COORDINATES
 EA 02-4G3801
 STATE ROUTE 299 (02-TRI-299) POST MILE 2.3 TO 20.5
 TRINITY COUNTY, CALIFORNIA

BORING ID	SAMPLE DATE	LATITUDE	LONGITUDE
B1	3/15/2016	NA	NA
B2	3/15/2016	40.89214475	-123.5640215
B3	3/15/2016	40.89226280	-123.5630318
B4	3/15/2016	40.89209958	-123.5629900
B5	3/15/2016	40.89194659	-123.5624960
B6	3/15/2016	40.89181749	-123.5623429
B7	3/15/2016	40.89153658	-123.5620226
B8	3/15/2016	40.89139153	-123.5617899
B9	3/15/2016	40.89125171	-123.5615635
B10	3/15/2016	40.89111785	-123.5613931
B11	3/15/2016	40.89088113	-123.5612128
B12	3/15/2016	40.89022594	-123.5604379
B13	3/16/2016	40.78388598	-123.4229546
B14	3/16/2016	40.78367077	-123.4220604
B15	3/16/2016	40.78392518	-123.4207570
B16	3/16/2016	NA	NA
B17	3/16/2016	40.78534184	-123.4189187
B18	3/16/2016	40.78590001	-123.4183556
B19	3/16/2016	40.78597188	-123.4183421
B20	3/16/2016	40.78533558	-123.4190847
B21	3/16/2016	40.78468861	-123.4198212
B22	3/16/2016	40.78406335	-123.4205669
B23	3/16/2016	40.78378671	-123.4215841
B24	3/16/2016	40.78387303	-123.4227531
SS1	3/15/2016	NA	NA
SS2	3/15/2016	40.89216370	-123.5636382
SS3	3/15/2016	40.89223459	-123.5633297
SS4	3/15/2016	40.87442655	-123.5358467
SS5	3/15/2016	40.87394819	-123.5348241
SS6	3/15/2016	40.87189480	-123.5284224
SS7	3/15/2016	40.87306592	-123.5324793
SS8	3/15/2016	40.87350175	-123.5340642
SS9	3/15/2016	40.87376675	-123.5344905
SS10	3/15/2016	40.87320248	-123.5333098
SS11	3/15/2016	40.87255405	-123.5307009
SS12	3/15/2016	40.86050561	-123.5062889
SS13	3/15/2016	40.86093899	-123.5053210
SS14	3/15/2016	40.86145196	-123.5045578
SS15	3/15/2016	40.84971884	-123.4876911
SS16	3/15/2016	40.84930428	-123.4864635
SS17	3/15/2016	40.84955567	-123.4850676
SS18	3/15/2016	40.78346634	-123.3493413
SS19	3/15/2016	40.78427075	-123.3495678
SS20	3/15/2016	40.78512089	-123.3493571
SS21	3/15/2016	40.78373463	-123.3496649

Notes: NA = No GPS data

TABLE 2
 SUMMARY OF SOIL ANALYTICAL RESULTS - LEAD
 EA 02-4G3801
 STATE ROUTE 299 (02-TRI-299) POST MILE 2.3 TO 20.5
 TRINITY COUNTY, CALIFORNIA

BORING ID	SAMPLE DEPTH INTERVAL (feet)	TOTAL LEAD (mg/kg)
SR-299 POST MILE 2.38 TO 2.45		
B1-0	0-0.5	<1.0
B1-0.5	0.5-1	1.7
B1-1	1-2	8.6
B1-2	2-3	11
B2-0	0-0.5	4.8
B2-0.5	0.5-1	7.2
B2-1	1-2	8.8
B3-0	0-0.5	5.3
B3-0.5	0.5-1	6.8
B4-0	0-0.5	3.4
B4-0.5	0.5-1	52
B4-1	1-2	39
B4-2	2-3	11
B5-0	0-0.5	2.9
B5-0.5	0.5-1	8.7
B5-1	1-2	10
B5-2	2-3	32
B6-0	0-0.5	4.1
B6-0.5	0.5-1	9.4
B6-1	1-2	65
B7-0	0-0.5	2.7
B7-0.5	0.5-1	6.7
B7-1	1-2	6.5
B7-2	2-3	6.3
B8-0	0-0.5	11
B8-0.5	0.5-1	19
B8-1	1-2	6.8
B8-2	2-3	7.9
B9-0	0-0.5	2.5
B9-0.5	0.5-1	8.2
B10-0	0-0.5	3.5
B10-0.5	0.5-1	8.3
B10-1	1-2	4.4
B10-2	2-3	5.0
B11-0	0-0.5	4.2
B11-0.5	0.5-1	6.9

TABLE 2
 SUMMARY OF SOIL ANALYTICAL RESULTS - LEAD
 EA 02-4G3801
 STATE ROUTE 299 (02-TRI-299) POST MILE 2.3 TO 20.5
 TRINITY COUNTY, CALIFORNIA

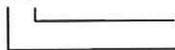
BORING ID	SAMPLE DEPTH INTERVAL (feet)	TOTAL LEAD (mg/kg)
B12-0	0-0.5	3.0
B12-0.5	0.5-1	4.5
SR-299 POST MILE 15.2 TO 15.5		
B13-0	0-0.5	<1.0
B13-0.5	0.5-1	31
B13-1	1-2	1.9
B13-2	2-3	2.1
B14-0	0-0.5	4.8
B14-0.5	0.5-1	3.7
B15-0	0-0.5	2.8
B15-0.5	0.5-1	23
B15-1	1-2	2.7
B16-0	0-0.5	16
B16-0.5	0.5-1	3.5
B16-1	1-2	1.6
B17-0	0-0.5	3.3
B17-0.5	0.5-1	12
B18-0	0-0.5	2.6
B18-0.5	0.5-1	1.8
B18-1	1-2	<1.0
B18-2	2-3	<1.0
B19-0	0-0.5	1.7
B19-0.5	0.5-1	1.5
B20-0	0-0.5	1.6
B20-0.5	0.5-1	6.9
B20-1	1-2	1.7
B21-0	0-0.5	1.9
B21-0.5	0.5-1	12
B22-0	0-0.5	1.2
B22-0.5	0.5-1	20
B22-1	1-2	1.4
B23-0	0-0.5	1.8
B23-0.5	0.5-1	1.6
B24-0	0-0.5	2.4
B24-0.5	0.5-1	2.9

TABLE 2
 SUMMARY OF SOIL ANALYTICAL RESULTS - LEAD
 EA 02-4G3801
 STATE ROUTE 299 (02-TRI-299) POST MILE 2.3 TO 20.5
 TRINITY COUNTY, CALIFORNIA

BORING ID	SAMPLE DEPTH INTERVAL (feet)	TOTAL LEAD (mg/kg)
B24-1	1-2	3.2
B24-2	2-3	2.7
TTLC		1,000
10 x STLC		50
<u>CHHSLs</u>		
Industrial		320
Residential		80
<u>ESLs</u>		
Table S-1, Industrial		320
Table S-1, Residential		80
Table S-1, Construction Exposure		320
<u>Background Concentrations ⁽¹⁾</u>		
Minimum		12.4
Maximum		97.1
Mean		23.9

Notes:

B1-0



Top of sampling depth interval in feet below ground surface
 Boring identification

mg/kg = Milligrams per kilogram

< = Less than the laboratory reporting limit

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

CHHSLs = California Environmental Protection Agency, California Human Health Screening Levels

ESLs = Environmental Screening Levels, Table S-1, San Francisco Bay Regional Water Quality Control Board, February 2016

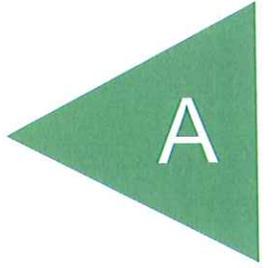
⁽¹⁾ Background Concentrations of Trace and Major Elements in California Soils (Kearney Foundation of Soil Science, Division of Agricultural and Natural Resources, University of California, March 1996)

TABLE 3
 SUMMARY OF SOIL ANALYTICAL RESULTS - ASBESTOS
 EA 02-4G3801
 STATE ROUTE 299 (02-TRI-299) POST MILE 2.3 TO 20.5
 TRINITY COUNTY, CALIFORNIA

SAMPLE ID	APPROXIMATE POST MILES	ANALYTICAL METHOD	ASBESTOS %	ASBESTOS TYPE
SS1	PM 2.38 to 2.45	PLM	ND	None Reported
SS2	PM 2.38 to 2.45	PLM	ND	None Reported
SS3	PM 2.38 to 2.45	PLM	ND	None Reported
SS4-2	PM 4.6 to 5.18	PLM	ND	None Reported
SS5-1	PM 4.6 to 5.18	PLM	ND	None Reported
SS6-1	PM 4.6 to 5.18	PLM	ND	None Reported
SS7-1	PM 4.6 to 5.18	PLM	ND	None Reported
SS8-1	PM 4.6 to 5.18	PLM	ND	None Reported
SS9-2	PM 4.6 to 5.18	PLM	ND	None Reported
SS10-0.5	PM 4.6 to 5.18	PLM	ND	None Reported
SS11-1	PM 4.6 to 5.18	PLM	ND	None Reported
SS12-1	PM 6.69 to 6.79	PLM	ND	None Reported
SS13-0.5	PM 6.69 to 6.79	PLM	ND	None Reported
SS14-1	PM 6.69 to 6.79	PLM	ND	None Reported
SS15-1	PM 8.13 to 8.27	PLM	ND	None Reported
SS16-1	PM 8.13 to 8.27	PLM	ND	None Reported
SS17-1	PM 8.13 to 8.27	PLM	ND	None Reported
SS18-1	PM 20.2 to 20.51	PLM	ND	None Reported
SS19-0	PM 20.2 to 20.51	PLM	ND	None Reported
SS20-1	PM 20.2 to 20.51	PLM	ND	None Reported
SS21-1	PM 20.2 to 20.51	PLM	ND	None Reported
NOA-B1-2	PM 2.38 to 2.45	PLM	ND	None Reported
NOA-B2-1	PM 2.38 to 2.45	PLM	ND	None Reported
NOA-B3-0.5	PM 2.38 to 2.45	PLM	ND	None Reported
NOA-B4-2	PM 2.38 to 2.45	PLM	ND	None Reported
NOA-B6-1	PM 2.38 to 2.45	PLM	ND	None Reported
NOA-B7-2	PM 2.38 to 2.45	PLM	ND	None Reported
NOA-B10-2	PM 2.38 to 2.45	PLM	ND	None Reported
NOA-B11-0.5	PM 2.38 to 2.45	PLM	ND	None Reported
NOA-B12-0.5	PM 2.38 to 2.45	PLM	ND	None Reported
NOA-B13-2	PM 15.2 to 15.5	PLM	ND	None Reported
NOA-B14-0.5	PM 15.2 to 15.5	PLM	ND	None Reported
NOA-B15-1	PM 15.2 to 15.5	PLM	ND	None Reported
NOA-B17-0.5	PM 15.2 to 15.5	PLM	ND	None Reported
NOA-B19-0.5	PM 15.2 to 15.5	PLM	ND	None Reported
NOA-B20-1	PM 15.2 to 15.5	PLM	ND	None Reported
NOA-B22-1	PM 15.2 to 15.5	PLM	ND	None Reported
NOA-B23-0.5	PM 15.2 to 15.5	PLM	ND	None Reported
NOA-B24-2	PM 15.2 to 15.5	PLM	ND	None Reported

Notes:
 PLM = Polarized Light Microscopy
 ND = None detected

APPENDIX





March 25, 2016

Rebecca Silva
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
Tel: (916) 852-9118
Fax:(916) 852-9132

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

Re: ATL Work Order Number : 1601051

Client Reference : Trinity 299 Salyer ADL Survey, S9805-01-68

Enclosed are the results for sample(s) received on March 18, 2016 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

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

Sincerely,

A handwritten signature in black ink, appearing to read "E Rodriguez", written in a cursive style.

Eddie Rodriguez
Laboratory Director

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



Certificate of Analysis

Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742

Project Number : Trinity 299 Salyer ADL Survey, S9805-01-68
Report To : Rebecca Silva
Reported : 03/25/2016

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B1-0	1601051-01	Soil	3/15/16 12:06	3/18/16 9:00
B1-0.5	1601051-02	Soil	3/15/16 12:10	3/18/16 9:00
B1-1	1601051-03	Soil	3/15/16 12:16	3/18/16 9:00
B1-2	1601051-04	Soil	3/15/16 12:20	3/18/16 9:00
B2-0	1601051-05	Soil	3/15/16 12:25	3/18/16 9:00
B2-0.5	1601051-06	Soil	3/15/16 12:26	3/18/16 9:00
B2-1	1601051-07	Soil	3/15/16 12:28	3/18/16 9:00
B3-0	1601051-08	Soil	3/15/16 12:35	3/18/16 9:00
B3-0.5	1601051-09	Soil	3/15/16 12:38	3/18/16 9:00
B4-0	1601051-10	Soil	3/15/16 12:43	3/18/16 9:00
B4-0.5	1601051-11	Soil	3/15/16 12:45	3/18/16 9:00
B4-1	1601051-12	Soil	3/15/16 12:47	3/18/16 9:00
B4-2	1601051-13	Soil	3/15/16 12:49	3/18/16 9:00
B5-0	1601051-14	Soil	3/15/16 12:51	3/18/16 9:00
B5-0.5	1601051-15	Soil	3/15/16 12:52	3/18/16 9:00
B5-1	1601051-16	Soil	3/15/16 13:00	3/18/16 9:00
B5-2	1601051-17	Soil	3/15/16 13:02	3/18/16 9:00
B6-0	1601051-18	Soil	3/15/16 13:06	3/18/16 9:00
B6-0.5	1601051-19	Soil	3/15/16 13:08	3/18/16 9:00
B6-1	1601051-20	Soil	3/15/16 13:15	3/18/16 9:00
B7-0	1601051-21	Soil	3/15/16 13:18	3/18/16 9:00
B7-0.5	1601051-22	Soil	3/15/16 13:19	3/18/16 9:00
B7-1	1601051-23	Soil	3/15/16 13:22	3/18/16 9:00
B7-2	1601051-24	Soil	3/15/16 13:26	3/18/16 9:00
B8-0	1601051-25	Soil	3/15/16 13:32	3/18/16 9:00
B8-0.5	1601051-26	Soil	3/15/16 13:33	3/18/16 9:00
B8-1	1601051-27	Soil	3/15/16 13:36	3/18/16 9:00
B8-2	1601051-28	Soil	3/15/16 13:38	3/18/16 9:00
B9-0	1601051-29	Soil	3/15/16 13:43	3/18/16 9:00
B9-0.5	1601051-30	Soil	3/15/16 13:52	3/18/16 9:00
B10-0	1601051-31	Soil	3/15/16 14:05	3/18/16 9:00
B10-0.5	1601051-32	Soil	3/15/16 14:07	3/18/16 9:00
B10-1	1601051-33	Soil	3/15/16 14:09	3/18/16 9:00
B10-2	1601051-34	Soil	3/15/16 14:11	3/18/16 9:00



Certificate of Analysis

Geocon Consultants, Inc.

Project Number : Trinity 299 Salyer ADL Survey, S9805-01-68

3160 Gold Valley Drive, Suite 800

Report To : Rebecca Silva

Rancho Cordova , CA 95742

Reported : 03/25/2016

B11-0	1601051-35	Soil	3/15/16 14:17	3/18/16 9:00
B11-0.5	1601051-36	Soil	3/15/16 14:22	3/18/16 9:00
B12-0	1601051-37	Soil	3/15/16 14:27	3/18/16 9:00
B12-0.5	1601051-38	Soil	3/15/16 14:29	3/18/16 9:00
B13-0	1601051-39	Soil	3/16/16 8:00	3/18/16 9:00
B13-0.5	1601051-40	Soil	3/16/16 8:02	3/18/16 9:00
B13-1	1601051-41	Soil	3/16/16 8:03	3/18/16 9:00
B13-2	1601051-42	Soil	3/16/16 8:04	3/18/16 9:00
B14-0	1601051-43	Soil	3/16/16 8:11	3/18/16 9:00
B14-0.5	1601051-44	Soil	3/16/16 8:12	3/18/16 9:00
B15-0	1601051-45	Soil	3/16/16 8:24	3/18/16 9:00
B15-0.5	1601051-46	Soil	3/16/16 8:27	3/18/16 9:00
B15-1	1601051-47	Soil	3/16/16 8:32	3/18/16 9:00
B16-0	1601051-48	Soil	3/16/16 8:38	3/18/16 9:00
B16-0.5	1601051-49	Soil	3/16/16 8:40	3/18/16 9:00
B16-1	1601051-50	Soil	3/16/16 8:44	3/18/16 9:00
B17-0	1601051-51	Soil	3/16/16 8:52	3/18/16 9:00
B17-0.5	1601051-52	Soil	3/16/16 8:56	3/18/16 9:00
B18-0	1601051-53	Soil	3/16/16 9:02	3/18/16 9:00
B18-0.5	1601051-54	Soil	3/16/16 9:05	3/18/16 9:00
B18-1	1601051-55	Soil	3/16/16 9:07	3/18/16 9:00
B18-2	1601051-56	Soil	3/16/16 9:10	3/18/16 9:00
B19-0	1601051-57	Soil	3/16/16 9:14	3/18/16 9:00
B19-0.5	1601051-58	Soil	3/16/16 9:15	3/18/16 9:00
B20-0	1601051-59	Soil	3/16/16 9:23	3/18/16 9:00
B20-0.5	1601051-60	Soil	3/16/16 9:24	3/18/16 9:00
B20-1	1601051-61	Soil	3/16/16 9:25	3/18/16 9:00
B21-0	1601051-62	Soil	3/16/16 9:33	3/18/16 9:00
B21-0.5	1601051-63	Soil	3/16/16 9:34	3/18/16 9:00
B22-0	1601051-64	Soil	3/16/16 9:40	3/18/16 9:00
B22-0.5	1601051-65	Soil	3/16/16 9:42	3/18/16 9:00
B22-1	1601051-66	Soil	3/16/16 9:44	3/18/16 9:00
B23-0	1601051-67	Soil	3/16/16 9:49	3/18/16 9:00
B23-0.5	1601051-68	Soil	3/16/16 9:53	3/18/16 9:00
B24-0	1601051-69	Soil	3/16/16 9:57	3/18/16 9:00
B24-0.5	1601051-70	Soil	3/16/16 9:58	3/18/16 9:00
B24-1	1601051-71	Soil	3/16/16 10:00	3/18/16 9:00
B24-2	1601051-72	Soil	3/16/16 10:02	3/18/16 9:00



Certificate of Analysis

Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova , CA 95742

Project Number : Trinity 299 Salyer ADL Survey, S9805-01-68
Report To : Rebecca Silva
Reported : 03/25/2016

Lead by ICP-AES EPA 6010B

Analyte: Lead

Analyst: RR

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time	Notes
								Analyzed	
1601051-01	B1-0	ND	mg/kg	1.0	1	B6C0581	03/22/2016	03/23/16 07:58	
1601051-02	B1-0.5	1.7	mg/kg	1.0	1	B6C0581	03/22/2016	03/23/16 07:59	
1601051-03	B1-1	8.6	mg/kg	1.0	1	B6C0581	03/22/2016	03/23/16 08:00	
1601051-04	B1-2	11	mg/kg	1.0	1	B6C0581	03/22/2016	03/23/16 08:00	
1601051-05	B2-0	4.8	mg/kg	1.0	1	B6C0581	03/22/2016	03/23/16 08:01	
1601051-06	B2-0.5	7.2	mg/kg	1.0	1	B6C0581	03/22/2016	03/23/16 08:02	
1601051-07	B2-1	8.8	mg/kg	1.0	1	B6C0581	03/22/2016	03/23/16 08:03	
1601051-08	B3-0	5.3	mg/kg	1.0	1	B6C0581	03/22/2016	03/23/16 08:06	
1601051-09	B3-0.5	6.8	mg/kg	1.0	1	B6C0581	03/22/2016	03/23/16 08:07	
1601051-10	B4-0	3.4	mg/kg	1.0	1	B6C0581	03/22/2016	03/23/16 08:08	
1601051-11	B4-0.5	52	mg/kg	1.0	1	B6C0581	03/22/2016	03/23/16 08:11	
1601051-12	B4-1	39	mg/kg	1.0	1	B6C0581	03/22/2016	03/23/16 08:12	
1601051-13	B4-2	11	mg/kg	1.0	1	B6C0581	03/22/2016	03/23/16 08:13	
1601051-14	B5-0	2.9	mg/kg	1.0	1	B6C0581	03/22/2016	03/23/16 08:13	
1601051-15	B5-0.5	8.7	mg/kg	1.0	1	B6C0581	03/22/2016	03/23/16 08:15	
1601051-16	B5-1	10	mg/kg	1.0	1	B6C0581	03/22/2016	03/23/16 08:18	
1601051-17	B5-2	32	mg/kg	1.0	1	B6C0581	03/22/2016	03/23/16 08:18	
1601051-18	B6-0	4.1	mg/kg	1.0	1	B6C0581	03/22/2016	03/23/16 08:19	
1601051-19	B6-0.5	9.4	mg/kg	1.0	1	B6C0581	03/22/2016	03/23/16 08:20	
1601051-20	B6-1	65	mg/kg	1.0	1	B6C0581	03/22/2016	03/23/16 08:21	
1601051-21	B7-0	2.7	mg/kg	1.0	1	B6C0582	03/22/2016	03/23/16 08:29	
1601051-22	B7-0.5	6.7	mg/kg	1.0	1	B6C0582	03/22/2016	03/23/16 08:31	
1601051-23	B7-1	6.5	mg/kg	1.0	1	B6C0582	03/22/2016	03/23/16 08:31	
1601051-24	B7-2	6.3	mg/kg	1.0	1	B6C0582	03/22/2016	03/23/16 08:32	
1601051-25	B8-0	11	mg/kg	1.0	1	B6C0582	03/22/2016	03/23/16 08:33	
1601051-26	B8-0.5	19	mg/kg	1.0	1	B6C0582	03/22/2016	03/23/16 08:34	
1601051-27	B8-1	6.8	mg/kg	1.0	1	B6C0582	03/22/2016	03/23/16 08:34	
1601051-28	B8-2	7.9	mg/kg	1.0	1	B6C0582	03/22/2016	03/23/16 08:35	
1601051-29	B9-0	2.5	mg/kg	1.0	1	B6C0582	03/22/2016	03/23/16 08:36	
1601051-30	B9-0.5	8.2	mg/kg	1.0	1	B6C0582	03/22/2016	03/23/16 08:39	



Certificate of Analysis

Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova , CA 95742

Project Number : Trinity 299 Salyer ADL Survey, S9805-01-68
Report To : Rebecca Silva
Reported : 03/25/2016

Lead by ICP-AES EPA 6010B

Analyte: Lead

Analyst: RR

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time		Notes
								Analized		
1601051-31	B10-0	3.5	mg/kg	1.0	1	B6C0582	03/22/2016	03/23/16 08:42		
1601051-32	B10-0.5	8.3	mg/kg	1.0	1	B6C0582	03/22/2016	03/23/16 08:43		
1601051-33	B10-1	4.4	mg/kg	1.0	1	B6C0582	03/22/2016	03/23/16 08:43		
1601051-34	B10-2	5.0	mg/kg	1.0	1	B6C0582	03/22/2016	03/23/16 08:44		
1601051-35	B11-0	4.2	mg/kg	1.0	1	B6C0582	03/22/2016	03/23/16 08:45		
1601051-36	B11-0.5	6.9	mg/kg	1.0	1	B6C0582	03/22/2016	03/23/16 08:46		
1601051-37	B12-0	3.0	mg/kg	1.0	1	B6C0582	03/22/2016	03/23/16 08:46		
1601051-38	B12-0.5	4.5	mg/kg	1.0	1	B6C0582	03/22/2016	03/23/16 08:50		
1601051-39	B13-0	ND	mg/kg	1.0	1	B6C0582	03/22/2016	03/23/16 08:50		
1601051-40	B13-0.5	31	mg/kg	1.0	1	B6C0582	03/22/2016	03/23/16 08:52		
1601051-41	B13-1	1.9	mg/kg	1.0	1	B6C0583	03/22/2016	03/23/16 08:58		
1601051-42	B13-2	2.1	mg/kg	1.0	1	B6C0583	03/22/2016	03/23/16 09:01		
1601051-43	B14-0	4.8	mg/kg	1.0	1	B6C0583	03/22/2016	03/23/16 09:02		
1601051-44	B14-0.5	3.7	mg/kg	1.0	1	B6C0583	03/22/2016	03/23/16 09:02		
1601051-45	B15-0	2.8	mg/kg	1.0	1	B6C0583	03/22/2016	03/23/16 09:03		
1601051-46	B15-0.5	23	mg/kg	1.0	1	B6C0583	03/22/2016	03/23/16 09:04		
1601051-47	B15-1	2.7	mg/kg	1.0	1	B6C0583	03/22/2016	03/23/16 09:04		
1601051-48	B16-0	16	mg/kg	1.0	1	B6C0583	03/22/2016	03/23/16 09:05		
1601051-49	B16-0.5	3.5	mg/kg	1.0	1	B6C0583	03/22/2016	03/23/16 09:06		
1601051-50	B16-1	1.6	mg/kg	1.0	1	B6C0583	03/22/2016	03/23/16 09:07		
1601051-51	B17-0	3.3	mg/kg	1.0	1	B6C0583	03/22/2016	03/23/16 09:11		
1601051-52	B17-0.5	12	mg/kg	1.0	1	B6C0583	03/22/2016	03/23/16 09:12		
1601051-53	B18-0	2.6	mg/kg	1.0	1	B6C0583	03/22/2016	03/23/16 09:12		
1601051-54	B18-0.5	1.8	mg/kg	1.0	1	B6C0583	03/22/2016	03/23/16 09:13		
1601051-55	B18-1	ND	mg/kg	1.0	1	B6C0583	03/22/2016	03/23/16 09:44		
1601051-56	B18-2	ND	mg/kg	1.0	1	B6C0583	03/22/2016	03/23/16 09:14		
1601051-57	B19-0	1.7	mg/kg	1.0	1	B6C0583	03/22/2016	03/23/16 09:15		
1601051-58	B19-0.5	1.5	mg/kg	1.0	1	B6C0583	03/22/2016	03/23/16 09:16		
1601051-59	B20-0	1.6	mg/kg	1.0	1	B6C0583	03/22/2016	03/23/16 09:17		
1601051-60	B20-0.5	6.9	mg/kg	1.0	1	B6C0583	03/22/2016	03/23/16 09:20		



Certificate of Analysis

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Project Number : Trinity 299 Salyer ADL Survey, S9805-01-68

Report To : Rebecca Silva

Reported : 03/25/2016

Lead by ICP-AES EPA 6010B

Analyte: Lead

Analyst: RR

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time	
								Analyzed	Notes
1601051-61	B20-1	1.7	mg/kg	1.0	1	B6C0584	03/22/2016	03/23/16 09:26	
1601051-62	B21-0	1.9	mg/kg	1.0	1	B6C0584	03/22/2016	03/23/16 09:27	
1601051-63	B21-0.5	12	mg/kg	1.0	1	B6C0584	03/22/2016	03/23/16 09:28	
1601051-64	B22-0	1.2	mg/kg	1.0	1	B6C0584	03/22/2016	03/23/16 09:30	
1601051-65	B22-0.5	20	mg/kg	1.0	1	B6C0584	03/22/2016	03/23/16 09:32	
1601051-66	B22-1	1.4	mg/kg	1.0	1	B6C0584	03/22/2016	03/23/16 09:33	
1601051-67	B23-0	1.8	mg/kg	1.0	1	B6C0584	03/22/2016	03/23/16 09:33	
1601051-68	B23-0.5	1.6	mg/kg	1.0	1	B6C0584	03/22/2016	03/23/16 09:35	
1601051-69	B24-0	2.4	mg/kg	1.0	1	B6C0584	03/22/2016	03/23/16 09:35	
1601051-70	B24-0.5	2.9	mg/kg	1.0	1	B6C0584	03/22/2016	03/23/16 09:36	
1601051-71	B24-1	3.2	mg/kg	1.0	1	B6C0584	03/22/2016	03/23/16 09:38	
1601051-72	B24-2	2.7	mg/kg	1.0	1	B6C0584	03/22/2016	03/23/16 09:41	



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QUALITY CONTROL SECTION

Lead by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B6C0581 - EPA 3050 Modified_S									
Blank (B6C0581-BLK1)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	ND	1.0			NR				
Blank (B6C0581-BLK2)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	ND	1.0			NR				
LCS (B6C0581-BS1)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	49.8818	1.0	50.0000		99.8	80 - 120			
Duplicate (B6C0581-DUP1)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	79.1788	1.0		64.8279	NR		19.9	20	
Duplicate (B6C0581-DUP2)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	2.70868	1.0		3.36737	NR		21.7	20	R
Matrix Spike (B6C0581-MS1)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	242.188	1.0	250.000	64.8279	70.9	35 - 129			
Matrix Spike (B6C0581-MS2)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	204.424	1.0	250.000	3.36737	80.4	35 - 129			
Matrix Spike Dup (B6C0581-MSD1)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	236.946	1.0	250.000	64.8279	68.8	35 - 129	2.19	20	



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Lead by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
Batch B6C0582 - EPA 3050 Modified_S									
Blank (B6C0582-BLK1)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	ND	1.0			NR				
Blank (B6C0582-BLK2)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	ND	1.0			NR				
LCS (B6C0582-BS1)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	48.9794	1.0	50.0000		98.0	80 - 120			
Duplicate (B6C0582-DUP1)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	34.6122	1.0		31.0879	NR		10.7	20	
Duplicate (B6C0582-DUP2)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	5.31048	1.0		8.15276	NR		42.2	20	R
Matrix Spike (B6C0582-MS1)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	213.837	1.0	250.000	31.0879	73.1	35 - 129			
Matrix Spike (B6C0582-MS2)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	203.195	1.0	250.000	8.15276	78.0	35 - 129			
Matrix Spike Dup (B6C0582-MSD1)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	218.278	1.0	250.000	31.0879	74.9	35 - 129	2.06	20	



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Geocon Consultants, Inc. 3160 Gold Valley Drive, Suite 800 Rancho Cordova, CA 95742	Project Number : Trinity 299 Salyer ADL Survey, S9805-01-68 Report To : Rebecca Silva Reported : 03/25/2016
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Lead by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
Batch B6C0583 - EPA 3050 Modified_S									
Blank (B6C0583-BLK1)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	ND	1.0			NR				
Blank (B6C0583-BLK2)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	ND	1.0			NR				
LCS (B6C0583-BS1)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	49.4295	1.0	50.0000		98.9	80 - 120			
Duplicate (B6C0583-DUP1)					Source: 1601051-60 Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	8.02624	1.0		6.93518	NR		14.6	20	
Duplicate (B6C0583-DUP2)					Source: 1601051-50 Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	1.46156	1.0		1.60626	NR		9.43	20	
Matrix Spike (B6C0583-MS1)					Source: 1601051-60 Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	159.116	1.0	250.000	6.93518	60.9	35 - 129			
Matrix Spike (B6C0583-MS2)					Source: 1601051-50 Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	170.909	1.0	250.000	1.60626	67.7	35 - 129			
Matrix Spike Dup (B6C0583-MSD1)					Source: 1601051-60 Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	117.259	1.0	250.000	6.93518	44.1	35 - 129	30.3	20	R



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Project Number : Trinity 299 Salyer ADL Survey, S9805-01-68
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 Reported : 03/25/2016

Lead by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	Limits Limits	RPD RPD	Limit Limit	Notes
Batch B6C0584 - EPA 3050 Modified_S									
Blank (B6C0584-BLK1)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	ND	1.0			NR				
Blank (B6C0584-BLK2)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	ND	1.0			NR				
LCS (B6C0584-BS1)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	48.0006	1.0	50.0000		96.0	80 - 120			
Duplicate (B6C0584-DUP1)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	2.99379	1.0		2.67078	NR		11.4	20	
Duplicate (B6C0584-DUP2)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	2.90204	1.0		2.92910	NR		0.928	20	
Matrix Spike (B6C0584-MS1)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	177.162	1.0	250.000	2.67078	69.8	35 - 129			
Matrix Spike (B6C0584-MS2)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	177.710	1.0	250.000	2.92910	69.9	35 - 129			
Matrix Spike Dup (B6C0584-MSD1)					Prepared: 3/22/2016 Analyzed: 3/23/2016				
Lead	176.672	1.0	250.000	2.67078	69.6	35 - 129	0.276	20	



Certificate of Analysis

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Project Number : Trinity 299 Salyer ADL Survey, S9805-01-68
Report To : Rebecca Silva
Reported : 03/25/2016

Notes and Definitions

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

Notes:

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

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY

Advanced Technology Laboratories

3275 Walnut Avenue
Signal Hill, CA 90755

Tel: (562) 989-4045 • Fax: (562) 989-4040

Method of Transport
 Client
 ATL
 CA OverN
 FedEx
 Other: 1.2

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

Address: 3160 Gold Valley Drive, Suite 800

Tel: 916-852-9118

Fax: -946-852-9132

State: CA

City: Rancho Cordova

Zip Code: 95742

Client Geocoin

Attention: Rebecca Silva

Project Name: Trinity 299 Salyer ADL Survey

Project #: S9805-01-68

State: CA

City: Rancho Cordova

Zip Code: 95742

Relinquished by: (Signature and Printed Name)
 Rebecca Silva 3/17/16

Time: 1500

State: CA

City: Rancho Cordova

Zip Code: 95742

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Zip Code: 95742

Relinquished by: (Signature and Printed Name)
 Rebecca Silva 3/17/16

Time: 1500

State: CA

City: Rancho Cordova

Zip Code: 95742

Relinquished by: (Signature and Printed Name)
 Rebecca Silva 3/17/16

Time: 1500

State: CA

City: Rancho Cordova

Zip Code: 95742

Relinquished by: (Signature and Printed Name)
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Zip Code: 95742

Relinquished by: (Signature and Printed Name)
 Rebecca Silva 3/17/16

Time: 1500

State: CA

City: Rancho Cordova

Zip Code: 95742

LAB USE ONLY:	Lab No.	Sample ID / Location	Date	Time
	1001051 -1	B1-0-	3/15	1206
	-2	-0.5	3/15	1210
	-3	-1	3/15	1216
	-4	-2	3/15	1220
	-5	B2-0	3/15	1225
	-6	-0.5	3/15	1226
	-7	-1	3/15	1228
	-8	B3-0	3/15	1235
	-9	-0.5	3/15	1236
	-10	B4-0	3/15	1243
	-11	-0.5	3/15	1245
	-12	-1	3/15	1247
	-13	B5-0	3/15	1249
	-14	-0.5	3/15	1251
	-15	-1	3/15	1252
	-16	B6-0	3/15	1300
	-17	-0.5	3/15	1302
	-18	-1	3/15	1306
	-19	-0.5	3/15	1308
	-20	-1	3/15	1315

Matrix	Container(s)	Type	TAT #	Remarks
SOIL			5-Day	
WATER				
GROUND WATER				
WASTEWATER				

Special Instructions/Comments:
 03A2132
 Homogenize Samples for metals analysis
 Provide EDF
 Expedited 5-Day TAT

QA/QC
 RTME
 CT
 SWRCB
 Logcode
 OTHER

Bill To:
 Attn:
 Co:
 Addr:
 City:
 State:
 Zip:

Received by: (Signature and Printed Name)
 Rebecca Silva 3/17/16

Received by: (Signature and Printed Name)
 Rebecca Silva 3/17/16

Received by: (Signature and Printed Name)
 Rebecca Silva 3/17/16

Received by: (Signature and Printed Name)
 Rebecca Silva 3/17/16

Preservatives:
 H=HCl N=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(Ac)₂ O=NaOH T=Na₂S₂O₃

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY

Advanced Technology Laboratories

3275 Walnut Avenue
Signal Hill, CA 90755

Tel: (562) 989-4045 • Fax: (562) 989-4040

Method of Transport

- Client
- ATL
- CA OverN
- FedEx
- Other: _____

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

P.O. #:

Logged By: _____ Date: _____

Address: 3160 Gold Valley Drive, Suite 800

City: Rancho Cordova State: CA Zip Code: 95742

Sampler: Cord Dennig

Project #: S9805-01-68

Project Name: Trinity 299 Salyer ADL Survey

Received by: (Signature and Printed Name)

Time: 1:50

Date: 3/16

Time: 9:00

Received by: (Signature and Printed Name)

Time: 1:50

Date: 3/16

Time: 9:00

Received by: (Signature and Printed Name)

Time: 1:50

Date: 3/16

Time: 9:00

Received by: (Signature and Printed Name)

Time: 1:50

Date: 3/16

Time: 9:00

I hereby authorize ATL to perform the work indicated below:

Project Mgr / Submitter: Rebecca Silva

Signature: _____ Date: 3/16/05

City: _____ State: _____ Zip: _____

Send Report To: _____

Attn: _____

Co: _____

Addr: _____

City: _____ State: _____ Zip: _____

Special Instructions/Comments:

03A2132

Homogenize Samples for metals analysis

Provide EDF

Expedited 5-Day TAT

Bill To: _____

Attn: _____

Co: _____

Addr: _____

City: _____ State: _____ Zip: _____

Circle or Add Analyst(s) Requested

Container(s)

TAT #

Type

REMARKS

QA/QC

RTNE

CT

Logcode

OTHER

PRESERVATION

H=HCl N=HNO₃ S=H₂SO₄ C=4°C

Z=Zn(Ac)₂ O=NaOH T=Na₂S₂O₃

Urgent 3 Workdays

Critical 2 Workdays

Emergency Next Workday

Overnight 5-24 hrs

TAT: A = B = C = D = E = F = G = H = I = J = K = L = M = N = O = P = Q = R = S = T = U = V = W = X = Y = Z =

Container Types: T=Tube V=VOA L=Liter

P=Plastic G=Glass B=Tedlar J=Jar P=Print

M=Metal

Preservatives:

H=HCl N=HNO₃ S=H₂SO₄ C=4°C

Z=Zn(Ac)₂ O=NaOH T=Na₂S₂O₃

Urgent 3 Workdays

Critical 2 Workdays

Emergency Next Workday

Overnight 5-24 hrs

TAT: A = B = C = D = E = F = G = H = I = J = K = L = M = N = O = P = Q = R = S = T = U = V = W = X = Y = Z =

Container Types: T=Tube V=VOA L=Liter

P=Plastic G=Glass B=Tedlar J=Jar P=Print

M=Metal

Preservatives:

H=HCl N=HNO₃ S=H₂SO₄ C=4°C

Z=Zn(Ac)₂ O=NaOH T=Na₂S₂O₃

TAT starts 8AM the following day if samples received after 3 PM

LAB USE ONLY:	Sample ID / Location	Date	Time
101051-1	B7-0	3/15	1318
101051-2	B7-0.5	3/15	1319
101051-3	B7-1	3/15	1322
101051-4	B7-2	3/15	1326
101051-5	B8-0	3/15	1337
101051-6	B8-0.5	3/15	1337
101051-7	B7-1	3/15	1336
101051-8	B7-2	3/15	1336
101051-9	B9-0	3/15	1343
101051-10	B9-0.5	3/15	1352
101051-11	B10-0	3/15	1405
101051-12	B10-0.5	3/15	1407
101051-13	B11-1	3/15	1409
101051-14	B11-2	3/15	1417
101051-15	B11-0	3/16	1422
101051-16	B12-0	3/16	1427
101051-17	B12-0.5	3/16	1429
101051-18	B13-0	3/16	1800
101051-19	B13-0.5	3/16	1807

CHAIN OF CUSTODY RECORD

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

FOR LABORATORY USE ONLY

Method of Transport: Client ATL CA OverN FedEx Other: _____

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

Address: 3160 Gold Valley Drive, Suite 800
 City: Rancho Cordova State: CA Zip Code: 95742
 Client: Geocoin
 Attention: Rebecca Silva
 Project Name: Trinity 299 Salver ADL Survey Project #: S9805-01-68
 Sampler: Cord Dennig

Received by: (Signature and Printed Name) Cord Dennig Date: 3/13/16 Time: 1:00
 Relinquished by: (Signature and Printed Name) [Signature] Date: 3/13/16 Time: 1:00
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____

Special Instructions/Comments: 03A2132
 Homogenize Samples for metals analysis
 Provide EDF
 Expedited 5-Day TAT

Bill To: _____ Attn: _____
 Co: _____
 Addr: _____ City: _____ State: _____ Zip: _____

City: _____ State: _____ Zip: _____

Signature: _____ Date: _____

Project Mgr./Submitter: Rebecca Silva 3/13/16

I hereby authorize ATL to perform the work indicated below:
 Project Mgr./Submitter: Rebecca Silva 3/13/16

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 /ATL workorder /mo (after 1 year)

LAB USE ONLY:	Sample ID / Location	Sample Description	Date	Time
101051-41	B13-0'	(2916)	3/16	803
-42	-2'		804	
-43	B14-0'		811	
-44	-0.5'		812	
-45	B15-0'		814	
-46	-0.5'		824	
-47	-1'		827	
-48	B16-0'		832	
-49	-0.5'		838	
-50	-1'		840	
-51	B17-0'		844	
-52	-0.5'		852	
-53	B18-0'		856	
-54	-0.5'		902	
-55	-1'		905	
-56	-2'		907	
-57	B19-0'		910	
-58	-0.5'		915	
-59			918	

Soil Ground Water Water Wastewater

Container(s) _____

TAT # _____

Type _____

QA/QC: RTNE CT SWRCB Logcode OTHER _____

REMARKS: _____

Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(Ac)₂ O=NaOH T=Na₂S₂O₃

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY

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

Client: Geocoin
 Attention: Rebecca Silva
 Project Name: Trinity 299 Salyer ADL Survey
 Project #: S9805-01-68

Method of Transport: Client ATL CA OverN FedEx Other: _____

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

Address: 3160 Gold Valley Drive, Suite 800
 City: Rancho Cordova State: CA Zip Code: 95742
 Sampler: Cord Dennig

Relinquished by: Cord Dennig Date: 3/17/16 Time: 1500
 Relinquished by: Rebecca Silva Date: 3/17/16 Time: 1500

Received by: Rebecca Silva Date: 3/17/16 Time: 1500
 Received by: Rebecca Silva Date: 3/18/16 Time: 9:20

Special Instructions/Comments:
 03A2132
 Homogenize Samples for metals analysis
 Provide EDF
 Expedited 5-Day TAT

QA/QC
 RTNE CT
 SWRCB Logcode
 OTHER: _____
 REMARKS: _____

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 /ATL workorder /mo (after 1 year)

LAB USE ONLY:	Sample ID / Location	Sample Description	Date	Time
601051-57	B20-01		3/16	923
-60	-0.5'		3/16	924
-61	-1'		3/16	925
-62	B21-01		3/16	933
-63	-0.5'		3/16	934
-64	B22-01		3/16	936
-65	-0.5'		3/16	940
-66	-1'		3/16	942
-67	B23-01		3/16	944
-68	-0.5'		3/16	949
-69	B24-01		3/16	953
-70	-0.5'		3/16	957
-71	-1'		3/16	958
-72	-2'		3/16	1002

Matrix: _____
 Container(s): _____
 TAT # _____
 5-Day _____
 10-Day _____
 15-Day _____

Water: _____
 Ground Water: _____
 Wastewater: _____
 Soil: _____

QA/QC: _____
 RTNE: _____
 CT: _____
 SWRCB Logcode: _____
 OTHER: _____
 REMARKS: _____

Preservatives:
 H=HCl N=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(Ac)₂ O=NaOH T=Na₂S₂O₃

**EMSL Analytical, Inc**

464 McCormick Street, San Leandro, CA 94577
 Phone/Fax: (510) 895-3675 / (510) 895-3680
<http://www.EMSL.com> sanleandrolab@emsl.com

EMSL Order: 091604884
 CustomerID: GECN80
 CustomerPO: S9805-01-68
 ProjectID: S9805-**-**

Attn: **John Pfeiffer**
Geocon Consultants, Inc.
3160 Gold Valley Drive
Suite 800
Rancho Cordova, CA 95742

Phone: (916) 852-9118
 Fax: (916) 852-9132
 Received: 03/18/16 9:30 AM
 Analysis Date: 3/24/2016
 Collected: 3/15/2016

Project: SALYER 299 / S9805-01-68/ 03A2132

Test Report: 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	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
SS1 091604884-0001		Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
SS2 091604884-0002		Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
SS3 091604884-0003		Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
SS4-2 091604884-0004		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
SS5-1 091604884-0005		Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
SS6-1 091604884-0006		Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
SS7-1 091604884-0007		Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected

Analyst(s)

Cecilia Yu (20)
 Matthew Batongbacal (19)

Chris Dojlidko, Laboratory Manager
 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.

Samples analyzed by EMSL Analytical, Inc San Leandro, CA

Report Amended: 03/25/2016 13:48:55 Replaces the Initial Report 03/24/2016 14:41:03. Reason Code: Data Entry-Change to Sample ID

**EMSL Analytical, Inc**

464 McCormick Street, San Leandro, CA 94577
 Phone/Fax: (510) 895-3675 / (510) 895-3680
<http://www.EMSL.com> sanleandrolab@emsl.com

EMSL Order: 091604884
 CustomerID: GECN80
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 ProjectID: S9805-**-**

Attn: **John Pfeiffer**
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3160 Gold Valley Drive
Suite 800
Rancho Cordova, CA 95742

Phone: (916) 852-9118
 Fax: (916) 852-9132
 Received: 03/18/16 9:30 AM
 Analysis Date: 3/24/2016
 Collected: 3/15/2016

Project: SALYER 299 / S9805-01-68/ 03A2132

Test Report: 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	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
SS8-1 091604884-0008		Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
SS9-2 091604884-0009		Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
SS10-0.5 091604884-0010		Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
SS11-1 091604884-0011		Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
SS12-1 091604884-0012		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
SS13-0.5 091604884-0013		Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
SS14-1 091604884-0014		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected

Analyst(s)
 Cecilia Yu (20)
 Matthew Batongbacal (19)


 Chris Dojlidko, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc San Leandro, CA

Report Amended: 03/25/2016 13:48:55 Replaces the Inital Report 03/24/2016 14:41:03. Reason Code: Data Entry-Change to Sample ID

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EMSL Order: 091604884
 CustomerID: GECN80
 CustomerPO: S9805-01-68
 ProjectID: S9805-**-**

Attn: **John Pfeiffer**
Geocon Consultants, Inc.
3160 Gold Valley Drive
Suite 800
Rancho Cordova, CA 95742

Phone: (916) 852-9118
 Fax: (916) 852-9132
 Received: 03/18/16 9:30 AM
 Analysis Date: 3/24/2016
 Collected: 3/15/2016

Project: SALYER 299 / S9805-01-68/ 03A2132

Test Report: 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	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
SS15-1 091604884-0015		Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
SS16-1 091604884-0016		Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
SS17-1 091604884-0017		Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
SS18-1 091604884-0018		Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
SS19-0 091604884-0019		Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
SS20-1 091604884-0020		Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
SS21-1 091604884-0021		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected

Analyst(s)
 Cecilia Yu (20)
 Matthew Batongbacal (19)


 Chris Dojlidko, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc San Leandro, CA

Report Amended: 03/25/2016 13:48:55 Replaces the Initial Report 03/24/2016 14:41:03. Reason Code: Data Entry-Change to Sample ID

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Rancho Cordova, CA 95742

Phone: (916) 852-9118
 Fax: (916) 852-9132
 Received: 03/18/16 9:30 AM
 Analysis Date: 3/24/2016
 Collected: 3/15/2016

Project: SALYER 299 / S9805-01-68/ 03A2132

Test Report: 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	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
NOA-B1-2 091604884-0022		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA-B2-1 091604884-0023		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA-B3-0.5 091604884-0024		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA-B4-2 091604884-0025		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA-B5-2 - HOLD 091604884-0026					Not Analyzed
NOA-B6-1 091604884-0027		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA-B7-2 091604884-0028		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected

Analyst(s)

Cecilia Yu (20)
 Matthew Batongbacal (19)

Chris Dojlidko, Laboratory Manager
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA

Report Amended: 03/25/2016 13:48:55 Replaces the Initial Report 03/24/2016 14:41:03. Reason Code: Data Entry-Change to Sample ID

**EMSL Analytical, Inc**

464 McCormick Street, San Leandro, CA 94577

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

<http://www.EMSL.com>sanleandrolab@emsl.com

EMSL Order: 091604884

CustomerID: GECN80

CustomerPO: S9805-01-68

ProjectID: S9805-**-**

Attn: **John Pfeiffer**
Geocon Consultants, Inc.
3160 Gold Valley Drive
Suite 800
Rancho Cordova, CA 95742

Phone: (916) 852-9118
 Fax: (916) 852-9132
 Received: 03/18/16 9:30 AM
 Analysis Date: 3/24/2016
 Collected: 3/15/2016

Project: SALYER 299 / S9805-01-68/ 03A2132

**Test Report: 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	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
NOA-B8-2 - HOLD 091604884-0029					Not Analyzed
NOA-B10-2 091604884-0030		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA-B11-0.5 091604884-0031		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA-B12-0.5 091604884-0032		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA-B13-2-HOLD 091604884-0033		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA-B14-0.5 091604884-0034		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA-B15-1 091604884-0035		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected

Analyst(s)

Cecilia Yu (20)

Matthew Batongbacal (19)

Chris Dojlidko, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA

Report Amended: 03/25/2016 13:48:55 Replaces the Initial Report 03/24/2016 14:41:03. Reason Code: Data Entry-Change to Sample ID

Test Report PLMPTC-7.25.0 Printed: 3/25/2016 1:48:55 PM



EMSL Analytical, Inc

464 McCormick Street, San Leandro, CA 94577
Phone/Fax: (510) 895-3675 / (510) 895-3680
<http://www.EMSL.com> sanleandrolab@emsl.com

EMSL Order: 091604884
CustomerID: GECN80
CustomerPO: S9805-01-68
ProjectID: S9805-**-**

Attn: **John Pfeiffer**
Geocon Consultants, Inc.
3160 Gold Valley Drive
Suite 800
Rancho Cordova, CA 95742

Phone: (916) 852-9118
Fax: (916) 852-9132
Received: 03/18/16 9:30 AM
Analysis Date: 3/24/2016
Collected: 3/15/2016

Project: SALYER 299 / S9805-01-68/ 03A2132

Test Report: 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	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
NOA-B16-1 - HOLD 091604884-0036					Not Analyzed
NOA-B17-0.5 091604884-0037		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA-B18-2 - HOLD 091604884-0038					Not Analyzed
NOA-B19-0.5 091604884-0039		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA-B20-1 091604884-0040		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA-B21-0.5 - HOLD 091604884-0041					Not Analyzed
NOA-B22-1 091604884-0042		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected

Analyst(s)
Cecilia Yu (20)
Matthew Batongbacal (19)

Chris Dojlidko, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA

Report Amended: 03/25/2016 13:48:55 Replaces the Inital Report 03/24/2016 14:41:03. Reason Code: Data Entry-Change to Sample ID



EMSL Analytical, Inc

464 McCormick Street, San Leandro, CA 94577
Phone/Fax: (510) 895-3675 / (510) 895-3680
<http://www.EMSL.com> sanleandrolab@emsl.com

EMSL Order: 091604884
CustomerID: GECN80
CustomerPO: S9805-01-68
ProjectID: S9805-**-**

Attn: **John Pfeiffer**
Geocon Consultants, Inc.
3160 Gold Valley Drive
Suite 800
Rancho Cordova, CA 95742

Phone: (916) 852-9118
Fax: (916) 852-9132
Received: 03/18/16 9:30 AM
Analysis Date: 3/24/2016
Collected: 3/15/2016

Project: SALYER 299 / S9805-01-68/ 03A2132

Test Report: 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	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
NOA-B23-0.5 091604884-0043		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA-B24-2 091604884-0044		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected

Analyst(s)

Cecilia Yu (20)
Matthew Batongbacal (19)

Chris Dojlidko, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA

Report Amended: 03/25/2016 13:48:55 Replaces the Inital Report 03/24/2016 14:41:03. Reason Code: Data Entry-Change to Sample ID



Asbestos Lab Services Chain of Custody

EMSL Order Number (Lab Use Only):

#091604884

San Leandro, CA
 Suite 230
 2235 Polvorosa Ave
 San Leandro, CA 94577
 PHONE: (510) 895-3675
 FAX: (510) 895-3680

Company: Gecon Consultants, Inc.		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: 3160 Gold Valley Drive, Suite 800		Third Party Billing requires written authorization from third party	
City/State/Zip: Rancho Cordova, CA 95742			
Report To (Name): John Pfeiffer		Fax:	
Telephone: 916-852-9118		Email Address: pfeiffer@geconinc.com	
Project Name/Number: Valuer 299 / 59805-01-08			
Please Provide Results: Email		Purchase Order:	State Samples Taken: CA

Turnaround Time (TAT) Options* - Please Check

3 Hour
 6 Hour
 24 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

<p>PCM - Air <input type="checkbox"/> Check if samples are from NY</p> <p><input type="checkbox"/> NIOSH 7400</p> <p><input type="checkbox"/> w/ OSHA 8hr. TWA</p> <p>PLM - Bulk (reporting limit)</p> <p><input type="checkbox"/> PLM EPA 600/R-93/116 (<1%)</p> <p><input type="checkbox"/> PLM EPA NOB (<1%)</p> <p>Point Count</p> <p><input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)</p> <p>Point Count w/Gravimetric</p> <p><input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)</p> <p><input type="checkbox"/> NYS 198.1 (friable in NY)</p> <p><input type="checkbox"/> NYS 198.6 NOB (non-friable-NY)</p> <p><input type="checkbox"/> NIOSH 9002 (<1%)</p>	<p>TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only)</p> <p><input type="checkbox"/> AHERA 40 CFR, Part 763</p> <p><input type="checkbox"/> NIOSH 7402</p> <p><input type="checkbox"/> EPA Level II</p> <p><input type="checkbox"/> ISO 10312</p> <p>TEM - Bulk</p> <p><input type="checkbox"/> TEM EPA NOB</p> <p><input type="checkbox"/> NYS NOB 198.4 (non-friable-NY)</p> <p><input type="checkbox"/> Chatfield SOP</p> <p><input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5</p> <p>TEM - Water: EPA 100.2</p> <p>Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking</p> <p>All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking</p>	<p>TEM - Dust</p> <p><input type="checkbox"/> Microvac - ASTM D 5755</p> <p><input type="checkbox"/> Wipe - ASTM D6480</p> <p><input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)</p> <p>Soil/Rock/Vermiculite</p> <p><input checked="" type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity)</p> <p><input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity)</p> <p><input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity)</p> <p><input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity)</p> <p><input type="checkbox"/> EPA Protocol (Semi-Quantitative)</p> <p><input type="checkbox"/> EPA Protocol (Quantitative)</p> <p>Other:</p> <p><input type="checkbox"/></p>
--	--	---

Check For Positive Stop - Clearly Identify Homogenous Group Filter Pore Size (Air Samples): 0.8µm 0.45µm

Samplers Name: **Cord Dennis** Samplers Signature: **John Pfeiffer For CD**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
See following pages			

Client Sample # (s): Total # of Samples: **2544**

Relinquished (Client): **John Pfeiffer** Date: **3/18/16** Time: **16:00**

Received (Lab): Date: Time:

Comments/Special Instructions: **Billing per CalTrans Contract 03A2132**

EFE 75903579178
IA 3/18/16 0930



Chain of Custody
EMSL Order Number (Lab Use Only):

#091604884

PHONE
FAX

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
SS1			3/15/16 1148
SS2			1151
SS3			1154
SS4-2'			1445
SS5-1'			1450
SS6-1'			1455
SS7-1'			1503
SS8-1'			1510
SS9-2'			1518
SS10-0.5'			1529
SS11-1'			1532
SS12-1'			1535
SS13-0.5'			1600
SS14-1'			1604
SS15-1'			1618
SS16-1			1622

*Comments/Special Instructions:
Salzer 299 / Geocoin Project 59805-01-58

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



Chain of Custody
EMSL Order Number (Lab Use Only):

#091604884

PHONE
FAX

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
SS17-1'			3/15/16 1630
SS18-1'			1723
SS19-0'			1727
SS20-1'			1734
SS21-1'			1740
NOA-B1-2			1220
NOA-B2-1			1228
NOA-B3-0.5			1238
NOA-B4-2			1249
NOA-B5-2	HOLD		1302
NOA-B6-1			1315
NOA-B7-2			1326
NOA-B8-2	HOLD		1338
NOA-B9-0.5			1352
NOA-B10-2	NOA-B10-2 Analyze		1411
NOA-B11-0.5			1422
*Comments/Special Instructions: Salyer 299 / Geocon Project S9805-01-68			

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide

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EPE 775903579178

IA 3/18/16 0930



Chain of Custody
EMSL Order Number (Lab Use Only):

#091604884

PHONE
FAX

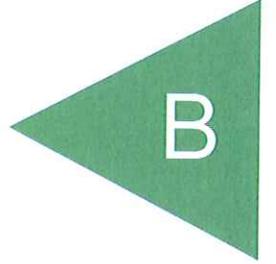
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
NOA-B12-0.5			3/15/16 1429
NOA-B13-2	HOLD		3/16/16 0804
NOA-B14-0.5			0812
NOA-B15-1			0832
NOA-B16-1	HOLD		0844
NOA-B17-0.5			0856
NOA-B18-2	HOLD		0910
NOA-B19-0.5			0915
NOA-B20-1			0925
NOA-B21-0.5	HOLD		0934
NOA-B22-1			0944
NOA-B23-0.5			0953
NOA-B24-2			1002
<p>*Comments/Special Instructions: Salver 299 / Geoson Project 59805-01-68</p>			

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide

Page 4 of 4

EPE
775 903 579178
IA 3/18/16 0950

APPENDIX



B

Project Name: State Route 299 (02-TRI-299) Post Mile 2.3 to 20.5
Geocon Project No.: S9805-01-68
Sample Population: PM 2.38 to 2.45

Lead - 0.0 to 0.5 ft

Total Number of Observations	12	Number of Distinct Observations	12
		Number of Missing Observations	0
Minimum	0.5	Mean	4.0
Maximum	11	Median	3.45
SD	2.53	Std. Error of Mean	0.73
Coefficient of Variation	0.634	Skewness	1.997
Mean of logged data	1.195	SD of logged data	0.715
		90% Standard Bootstrap UCL	4.9
		95% Standard Bootstrap UCL	5.1

Lead - 0.5 to 1 ft

Total Number of Observations	12	Number of Distinct Observations	12
		Number of Missing Observations	0
Minimum	1.7	Mean	11.6
Maximum	52	Median	7.7
SD	13.35	Std. Error of Mean	3.853
Coefficient of Variation	1.149	Skewness	2.954
Mean of logged data	2.107	SD of logged data	0.803
		90% Standard Bootstrap UCL	16.4
		95% Standard Bootstrap UCL	17.7

Lead - 1 to 2 ft

Total Number of Observations	8	Number of Distinct Observations	8
		Number of Missing Observations	0
Minimum	4.4	Mean	18.6
Maximum	65	Median	8.7
SD	21.8	Std. Error of Mean	7.707
Coefficient of Variation	1.17	Skewness	1.823
Mean of logged data	2.467	SD of logged data	0.94
		90% Standard Bootstrap UCL	27.7
		95% Standard Bootstrap UCL	30.2

Lead - 2 to 3 ft

Total Number of Observations	6	Number of Distinct Observations	5
		Number of Missing Observations	0
Minimum	5	Mean	12.2
Maximum	32	Median	9.45
SD	10	Std. Error of Mean	4.083
Coefficient of Variation	0.82	Skewness	2.13
Mean of logged data	2.296	SD of logged data	0.651

Project Name: State Route 299 (02-TRI-299) Post Mile 2.3 to 20.5
Geocon Project No.: S9805-01-68

90% Standard Bootstrap UCL	16.8
95% Standard Bootstrap UCL	18.2

MATERIALS INFORMATION

Water Source Information

Nonpotable Water Source

Mercer Reaser Co.
351 Highway 96
Willow Creek, CA 95573
Office (530)629-2140

Mercer Fraser Co. Area Manager - Mark Benzinger
Office (707)443-6371
Cell (707)599-6371