

FOR CONTRACT NO.: 03-2F0204

INFORMATION HANDOUT

MATERIALS INFORMATION

**AERIALY DEPOSITED LEAD SITE INVESTIGATION REPORT -
WESTERN PLACERVILLE INTERCHANGE PROJECT**

**AERIALY DEPOSITED LEAD, NATURALLY OCCURRING
ASBESTOS AND LEAD CONTAINING PAINT
SITE INVESTIGATION AND BRIDGE SURVEY REPORT**

ROUTE: 03-ED-50-R4.1/R14.2

AERIALLY DEPOSITED LEAD SITE INVESTIGATION REPORT



Western Placerville Interchange Project Placerville, California

PREPARED FOR:

**DOKKEN ENGINEERING
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PREPARED BY:

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GEOCON PROJECT NO. S9420-06-01

OCTOBER 2009



Project No. S9420-06-01
October 22, 2009

Mr. Michael Wilson
Dokken Engineering
2365 Iron Point Road, Suite 200
Folsom, California 95630

Subject: WESTERN PLACERVILLE INTERCHANGE PROJECT
PLACERVILLE, CALIFORNIA
AERIALLY DEPOSITED LEAD SITE INVESTIGATION REPORT

Dear Mr. Wilson:

In accordance with our agreement, Geocon Consultants, Inc. has performed environmental engineering services for the subject project. The Site consists of Caltrans right-of-way along State Route 50 in Placerville, El Dorado County, California. The accompanying report summarizes the services performed, including the advancement of 23 direct-push and 2 hand-auger borings for shallow soil sampling and laboratory testing.

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 there are 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 E. Juhrend, PE, CEG
Project Manager



GGR:JEJ:jaj

(4 + 2 CDs) Addressee

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AERIALLY DEPOSITED LEAD SITE INVESTIGATION REPORT

1.0 INTRODUCTION

This Aerially Deposited Lead (ADL) Site Investigation Report for the State Route 50 (SR-50) Western Placerville Interchange project was prepared by Geocon Consultants, Inc.

1.1 Project Description and Proposed Improvements

The project area consists of California Department of Transportation (Caltrans) right-of-way along SR-50 between Placerville Drive and just east of Ray Lawyer Drive (the Site), in Placerville, El Dorado County, California. Planned improvements include widening of existing ramps at Placerville Drive, construction of a roundabout at the Placerville Drive and Fair Lane intersection, new ramps at the Ray Lawyer Drive Interchange, and improvements to Forni Road and intersection signalization. The approximate project location is depicted on the Vicinity Map, Figure 1. Existing and proposed roadway improvements are depicted on the Site Plan, Figure 2.

1.2 General Objectives

The purpose of the scope of services outlined herein is to evaluate whether ADL in soil is present at the Site at regulated levels. ADL may be present on the Site, primarily due to historic leaded fuel emissions from automobile exhausts. Lead poses risks related to inhalation, ingestion, and dermal contact with the material. The investigative results will be used to inform construction contractors if ADL in soil is present at levels of concern within the project boundaries for health, safety and disposal purposes. Accordingly, Dokken Engineering, on behalf of the City of Placerville, requested the ADL site investigation services to provide data regarding the potential presence of ADL within the project limits.

2.0 BACKGROUND

2.1 Potential Lead Soil Impacts

Ongoing testing by Caltrans throughout California has indicated that ADL exists along major freeway routes due to historic emissions from vehicles formerly powered by leaded gasoline.

2.2 Hazardous Waste Determination Criteria

Regulatory criteria to classify a waste as "California hazardous" for handling and disposal purposes are contained in the *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), Section 261.

For waste containing metals, the waste is classified as California hazardous 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 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 soluble metal content exceeds the Federal regulatory level based on the Toxicity Characteristic Leaching Procedure (TCLP). The TTLC value for lead is 1,000 milligrams per kilogram (mg/kg). The STLC and TCLP values for lead are both 5.0 milligrams per liter (mg/l).

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 corrosivity. Waste that is classified as either California-hazardous or RCRA-hazardous requires management as a hazardous waste.

The Department of Toxic Substances Control (DTSC) regulates and interprets hazardous waste laws in California. DTSC generally considers excavated or transported materials that exhibit "hazardous waste" characteristics to be a "waste" requiring proper management, treatment and disposal. Soil that contains lead above hazardous waste thresholds and is left in-place would not be necessarily classified by DTSC as a "waste." The DTSC has provided site-specific determinations that "movement of wastes within an area of contamination does not constitute "land disposal" and, thus, does not trigger hazardous waste disposal requirements." Therefore, lead-impacted soil that is scarified in-place, moisture-conditioned, and recompacted during roadway improvement activities might not be considered a "waste." DTSC should be consulted to confirm waste classification. It is noted that in addition to DTSC regulations, health and safety requirements and other local agency requirements may also apply to the handling and disposal of lead-impacted soil.

2.3 DTSC Variance

The DTSC issued a statewide Variance effective July 1, 2009, regarding the reuse of ADL-impacted soils within Caltrans right-of-way. Under the Variance, soil that is classified as a non-RCRA hazardous waste, based primarily on ADL content, may be suitable for reuse within Caltrans right-of-way. ADL soil that is classified as a RCRA hazardous waste is not eligible for reuse under the Variance and must be disposed of as a RCRA hazardous waste (Caltrans Type Z3).

ADL soil reused under the Variance must always be at least 5 feet above the highest groundwater elevation and, depending on lead concentrations, must be covered with at least one foot of non-hazardous soil or a pavement structure. The ADL soil may not be placed in areas where it might

contact groundwater or surface water (such as streams and rivers), and must be buried in locations that are protected from erosion that may result from storm water run-on and run-off.

Review of the statewide Variance indicates the following conditions regarding the reuse and management of ADL-impacted soil as fill material for construction and maintenance operations. If ADL soil meets the Variance criteria but is not intended to be reused within Caltrans right-of-way, then the excavated soil must be disposed of as a California hazardous waste (Caltrans Type Z2). A copy of the DTSC Variance is presented in Appendix A.

Caltrans Type Y1

ADL soil exhibiting a total lead concentration less than or equal to 1,411 mg/kg, a soluble lead concentration (based on a modified WET using deionized water as the extractant [DI-WET]) less than or equal to 1.5 mg/l, and a pH value greater than or equal to 5.5 may be reused within the same Caltrans corridor and must be covered with at least one foot of non-hazardous soil.

Caltrans Type Y2

ADL soil exhibiting a total lead concentration less than or equal to 1,411 mg/kg, a DI-WET soluble lead concentration less than or equal to 1.5 mg/l, and a pH value greater than 5 and less than 5.5 may be reused within the same Caltrans corridor and must be covered and protected from infiltration by a pavement structure.

ADL soil exhibiting a total lead concentration less than or equal to 1,411 mg/kg, a DI-WET soluble lead concentration greater than 1.5 mg/l and less than or equal to 150 mg/l, and a pH value greater than 5 may be reused within the same Caltrans corridor and must be covered and protected from infiltration by a pavement structure.

ADL soil exhibiting a total lead concentration greater than 1,411 mg/kg and less than or equal to 3,397 mg/kg, a DI-WET soluble lead concentration less than or equal to 150 mg/l, and a pH value greater than 5 may be reused within the same Caltrans corridor and must be covered and protected from infiltration by a pavement structure.

Caltrans Type Z2

ADL soil exhibiting a total lead concentration greater than 3,397 mg/kg, a DI-WET soluble lead concentration greater than 150 mg/l, or a pH value less than or equal to 5 is not eligible for reuse under the Variance and must be disposed of as a California hazardous waste.

Caltrans Type Z3

ADL soil exhibiting a TCLP soluble lead concentration greater than or equal to 5 mg/l is not eligible for reuse under the Variance and must be disposed of as a RCRA hazardous waste.

3.0 SCOPE OF SERVICES

We performed the following scope of services as requested by Dokken Engineering:

3.1 Pre-field Activities

- Geocon representative Gemma Reblando conducted a pre-work site visit on August 28, 2009, to identify and observe the project boundaries and conditions. The proposed boring locations were further marked out in white paint for subsequent utility clearance.
- Provided at least 48-hour notification to Underground Service Alert (Ticket No. 266847) prior to job site mobilization.
- Retained the services of Advanced Technology Laboratories (ATL) to perform the chemical analysis of soil samples.

3.2 Field Activities

The field activities consisted of collecting soil samples along the eastbound (EB) and westbound (WB) shoulder areas of SR-50 and along the WB SR-50 onramp and EB SR-50 on- and offramp at Placerville Drive. On September 9, 2009, 62 soil samples were collected from 25 borings. Soil samples were collected at general depths of 0 to 0.5 foot, 1.0 to 1.5 feet and 2.0 to 2.5 feet.

4.0 INVESTIGATIVE METHODS

4.1 Boring Location Rationale

The soil boring locations were designated by Geocon and Dokken in the vicinity of proposed improvements. Borings B1 through B12 were advanced along the shoulder of EB SR-50 and along the EB SR-50 on- and offramp at Placerville Drive. Borings B13 through B25 were advanced along the shoulder of WB SR-50 and along the onramp of WB SR-50 at Placerville Drive. Refusal was encountered in several borings at depths between 1.0 and 2.0 feet. The approximate soil boring locations are depicted on Figure 2.

The coordinates of each boring location were determined using a differential global positioning system (GPS). The GPS was utilized during the field activities to locate the horizontal position of each location with an error of no more than 3.3 feet. The latitude and longitude of the boring locations are summarized in Table 1.

4.2 Soil Sampling Procedures

A total of 62 soil samples were collected from 23 direct-push and two hand-auger borings excavated at the Site. Soil samples obtained from the direct-push borings were collected in cellulose thermoplastic (acetate) liners driven by the direct-push rig. The acetate liners were cut to separate the sample by depth, then the sample from a particular interval was opened and the soil sample was transferred to a Ziploc® re-sealable plastic bag. Soil samples collected using a hand-auger were transferred directly into re-sealable plastic bags. The soil samples were field homogenized within the sample bags and subsequently labeled, placed in an ice chest, and delivered to ATL for analytical testing under chain-of-custody (COC) documentation.

Quality assurance/quality control (QA/QC) procedures were performed during the field exploration activities. These procedures included decontamination of sampling equipment before each boring was advanced and providing COC documentation for each sample submitted to the laboratory. The soil sampling equipment was cleansed between each boring by washing the equipment with an Alconox™ solution followed by a double rinse with deionized water. The field sampling activities were performed under the supervision of Geocon's field manager.

The borings were backfilled with the excess soil cuttings generated at each boring. The decontamination water was discharged to the ground surface away from surface water bodies or storm drain inlets.

4.3 Traffic Control

We provided traffic control, including the use of a “SHOULDER WORK AHEAD” advanced warning signs and orange traffic cones, during the field sampling activities.

4.4 Laboratory Analyses

The soil samples collected within the project boundaries were submitted to ATL for the following analyses under seven-working-day turn-around-time (TAT). The laboratory was instructed to homogenize the ADL soil samples prior to analysis.

- Sixty-two soil samples were analyzed for total lead following United States Environmental Protection Agency (EPA) Test Method 6010B.
- Twenty-one soil samples with total lead concentrations greater than or equal to 50 mg/kg (ten times the STLC value for lead of 5.0 mg/l) and less than 1,000 mg/kg (lead TTLC) were further analyzed for WET soluble lead by EPA Test Method 7420.
- Two soil samples with the highest total lead concentrations were further analyzed for TCLP soluble lead by EPA Test Methods 1311 and 7420.
- Thirteen soil samples with WET soluble lead concentrations greater than 5.0 mg/l (lead STLC) were further analyzed for DI-WET soluble lead by EPA Test Method 7420.

- Eight randomly selected soil samples were analyzed for soil pH following EPA Test Method 9045.

4.5 Quality Assurance/Quality Control

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 the spike made at ten times the reporting limit or at the analyte level.

Prior to submitting the soil samples to the laboratory, the COC documentation was reviewed for accuracy and completeness. Reproductions of the laboratory reports and COC documentation are presented in Appendix B.

5.0 FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS

5.1 Site Conditions

Soil encountered during the excavation of borings was generally comprised of sandy silt with gravel to the maximum sampling depth of approximately 2.5 feet. Groundwater was not encountered in the soil borings.

5.2 Soil Analytical Results

Total lead was detected in forty-three of the sixty-two soil samples at concentrations ranging from 5.2 to 2,400 mg/kg. Twenty-one of the sixty-two soil samples had reported total lead concentrations greater than 50 mg/kg (ten times the STLC value for lead of 5.0 mg/l) and less than 1,000 mg/kg (lead TTLC).

WET soluble lead was detected in each of the twenty-one soil samples analyzed at concentrations ranging from 0.40 to 48 mg/l. Thirteen of the twenty-one soil samples had a WET soluble lead concentration greater than the STLC value for lead of 5.0 mg/l and were further analyzed for DI-WET soluble lead.

DI-WET soluble lead was detected in eight of the thirteen soil samples analyzed at concentrations ranging from 0.53 to 9.5 mg/l. Four of the thirteen soil samples (B7-0, B9-0, B12-0 and B13-1) had DI-WET soluble lead concentrations greater than 1.5 mg/l.

TCLP soluble lead was detected in soil samples B13-0 and B14-0 at concentrations of 1.7 and 4.0 mg/l, respectively, less than the federal RCRA hazardous waste threshold of 5.0 mg/l.

Soil pH values for the eight soil samples analyzed ranged from 7.1 to 8.1.

A summary of the soil analytical results are presented in Table 1. The laboratory reports and COC documentation are presented in Appendix B.

5.3 Laboratory QA/QC

We reviewed the laboratory QA/QC provided with the laboratory reports. Duplicates, matrix spikes, and matrix spike duplicates were outside criteria for several samples, but the analytical batch was validated by the laboratory control sample. Based on this limited data review, no additional qualifications of the soil data are necessary, and the data are of sufficient quality for the purposes of this report.

5.4 Statistical Evaluation for Lead Detected in Soil Samples

The total lead data for the samples collected from the Site were separated into two sample populations for statistical evaluation as described below:

- EB SR-50 consists of soil samples collected from borings B1 through B12 located within the highway shoulder of eastbound SR-50 and associated ramps.
- WB SR-50 consists of soil samples collected from borings B13 through B25 located within the highway shoulder of westbound SR-50 and associated ramps.

Statistical methods were applied to the total lead data to evaluate: 1) the upper confidence limits (UCLs) of the arithmetic means of the total lead concentrations for each sampling depth; and 2) if an acceptable correlation between total and soluble lead concentrations exists that would allow the prediction of soluble lead concentrations based on calculated UCLs. The statistical methods used are discussed in a book entitled *Statistical Methods for Environmental Pollution Monitoring*, by Richard Gilbert; in an EPA *Technology Support Center Issue* document entitled, *The Lognormal Distribution in Environmental Applications*, by Ashok Singh et. al., dated December 1997; and in a book entitled *An Introduction to the Bootstrap*, by Bradley Efron and Robert J. Tibshirani.

5.4.1 Calculating the UCLs for the Arithmetic Mean

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 the 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.

Non-parametric bootstrap techniques used to calculate the UCLs are discussed in the previously referenced EPA document and in *An Introduction to the Bootstrap*. For those samples in which total lead was not detected at concentrations exceeding the laboratory reporting limit, a value equal to one-half of the reporting limit was used in the UCL calculation. The bootstrap results are included in Appendix C. The calculated UCLs and statistical results are summarized in the tables below:

EB SR-50 (Borings B1 through B12)

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	190.4	202.6	145.8	2.5	360
1.0 to 1.5	9.4	10.3	6.8	2.5	25
2.0 to 2.5	5.4	5.6	4.3	2.5	9.1

WB SR-50 (Borings B13 through B25)

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	583.5	640.7	359.2	27	2,400
1.0 to 1.5	91.9	103.8	46.9	2.5	440
2.0 to 2.5	5.1	5.5	4.0	2.5	8.2

5.4.2 Correlation of Total and Soluble Lead

Total and corresponding WET soluble lead concentrations are bivariate data with a linear structure. This linear structure should allow for the prediction of WET soluble lead concentrations based on the UCLs calculated above in Section 5.4.1.

To estimate the degree of interrelation between total and corresponding WET soluble lead values (x and y , respectively), the *correlation coefficient* [r] is used. The correlation coefficient is a ratio that ranges from +1 to -1. A *correlation coefficient* of +1 indicates a perfect direct relationship between two variables; a *correlation coefficient* of -1 indicates that one variable changes inversely with relation to the other. Between the two extremes is a spectrum of less-than-perfect relationships, including zero, which indicates the lack of any sort of linear relationship at all. The *correlation coefficient* was calculated for the 21 (x , y) data points (i.e., soil samples analyzed for both total lead [x] and WET soluble lead [y]) and the *correlation coefficient* equaled 0.933. A *correlation coefficient* greater than or equal to 0.8 is an acceptable indicator that a correlation exists.

For the *correlation coefficient* that indicates a linear relationship between total and WET soluble lead concentrations, it is possible to compute the line of dependence or a best-fit line between the two variables. A least squares method was used to find the equation of a best-fit line (regression line) by forcing the y-intercept equal to zero since that is a known point. The equation of the regression line was determined to be $y = 0.0598(x)$, where x represents total lead concentrations and y represents predicted WET soluble lead concentrations.

This equation was used to estimate the expected WET soluble lead concentrations for the UCLs calculated in Section 5.4.1. Regression analysis results and a scatter plot depicting the (x, y) data points along with the regression line are included in Appendix C. The 90% and 95% UCL-predicted WET soluble lead concentrations are summarized in Section 6.1.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 ADL Soil Waste Classifications

Hazardous waste classification based on the 90% UCL is considered sufficient to satisfy a good faith effort as discussed in SW-846. Risk assessment characterization is typically based on the 95% UCL in accordance with the Risk Assessment Guidance for Superfund (RAGS) Volume 1 Documentation for Exposure Assessment. Per Caltrans, 90% UCLs are to be used to evaluate onsite reuse and 95% UCLs are to be used to evaluate offsite reuse or disposal.

Based on the TCLP soluble lead result of less than 5.0 mg/l, soil generated at the Site will not require disposal as a RCRA hazardous waste. If soil within the project limits is scarified in-place, moisture-conditioned, and recompacted during roadway improvement activities, it may not be considered a “waste.”

6.1.1 Eastbound SR-50 – Borings B1 through B12

The table below summarizes the excavation scenarios, UCL-predicted WET soluble lead calculations and the waste classification for excavated soil within the shoulder area of EB SR-50 and on- and offramp at Placerville Drive based on the calculated total lead UCLs and the relationship between total and WET soluble lead.

Excavation Depth	90% UCL Total Lead (mg/kg)	90% UCL Predicted WET Lead (mg/l)	95% UCL Total Lead (mg/kg)	95% UCL Predicted WET Lead (mg/l)	Waste Classification
0 to 0.5 foot	190.4	11.4	202.6	12.1	Hazardous
<i>Underlying soil (0.5 to 2.5 feet)</i>	<i>53.7</i>	<i>3.2</i>	<i>57.2</i>	<i>3.4</i>	<i>Non-hazardous</i>
0 to 1.0 foot	190.4	11.4	202.6	12.1	Hazardous
<i>Underlying soil (1.0 to 2.5 feet)</i>	<i>8.1</i>	<i>0.5</i>	<i>8.7</i>	<i>0.5</i>	<i>Non-hazardous</i>
0 to 1.5 feet	130.1	7.8	138.5	8.3	Hazardous
<i>Underlying soil (1.5 to 2.5 feet)</i>	<i>7.4</i>	<i>0.4</i>	<i>8.0</i>	<i>0.5</i>	<i>Non-hazardous</i>
0 to 2.0 feet	99.9	6.0	106.5	6.4	Hazardous
<i>Underlying soil (2.0 to 2.5 feet)</i>	<i>5.4</i>	<i>0.3</i>	<i>5.6</i>	<i>0.3</i>	<i>Non-hazardous</i>
0 to 2.5 feet	81.0	4.8	86.3	5.2	Hazardous

90% UCL applicable for waste classification; 95% UCL applicable for risk assessment

Predicted WET soluble lead concentrations were calculated using the equation of the regression line: $y = 0.0598x$

Based on the data presented in the above table, soil excavated from the surface to 0.5 foot and generated for offsite disposal would be classified as a California hazardous waste since the 95% UCL-predicted WET soluble lead concentration is greater than the STLC value for lead of 5.0 mg/l. Soil excavated from the surface to 0.5 foot may be reused onsite in accordance with the DTSC Variance (as Caltrans Type Y2 material) and must be covered and protected from infiltration by a pavement structure since the DI-WET soluble lead levels for the soil samples collected from 0 to 1.0 foot are greater than 1.5 mg/l and less than 150 mg/l, and the pH values are greater than 5.0. If the top 0.5 foot of excavated soil will not be reused onsite, then the excavated soil should be either (1) managed and disposed of as a California hazardous waste or (2) stockpiled and resampled to confirm waste classification in accordance with specific disposal facility acceptance criteria, if applicable.

Underlying soil (i.e., deeper than 0.5 foot) where excavated and managed separately would not be classified as a California hazardous waste.

If excavations are 2.5 feet or greater in depth and soil is managed as a whole, excavated soil may be reused onsite as a non-hazardous waste since the 90% UCL-predicted WET soluble lead concentration is less than 5 mg/l.

6.1.2 Westbound SR-50 – Borings B13 through B25

The table below summarizes the excavation scenarios, UCL-predicted WET soluble lead calculations and the waste classification for excavated soil within the shoulder area of WB SR-50 and associated ramps at Placerville Drive based on the calculated total lead UCLs and the relationship between total and WET soluble lead.

Excavation Depth	90% UCL Total Lead (mg/kg)	90% UCL Predicted WET Lead (mg/l)	95% UCL Total Lead (mg/kg)	95% UCL Predicted WET Lead (mg/l)	Waste Classification
0 to 0.5 foot	583.5	34.9	640.7	38.3	Hazardous
<i>Underlying soil (0.5 to 2.5 feet)</i>	<i>193.1</i>	<i>11.5</i>	<i>213.5</i>	<i>12.8</i>	<i>Hazardous</i>
0 to 1.0 foot	583.5	34.9	640.7	38.3	Hazardous
<i>Underlying soil (1.0 to 2.5 feet)</i>	<i>63.0</i>	<i>3.8</i>	<i>71.0</i>	<i>4.2</i>	<i>Non-hazardous</i>
0 to 1.5 feet	419.6	25.1	461.7	27.6	Hazardous
<i>Underlying soil (1.5 to 2.5 feet)</i>	<i>48.5</i>	<i>2.9</i>	<i>54.7</i>	<i>3.3</i>	<i>Non-hazardous</i>
0 to 2.0 feet	337.7	20.2	372.3	22.3	Hazardous
<i>Underlying soil (2.0 to 2.5 feet)</i>	<i>5.1</i>	<i>0.3</i>	<i>5.5</i>	<i>0.3</i>	<i>Non-hazardous</i>
0 to 2.5 feet	271.2	16.2	298.9	17.9	Hazardous

90% UCL applicable for waste classification; 95% UCL applicable for risk assessment
 Predicted WET soluble lead concentrations were calculated using the equation of the regression line: $y = 0.0598x$

Based on the data presented in the above table, soil excavated from the surface to 1.0 foot and generated for offsite disposal would be classified as a California hazardous waste since the 95% UCL-predicted WET soluble lead concentration is greater than the STLC value for lead of 5.0 mg/l. Soil excavated from the surface to 1.0 foot may be reused onsite in accordance with the DTSC Variance (as Caltrans Type Y1 material) and must be covered with at least one foot of non-hazardous soil since the DI-WET soluble lead levels for the soil samples collected from 0 to 1.0 foot are less than 1.5 mg/l and the pH values are greater than 5.5. If the top 1.0 foot of excavated soil will not be reused onsite, then the excavated soil should be either (1) managed and disposed of as a California hazardous waste or (2) stockpiled and resampled to confirm waste classification in accordance with specific disposal facility acceptance criteria, if applicable.

Underlying soil (i.e., deeper than 1.0 foot) where excavated and managed separately would not be classified as a California hazardous waste.

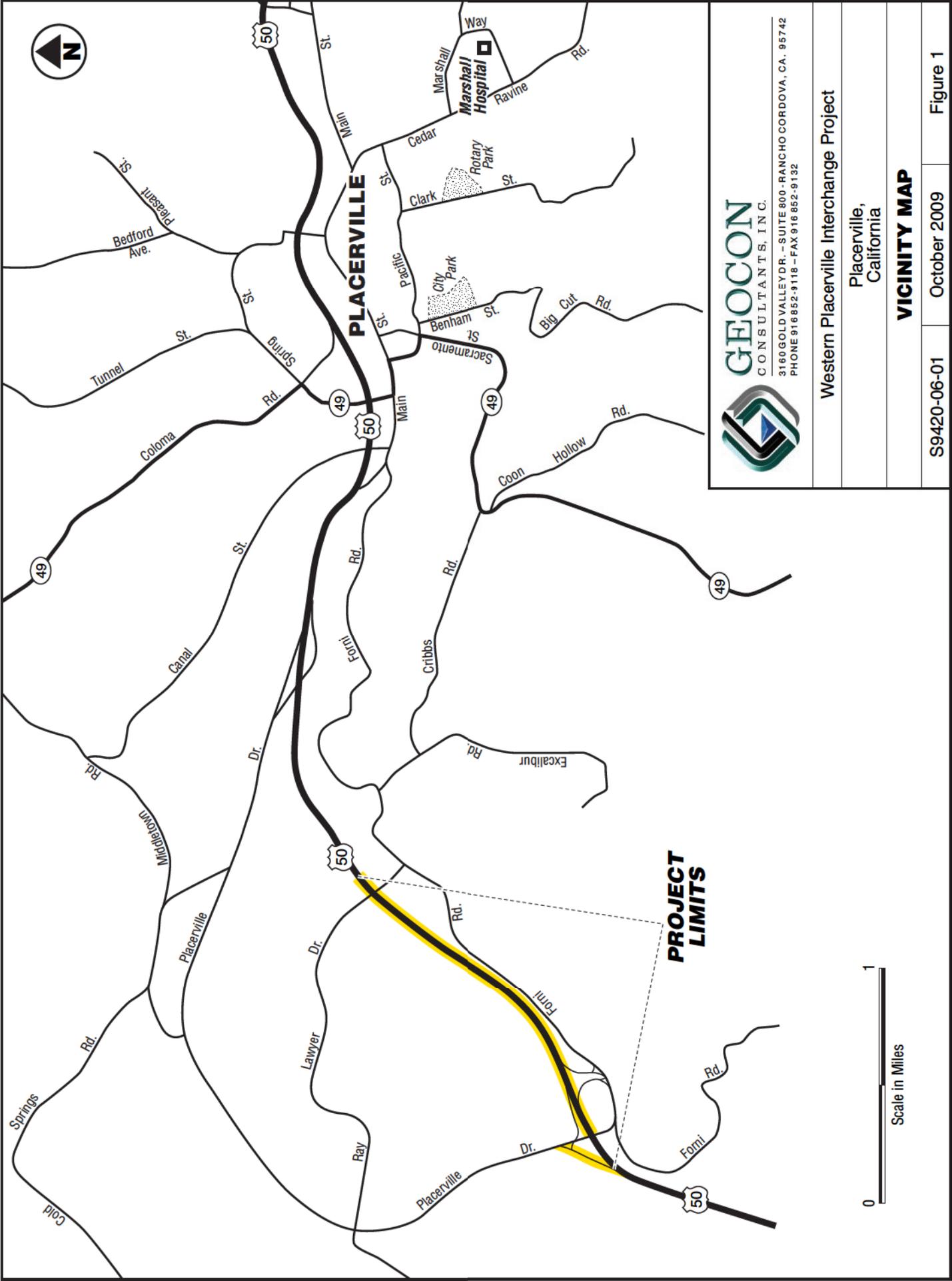
6.2 Worker Protection

Per Caltrans' requirements, the contractor(s) should prepare a project-specific Lead Compliance Plan (CCR Title 8, Section 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

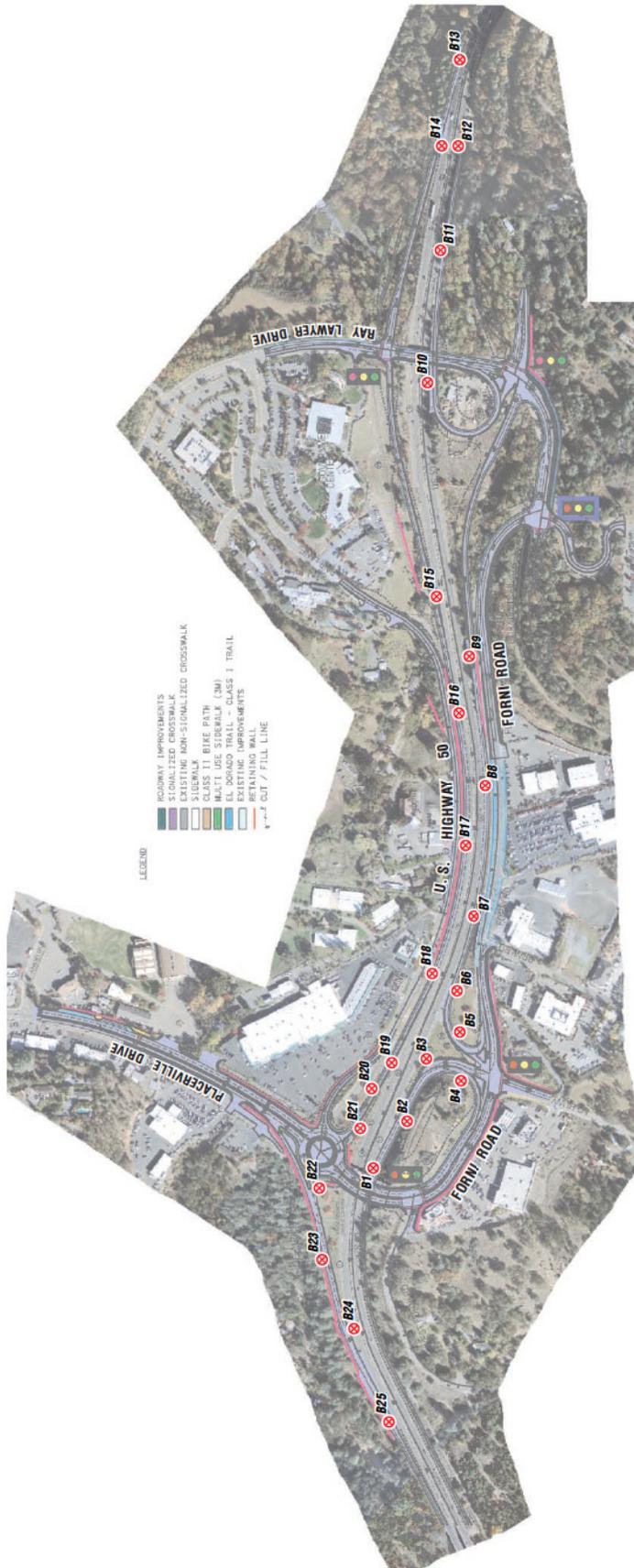
This report has been prepared exclusively for Dokken Engineering. The information contained herein is only valid as of the date of the report and will require an update to reflect additional information obtained.

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.




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

Western Placerville Interchange Project		
Placerville, California		
VICINITY MAP		
S9420-06-01	October 2009	Figure 1



GEOCON
 CONSULTANTS, INC.
 3160 GOLD VALLEY DR., SUITE 600-RANCHO CORDOVA, CA. 95742
 PHONE 916.852.9118 - FAX 916.852.9132

Western Placerville Interchange Project	
Placerville, California	
SITE PLAN	
S0420-06-01	October 2009
	Figure 2

LEGEND:
B1 ⊗ Approximate ADL Boring Location

Ref: Dokken Engineering, Western Placerville Interchange Study, Alternative D

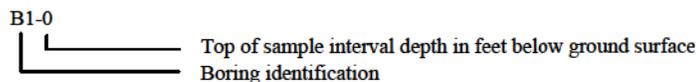
TABLE 1
 SUMMARY OF SOIL BORING COORDINATES, LEAD AND SOIL pH ANALYTICAL RESULTS
 WESTERN PLACERVILLE INTERCHANGE POST MILE R28.9 TO R29.3
 EL DORADO COUNTY, CALIFORNIA

BORING ID	SAMPLE DATE	LATITUDE	LONGITUDE	TOTAL LEAD (mg/kg)	WET LEAD (mg/l)	DI-WET LEAD (mg/l)	SOIL pH
EASTBOUND STATE ROUTE 50							
B1-0	9/9/2009	38.7212148	-120.8333813	84	2.3	---	7.8
B1-1	9/9/2009			<5.0	---	---	---
B1-2	9/9/2009			<5.0	---	---	---
B2-0	9/9/2009	38.7214014	-120.8327251	160	9.9	0.57	7.8
B2-1	9/9/2009			<5.0	---	---	---
B3-0	9/9/2009	38.7218457	-120.8316034	71	3.5	---	---
B3-1	9/9/2009			<5.0	---	---	8.1
B3-2	9/9/2009			<5.0	---	---	---
B4-0	9/9/2009	38.7214411	-120.8314656	49	---	---	---
B4-1	9/9/2009			<5.0	---	---	---
B5-0	9/9/2009	38.7216957	-120.8310580	51	0.40	---	---
B5-1	9/9/2009			<5.0	---	---	---
B5-2	9/9/2009			<5.0	---	---	---
B6-0	9/9/2009	38.7222877	-120.8302047	<5.0	---	---	---
B6-1	9/9/2009			25	---	---	---
B7-0	9/9/2009	38.7227493	-120.8292982	360	17	4.6	---
B7-1	9/9/2009			15	---	---	---
B7-2	9/9/2009			<5.0	---	---	---
B8-0	9/9/2009	38.7237973	-120.8278774	120	8.5	0.71	---
B8-1	9/9/2009			6.1	---	---	---
B8-2	9/9/2009			5.5	---	---	---
B9-0	9/9/2009	38.7253514	-120.8265308	340	17	9.5	---
B9-1	9/9/2009			5.2	---	---	---
B9-2	9/9/2009			<5.0	---	---	---
B10-0	9/9/2009	38.7276250	-120.8243644	300	16	<0.25	---
B11-0	9/9/2009	38.7285806	-120.8229702	22	---	---	---
B11-1	9/9/2009			<5.0	---	---	---
B11-2	9/9/2009			9.1	---	---	7.7
B12-0	9/9/2009	38.7293332	-120.8216771	190	14	1.8	7.4
B12-1	9/9/2009			8.0	---	---	---
B12-2	9/9/2009			6.9	---	---	---

TABLE 1
 SUMMARY OF SOIL BORING COORDINATES, LEAD AND SOIL pH ANALYTICAL RESULTS
 WESTERN PLACERVILLE INTERCHANGE POST MILE R28.9 TO R29.3
 EL DORADO COUNTY, CALIFORNIA

BORING ID	SAMPLE DATE	LATITUDE	LONGITUDE	TOTAL LEAD (mg/kg)	WET LEAD (mg/l)	DI-WET LEAD (mg/l)	SOIL pH
WESTBOUND STATE ROUTE 50							
B13-0	9/9/2009	38.7300377	-120.8209725	670	48 / (1.7)	<0.25	---
B13-1	9/9/2009			440	32	5.1	---
B14-0	9/9/2009	38.7294641	-120.8219993	2,400	--- / (4.0)	---	7.3
B15-0	9/9/2009	38.7257309	-120.8266120	43	---	---	7.4
B15-1	9/9/2009			8.9	---	---	---
B15-2	9/9/2009			5.8	---	---	---
B16-0	9/9/2009	38.7245834	-120.8275923	96	4.5	---	---
B16-1	9/9/2009			6.3	---	---	---
B16-2	9/9/2009			<5.0	---	---	---
B17-0	9/9/2009	38.7235273	-120.8286601	27	---	---	---
B17-1	9/9/2009			6.1	---	---	---
B17-2	9/9/2009			<5.0	---	---	---
B18-0	9/9/2009	38.7224881	-120.8306502	55	0.93	---	---
B18-1	9/9/2009			<5.0	---	---	---
B18-2	9/9/2009			<5.0	---	---	---
B19-0	9/9/2009	38.7219792	-120.8320601	170	12	<0.25	---
B19-1	9/9/2009			62	1.1	---	---
B20-0	9/9/2009	38.7219813	-120.8325792	180	5.8	0.89	---
B20-1	9/9/2009			8.3	---	---	---
B21-0	9/9/2009	38.7215712	-120.8332652	220	18	0.53	---
B21-1	9/9/2009			<5.0	---	---	---
B22-0	9/9/2009	38.7215713	-120.8342296	63	0.47	---	---
B22-1	9/9/2009			6.2	---	---	---
B22-2	9/9/2009			8.2	---	---	---
B23-0	9/9/2009	38.7209765	-120.8347980	460	17	<0.25	7.1
B23-1	9/9/2009			7.5	---	---	---
B24-0	9/9/2009	38.7202605	-120.8352199	86	3.4	---	---
B24-1	9/9/2009			<5.0	---	---	---
B24-2	9/9/2009			<5.0	---	---	---
B25-0	9/9/2009	38.7192683	-120.8357688	200	14	<0.25	---
B25-1	9/9/2009			9.4	---	---	---

Notes:



mg/kg = Milligrams per kilogram

mg/l = Milligrams per liter

< = Less than the laboratory reporting limits

--- = Not analyzed

(1.7) = Concentrations in parentheses are Toxicity Characteristic Leaching Procedure soluble lead concentrations

Concentrations in bold type are greater than the Soluble Threshold Limit Concentration for lead of 5.0 mg/l

APPENDIX

A



*California Environmental Protection Agency
Department of Toxic Substances Control*

VARIANCE

Applicant Names:

Variance No. V09HQSCD006

State of California
Department of Transportation
(Caltrans)
1120 N Street
Sacramento, California 95814

Effective Date: July 1, 2009

Expiration Date: July 1, 2014

Modification History:

Pursuant to California Health and Safety Code, Section 25143, the Department of Toxic Substances Control hereby issues the attached Variance consisting of 9 pages to the Department of Transportation.

A handwritten signature in cursive script, appearing to read "Beverly Rikala".

Beverly Rikala
Team Leader, Operating Facilities Team
Department of Toxic Substances Control

Date: 6/30/09

VARIANCE

1. INTRODUCTION.

a) Pursuant to Health and Safety Code, section 25143, the California Department of Toxic Substances Control (DTSC) grants this variance to the applicant below for waste considered to be hazardous solely because of its lead concentrations and as further specified herein.

b) DTSC hereby grants this variance only from the requirements specified herein and only in accordance with all terms and conditions specified herein.

2. IDENTIFYING INFORMATION.

APPLICANT/OWNER/OPERATOR

State of California
Department of Transportation, (Caltrans)
All Districts

3. TYPE OF VARIANCE.

Generation, Manifest, Transportation, Storage and Disposal.

4. ISSUANCE AND EXPIRATION DATES.

DATE ISSUED: July 1, 2009 EXPIRATION DATE: July 1, 2014

5. APPLICABLE STATUTES AND REGULATIONS. The hazardous waste that is the subject of this variance is fully regulated under Health and Safety Code, section 25100, et seq. and California Code of Regulations, title 22, division 4.5 except as specifically identified in Section 8 of this variance.

6. DEFINITION. For purposes of this variance, "lead-contaminated soil(s)" shall mean soil that meets the criteria for hazardous waste but contains less than 3397 mg/kg total lead and is hazardous primarily because of aeriially-deposited lead contamination associated with exhaust emissions from the operation of motor vehicles.

7. FINDINGS/DETERMINATIONS. DTSC has determined that the variance applicant meets the requirements set forth in Health and Safety Code, section 25143 for a variance from specific regulatory requirements as outlined in Section 8 of this variance. The specific determinations and findings made by DTSC are as follows:

a) Caltrans intends to excavate, stockpile, transport, bury and cover large volumes of soil associated with highway construction projects. In the more urbanized highway corridors around the State this soil is contaminated with lead, primarily due to historic emissions from automobile exhausts. In situ sampling and laboratory testing has shown that some of the soil contains concentrations of lead in excess of State regulatory thresholds, and thus any generated waste from disturbance of the soil

would be regulated as hazardous waste. Such soil contains a Total Threshold Limit Concentration (TTLC) of 1000 milligrams per kilogram (mg/kg) or more lead and/or it meets or exceeds the Soluble Threshold Limit Concentration (STLC) for lead of 5 milligrams per liter (mg/l). A Human Health Risk Assessment prepared for this variance concludes that soil contaminated with elevated concentrations of lead can be managed in a way that presents no significant risk to human health.

b) The lead-contaminated soil will be placed only in Caltrans' right-of-way. Depending on concentration levels, the wastes will be covered with a minimum thickness of one (1) foot of non-hazardous soil or asphalt/concrete cover and will always be at least five (5) feet above the highest groundwater elevation. Caltrans will assure that proper health and safety procedures will be followed for workers, including any persons engaged in maintenance work in areas where the waste has been buried and covered.

c) DTSC finds and requires that the lead-contaminated soil excavated, stockpiled, transported, buried and covered pursuant to this variance is a non-RCRA hazardous waste, and that the waste management activity is insignificant as a potential hazard to human health and safety and the environment, when managed in accordance with the conditions, limitations and other requirements specified in this variance.

8. PROVISIONS WAIVED.

Provided Caltrans meets the terms and conditions of this variance, DTSC waives the hazardous waste management requirements of Health and Safety Code, Chapter 6.5 and California Code of Regulations, title 22 for the lead-contaminated soil that Caltrans reuses in projects that would require Caltrans to obtain a permit for a disposal facility and any other generator requirements that concern the transportation, manifesting, storage and land disposal of hazardous waste.

9. SPECIFIC CONDITIONS, LIMITATIONS AND OTHER REQUIREMENTS.

In order for the provisions discussed in section 8 to be waived, lead-contaminated soil must not exceed the contaminant concentrations discussed below and Caltrans management practices must meet all the following conditions:

a) Caltrans implementation of this variance shall comply with all applicable state laws and regulations for water quality control, water quality control plans, waste discharge requirements (including storm water permits), and others issued by the State Water Resources Control Board (SWRCB) and/or a California Regional Water Quality Control Board (RWQCB). Caltrans shall provide written notification to the appropriate RWQCB at least 30 days prior to advertisement for bids of projects that involve invocation of this variance, or as otherwise negotiated with the SWRCB or appropriate RWQCB.

b) The waivers in this variance shall only be applied to lead-contaminated soil that is not a RCRA hazardous waste and is hazardous primarily because of aerially-

deposited lead contamination associated with exhaust emissions from the operation of motor vehicles. The variance is not applicable to any other hazardous waste.

c) Soil containing 1.5 mg/l extractable lead or less (based on a modified waste extraction test using deionized water as the extractant) and 1411 mg/kg or less total lead may be used as fill provided that the lead-contaminated soil is placed a minimum of five (5) feet above the maximum historic water table elevation and covered with at least one (1) foot of nonhazardous soil that will be maintained by Caltrans to prevent future erosion.

d) Soil containing 150 mg/L extractable lead or less (based on a modified waste extraction test using deionized water as the extractant) and 3397 mg/kg or less total lead may be used as fill provided that the lead-contaminated soils are placed a minimum of five (5) feet above the maximum historic water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.

e) Lead-contaminated soil with a pH less than 5.5 but greater than 5.0 shall only be used as fill material under the paved portion of the roadway. Lead-contaminated soil with a pH at or less than 5.0 shall be managed as a hazardous waste.

f) For each project that has the potential to generate waste by disturbing lead-contaminated soil (as defined in 6), Caltrans shall conduct sampling and analysis to adequately characterize the soils containing aerially deposited lead in the areas of planned excavation along the project route. Such sampling and analysis shall include the Toxicity Characteristic Leaching Procedure (TCLP) as prescribed by the United States Environmental Protection Agency to determine whether concentrations of contaminants in soil exceed federal criteria for classification as a hazardous waste.

g) Lead-contaminated soil managed pursuant to this variance shall not be moved outside the designated corridor boundaries (see paragraph t) below. All lead-contaminated soil not buried and covered within the same Caltrans corridor where it originated is not eligible for management under this variance and shall be managed as a hazardous waste.

h) Lead-contaminated soil managed pursuant to this variance shall not be placed in areas where it would become in contact with groundwater or surface water (such as streams and rivers).

i) Lead-contaminated soil managed pursuant to this variance shall be buried and covered only in locations that are protected from erosion that may result from storm water run-on and run-off.

j) The lead-contaminated soil shall be buried and covered in a manner that will prevent accidental or deliberate breach of the asphalt, concrete, and/or cover soil.

k) The presence of lead-contaminated soil shall be incorporated into the projects' as-built drawings. The as-built drawings shall be annotated with the location, representative analytical data, and volume of lead-contaminated soil. The as-built drawings shall also state the depth of the cover. These as-built drawings shall be retained by Caltrans.

l) Caltrans shall ensure that no other hazardous wastes, other than the lead-contaminated hazardous waste soil, are placed in the burial areas.

m) Lead-contaminated soil shall not be buried within ten (10) feet of culverts or locations subject to frequent worker exposure.

n) Excavated lead-contaminated soil not placed into the designated area (fill area, roadbed area) by the end of the working day shall be stockpiled and covered with sheets of polyethylene or at least one foot of non-hazardous soil. The lead-contaminated soil, while stockpiled or under transport, shall be protected from contacting surface water and from being dislodged or transported by wind or storm water. The stockpile covers shall be inspected at least once a week and within 24 hours after rainstorms. If the lead-contaminated soil is stockpiled for more than 4 days from the time of excavation, Caltrans shall restrict public access to the stockpile by using barriers that meet the safety requirements of the construction zone. The lead-contaminated soil shall be stockpiled for no more than 90 days from the time the soil is first excavated. If the contaminated soil is stockpiled beyond the 90 day limit Caltrans shall:

1. notify DTSC in writing of the 90 day exceedance and expected date of removal;
2. perform weekly inspections of the stockpiled material to ensure that there is adequate protection from run-on, runoff, public access, and wind dispersion; and
3. notify DTSC on weekly basis of the stockpile status until the stockpile is removed.

The lead-contaminated soil shall be stockpiled for no more than 180 days from the time the soil is first excavated.

o) Caltrans shall ensure that all stockpiling of lead-contaminated soil remains within the project area of the specified corridor. Stockpiling of lead-contaminated soil within the specified corridor, but outside the project area, is prohibited.

p) Caltrans shall conduct confirmatory sampling of any stockpile area in areas not known or expected to contain lead-contaminated soil after removal of the lead-contaminated soil to ensure that contamination has not been left behind or has not migrated from the stockpiled material to the surrounding soils.

q) Caltrans shall stockpile lead-contaminated soil only on high ground (i.e. no sump areas or low points) so that stockpiled soil will not come in contact with surface

water run-on or run-off.

r) Caltrans shall not stockpile lead-contaminated soil in environmentally and ecologically sensitive areas.

s) Caltrans shall ensure that storm/rain run-off that has come into contact with stockpiled lead-contaminated soil will not flow to storm drains, inlets, or waters of the State.

t) Caltrans may dispose of the lead-contaminated soil only within the operating right-of-way of an existing highway, as defined in Streets and Highways Code, section 23. Caltrans may move lead-contaminated soil from one Caltrans project to another Caltrans project only if the lead-contaminated soil remains within the same designated corridor.

Caltrans shall record any movement of lead-contaminated soil by using a bill of lading. The bill of lading must contain: 1) the US DOT description including shipping name, hazard class and ID number; 2) handling codes; 3) quantity of material; 4) volume of material; 5) date of shipment; 6) origin and destination of shipment; and 7) any specific handling instructions. The bill of lading shall be referenced in and kept on file with the project's as-built drawings. The lead-contaminated soil must be kept covered during transportation.

u) For each specific corridor where this variance is to be implemented, all of the following information shall be submitted in writing to DTSC at least five (5) days before construction of any project begins:

1. plan drawing designating the boundaries of the corridor where lead-contaminated soils will be excavated, stockpiled, buried and covered;
2. a list of the Caltrans projects that the corridor encompasses;
3. a list of Caltrans contractors that will be conducting any phase of work on any project affected by this variance;
4. duration of corridor construction;
5. location where sampling and analytical data used to make lead concentration level determinations are kept (e.g. a particular Caltrans project file);
6. name and phone number (including area code) of project resident engineer and project manager;
7. location where Caltrans and contractor health and safety plan and records are kept;

8. location of project special provisions (including page or section number) for soil excavation, transportation, stockpile, burial and placement of cover material;

9. location of project drawings (including drawing page number) for soil excavation, burial and placement of cover in plan and cross section (for example, "The project plans are located at the resident engineer's office located at 5th and Main Streets, City of Fresno, See pages xxxxx of contract xxxx");

10. updated information if a Caltrans project within the corridor is added, changed or deleted; and

11. type of environmental document prepared for each project, date of adoption, document title, Clearing House number and where the document is available for review. A copy of the Caltrans Categorical Exemption, Categorical Exclusion Form, or if filed, the Notice of Exemption for any project shall be submitted to the DTSC Headquarters Project Manager.

v) Changes in location of lead-contaminated soil placement, quantities or protection measures (field changes) shall be noted in the resident engineer's project log within five (5) days of the field change.

w) Caltrans shall ensure that field changes are in compliance with the requirements of this variance.

x) Operational procedures described in the California Environmental Quality Act (CEQA) Special Initial Study shall be followed by Caltrans for activities conducted under this variance.

y) Caltrans shall implement appropriate health and safety procedures to protect its employees and the public, and to prevent or minimize exposure to potentially hazardous wastes. A project-specific health and safety plan must be prepared and implemented. The monitoring and exposure standards shall be based on construction standards for exposure to lead in California Code of Regulations, title 8, section 1532.1.

z) Caltrans shall provide a district Coordinator for this variance. This Coordinator will be the primary point of contact for information flowing to, or received from, DTSC regarding any matter or submission under this variance. Caltrans shall promptly notify DTSC of the name of Coordinator and any change in the Coordinator.

aa) Caltrans shall conduct regular inspections, consistent with Caltrans' Maintenance Division's current Pavement Inspection and Slope Inspection programs, of the locations where lead-contaminated soil has been buried and/or covered pursuant to this variance. If site inspection reveals deterioration of cover so that conditions in the variance are not met, Caltrans shall repair or replace the cover.

bb) Caltrans shall develop and implement a record keeping mechanisms to record and retain permanent records of all locations where lead-contaminated soil has been buried per this variance. The records shall be made available to DTSC.

cc) If areas subject to the terms of this variance are sold, relinquished or abandoned (including roadways), all future property owners shall be notified in writing in advance by Caltrans of the requirements of this variance, and Caltrans shall provide the owner with a copy of the variance. A copy of such a notice shall be sent to DTSC and contain the corridor location and project. Caltrans shall also disclose to DTSC and the new owner the location of areas where lead-contaminated soil has been buried. Future property owners shall be subject to the same requirements as Caltrans.

dd) For the purposes of informing the public about instances where the variance is implemented, Caltrans shall:

1. maintain current fact sheets at all Caltrans resident engineer offices and the Caltrans District office. Caltrans shall make the fact sheets available to anyone expressing an interest in variance-related work.
2. maintain a binder(s) containing copies of all reports submitted to DTSC at the District office. Caltrans shall ensure that the binders are readily accessible to the public.
3. carry out the following actions when it identifies additional projects:
 - (A) notify the public via a display advertisement in a newspaper of general circulation in that area.
 - (B) update and distribute the fact sheet to the mailing list and repository locations.

ee) Lead-contaminated soil may be buried only in areas where access is limited or where lead-contaminated soil is covered and contained by a pavement structure.

ff) Dust containing lead-contaminated soil must be controlled. Water or dust palliative may be applied to control dust. If visible dust migration occurs, all excavation, stockpiling and truck loading and burying must be stopped. The granting of this variance confers no relief on Caltrans from compliance with the laws, regulations and requirements enforced by any local air district or the California Air Resources Board.

gg) Sampling and analysis is required to show the lead-contaminated soil meets the variance criteria. All sampling and analysis must be conducted in accordance with the appropriate methods specified in U.S. EPA SW-846.

hh) DTSC retains the right to require Caltrans or any future owner to remove, and properly dispose of, lead-contaminated soil in the event DTSC determines it is necessary for protection of public health, safety or the environment.

ii) DTSC finds that some projects involving lead-contaminated soil are joint projects between Caltrans and other government entities. In these joint projects, Caltrans may not be the lead agency implementing the project although Caltrans is still involved if the project occurs on its right-of-way.

Caltrans may invoke this variance for joint projects where Caltrans and local government entity are involved provided that 1) the project is within the Caltrans Right-of-Way; 2) Caltrans reviews/ oversees all phases of the project including design, contracting, environmental assessment, construction, operation, and maintenance; and 3) Caltrans oversees the project to verify all variance conditions are complied with. Caltrans will be fully responsible for the variance notification and implementation in these joint projects.

jj) All correspondence shall be directed to the following office:

Hazardous Waste Permitting
Department of Toxic Substances Control
8800 Cal Center Drive
Sacramento, CA 95826

Attn: Caltrans Lead Variance Notification Unit

10. DISCLAIMER.

a) The issuance of this variance does not relieve Caltrans of the responsibility for compliance with Health and Safety Code, chapter 6.5, or the regulations adopted thereunder, and any other laws and regulations other than those specifically identified in Section 8 of this variance. Caltrans is subject to all terms and conditions herein. The granting of this variance confers no relief from compliance with any federal, State or local requirements other than those specifically provided herein.

b) The issuance of this variance does not release Caltrans from any liability associated with the handling of hazardous waste, except as specifically provided herein and subject to all terms and conditions of this variance.

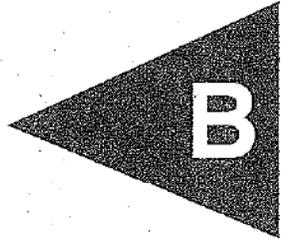
11. VARIANCE MODIFICATION OR REVOCATION. This variance is subject to review at the discretion of DTSC and may be modified or revoked by DTSC upon change of ownership and at any other time pursuant to Health and Safety Code, section 25143.
12. CEQA DETERMINATION. DTSC adopted a Negative Declaration on June 30, 2009.

Approved:

6/30/09
Date

Beverly Rikala
Beverly Rikala
Operating Facilities Team
Department of Toxic Substances Control

APPENDIX



B

September 23, 2009



Josh Goodwin
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
TEL: (916) 852-9118
FAX: (916) 852-9132

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196
Workorder No.: 107324

RE: Western Placerville Interchange, S9420-06-01

Attention: Josh Goodwin

Enclosed are the results for sample(s) received on September 10, 2009 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "E. Rodriguez".

Eddie F. Rodriguez
Laboratory Director

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



CLIENT: Geocon Consultants, Inc.
Project: Western Placerville Interchange, S9420-06-01
Lab Order: 107324

CASE NARRATIVE

Analytical Comments for Method 6010

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria for sample 107324-062AMS; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

RPD for Duplicate (DUP) is outside criteria for sample 107324-030ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.

Analytical Comments for Method 7420

Dilution was necessary for samples 107324-004A, 107324-016A, 107324-022A, 107324-028A, 107324-031A, 107324-032A, 107324-045A, 107324-049A, 107324-054A, 107324-059A and 107324-061A, due to sample matrix.

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria for samples 107324-061AMS and 107324-061AMSD; however, the analytical batch was validated by the Laboratory Control Sample (LCS).



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	107324
Project:	Western Placerville Interchange, S9420-06-01	Date Received	9/10/2009 12:48:15 PM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
107324-001A	B1-0	84	mg/Kg	58158	5.0	1	9/9/2009	9/16/2009
107324-002A	B1-1	ND	mg/Kg	58158	5.0	1	9/9/2009	9/16/2009
107324-003A	B1-2	ND	mg/Kg	58158	5.0	1	9/9/2009	9/16/2009
107324-004A	B2-0	160	mg/Kg	58158	5.0	1	9/9/2009	9/16/2009
107324-005A	B2-1	ND	mg/Kg	58158	5.0	1	9/9/2009	9/16/2009
107324-006A	B3-0	71	mg/Kg	58158	5.0	1	9/9/2009	9/16/2009
107324-007A	B3-1	ND	mg/Kg	58158	5.0	1	9/9/2009	9/16/2009
107324-008A	B3-2	ND	mg/Kg	58158	5.0	1	9/9/2009	9/16/2009
107324-009A	B4-0	49	mg/Kg	58158	5.0	1	9/9/2009	9/16/2009
107324-010A	B4-1	ND	mg/Kg	58158	5.0	1	9/9/2009	9/16/2009
107324-011A	B5-0	51	mg/Kg	58158	5.0	1	9/9/2009	9/16/2009
107324-012A	B5-1	ND	mg/Kg	58158	5.0	1	9/9/2009	9/16/2009
107324-013A	B5-2	ND	mg/Kg	58158	5.0	1	9/9/2009	9/16/2009
107324-014A	B6-0	ND	mg/Kg	58158	5.0	1	9/9/2009	9/16/2009
107324-015A	B6-1	25	mg/Kg	58158	5.0	1	9/9/2009	9/16/2009
107324-016A	B7-0	360	mg/Kg	58158	5.0	1	9/9/2009	9/16/2009
107324-017A	B7-1	15	mg/Kg	58158	5.0	1	9/9/2009	9/16/2009
107324-018A	B7-2	ND	mg/Kg	58158	5.0	1	9/9/2009	9/16/2009

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	



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	107324
Project:	Western Placerville Interchange, S9420-06-01	Date Received	9/10/2009 12:48:15 PM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
107324-019A	B8-0	120	mg/Kg	58158	5.0	1	9/9/2009	9/16/2009
107324-020A	B8-1	6.1	mg/Kg	58158	5.0	1	9/9/2009	9/16/2009
107324-021A	B8-2	5.5	mg/Kg	58159	5.0	1	9/9/2009	9/16/2009
107324-022A	B9-0	340	mg/Kg	58159	5.0	1	9/9/2009	9/16/2009
107324-023A	B9-1	5.2	mg/Kg	58159	5.0	1	9/9/2009	9/16/2009
107324-024A	B9-2	ND	mg/Kg	58159	5.0	1	9/9/2009	9/16/2009
107324-025A	B11-0	22	mg/Kg	58159	5.0	1	9/9/2009	9/16/2009
107324-026A	B11-1	ND	mg/Kg	58159	5.0	1	9/9/2009	9/16/2009
107324-027A	B11-2	9.1	mg/Kg	58159	5.0	1	9/9/2009	9/16/2009
107324-028A	B12-0	190	mg/Kg	58159	5.0	1	9/9/2009	9/16/2009
107324-029A	B12-1	8.0	mg/Kg	58159	5.0	1	9/9/2009	9/16/2009
107324-030A	B12-2	6.9	mg/Kg	58159	5.0	1	9/9/2009	9/16/2009
107324-031A	B13-0	670	mg/Kg	58159	5.0	1	9/9/2009	9/16/2009
107324-032A	B13-1	440	mg/Kg	58159	5.0	1	9/9/2009	9/16/2009
107324-033A	B15-0	43	mg/Kg	58159	5.0	1	9/9/2009	9/16/2009
107324-034A	B15-1	8.9	mg/Kg	58159	5.0	1	9/9/2009	9/16/2009
107324-035A	B15-2	5.8	mg/Kg	58159	5.0	1	9/9/2009	9/16/2009
107324-036A	B16-0	96	mg/Kg	58159	5.0	1	9/9/2009	9/16/2009

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	



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	107324
Project:	Western Placerville Interchange, S9420-06-01	Date Received	9/10/2009 12:48:15 PM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
107324-037A	B16-1	6.3	mg/Kg	58159	5.0	1	9/9/2009	9/16/2009
107324-038A	B16-2	ND	mg/Kg	58159	5.0	1	9/9/2009	9/16/2009
107324-039A	B17-0	27	mg/Kg	58159	5.0	1	9/9/2009	9/16/2009
107324-040A	B17-1	6.1	mg/Kg	58159	5.0	1	9/9/2009	9/16/2009
107324-041A	B17-2	ND	mg/Kg	58161	5.0	1	9/9/2009	9/16/2009
107324-042A	B18-0	55	mg/Kg	58161	5.0	1	9/9/2009	9/16/2009
107324-043A	B18-1	ND	mg/Kg	58161	5.0	1	9/9/2009	9/16/2009
107324-044A	B18-2	ND	mg/Kg	58161	5.0	1	9/9/2009	9/16/2009
107324-045A	B19-0	170	mg/Kg	58161	5.0	1	9/9/2009	9/16/2009
107324-046A	B19-1	62	mg/Kg	58161	5.0	1	9/9/2009	9/16/2009
107324-047A	B20-0	180	mg/Kg	58161	5.0	1	9/9/2009	9/16/2009
107324-048A	B20-1	8.3	mg/Kg	58161	5.0	1	9/9/2009	9/16/2009
107324-049A	B21-0	220	mg/Kg	58161	5.0	1	9/9/2009	9/16/2009
107324-050A	B21-1	ND	mg/Kg	58161	5.0	1	9/9/2009	9/16/2009
107324-051A	B22-0	63	mg/Kg	58161	5.0	1	9/9/2009	9/16/2009
107324-052A	B22-1	6.2	mg/Kg	58161	5.0	1	9/9/2009	9/16/2009
107324-053A	B22-2	8.2	mg/Kg	58161	5.0	1	9/9/2009	9/16/2009
107324-054A	B23-0	460	mg/Kg	58161	5.0	1	9/9/2009	9/16/2009

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	



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	107324
Project:	Western Placerville Interchange, S9420-06-01	Date Received	9/10/2009 12:48:15 PM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	SRB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
107324-055A	B23-1	7.5	mg/Kg	58161	5.0	1	9/9/2009	9/16/2009
107324-056A	B24-0	86	mg/Kg	58161	5.0	1	9/9/2009	9/16/2009
107324-057A	B24-1	ND	mg/Kg	58161	5.0	1	9/9/2009	9/16/2009
107324-058A	B24-2	ND	mg/Kg	58161	5.0	1	9/9/2009	9/16/2009
107324-059A	B25-0	200	mg/Kg	58161	5.0	1	9/9/2009	9/16/2009
107324-060A	B25-1	9.4	mg/Kg	58161	5.0	1	9/9/2009	9/16/2009
107324-061A	B10-0	300	mg/Kg	58163	5.0	1	9/9/2009	9/16/2009
107324-062A	B14-0	2400	mg/Kg	58163	5.0	1	9/9/2009	9/16/2009

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	



ANALYTICAL RESULTS

**pH
EPA 9045C**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	107324
Project:	Western Placerville Interchange, S9420-06-01	Date Received	9/10/2009 12:48:15 PM
Project No:		Matrix:	Soil
Analyte:	pH	Analyst:	DDL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
107324-001A	B1-0	7.8	pH Units	R112987	0.10	1	9/9/2009	9/16/2009
107324-004A	B2-0	7.8	pH Units	R112987	0.10	1	9/9/2009	9/16/2009
107324-007A	B3-1	8.1	pH Units	R112987	0.10	1	9/9/2009	9/16/2009
107324-027A	B11-2	7.7	pH Units	R112987	0.10	1	9/9/2009	9/16/2009
107324-028A	B12-0	7.4	pH Units	R112987	0.10	1	9/9/2009	9/16/2009
107324-033A	B15-0	7.4	pH Units	R112987	0.10	1	9/9/2009	9/16/2009
107324-054A	B23-0	7.1	pH Units	R112987	0.10	1	9/9/2009	9/16/2009
107324-062A	B14-0	7.3	pH Units	R112987	0.10	1	9/9/2009	9/16/2009

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	



LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	107324
Project:	Western Placerville Interchange, S9420-06-01	Date Received	9/10/2009 12:48:15 PM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
107324-001A	B1-0	2.3	mg/L	58281	0.25	1	9/9/2009	9/22/2009
107324-004A	B2-0	9.9	mg/L	58281	0.50	2	9/9/2009	9/22/2009
107324-006A	B3-0	3.5	mg/L	58281	0.25	1	9/9/2009	9/22/2009
107324-011A	B5-0	0.40	mg/L	58281	0.25	1	9/9/2009	9/22/2009
107324-016A	B7-0	17	mg/L	58281	0.50	2	9/9/2009	9/22/2009
107324-019A	B8-0	8.5	mg/L	58281	0.25	1	9/9/2009	9/22/2009
107324-022A	B9-0	17	mg/L	58281	2.5	10	9/9/2009	9/22/2009
107324-028A	B12-0	14	mg/L	58281	0.50	2	9/9/2009	9/22/2009
107324-031A	B13-0	48	mg/L	58303	2.5	10	9/9/2009	9/22/2009
107324-032A	B13-1	32	mg/L	58303	2.5	10	9/9/2009	9/22/2009
107324-036A	B16-0	4.5	mg/L	58303	0.25	1	9/9/2009	9/22/2009
107324-042A	B18-0	0.93	mg/L	58303	0.25	1	9/9/2009	9/22/2009
107324-045A	B19-0	12	mg/L	58303	0.50	2	9/9/2009	9/22/2009
107324-046A	B19-1	1.1	mg/L	58303	0.25	1	9/9/2009	9/22/2009
107324-047A	B20-0	5.8	mg/L	58303	0.25	1	9/9/2009	9/22/2009
107324-049A	B21-0	18	mg/L	58303	0.50	2	9/9/2009	9/22/2009
107324-051A	B22-0	0.47	mg/L	58303	0.25	1	9/9/2009	9/22/2009
107324-054A	B23-0	17	mg/L	58303	2.5	10	9/9/2009	9/22/2009

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	



**LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	107324
Project:	Western Placerville Interchange, S9420-06-01	Date Received	9/10/2009 12:48:15 PM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
107324-056A	B24-0	3.4	mg/L	58303	0.25	1	9/9/2009	9/22/2009
107324-059A	B25-0	14	mg/L	58303	0.50	2	9/9/2009	9/22/2009
107324-061A	B10-0	16	mg/L	58303	0.50	2	9/9/2009	9/22/2009

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: 23-Sep-09

CLIENT: Geocon Consultants, Inc.
Work Order: 107324

ANALYTICAL QC SUMMARY REPORT

Project: Western Placerville Interchange, S9420-06-01

TestCode: 6010_SPB

Sample ID: MB-58158A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112960						
Client ID: PBS	Batch ID: 58158	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785404						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.295	5.0									

Sample ID: LCS-58158	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112960						
Client ID: LCSS	Batch ID: 58158	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785405						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	278.409	5.0	250.0	0.2954	111	80	120				

Sample ID: 107324-010A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112960						
Client ID: B4-1	Batch ID: 58158	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785416						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.500	5.0						2.376	0	20	

Sample ID: 107324-010A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112960						
Client ID: B4-1	Batch ID: 58158	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785417						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	208.312	5.0	250.0	2.376	82.4	33	120				

Sample ID: MB-58158B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112960						
Client ID: PBS	Batch ID: 58158	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785418						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.171	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
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoson Consultants, Inc.
Work Order: 107324

Project: Western Placerville Interchange, S9420-06-01

TestCode: 6010_SPB

Sample ID: 107324-020A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112960						
Client ID: B8-1	Batch ID: 58158	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785429						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.325	5.0						6.094	0	20	

Sample ID: 107324-020A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112960						
Client ID: B8-1	Batch ID: 58158	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785430						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	222.990	5.0	250.0	6.094	86.8	33	120				

Sample ID: 107324-020A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112960						
Client ID: B8-1	Batch ID: 58158	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785431						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	202.477	5.0	250.0	6.094	78.6	33	120	223.0	9.64	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



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoson Consultants, Inc.
Work Order: 107324

Project: Western Placerville Interchange, S9420-06-01

TestCode: 6010_SPB

Sample ID: MB-58159A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112962						
Client ID: PBS	Batch ID: 58159	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785432						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: LCS-58159	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112962						
Client ID: LCSS	Batch ID: 58159	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785433						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	274.309	5.0	250.0	0	110	80	120				

Sample ID: 107324-030A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112962						
Client ID: B12-2	Batch ID: 58159	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785444						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.228	5.0						6.928	28.5	20	R

Sample ID: 107324-030A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112962						
Client ID: B12-2	Batch ID: 58159	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785445						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	217.441	5.0	250.0	6.928	84.2	33	120				

Sample ID: MB-58159B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112962						
Client ID: PBS	Batch ID: 58159	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785446						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.231	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
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geocon Consultants, Inc.
Work Order: 107324

Project: Western Placerville Interchange, S9420-06-01

TestCode: 6010_SPB

Sample ID: 107324-040A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112962						
Client ID: B17-1	Batch ID: 58159	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785457						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.147	5.0						6.119	0	20	

Sample ID: 107324-040A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112962						
Client ID: B17-1	Batch ID: 58159	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785458						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	208.611	5.0	250.0	6.119	81.0	33	120				

Sample ID: 107324-040A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112962						
Client ID: B17-1	Batch ID: 58159	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785459						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	218.835	5.0	250.0	6.119	85.1	33	120	208.6	4.78	20	

Qualifiers:

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- S Spike/Surrogate outside of limits due to matrix interference



Advanced Technology Laboratories
 3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoson Consultants, Inc.
Work Order: 107324

Project: Western Placerville Interchange, S9420-06-01

TestCode: 6010_SPB

Sample ID: MB-58161A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112963						
Client ID: PBS	Batch ID: 58161	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785460						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.181	5.0									

Sample ID: LCS-58161	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112963						
Client ID: LCSS	Batch ID: 58161	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785461						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	266.841	5.0	250.0	0.1808	107	80	120				

Sample ID: 107324-050A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112963						
Client ID: B21-1	Batch ID: 58161	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785472						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.735	5.0						4.086	0	20	

Sample ID: 107324-050A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112963						
Client ID: B21-1	Batch ID: 58161	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785473						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	204.787	5.0	250.0	4.086	80.3	33	120				

Sample ID: MB-58161B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112963						
Client ID: PBS	Batch ID: 58161	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785474						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

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ANALYTICAL QC SUMMARY REPORT

CLIENT: Geocon Consultants, Inc.
Work Order: 107324
Project: Western Placerville Interchange, S9420-06-01

TestCode: 6010_SPB

Sample ID: 107324-060A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112963
Client ID: B25-1	Batch ID: 58161	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785485
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	10.202	5.0			
Lead				9.428	7.88
					20

Sample ID: 107324-060A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112963
Client ID: B25-1	Batch ID: 58161	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785486
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	210.572	5.0	250.0	9.428	80.5
Lead				33	120

Sample ID: 107324-060A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112963
Client ID: B25-1	Batch ID: 58161	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785487
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	210.308	5.0	250.0	9.428	80.4
Lead				33	120

Qualifiers:

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ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoson Consultants, Inc.
Work Order: 107324
Project: Western Placerville Interchange, S9420-06-01

TestCode: 6010_SPB

Sample ID: MB-58163A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112964
Client ID: PBS	Batch ID: 58163	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785488
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	0.219	5.0			
Lead				LowLimit	HighLimit
				RPD Ref Val	%RPD
				RPDLimit	Qual

Sample ID: LCS-58163	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112964
Client ID: LCSS	Batch ID: 58163	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785489
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	271.476	5.0	250.0	0.2187	109
Lead				80	120

Sample ID: 107324-062A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112964
Client ID: B14-0	Batch ID: 58163	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785492
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	2412.344	5.0			
Lead				2363	2.06

Sample ID: 107324-062A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112964
Client ID: B14-0	Batch ID: 58163	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785493
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	2682.369	5.0	250.0	2363	128
Lead				33	120
					S

Sample ID: 107324-062A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 9/15/2009	RunNo: 112964
Client ID: B14-0	Batch ID: 58163	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 9/16/2009	SeqNo: 1785494
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	2536.111	5.0	250.0	2363	69.2
Lead				33	120
					5.61
					20

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ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoson Consultants, Inc.
Work Order: 107324

Project: Western Placerville Interchange, S9420-06-01

TestCode: 7420_ST

Sample ID: MB-58281A	SampleType: MBLK	TestCode: 7420_ST	Units: mg/L	Prep Date: 9/20/2009	RunNo: 113199						
Client ID: PBS	Batch ID: 58281	TestNo: WET/EPA 74 WET		Analysis Date: 9/22/2009	SeqNo: 1789675						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: LCS-58281	SampleType: LCS	TestCode: 7420_ST	Units: mg/L	Prep Date: 9/20/2009	RunNo: 113199						
Client ID: LCSS	Batch ID: 58281	TestNo: WET/EPA 74 WET		Analysis Date: 9/22/2009	SeqNo: 1789676						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.215	0.25	5.000	0	104	80	120				

Sample ID: 107181-033A-DUP	SampleType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 9/20/2009	RunNo: 113199						
Client ID: ZZZZZZ	Batch ID: 58281	TestNo: WET/EPA 74 WET		Analysis Date: 9/22/2009	SeqNo: 1789687						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	13.737	0.50						13.88	1.05	20	

Sample ID: 107181-033A-MS	SampleType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 9/20/2009	RunNo: 113199						
Client ID: ZZZZZZ	Batch ID: 58281	TestNo: WET/EPA 74 WET		Analysis Date: 9/22/2009	SeqNo: 1789688						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	18.689	1.0	5.000	13.88	96.1	80	120				

Sample ID: MB-58281B	SampleType: MBLK	TestCode: 7420_ST	Units: mg/L	Prep Date: 9/20/2009	RunNo: 113199						
Client ID: PBS	Batch ID: 58281	TestNo: WET/EPA 74 WET		Analysis Date: 9/22/2009	SeqNo: 1789689						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Qualifiers:

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ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoson Consultants, Inc.
Work Order: 107324

Project: Western Placerville Interchange, S9420-06-01

TestCode: 7420_ST

Sample ID: 107324-028A-DUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 9/20/2009	RunNo: 113199						
Client ID: B12-0	Batch ID: 58281	TestNo: WET/EPA 74 WET		Analysis Date: 9/22/2009	SeqNo: 1789700						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	13.472	0.50						13.66	1.42		20

Sample ID: 107324-028A-MS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 9/20/2009	RunNo: 113199						
Client ID: B12-0	Batch ID: 58281	TestNo: WET/EPA 74 WET		Analysis Date: 9/22/2009	SeqNo: 1789701						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	18.107	0.50	5.000	13.66	88.9	80	120				

Sample ID: 107324-028A-MSD	SampType: MSD	TestCode: 7420_ST	Units: mg/L	Prep Date: 9/20/2009	RunNo: 113199						
Client ID: B12-0	Batch ID: 58281	TestNo: WET/EPA 74 WET		Analysis Date: 9/22/2009	SeqNo: 1789702						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	17.963	0.50	5.000	13.66	86.0	80	120	18.11	0.794		20

Qualifiers:

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3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoson Consultants, Inc.
Work Order: 107324

Project: Western Placerville Interchange, S9420-06-01

TestCode: 7420_ST

Sample ID: MB-58303A	Sample Type: MBLK	TestCode: 7420_ST	Units: mg/L	Prep Date: 9/20/2009	RunNo: 113200						
Client ID: PBS	Batch ID: 58303	TestNo: WET/EPA 74 WET		Analysis Date: 9/22/2009	SeqNo: 1789703						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: LCS-58303	Sample Type: LCS	TestCode: 7420_ST	Units: mg/L	Prep Date: 9/20/2009	RunNo: 113200						
Client ID: LCSS	Batch ID: 58303	TestNo: WET/EPA 74 WET		Analysis Date: 9/22/2009	SeqNo: 1789704						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.061	0.25	5.000	0	101	80	120				

Sample ID: 107324-051A-DUP	Sample Type: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 9/20/2009	RunNo: 113200						
Client ID: B22-0	Batch ID: 58303	TestNo: WET/EPA 74 WET		Analysis Date: 9/22/2009	SeqNo: 1789715						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.499	0.25						0.4722	5.60	20	

Sample ID: 107324-051A-MS	Sample Type: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 9/20/2009	RunNo: 113200						
Client ID: B22-0	Batch ID: 58303	TestNo: WET/EPA 74 WET		Analysis Date: 9/22/2009	SeqNo: 1789716						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.891	0.25	5.000	0.4722	88.4	80	120				

Sample ID: MB-58303B	Sample Type: MBLK	TestCode: 7420_ST	Units: mg/L	Prep Date: 9/20/2009	RunNo: 113200						
Client ID: PBS	Batch ID: 58303	TestNo: WET/EPA 74 WET		Analysis Date: 9/22/2009	SeqNo: 1789717						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Qualifiers:

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ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoson Consultants, Inc.
Work Order: 107324

Project: Western Placerville Interchange, S9420-06-01

TestCode: 7420_ST

Sample ID: 107324-061A-DUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 9/20/2009	RunNo: 113200						
Client ID: B10-0	Batch ID: 58303	TestNo: WET/EPA 74 WET		Analysis Date: 9/22/2009	SeqNo: 1789722						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	16.195	0.50						16.25	0.321	20	

Sample ID: 107324-061A-MS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 9/20/2009	RunNo: 113200						
Client ID: B10-0	Batch ID: 58303	TestNo: WET/EPA 74 WET		Analysis Date: 9/22/2009	SeqNo: 1789723						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	20.174	1.0	5.000	16.25	78.5	80	120				S

Sample ID: 107324-061A-MSD	SampType: MSD	TestCode: 7420_ST	Units: mg/L	Prep Date: 9/20/2009	RunNo: 113200						
Client ID: B10-0	Batch ID: 58303	TestNo: WET/EPA 74 WET		Analysis Date: 9/22/2009	SeqNo: 1789724						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	19.886	1.0	5.000	16.25	72.8	80	120	20.17	1.43	20	S

Qualifiers:

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ANALYTICAL QC SUMMARY REPORT

CLIENT: Geocon Consultants, Inc.
Work Order: 107324

Project: Western Placerville Interchange, S9420-06-01

TestCode: 9045_S

Sample ID: 107303-006ADUP	SampType: DUP	TestCode: 9045_S	Units: pH Units	Prep Date:	RunNo: 112987						
Client ID: ZZZZZZ	Batch ID: R112987	TestNo: EPA 9045C		Analysis Date: 9/16/2009	SeqNo: 1785826						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	6.820	0.10						6.890	1.02	20	

Qualifiers:

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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 FedEx Other: _____
 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

Sample Condition Upon Receipt
 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. #: _____ Date: 9/10/09
 Logged By: _____

Address: 3160 Gold Valley Drive, Suite 800
 City: Rancho Cordova State: CA Zip Code: 95742 Tel: 916-852-9118
 Project #: S9420-06-01 Sampler: (Printed Name) JOSH GOODWIN Fax: 916-852-9132
 Relinquished by: (Signature and Printed Name) Josh Goodwin Date: 9/9/09 Time: 6:00
 Relinquished by: (Signature and Printed Name) Margie Ann Date: 9/10/09 Time: 10:15
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____

Send Report To: _____
 Attn: Josh Goodwin
 Co: Same as above
 Addr: _____
 City: _____ State: _____ Zip: _____

Special Instructions/Comments:
 Please homogenize lead only samples in lab. Please send data to Kari Cook and Josh Goodwin

LAB USE ONLY:

LAB USE ONLY:	Lab No.	Sample ID / Location	Sample Description	Date	Time
	107324-11	B5-0		9/9/09	8:49
	-12	B5-1			8:50
	-13	B5-2			8:51
	-14	B6-0			9:00
	-15	B6-1			9:01
	-16	B7-0			9:10
	-17	B7-1			9:11
	-18	B7-2			9:12
	-19	B8-0			9:16
	-20	B8-1			9:17

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 worker /mo (after 1 year)

LAB USE ONLY:	Lab No.	Sample ID / Location	Sample Description	Date	Time
	107324-11	B5-0		9/9/09	8:49
	-12	B5-1			8:50
	-13	B5-2			8:51
	-14	B6-0			9:00
	-15	B6-1			9:01
	-16	B7-0			9:10
	-17	B7-1			9:11
	-18	B7-2			9:12
	-19	B8-0			9:16
	-20	B8-1			9:17

LAB USE ONLY:

LAB USE ONLY:	Lab No.	Sample ID / Location	Sample Description	Date	Time
	107324-11	B5-0		9/9/09	8:49
	-12	B5-1			8:50
	-13	B5-2			8:51
	-14	B6-0			9:00
	-15	B6-1			9:01
	-16	B7-0			9:10
	-17	B7-1			9:11
	-18	B7-2			9:12
	-19	B8-0			9:16
	-20	B8-1			9:17

LAB USE ONLY:

LAB USE ONLY:	Lab No.	Sample ID / Location	Sample Description	Date	Time
	107324-11	B5-0		9/9/09	8:49
	-12	B5-1			8:50
	-13	B5-2			8:51
	-14	B6-0			9:00
	-15	B6-1			9:01
	-16	B7-0			9:10
	-17	B7-1			9:11
	-18	B7-2			9:12
	-19	B8-0			9:16
	-20	B8-1			9:17

LAB USE ONLY:

LAB USE ONLY:	Lab No.	Sample ID / Location	Sample Description	Date	Time
	107324-11	B5-0		9/9/09	8:49
	-12	B5-1			8:50
	-13	B5-2			8:51
	-14	B6-0			9:00
	-15	B6-1			9:01
	-16	B7-0			9:10
	-17	B7-1			9:11
	-18	B7-2			9:12
	-19	B8-0			9:16
	-20	B8-1			9:17

LAB USE ONLY:

LAB USE ONLY:	Lab No.	Sample ID / Location	Sample Description	Date	Time
	107324-11	B5-0		9/9/09	8:49
	-12	B5-1			8:50
	-13	B5-2			8:51
	-14	B6-0			9:00
	-15	B6-1			9:01
	-16	B7-0			9:10
	-17	B7-1			9:11
	-18	B7-2			9:12
	-19	B8-0			9:16
	-20	B8-1			9:17

LAB USE ONLY:

LAB USE ONLY:	Lab No.	Sample ID / Location	Sample Description	Date	Time
	107324-11	B5-0		9/9/09	8:49
	-12	B5-1			8:50
	-13	B5-2			8:51
	-14	B6-0			9:00
	-15	B6-1			9:01
	-16	B7-0			9:10
	-17	B7-1			9:11
	-18	B7-2			9:12
	-19	B8-0			9:16
	-20	B8-1			9:17

LAB USE ONLY:

LAB USE ONLY:	Lab No.	Sample ID / Location	Sample Description	Date	Time
	107324-11	B5-0		9/9/09	8:49
	-12	B5-1			8:50
	-13	B5-2			8:51
	-14	B6-0			9:00
	-15	B6-1			9:01
	-16	B7-0			9:10
	-17	B7-1			9:11
	-18	B7-2			9:12
	-19	B8-0			9:16
	-20	B8-1			9:17

LAB USE ONLY:

LAB USE ONLY:	Lab No.	Sample ID / Location	Sample Description	Date	Time
	107324-11	B5-0		9/9/09	8:49
	-12	B5-1			8:50
	-13	B5-2			8:51
	-14	B6-0			9:00
	-15	B6-1			9:01
	-16	B7-0			9:10
	-17	B7-1			9:11
	-18	B7-2			9:12
	-19	B8-0			9:16
	-20	B8-1			9:17

LAB USE ONLY:

LAB USE ONLY:	Lab No.	Sample ID / Location	Sample Description	Date	Time
	107324-11	B5-0		9/9/09	8:49
	-12	B5-1			8:50
	-13	B5-2			8:51
	-14	B6-0			9:00
	-15	B6-1			9:01
	-16	B7-0			9:10
	-17	B7-1			9:11
	-18	B7-2			9:12
	-19	B8-0			9:16
	-20	B8-1			9:17

LAB USE ONLY:

LAB USE ONLY:	Lab No.	Sample ID / Location	Sample Description	Date	Time
	107324-11	B5-0		9/9/09	8:49
	-12	B5-1			8:50
	-13	B5-2			8:51
	-14	B6-0			9:00
	-15	B6-1			9:01
	-16	B7-0			9:10
	-17	B7-1			9:11
	-18	B7-2			9:12
	-19	B8-0			9:16
	-20	B8-1			9:17

LAB USE ONLY:

LAB USE ONLY:	Lab No.	Sample ID / Location	Sample Description	Date	Time
	107324-11	B5-0		9/9/09	8:49
	-12	B5-1			8:50
	-13	B5-2			8:51
	-14	B6-0			9:00
	-15	B6-1			9:01
	-16	B7-0			9:10
	-17	B7-1			9:11
	-18	B7-2			9:12
	-19	B8-0			9:16
	-20	B8-1			9:17

LAB USE ONLY:

LAB USE ONLY:	Lab No.	Sample ID / Location	Sample Description	Date	Time
	107324-11	B5-0		9/9/09	8:49
	-12	B5-1			8:50
	-13	B5-2			8:51
	-14	B6-0			9:00
	-15	B6-1			9:01
	-16	B7-0			9:10
	-17	B7-1			9:11
	-18	B7-2			9:12
	-19	B8-0			9:16
	-20	B8-1			9:17

LAB USE ONLY:

LAB USE ONLY:	Lab No.	Sample ID / Location	Sample Description	Date	Time
	107324-11	B5-0		9/9/09	8:49
	-12	B5-1			8:50
	-13	B5-2			8:51
	-14	B6-0			9:00
	-15	B6-1			9:01
	-16	B7-0			9:10
	-17	B7-1			9:11
	-18	B7-2			9:12
	-19	B8-0			9:16
	-20	B8-1			9:17

LAB USE ONLY:

LAB USE ONLY:	Lab No.	Sample ID / Location	Sample Description	Date	Time
	107324-11	B5-0		9/9/09	8:49
	-12	B5-1			8:50
	-13	B5-2			8:51
	-14	B6-0			9:00
	-15	B6-1			9:01
	-16	B7-0			9:10
	-17	B7-1			9:11
	-18	B7-2			9:12
	-19	B8-0			9:16
	-20	B8-1			9:17

LAB USE ONLY:

LAB USE ONLY:	Lab No.	Sample ID / Location	Sample Description	Date	Time
	107324-11	B5-0		9/9/09	8:49
	-12	B5-1			8:50
	-13	B5-2			8:51
	-14	B6-0			9:00
	-15	B6-1			9:01
	-16	B7-0			9:10
	-17	B7-1			9:11
	-18	B7-2			9:12
	-19	B8-0			9:16
	-20	B8-1			9:17

LAB USE ONLY:

LAB USE ONLY:	Lab No.	Sample ID / Location	Sample Description	Date	Time
	107324-11	B5-0		9/9/09	8:49
	-12	B5-1			8:50
	-13	B5-2			8:51
	-14	B6-0			9:00
	-15	B6-1			9:01
	-16	B7-0			9:10
	-17	B7-1			9:11
	-18	B7-2			9:12
	-19	B8-0			9:16
	-20	B8-1			9:17

LAB USE ONLY:

LAB USE ONLY:	Lab No.	Sample ID / Location	Sample Description	Date	Time
	107324-11	B5-0		9/9/09	8:49
	-12	B5-1			8:50
	-13	B5-2			8:51
	-14	B6-0			9:00
	-15	B6-1			9:01
	-16	B7-0			9:10
	-17	B7-1			9:11
	-18	B7-2			9:12
	-19	B8-0			9:16
	-20	B8-1			9:17

LAB USE ONLY:

LAB USE ONLY:	Lab No.	Sample ID / Location	Sample Description	Date	Time

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

Client: Geocon Consultants
 Attention: Josh Goodwin
 Address: 3160 Gold Valley Drive, Suite 800
 City: Rancho Cordova State: CA Zip Code: 95742
 Tel: 916-852-9118 Fax: 916-852-9132

Project #: S9420-06-01
 Sampler: (Printed Name) JOSH GOODWIN
 Received by: (Signature and Printed Name) *Josh Goodwin* Date: 9/9/09 Time: 1600
 Received by: (Signature and Printed Name) *Mary Ann* Date: 9/10/09 Time: 1015

Relinquished by: (Signature and Printed Name) *Josh Goodwin* Date: 9/9/09 Time: 1600
 Relinquished by: (Signature and Printed Name) *Mary Ann* Date: 9/10/09 Time: 1015
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____

Send Report To:
 Attn: Josh Goodwin
 Co: Same as above
 Addr: _____
 City: _____ State: _____ Zip: _____

Circle or Add Analysis(es) Requested:
 8081A (Pesticides) _____
 8082 (PCB) _____
 8260B (Volatiles) _____
 8270C (BNA) _____
 8010B (Total Metal) (Lead Pb) _____
 8015B (GRO) / 8020 (BTEX) _____
 8015B (DRO) _____
 8021 (BTEX) _____
 TITLE 22 / CAM 17 (6010 / 7000) _____
 SOIL _____
 WATER _____
 GROUND WATER _____
 WASTEWATER _____

Special Instructions/Comments:
 Please homogenize lead only samples in lab. Please send data to Kari Cook and Josh Goodwin

LAB USE ONLY:	Sample ID / Location	Sample Description	Date	Time	Container(s)	Type	TAT	RESERVATION	QA / QC
107324-21	B8-2		9/9/09	918					RTNE CT
-22	B9-0		9/9/09	923					SWRCB Logcode
-23	B9-1		9/9/09	924					OTHER
-24	B9-2		9/9/09	925					REMARKS
-25	B11-0		9/9/09	930					
-26	B11-1		9/9/09	931					
-27	B11-2		9/9/09	932					
-28	B12-0		9/9/09	940					
-29	B12-1		9/9/09	941					
-30	B12-2		9/9/09	942					

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

Container Types: T=Tube V=VOA L=Liter P=Pin P=Plastic M=Metal
 TAT: A = Overnight ≤ 24 hrs B = Emergency Next Workday C = Critical 2 Workdays D = Urgent 3 Workdays E = Routine 7 Workdays

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: Geocon Consultants
 Attention: Josh Goodwin
 Project Name: Western Placerville Interchange

P.O. #: _____
 Logged By: [Signature] Date: 9/10/09

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

Address: 3160 Gold Valley Drive, Suite 800
 City: Rancho Cordova State: CA Zip Code: 95742
 Project #: S9420-06-01
 Sampler: (Printed Name) JOSH GOODWIN
 Date: 9/9/09 Time: 1600
 Date: 9/9/09 Time: 1600
 Date: 9/10/07 Time: 1015
 Received by: (Signature and Printed Name) [Signature]
 Received by: (Signature and Printed Name) [Signature]
 Received by: (Signature and Printed Name) _____

Special Instructions/Comments:
 Please homogenize lead only samples in lab. Please send data to Kari Cook and Josh Goodwin

Bill To: _____
 Attn: Josh Goodwin
 Co: Same as above
 Addr: _____
 City: _____ State: _____ Zip: _____

I hereby authorize ATL to perform the work indicated below:
 Project Mgr / Submitter: Josh Goodwin Date: 9/9/09
 Print Name: _____ Signature: [Signature]
 City: _____ State: _____ Zip: _____

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	Date	Time	Sample Description
107324-31	613-0	9/9/09	1000	
-32	B13-1		1001	
-33	B15-0		1016	
-34	B15-1		1017	
-35	B15-2		1018	
-36	B16-0		1025	
-37	B16-1		1026	
-38	B16-2		1027	
-39	B17-0		1033	
-40	B17-1		1034	

SPECIFY APPROPRIATE MATRIX		Container(s)	TAT #	Type	REMARKS
8082 (PCB)					
8260B (Nitrates)					
8270C (BNA)					
6010B (Total Metal)					
8015B (GRO) / 8020 (BTEX)					
8015B (DRO)					
8021 (BTEX)					
TITLE 22 / CAM 17 (6010 / 7000)					
SOIL					
WATER					
GROUND WATER					
WASTEWATER					

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal
 TAT: A = Overnight 5 24 hrs B = Emergency Next Workday C = Critical 2 Workdays D = Urgent 3 Workdays E = Routine 7 Workdays
 Preservatives: H=HCl N=HNO3 S=H2SO4 C=4°C
 Z=Zn(AC)2 O=NaOH T=Na2S2O3

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 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. #: _____ Date: 9/10/09
 Logged By: _____

Address: 3160 Gold Valley Drive, Suite 800
 City: Rancho Cordova State: CA Zip Code: 95742
 Sampler: (Printed Name) JOSH GOODWIN

Client: Geocon Consultants
 Attention: Josh Goodwin
 Project Name: Western Placerville Interchange
 Project #: S9420-06-01

Relinquished by: (Signature and Printed Name) *Josh Goodwin* Date: 9/9/09 Time: 1600
 Relinquished by: (Signature and Printed Name) *Parse* Date: 9/10/09 Time: 1015
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below:
 Project Mgr / Submitter: Josh Goodwin Date: 9/9/09
 Print Name: _____ Signature: _____
 City: _____ State: _____ Zip: _____

Send Report To:
 Attn: Josh Goodwin
 Co: Same as above
 Addr: _____
 City: _____ State: _____ Zip: _____

Circle or Add Analysis(es) Requested
 8081A (Pesticides) _____
 82608 (PCBs) _____
 8270C (Volatiles) _____
 60108 (BNA) _____
 80158 (Total Metal) _____
 80158 (DRO) _____
 8021 (BTEX) _____
 TITLE 22 / CAM 17 (6010 / 700) _____
 SOIL _____
 WATER _____
 GROUND WATER _____
 WASTEWATER _____

Special Instructions/Comments:
 Please homogenize lead only samples in lab. Please send data to Kari Cook and Josh Goodwin

LAB USE ONLY:	Sample ID / Location	Sample Description	Date	Time
10734 -41	B17-2		9/9/09	1035
-42	B18-0			1040
-43	B18-1			1041
-44	B18-2			1042
-45	B19-0			1048
-46	B19-1			1049
-47	B20-0			1057
-48	B20-1			1058
-49	B21-0			1104
-50	B21-1			1105

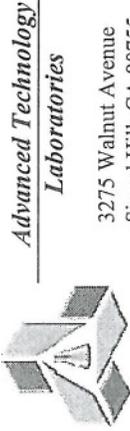
Storage Fees (applies when storage is requested):
 ■ Sample: \$2.00 / sample /mo (after 45 days)
 ■ Records: \$1 /ATL workorder /mo (after 1 year)

Container Types: T=Tube V=VOA L=Liter P=Pint
 TAT: A = Overnight ≤ 24 hrs 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=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(Ac)₂ O=NaOH T=N₂S₂O₃

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY



3275 Walnut Avenue
Signal Hill, CA 90755

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

P.O. #: _____
Date: 9/10/09

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

Client: Geocon Consultants
Attention: Josh Goodwin
Address: 3160 Gold Valley Drive, Suite 800
City: Rancho Cordova State: CA Zip Code: 95742
Tel: 916-852-9118 Fax: 916-852-9132

Project #: S9420-06-01
Sampler: (Printed Name) JOSH GOODWIN
Date: 9/9/09 Received by: (Signature and Printed Name) [Signature] Time: 1600
Date: 9/10/09 Received by: (Signature and Printed Name) [Signature] Time: 1015

Relinquished by: (Signature and Printed Name) [Signature] Date: 9/9/09 Time: 1600
Relinquished by: (Signature and Printed Name) [Signature] Date: 9/10/09 Time: 1015
Relinquished by: (Signature and Printed Name) [Signature] Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below:
Project Mgr / Submitter: Josh Goodwin
Print Name: [Signature] Date: 9/9/09
Signature: [Signature]
City: _____ State: _____ Zip: _____
Co: Same as above
Addr: _____
City: _____ State: _____ Zip: _____

Send Report To: _____
Attn: Josh Goodwin
Co: _____
Addr: _____
City: _____ State: _____ Zip: _____

Special Instructions/Comments:
Please homogenize lead only samples in lab. Please send data to Kari Cook and Josh Goodwin

LAB USE ONLY:	Lab No.	Sample ID / Location	Sample Description	Date	Time	SPECIFY APPROPRIATE MATRIX		CONTAINER(S)	TAT #	Type	REMARKS
						WATER	GROUND WATER				
	107324-51	B22-0		9/9/09	1118						
	-52	B22-1			1119						
	-53	B22-2			1120						
	-54	B23-0			1126						
	-55	B23-1			1127						
	-56	B24-0			1133						
	-57	B24-1			1134						
	-58	B24-2			1135						
	-59	B25-0			1140						
	-60	B25-1			1141						

LAB USE ONLY: TAT: A = Overnight ≤ 24 hrs 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=Jar B=Tedlar G=Glass P=Plastic M=Metal
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: Geocon Consultants
 Attention: Josh Goodwin
 Project Name: Western Placerville Interchange

Address: 3160 Gold Valley Drive, Suite 800
 City: Rancho Cordova State: CA Zip Code: 95742
 Sampler: (Printed Name) JOSH GOODWIN

Method of Transport
 Client ATL CA OverN FedEx Other:

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

Relinquished by: (Signature and Printed Name)
 Date: 9/9/09 Time: 6:00
 Received by: (Signature and Printed Name)
 Date: 9/9/09 Time: 6:00

Relinquished by: (Signature and Printed Name)
 Date: 9/10/09 Time: 10:15
 Received by: (Signature and Printed Name)
 Date: 9/10/09 Time: 10:15

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

Special Instructions/Comments:
 Please homogenize lead only samples in lab. Please send data to Kari Cook and Josh Goodwin

Bill To: _____
 Attn: _____
 Co: Same as above
 Addr: _____
 City: _____ State: _____ Zip: _____

Circle or Add Analysis(es) Requested
 808A (Pesticides)
 8082 (PCB)
 8260B (Volatiles)
 8270C (BNAs)
 8010B (Total Metal)
 8015B (GRO) / 8020 (BTEX)
 8021 (BTEX)
 8015B (DRO)
 TITLE 22 / CAM 17 (6010 / 7000)

Container(s) _____
 Type _____
 TAT # _____
 Type _____

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

REMARKS

RESERVATION

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

TAT: A = Overnight ≤ 24 hrs 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=Pin P=Plastic M=Metal

LAB USE ONLY:
 I T E M
 Lab No. _____
 Sample ID / Location _____
 Sample Description _____
 Date _____ Time _____

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

Storage Fees (applies when storage is requested):
 ■ Sample: \$2.00 / sample /mo (after 45 days)
 ■ Records: \$1 /ATL worker /mo (after 1 year)

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.

Send Report To:
 Attn: Josh Goodwin
 Co: _____
 Addr: _____
 City: _____ State: _____ Zip: _____

Project #: S9420-06-01
 Date: 9/9/09 Time: 6:00
 Date: 9/9/09 Time: 6:00

Client: Geocon Consultants
 Attention: Josh Goodwin
 Project Name: Western Placerville Interchange

Address: 3160 Gold Valley Drive, Suite 800
 City: Rancho Cordova State: CA Zip Code: 95742
 Sampler: (Printed Name) JOSH GOODWIN

Method of Transport
 Client ATL CA OverN FedEx Other:

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

Relinquished by: (Signature and Printed Name)
 Date: 9/9/09 Time: 6:00
 Received by: (Signature and Printed Name)
 Date: 9/9/09 Time: 6:00

Relinquished by: (Signature and Printed Name)
 Date: 9/10/09 Time: 10:15
 Received by: (Signature and Printed Name)
 Date: 9/10/09 Time: 10:15

Special Instructions/Comments:
 Please homogenize lead only samples in lab. Please send data to Kari Cook and Josh Goodwin

Bill To: _____
 Attn: _____
 Co: Same as above
 Addr: _____
 City: _____ State: _____ Zip: _____

Circle or Add Analysis(es) Requested
 808A (Pesticides)
 8082 (PCB)
 8260B (Volatiles)
 8270C (BNAs)
 8010B (Total Metal)
 8015B (GRO) / 8020 (BTEX)
 8021 (BTEX)
 8015B (DRO)
 TITLE 22 / CAM 17 (6010 / 7000)

Container(s) _____
 Type _____
 TAT # _____
 Type _____

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

REMARKS

RESERVATION

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

TAT: A = Overnight ≤ 24 hrs 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=Pin P=Plastic M=Metal

LAB USE ONLY:
 I T E M
 Lab No. _____
 Sample ID / Location _____
 Sample Description _____
 Date _____ Time _____

Storage Fees (applies when storage is requested):
 ■ Sample: \$2.00 / sample /mo (after 45 days)
 ■ Records: \$1 /ATL worker /mo (after 1 year)

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.

Send Report To:
 Attn: Josh Goodwin
 Co: _____
 Addr: _____
 City: _____ State: _____ Zip: _____

Project #: S9420-06-01
 Date: 9/9/09 Time: 6:00
 Date: 9/9/09 Time: 6:00

Client: Geocon Consultants
 Attention: Josh Goodwin
 Project Name: Western Placerville Interchange

Address: 3160 Gold Valley Drive, Suite 800
 City: Rancho Cordova State: CA Zip Code: 95742
 Sampler: (Printed Name) JOSH GOODWIN

Method of Transport
 Client ATL CA OverN FedEx Other:

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

Relinquished by: (Signature and Printed Name)
 Date: 9/9/09 Time: 6:00
 Received by: (Signature and Printed Name)
 Date: 9/9/09 Time: 6:00

Relinquished by: (Signature and Printed Name)
 Date: 9/10/09 Time: 10:15
 Received by: (Signature and Printed Name)
 Date: 9/10/09 Time: 10:15

Special Instructions/Comments:
 Please homogenize lead only samples in lab. Please send data to Kari Cook and Josh Goodwin

Bill To: _____
 Attn: _____
 Co: Same as above
 Addr: _____
 City: _____ State: _____ Zip: _____

Circle or Add Analysis(es) Requested
 808A (Pesticides)
 8082 (PCB)
 8260B (Volatiles)
 8270C (BNAs)
 8010B (Total Metal)
 8015B (GRO) / 8020 (BTEX)
 8021 (BTEX)
 8015B (DRO)
 TITLE 22 / CAM 17 (6010 / 7000)

Container(s) _____
 Type _____
 TAT # _____
 Type _____

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

REMARKS

RESERVATION

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

TAT: A = Overnight ≤ 24 hrs 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=Pin P=Plastic M=Metal

LAB USE ONLY:
 I T E M
 Lab No. _____
 Sample ID / Location _____
 Sample Description _____
 Date _____ Time _____

Storage Fees (applies when storage is requested):
 ■ Sample: \$2.00 / sample /mo (after 45 days)
 ■ Records: \$1 /ATL worker /mo (after 1 year)

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.

Send Report To:
 Attn: Josh Goodwin
 Co: _____
 Addr: _____
 City: _____ State: _____ Zip: _____

Project #: S9420-06-01
 Date: 9/9/09 Time: 6:00
 Date: 9/9/09 Time: 6:00

Client: Geocon Consultants
 Attention: Josh Goodwin
 Project Name: Western Placerville Interchange

Address: 3160 Gold Valley Drive, Suite 800
 City: Rancho Cordova State: CA Zip Code: 95742
 Sampler: (Printed Name) JOSH GOODWIN

Method of Transport
 Client ATL CA OverN FedEx Other:

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

Relinquished by: (Signature and Printed Name)
 Date: 9/9/09 Time: 6:00
 Received by: (Signature and Printed Name)
 Date: 9/9/09 Time: 6:00

Relinquished by: (Signature and Printed Name)
 Date: 9/10/09 Time: 10:15
 Received by: (Signature and Printed Name)
 Date: 9/10/09 Time: 10:15

Special Instructions/Comments:
 Please homogenize lead only samples in lab. Please send data to Kari Cook and Josh Goodwin

Bill To: _____
 Attn: _____
 Co: Same as above
 Addr: _____
 City: _____ State: _____ Zip: _____

Circle or Add Analysis(es) Requested
 808A (Pesticides)
 8082 (PCB)
 8260B (Volatiles)
 8270C (BNAs)
 8010B (Total Metal)
 8015B (GRO) / 8020 (BTEX)
 8021 (BTEX)
 8015B (DRO)
 TITLE 22 / CAM 17 (6010 / 7000)

Container(s) _____
 Type _____
 TAT # _____
 Type _____

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

REMARKS

RESERVATION

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

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

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 Client ATL CA OverN FedEx Other:

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 Please homogenize lead only samples in lab. Please send data to Kari Cook and Josh Goodwin

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 Attn: _____
 Co: Same as above
 Addr: _____
 City: _____ State: _____ Zip: _____

Circle or Add Analysis(es) Requested
 808A (Pesticides)
 8082 (PCB)
 8260B (Volatiles)
 8270C (BNAs)
 8010B (Total Metal)
 8015B (GRO) / 8020 (BTEX)
 8021 (BTEX)
 8015B (DRO)
 TITLE 22 / CAM 17 (6010 / 7000)

Container(s) _____
 Type _____
 TAT # _____
 Type _____

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

REMARKS

RESERVATION

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

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

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 Date: 9/9/09 Time: 6:00
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Client: Geocon Consultants
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 Project Name: Western Placerville Interchange

Address: 3160 Gold Valley Drive, Suite 800
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Method of Transport
 Client ATL CA OverN FedEx Other:

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 City: _____ State: _____ Zip: _____

Circle or Add Analysis(es) Requested
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TAT: A = Overnight ≤ 24 hrs B = Emergency Next Workday C = Critical 2 Workdays D = Urgent 3 Workdays E = Routine 7 Workdays

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 Attention: Josh Goodwin
 Project Name: Western Placerville Interchange

Address: 3160 Gold Valley Drive, Suite 800
 City: Rancho Cordova State: CA Zip Code: 95742
 Sampler: (Printed Name) JOSH GOODWIN

Method of Transport
 Client ATL CA OverN FedEx Other:

Sample Condition Upon Receipt
 1. CHILLED 4. SEALED Y N
 2. HEADSPACE (VOA) 5. # OF SPLS

September 23, 2009



Josh Goodwin
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
TEL: (916) 852-9118
FAX: (916) 852-9132

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 107324

RE: Western Placerville Interchange, S9420-06-01

Attention: Josh Goodwin

Enclosed are the results for sample(s) received on September 10, 2009 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

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 is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



LEAD BY ATOMIC ABSORPTION (TCLP)

ANALYTICAL RESULTS

EPA 1311/ 7420

CLIENT:	Geocon Consultants, Inc.	Lab Order:	107324
Project:	Western Placerville Interchange, S9420-06-01	Date Received	9/10/2009 12:48:15 PM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
107324-031A	B13-0	1.7	mg/L	58338	0.25	1	9/9/2009	9/23/2009
107324-062A	B14-0	4.0	mg/L	58338	0.25	1	9/9/2009	9/23/2009

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: 23-Sep-09

CLIENT: Geocon Consultants, Inc.

Work Order: 107324

Project: Western Placerville Interchange, S9420-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: MB-58338A	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 9/22/2009	RunNo: 113221						
Client ID: PBS	Batch ID: 58338	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 9/23/2009	SeqNo: 1790176						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: MB-58322A TCLP	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 9/22/2009	RunNo: 113221						
Client ID: PBS	Batch ID: 58338	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 9/23/2009	SeqNo: 1790177						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: LCS-58338	SampType: LCS	TestCode: 7420_TC	Units: mg/L	Prep Date: 9/22/2009	RunNo: 113221						
Client ID: LCSS	Batch ID: 58338	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 9/23/2009	SeqNo: 1790178						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.052	0.25	1.000	0	105	80	120				

Sample ID: 106909-098A-DUP	SampType: DUP	TestCode: 7420_TC	Units: mg/L	Prep Date: 9/22/2009	RunNo: 113221						
Client ID: ZZZZZZ	Batch ID: 58338	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 9/23/2009	SeqNo: 1790185						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.266	0.25					1.309		3.30	20	

Sample ID: 106909-098A-MS	SampType: MS	TestCode: 7420_TC	Units: mg/L	Prep Date: 9/22/2009	RunNo: 113221						
Client ID: ZZZZZZ	Batch ID: 58338	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 9/23/2009	SeqNo: 1790186						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.857	0.25	2.500	1.309	102	70	130				

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoson Consultants, Inc.
Work Order: 107324
Project: Western Placerville Interchange, S9420-06-01

TestCode: 7420_TC

Sample ID: MB-58338B	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 9/22/2009	RunNo: 113221
Client ID: PBS	Batch ID: 58338	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 9/23/2009	SeqNo: 1790187
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	ND	0.25			
			LowLimit	HighLimit	RPD Ref Val
					%RPD
					RPDLimit
					Qual

Sample ID: MB-58322B TCLP	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 9/22/2009	RunNo: 113221
Client ID: PBS	Batch ID: 58338	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 9/23/2009	SeqNo: 1790188
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	ND	0.25			
			LowLimit	HighLimit	RPD Ref Val
					%RPD
					RPDLimit
					Qual

Sample ID: 107324-062A-DUP	SampType: DUP	TestCode: 7420_TC	Units: mg/L	Prep Date: 9/22/2009	RunNo: 113221
Client ID: B14-0	Batch ID: 58338	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 9/23/2009	SeqNo: 1790202
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	3.972	0.25			
			LowLimit	HighLimit	RPD Ref Val
					%RPD
					RPDLimit
					Qual

Sample ID: 107324-062A-MS	SampType: MS	TestCode: 7420_TC	Units: mg/L	Prep Date: 9/22/2009	RunNo: 113221
Client ID: B14-0	Batch ID: 58338	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 9/23/2009	SeqNo: 1790203
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	6.285	0.25	2.500	3.971	92.6
			LowLimit	HighLimit	RPD Ref Val
					%RPD
					RPDLimit
					Qual

Sample ID: 107324-062A-MSD	SampType: MSD	TestCode: 7420_TC	Units: mg/L	Prep Date: 9/22/2009	RunNo: 113221
Client ID: B14-0	Batch ID: 58338	TestNo: EPA 1311/74 EPA3010A		Analysis Date: 9/23/2009	SeqNo: 1790204
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	6.211	0.25	2.500	3.971	89.6
			LowLimit	HighLimit	RPD Ref Val
					%RPD
					RPDLimit
					Qual

Qualifiers:

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- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



Diane Galvan

From: Gemma Reblando [reblando@geoconinc.com]
Sent: Thursday, September 17, 2009 9:44 AM
To: Diane Galvan
Subject: FW: TTLC/pH Results/EDD - Western Placerville Interchange (107324)

Hi Diane – in addition to WET soluble lead analysis of samples with total lead greater than or equal to 50 mg/kg (per COC), please analyze samples B14-0 (107324-062A) and B13-0 (107324-031A) for TCLP soluble lead under standard seven-day TAT (non-Caltrans).
Thanks.

Gemma Reblando

Project Geologist

Please visit our new website at <http://www.geoconinc.com>

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
916.852.9118 Tel
916.852.9132 Fax
916.396.8476 Mobile



GEOTECHNICAL - ENVIRONMENTAL - MATERIALS

San Diego Murrieta Burbank Bakersfield Sacramento Livermore Carson City Las Vegas Portland

CONFIDENTIALITY NOTICE: This email may contain confidential and privileged material for the sole use of the intended recipient (s). Any review, use, distribution or disclosure by others is strictly prohibited. If you have received this communication in error, please notify the sender immediately by email and delete the message and any file attachments from your computer. Thank you.

September 30, 2009



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

TEL: (916) 852-9118
FAX: (916) 852-9132

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 107324

RE: Western Placerville Interchange, S9420-06-01

Attention: Josh Goodwin

Enclosed are the results for sample(s) received on September 10, 2009 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

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,

A handwritten signature in black ink, appearing to read "E. Rodriguez", is positioned above the typed name.

Eddie F. Rodriguez
Laboratory Director

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



CLIENT: Geocon Consultants, Inc.
Project: Western Placerville Interchange, S9420-06-01
Lab Order: 107324

CASE NARRATIVE

Analytical Comments for Method 7420

Dilution was necessary for sample 107324-022A, due to sample matrix.



ANALYTICAL RESULTS

**LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	107324
Project:	Western Placerville Interchange, S9420-06-01	Date Received	9/10/2009 12:48:15 PM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
107324-004A	B2-0	0.57	mg/L	58467	0.25	1	9/9/2009	9/28/2009
107324-016A	B7-0	4.6	mg/L	58467	0.25	1	9/9/2009	9/28/2009
107324-019A	B8-0	0.71	mg/L	58467	0.25	1	9/9/2009	9/28/2009
107324-022A	B9-0	9.5	mg/L	58467	0.50	2	9/9/2009	9/28/2009
107324-028A	B12-0	1.8	mg/L	58467	0.25	1	9/9/2009	9/28/2009
107324-031A	B13-0	ND	mg/L	58467	0.25	1	9/9/2009	9/28/2009
107324-032A	B13-1	5.1	mg/L	58468	0.25	1	9/9/2009	9/28/2009
107324-045A	B19-0	ND	mg/L	58468	0.25	1	9/9/2009	9/28/2009
107324-047A	B20-0	0.89	mg/L	58468	0.25	1	9/9/2009	9/28/2009
107324-049A	B21-0	0.53	mg/L	58468	0.25	1	9/9/2009	9/28/2009
107324-054A	B23-0	ND	mg/L	58468	0.25	1	9/9/2009	9/28/2009
107324-059A	B25-0	ND	mg/L	58468	0.25	1	9/9/2009	9/28/2009
107324-061A	B10-0	ND	mg/L	58468	0.25	1	9/9/2009	9/28/2009

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: 30-Sep-09

CLIENT: Geocon Consultants, Inc.

Work Order: 107324

Project: Western Placerville Interchange, S9420-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI_GEOCON

Sample ID: MB-58467A	SampType: MBLK	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 9/25/2009	RunNo: 113380						
Client ID: PBS	Batch ID: 58467	TestNo: WET DI/ EPA WET		Analysis Date: 9/28/2009	SeqNo: 1793372						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: LCS-58467	SampType: LCS	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 9/25/2009	RunNo: 113380						
Client ID: LCSS	Batch ID: 58467	TestNo: WET DI/ EPA WET		Analysis Date: 9/28/2009	SeqNo: 1793373						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.958	0.25	5.000	0	99.2	80	120				

Sample ID: 107234-025A-DUP	SampType: DUP	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 9/25/2009	RunNo: 113380						
Client ID: ZZZZZZ	Batch ID: 58467	TestNo: WET DI/ EPA WET		Analysis Date: 9/28/2009	SeqNo: 1793384						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25				0	0	20			

Sample ID: 107234-025A-MS	SampType: MS	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 9/25/2009	RunNo: 113380						
Client ID: ZZZZZZ	Batch ID: 58467	TestNo: WET DI/ EPA WET		Analysis Date: 9/28/2009	SeqNo: 1793385						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.272	0.25	5.000	0	105	70	130				

Sample ID: MB-58467B	SampType: MBLK	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 9/25/2009	RunNo: 113380						
Client ID: PBS	Batch ID: 58467	TestNo: WET DI/ EPA WET		Analysis Date: 9/28/2009	SeqNo: 1793386						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

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



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geocon Consultants, Inc.
Work Order: 107324

Project: Western Placerville Interchange, S9420-06-01

TestCode: 7420_DI_GEOCON

Sample ID: 107324-031A-DUP	SampType: DUP	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 9/25/2009	RunNo: 113380						
Client ID: B13-0	Batch ID: 58467	TestNo: WET DI/ EPA WET		Analysis Date: 9/28/2009	SeqNo: 1793397						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25				0			0		20

Sample ID: 107324-031A-MS	SampType: MS	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 9/25/2009	RunNo: 113380						
Client ID: B13-0	Batch ID: 58467	TestNo: WET DI/ EPA WET		Analysis Date: 9/28/2009	SeqNo: 1793398						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.439	0.25	5.000	0	109	70	130				

Sample ID: 107324-031A-MSD	SampType: MSD	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 9/25/2009	RunNo: 113380						
Client ID: B13-0	Batch ID: 58467	TestNo: WET DI/ EPA WET		Analysis Date: 9/28/2009	SeqNo: 1793399						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.555	0.25	5.000	0	111	70	130	5.439	2.12		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



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geoson Consultants, Inc.
Work Order: 107324

Project: Western Placerville Interchange, S9420-06-01

TestCode: 7420_DI_GEOCON

Sample ID: MB-58468A	SampType: MBLK	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 9/25/2009	RunNo: 113381
Client ID: PBS	Batch ID: 58468	TestNo: WET DI/ EPA WET		Analysis Date: 9/28/2009	SeqNo: 1793400
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	ND	0.25			
			LowLimit	HighLimit	RPD Ref Val
					%RPD
					RPDLimit
					Qual

Sample ID: LCS-58468	SampType: LCS	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 9/25/2009	RunNo: 113381
Client ID: LCSS	Batch ID: 58468	TestNo: WET DI/ EPA WET		Analysis Date: 9/28/2009	SeqNo: 1793401
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	4.833	0.25	5.000	0	96.7
			LowLimit	HighLimit	RPD Ref Val
					%RPD
					RPDLimit
					Qual

Sample ID: 107324-061A-DUP	SampType: DUP	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 9/25/2009	RunNo: 113381
Client ID: B10-0	Batch ID: 58468	TestNo: WET DI/ EPA WET		Analysis Date: 9/28/2009	SeqNo: 1793409
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	ND	0.25			
			LowLimit	HighLimit	RPD Ref Val
					%RPD
					RPDLimit
					Qual

Sample ID: 107324-061A-MS	SampType: MS	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 9/25/2009	RunNo: 113381
Client ID: B10-0	Batch ID: 58468	TestNo: WET DI/ EPA WET		Analysis Date: 9/28/2009	SeqNo: 1793410
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	5.422	0.25	5.000	0	108
			LowLimit	HighLimit	RPD Ref Val
					%RPD
					RPDLimit
					Qual

Sample ID: MB-58468B	SampType: MBLK	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 9/25/2009	RunNo: 113381
Client ID: PBS	Batch ID: 58468	TestNo: WET DI/ EPA WET		Analysis Date: 9/28/2009	SeqNo: 1793411
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
	ND	0.25			
			LowLimit	HighLimit	RPD Ref Val
					%RPD
					RPDLimit
					Qual

Lead

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
 - H Holding times for preparation or analysis exceeded
- Calculations are based on raw values



ANALYTICAL QC SUMMARY REPORT

CLIENT: Geocon Consultants, Inc.
Work Order: 107324

Project: Western Placerville Interchange, S9420-06-01

TestCode: 7420_DI_GEOCON

Sample ID: 107340-030A-DUP	SampType: DUP	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 9/25/2009	RunNo: 113381						
Client ID: ZZZZZZ	Batch ID: 58468	TestNo: WET DI/ EPA WET		Analysis Date: 9/28/2009	SeqNo: 1793416						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25				0			0		20

Sample ID: 107340-030A-MS	SampType: MS	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 9/25/2009	RunNo: 113381						
Client ID: ZZZZZZ	Batch ID: 58468	TestNo: WET DI/ EPA WET		Analysis Date: 9/28/2009	SeqNo: 1793417						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.792	0.25	5.000	0	95.8	70	130				

Sample ID: 107340-030A-MSD	SampType: MSD	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 9/25/2009	RunNo: 113381						
Client ID: ZZZZZZ	Batch ID: 58468	TestNo: WET DI/ EPA WET		Analysis Date: 9/28/2009	SeqNo: 1793418						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.860	0.25	5.000	0	97.2	70	130	4.792	1.40		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



Diane Galvan

From: Gemma Reblando [reblando@geoconinc.com]
Sent: Thursday, September 24, 2009 4:43 PM
To: Diane Galvan
Subject: Additional Results/EDD - Western Placerville Interchange (107324)

Hi Diane – please analyze the following soil samples for DI-WET soluble lead under standard seven-day TAT (non-Caltrans).

107324-004A
107324-016A
107324-019A
107324-022A
107324-028A
107324-031A
107324-032A
107324-045A
107324-047A
107324-049A
107324-054A
107324-059A
107324-061A

Thanks.

Gemma Reblando

Project Geologist

Please visit our new website at <http://www.geoconinc.com>

Geocon Consultants, Inc.

3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
916.852.9118 Tel
916.852.9132 Fax
916.396.8476 Mobile



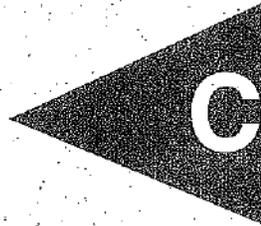
GEOTECHNICAL - ENVIRONMENTAL - MATERIALS

San Diego Murrieta Burbank Bakersfield Sacramento Livermore Carson City Las Vegas Portland

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9/24/2009

APPENDIX



DESCRIPTION OF DATA SET

Project Name: Western Placerville Interchange Project
Project No.: S9420-06-01
Sample Interval: 0.0 to 0.5 ft
Eastbound SR-50 - Borings B1 through B12

DATA SET STATISTICS

Number of Valid Samples	12
Number of Distinct Samples	12
Minimum	2.5
Maximum	360
Mean	145.7916667
Median	102
Standard Deviation	125.7077162
Variance	15802.42992
Coefficient of Variation	0.862242123
Skewness	0.749122557
Mean of log data	4.421083129
Standard Deviation of log data	1.401791234
 90% Non-parametric UCLs	
Standard Bootstrap UCL	190.3907492
 95% Non-parametric UCLs	
Standard Bootstrap UCL	202.5697618

DESCRIPTION OF DATA SET

Project Name: Western Placerville Interchange Project
Project No.: S9420-06-01
Sample Interval: 1.0 to 1.5 ft
Eastbound SR-50 - Borings B1 through B12

DATA SET STATISTICS

Number of Valid Samples	11
Number of Distinct Samples	6
Minimum	2.5
Maximum	25
Mean	6.754545455
Median	2.5
Standard Deviation	7.168593
Variance	51.388727
Coefficient of Variation	1.061299
Skewness	2.047160
Mean of log data	1.541914
Standard Deviation of log data	0.830168

90% Non-parametric UCLs

Standard Bootstrap UCL 9.381009848

95% Non-parametric UCLs

Standard Bootstrap UCL 10.26102349

DESCRIPTION OF DATA SET

Project Name: Western Placerville Interchange Project
Project No.: S9420-06-01
Sample Interval: 2.0 to 2.5 ft
Eastbound SR-50 - Borings B1 through B12

DATA SET STATISTICS

Number of Valid Samples	8
Number of Distinct Samples	4
Minimum	2.5
Maximum	9.1
Mean	4.25
Median	2.5
Standard Deviation	2.602746
Variance	6.774286
Coefficient of Variation	0.612411
Skewness	1.165106
Mean of log data	1.303250
Standard Deviation of log data	0.550802

90% Non-parametric UCLs

Standard Bootstrap UCL 5.354761722

95% Non-parametric UCLs

Standard Bootstrap UCL 5.640426213

SUMMARY OF STATISTICAL ANALYSIS
 WESTERN PLACERVILLE INTERCHANGE PROJECT
 EL DORADO COUNTY, CALIFORNIA

EASTBOUND SR-50 - Borings B1 through B12

Total Lead UCLs (mg/kg)		
Sample Interval (feet)	90% UCL	95% UCL
0 to 0.5	190.4	202.6
1.0 to 1.5	9.4	10.3
2.0 to 2.5	5.4	5.6

Excavation Scenarios				
Excavation Depth	90% UCL		95% UCL	
	Total Lead (mg/kg)	WET Soluble Lead * (mg/l)	Total Lead (mg/kg)	WET Soluble Lead * (mg/l)
0.0 to 0.5 foot	190.4	11.4	202.6	12.1
Underlying Soil (0.5 to 2.5 feet)	53.7	3.2	57.2	3.4
0.0 to 1.0 foot	190.4	11.4	202.6	12.1
Underlying Soil (1.0 to 2.5 feet)	8.1	0.5	8.7	0.5
0.0 to 1.5 foot	130.1	7.8	138.5	8.3
Underlying Soil (1.5 to 2.5 feet)	7.4	0.4	8.0	0.5
0.0 to 2.0 foot	99.9	6.0	106.5	6.4
Underlying Soil (2.0 to 2.5 feet)	5.4	0.3	5.6	0.3
0.0 to 2.5 feet	81.0	4.8	86.3	5.2

Notes:

UCL = Upper Confidence Level

90% UCL applicable for waste classification and onsite reuse

95% UCL applicable for risk assessment and offsite disposal

mg/kg = milligrams per kilogram

mg/l = milligrams per liter

* = WET soluble lead concentrations were predicted using slope of the regression line,

where y = predicted WET soluble lead and x = total lead

Regression Line Slope: $y = 0.0598 x$

DESCRIPTION OF DATA SET

Project Name: Western Placerville Interchange Project
Project No.: S9420-06-01
Sample Interval: 0.0 to 0.5 ft
Westbound SR-50 - Borings B13 through B25

DATA SET STATISTICS

Number of Valid Samples	13
Number of Distinct Samples	13
Minimum	27
Maximum	2400
Mean	359.2307692
Median	170
Standard Deviation	640.2327902
Variance	409898.0256
Coefficient of Variation	1.782232607
Skewness	3.133572141
Mean of log data	5.051432985
Standard Deviation of log data	1.231836275
 90% Non-parametric UCLs	
Standard Bootstrap UCL	583.4989664
 95% Non-parametric UCLs	
Standard Bootstrap UCL	640.6945105

DESCRIPTION OF DATA SET

Project Name: Western Placerville Interchange Project
Project No.: S9420-06-01
Sample Interval: 1.0 to 1.5 ft
Westbound SR-50 - Borings B13 through B25

DATA SET STATISTICS

Number of Valid Samples	12
Number of Distinct Samples	10
Minimum	2.5
Maximum	440
Mean	46.85
Median	6.9
Standard Deviation	124.875112
Variance	15593.793640
Coefficient of Variation	2.665424
Skewness	3.365979
Mean of log data	2.249507
Standard Deviation of log data	1.483298

90% Non-parametric UCLs

Standard Bootstrap UCL 91.91456257

95% Non-parametric UCLs

Standard Bootstrap UCL 103.7509684

DESCRIPTION OF DATA SET

Project Name: Western Placerville Interchange Project
Project No.: S9420-06-01
Sample Interval: 2.0 to 2.5 ft
Westbound SR-50 - Borings B13 through B25

DATA SET STATISTICS

Number of Valid Samples	6
Number of Distinct Samples	3
Minimum	2.5
Maximum	8.2
Mean	4
Median	2.5
Standard Deviation	2.444586
Variance	5.976000
Coefficient of Variation	0.611146
Skewness	1.363968
Mean of log data	1.254526
Standard Deviation of log data	0.535311

90% Non-parametric UCLs

Standard Bootstrap UCL 5.136851003

95% Non-parametric UCLs

Standard Bootstrap UCL 5.50690815

SUMMARY OF STATISTICAL ANALYSIS
 WESTERN PLACERVILLE INTERCHANGE PROJECT
 EL DORADO COUNTY, CALIFORNIA

WESTBOUND SR-50 - Borings B13 through B25

Total Lead UCLs (mg/kg)		
Sample Interval (feet)	90% UCL	95% UCL
0 to 0.5	583.5	640.7
1.0 to 1.5	91.9	103.8
2.0 to 2.5	5.1	5.5

Excavation Scenarios				
Excavation Depth	90% UCL		95% UCL	
	Total Lead (mg/kg)	WET Soluble Lead * (mg/l)	Total Lead (mg/kg)	WET Soluble Lead * (mg/l)
0.0 to 0.5 foot	583.5	34.9	640.7	38.3
Underlying Soil (0.5 to 2.5 feet)	193.1	11.5	213.5	12.8
0.0 to 1.0 foot	583.5	34.9	640.7	38.3
Underlying Soil (1.0 to 2.5 feet)	63.0	3.8	71.0	4.2
0.0 to 1.5 foot	419.6	25.1	461.7	27.6
Underlying Soil (1.5 to 2.5 feet)	48.5	2.9	54.7	3.3
0.0 to 2.0 foot	337.7	20.2	372.3	22.3
Underlying Soil (2.0 to 2.5 feet)	5.1	0.3	5.5	0.3
0.0 to 2.5 feet	271.2	16.2	298.9	17.9

Notes:

UCL = Upper Confidence Level

90% UCL applicable for waste classification and onsite reuse

95% UCL applicable for risk assessment and offsite disposal

mg/kg = milligrams per kilogram

mg/l = milligrams per liter

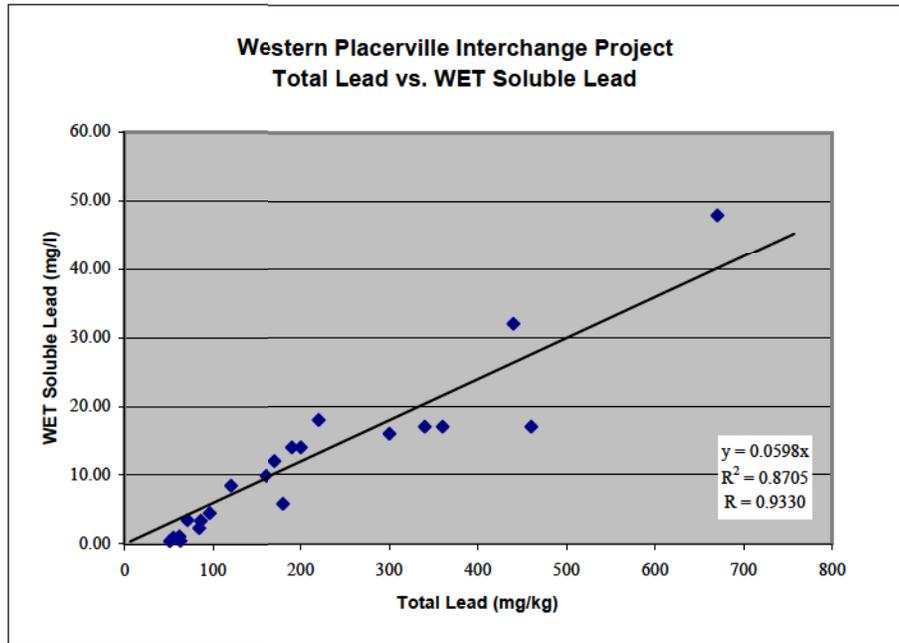
* = WET soluble lead concentrations were predicted using slope of the regression line,

where y = predicted WET soluble lead and x = total lead

Regression Line Slope: $y = 0.0598 x$

**Western Placerville Interchange Project
S9420-06-01**

Sample ID	Total Lead	WET Lead
B5-0	51	0.40
B22-0	63	0.47
B18-0	55	0.93
B19-1	62	1.1
B1-0	84	2.3
B24-0	86	3.4
B3-0	71	3.5
B16-0	96	4.5
B20-0	180	5.8
B8-0	120	8.5
B2-0	160	9.9
B19-0	170	12
B12-0	190	14
B25-0	200	14
B10-0	300	16
B23-0	460	17
B7-0	360	17
B9-0	340	17
B21-0	220	18
B13-1	440	32
B13-0	670	48





**Aerially Deposited Lead,
Naturally Occurring Asbestos
and Lead Containing Paint
Site Investigation and
Bridge Survey Report**

**Highway 50 Site Investigation
Post Mile 2.90 to 8.79
El Dorado County, California**

PREPARED FOR:

**CALIFORNIA DEPARTMENT OF TRANSPORTATION
DISTRICT 3
703 B STREET, P.O. BOX 911
MARYSVILLE, CALIFORNIA**



PREPARED BY:

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



**GEOCON PROJECT NO. S9300-06-22
TASK ORDER NO. 22, CONTRACT NO. 03A1368**

MARCH 2008

Project No. S9300-06-22
March 27, 2008

Mr. Rajive Chadha
California Department of Transportation – District 3
Environmental Engineering Office
P.O. Box 911
Marysville, California 95901

Subject: HIGHWAY 50 SITE INVESTIGATION, POST MILE 2.90 TO 8.79
EL DORADO COUNTY, CALIFORNIA
CONTRACT NO. 03A1368
TASK ORDER NO. 22, EA 03-3A7121
AERIALY DEPOSITED LEAD, NATURALLY OCCURRING ASBESTOS, AND
LEAD-CONTAINING PAINT SITE INVESTIGATION AND BRIDGE SURVEY
REPORT

Dear Mr. Chadha:

In accordance with California Department of Transportation Contract No. 03A1368, Task Order No. 22, Expenditure Authorization 03-3A7121, we have performed environmental engineering services at the project site. The Site consists of the Highway 50 right-of-way in El Dorado County, California, from Post Mile 2.90 to 8.79. The accompanying report summarizes the services performed including a geological reconnaissance, the excavation of 100 direct-push borings and four hand-auger borings for the collection of samples for aerially deposited lead, naturally occurring asbestos and Title 22 Metals analysis; and the collection of five yellow traffic stripe paint-chip samples for lead and chromium analysis. Additionally, a bridge survey report prepared in February of 2000 is attached to this report as an Appendix.

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.

David W. Bieber, PGP, CEG, CHG
Senior Geologist

Ian M. Stevenson, PG
Project Geologist

IMS:DWB:jaj

(5 + 3CD) Addressee

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APPENDICES

- A. February 2000, Highway 50 Bridge Sites, Asbestos and Lead-based Paint Survey Report
- B. Laboratory Reports and Chain-of-custody Documentation
- C. Lead Statistics Results

AERIALY DEPOSITED LEAD, NATURALLY OCCURRING ASBESTOS, AND LEAD-CONTAINING PAINT SITE INVESTIGATION AND BRIDGE SURVEY REPORT

1.0 INTRODUCTION

This Aerially Deposited Lead (ADL), Naturally Occurring Asbestos (NOA), and Lead-containing Paint (LCP) Site Investigation and Bridge Survey Report was prepared under California Department of Transportation (Caltrans) Contract No. 03A1368 and Task Order (TO) No. 22, Expenditure Authorization 03-3A7121.

1.1 Project Description and Proposed Improvements

The Site consists of the Caltrans right-of-way along Highway 50 (ED-50) (the Site) from Post Mile (PM) 2.90 to 8.79, in El Dorado County, California. The approximate project location is depicted on the attached Vicinity Map, Figure 1. The Site and major roadway features are depicted on the Site Plans, Figure 2-1 through 2-15. Proposed improvements include the construction of high occupancy vehicle (HOV) lanes from west of the Bass Lake Road Undercrossing to east of the Ponderosa Road Undercrossing, and the construction of additional soundwalls along the westbound roadway shoulder.

1.2 General Objectives

The construction of an HOV lane and associated bridge and shoulder improvements along ED-50 will require the disturbance of soil, rock outcrops, and existing pavement at the Site. The purpose of the scope of services outlined in TO No. 22 was to evaluate the Site for potential impacts due to ADL from motor vehicle exhaust in the surface and near surface soils, evaluate the Site for the presence of NOA derived from serpentine and ultramafic rock within and adjacent to the project boundaries, evaluate proposed soundwall locations for NOA and Title 22 metals including lead associated with ADL, and evaluate the yellow median traffic stripe paint for lead and chromium content. An asbestos-containing material (ACM) investigation was previously conducted under Caltrans Contract No. 43A0012 and TO 03-3A7100-CR for the Bass Lake Road and Cameron Park Undercrossings. The report *Highway 50 Bridge Sites, El Dorado County, California*, dated February 3, 2000, is presented in Appendix A. The investigative results provided in this report will be used by Caltrans to inform the construction contractor if lead, NOA, or Title 22 metals-impacted soils, lead- or chromium-containing traffic stripe paint, or ACMs are present within the project boundaries for health, safety and disposal purposes.

2.0 BACKGROUND

The regulatory criteria used to classify a waste as “California hazardous” for handling and disposal purposes are contained in 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, Section 261.

2.1 Potential Lead Soil Impacts

Ongoing testing by Caltrans has indicated that ADL exists along major freeway routes due to emissions from vehicles powered by leaded gasoline.

For waste containing metals, the waste is classified as California hazardous 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 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. However, if sufficient data is available to perform a statistical evaluation of the probability that the metals content of a waste material will not exceed ten times the STLC, WET analysis is not required on the individual samples used to characterize that waste material. 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.

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 corrosivity. Waste that is classified as either California hazardous or RCRA hazardous requires management as a hazardous waste.

The Department of Toxic Substances Control (DTSC) regulates and interprets hazardous waste laws in California. DTSC generally considers excavated or transported materials that exhibit “hazardous waste” characteristics to be a “waste” requiring proper management, treatment and disposal. Soil that contains lead above hazardous waste thresholds and is left in-place would not be necessarily classified by DTSC as a “waste.” The DTSC has provided site-specific determinations that “movement of wastes within an area of contamination does not constitute “land disposal” and, thus, does not trigger hazardous waste disposal requirements.” Therefore, lead-impacted soil that is scarified in-place, moisture-conditioned and recompacted during roadway improvement activities might not be considered a “waste.” DTSC should be consulted to confirm waste classification. It is noted that in addition to DTSC regulations, health and safety requirements and other local agency requirements may also apply to the handling and disposal of lead-impacted soil.

2.2 Naturally Occurring Asbestos

The California Air Resources Board (CARB) has mitigation practices outlined in Title 17 CCR, Section 93105 for construction, grading, quarrying, and surface mining operations that may disturb natural occurrences of asbestos. NOA potentially poses a health hazard when it becomes an airborne particulate. The roadway improvement activities proposed on the Site could disturb NOA-containing rock and soil, thereby potentially creating an airborne asbestos hazard. 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 an approved high efficiency particulate air filter equipped respirator is required during construction activities. Asbestos dust control methods similar to those in Title 17 CCR, Section 93105 are outlined in Title 17 CCR, Section 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 17 CCR 93106 and 17 CCR 93105 if it is buried under at least 0.25 foot of material that contains less than 0.25% NOA.

2.3 Lead and Chromium-containing Paint

Yellow traffic stripe paint utilized by Caltrans may contain lead-chromate. The presence of elevated lead and chromium requires sampling and analytical testing of the paint stripe materials to determine appropriate health and safety procedures and proper management and disposal practices. Disposal of removed traffic stripe paint materials is dependent on the method utilized to remove these materials (i.e. focused stripe removal vs. pavement grinding).

3.0 SCOPE OF SERVICES

The scope of services requested by Caltrans in TO No. 22 included the collection of soil samples for analysis to determine lead, asbestos, and Title 22 metals content; the collection of traffic stripe paint samples for analysis to determine lead and chromium content; the performance of a geologic assessment of the Site to help determine whether potentially asbestos-bearing soil or rocks are present, and the preparation of this report.

3.1 Pre-field Activities

- Conducted a Task Order Meeting on November 20, 2007, to discuss the TO scope of services. Caltrans Quality Assurance (QA) Manager Rajive Chadha, and Geocon field manager Ian

Stevenson attended the meeting. The purpose of the Task Order Meeting was to identify and observe the project boundaries and conditions and mark the project limits with white paint.

- Prepared a *Health and Safety Plan* dated November 21, 2007, to provide guidelines on the use of personal protective equipment and the health and safety procedures implemented during the field activities.
- Prepared a *Workplan* dated November 26, 2007, which describes the requested scope of services and quality assurance/quality control (QA/QC) sampling and laboratory procedures.
- Reviewed existing geological maps and studies of the Site and surrounding areas for information on the potential presence of NOA.
- Provided 48-hour notification to Underground Service Alert prior to job site mobilization.
- Retained the services of Creek Environmental Laboratories, Inc. (Creek), a Caltrans-approved and California-certified analytical laboratory, to perform the chemical analyses of samples.
- Retained the services of EMSL Inc., a Caltrans-approved and California-certified analytical laboratory, to perform the asbestos analyses of samples.

3.2 Field Activities

A preliminary geological reconnaissance was performed on November 20, 2007, by Ian Stevenson, a California, Professional Geologist (PG No. 8203) with experience in the assessment of NOA. On November 26 and 27, 2007, and January 15 and 16, 2008, we collected 260 soil samples for lead analysis and 36 soil samples for Title 22 metals analysis from 100 direct-push borings and 4 hand-auger borings; 189 soil samples from the direct-push and hand-auger borings and one rock chip sample for asbestos analysis; and 5 traffic stripe paint samples for LCP analysis were collected from the yellow median stripe.

Following sample collection, the borings were backfilled with the soil cuttings. Details of the field activities are presented in the following sections.

The sample locations were selected in the field by the Geocon field supervisor and Caltrans QA Manager. The locations of the borings were determined using a differential global positioning system (GPS) capable of providing a horizontal position with an error of no more than 3.3 feet (ft).

4.0 INVESTIGATIVE METHODS

4.1 ADL Investigation

We collected 260 soil samples for lead analysis from 100 direct-push borings and 4 hand-auger borings advanced at the Site. We advanced 48 direct-push borings (B18 through B20, B134 through B181) along the median of westbound ED-50, and 44 direct-push borings (B16 through B17, B50 through B91) along the median of eastbound ED-50 for the collection of soil samples for lead analysis.

Eight direct-push borings (B187 through B194) and four hand-auger borings (B46 through B49) were advanced along the westbound shoulder of ED-50 at proposed sound-wall locations for Title 22 Metals analysis.

The position in latitude and longitude of each boring, as determined using the GPS, is identified on the Summary of Soil Boring and Traffic Stripe Paint Sample Coordinates, Table 1. A Summary of Lead and Soil pH Analytical Results is presented in Table 2. A Summary of Title 22 Metals Analytical Results is presented in Table 3. The approximate soil boring locations are depicted on Figures 2-1 through 2-15. The soil borings were advanced to an approximate maximum depth of 3.0 ft, using a direct-push rig or hand-auger. We collected the soil samples for lead analysis at general depths of 0.0 to 1.0 foot, 1.0 to 2.0 ft and 2.0 to 3.0 ft.

Borings were spaced at approximate 650-foot intervals along the unpaved median of east- and westbound ED-50. Borings were alternately drilled near the edge of pavement and approximately 15 feet into the median. Samples were generally composited by the laboratory four at a time by depth and proximity to edge of pavement. Borings in proposed soundwall locations were spaced at even intervals to facilitate the collection of four samples per wall.

Soil samples obtained from the direct-push borings were collected in cellulose thermoplastic (acetate) liners driven by the direct-push rig. After we collected a soil sample, the acetate liner that contained it was cut to separate the sub-samples by depth, then the sample from a particular interval was opened and transferred to a Ziploc[®] re-sealable plastic bag. The soil samples were field homogenized within the sample bags and subsequently labeled, placed in a chilled cooler, and delivered to Creek for analytical testing accompanied by chain-of-custody (COC) documentation.

4.2 NOA Investigation

Prior to sample collection, Ian Stevenson conducted a reconnaissance assessment of the rock and soil types present on the Site. Geologic conditions and materials conducive to the possible formation of NOA were observed throughout the length of the Site.

One hundred and eighty-nine soil samples were collected for asbestos analysis from 100 direct-push and 4 hand-auger borings from general depths of 0 to 1 foot and 2 to 3 ft. Additionally, one rock chip sample was collected from an outcrop in the median west of Bass Lake Road. The samples for NOA analysis were collected from 56 direct-push borings and 4 hand-auger borings advanced along the unpaved median and shoulder of westbound ED-50, and 44 direct-push borings advanced along the unpaved median of eastbound ED-50. Samples were generally collected in groups to be composited by the laboratory by depth and approximate PM range. The sample composites for NOA analysis are presented in Table 4, Summary of Asbestos Analytical Results.

The direct-push and hand-auger samples were composited by mile and depth. The samples collected for asbestos analysis from the east and westbound medians were segregated by depth and composited into groups of two samples by post mile. Samples for asbestos analysis were taken as splits from the samples collected for lead analysis. Each split was transferred directly from the original Ziploc[®] re-sealable plastic bag to a second one-quart Ziploc[®] re-sealable plastic bag.

The individual sample bags were labeled with a sample identification number, and the date and time collected. Samples for asbestos analysis were delivered to EMSL for asbestos analysis under COC protocol.

4.3 Lead and Chromium-containing Paint Investigation

Five paint samples for lead and chromium analysis were collected from the yellow traffic stripe. Two paint samples were collected from the yellow traffic stripe from east bound ED-50 and three paint samples were collected from the yellow traffic stripe of westbound ED-50. Samples were chipped from the pavement with a hammer and placed in a Ziploc[®] re-sealable plastic bag, labeled with sample identification, and the date and time of collection. Samples were delivered to Creek for analysis under COC protocol. Lead and chromium results are presented in Table 5, Summary of Traffic Stripe Paint Sample Analytical Results – Lead and Chromium.

4.4 Traffic Control

Caltrans maintenance provided an attenuator truck for traffic control during the field work.

4.5 Quality Assurance/Quality Control Procedures

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

4.6 Laboratory Analyses

4.6.1 Aerially Deposited Lead Samples

The soil samples for lead analysis were analyzed by Creek on a ten-day turn-around-time (TAT) basis for the following analysis:

- Two hundred and sixty soil samples were analyzed as 71 composite samples for total lead following United States Environmental Protection Agency (EPA) Test Method 6010B.
- Eight randomly selected soil samples were analyzed for soil pH using EPA Test Method 9045.
- Six samples were analyzed for WET soluble lead following EPA Test Method 6020.
- Thirty-six soil samples from three proposed sound-wall locations were analyzed as nine composite samples for Title 22 metals following EPA Test Method 6020.

4.6.2 Naturally Occurring Asbestos Samples

Soil samples were submitted to EMSL for asbestos fiber analysis by CARB Method 435 on a six- to ten-day TAT basis. The CARB 435 preparation includes milling the sample to a -200 mesh size which also homogenizes the sample. EMSL analyzed the samples as follows:

- One hundred and eighty-nine soil samples were analyzed as 30 composite samples by the polarized light microscopy (PLM) method for asbestos by CARB Method 435 (CARB 435). The analytical sensitivity of the PLM analysis was 0.25% by area.
- One rock chip sample was analyzed by the PLM method by CARB 435. The analytical sensitivity of the PLM analysis was 0.25% by area.

4.6.3 Lead and Chromium-containing Paint Samples

Five yellow median traffic stripe paint samples, two from the eastbound yellow stripe and three from westbound yellow stripe, were analyzed by Creek on a ten-day TAT for total lead and chromium following EPA Test Method 6010B.

4.6.4 Laboratory QA/QC Procedures

QA/QC procedures were performed 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 various metals analyses 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 laboratory, the chain-of-custody documentation was reviewed for accuracy and completeness. Reproductions of the laboratory reports and chain-of-custody documentation are presented in Appendix B.

5.0 FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS

5.1 Site Geology

We reviewed the California Geological Survey's (CGS) *Geologic Map of the Sacramento Quadrangle* (CGS 1987) prior to beginning the field work to gather information regarding the potential presence of NOA on the Site. The depicted geologic materials on or adjacent to the Site as shown on the *Sacramento Quadrangle* are primarily Mesozoic Gabbroic and Ultramafic rocks and Jurassic Metavolcanic rocks. Minor Jurassic Metasedimentary rocks are also mapped at the Site.

The *El Dorado County Asbestos Review Areas Map* was also reviewed. The area from Bass Lake Road to Deer Creek approximately 0.4 mile east of Cambridge Road is within a *Quarter Mile Buffer Zone for More Likely to Contain Asbestos or Fault Line* area or *More Likely to Contain Asbestos* area. Approximately 0.7 mile east of Cambridge Road an additional 0.3 mile of ED-50 is within a *Quarter Mile Buffer Zone for More Likely to Contain Asbestos or Fault Line* area. The area from approximately 0.6 mile west of Ponderosa Road to PM 8.79 is within a *Quarter Mile Buffer Zone for More Likely to Contain Asbestos or Fault Line* area or *More Likely to Contain Asbestos* area.

Ian Stevenson performed a NOA assessment of the lithology of outcrops visible within the Caltrans right-of-way. The observed geology is consistent with that depicted on the *Sacramento Quadrangle*. Visible outcrops on the shoulder and within the remainder of the median of ED-50 consisted of gabbros and metavolcanics.

The soils encountered during the advancement of the direct-push and hand-auger borings were composed primarily of olive gray gravel with sand and yellowish brown clayey sand to brown sand with silt. Groundwater was not encountered during the investigation.

5.2 ADL Soil Analytical Results

Total lead was detected in 61 of the 71 composite soil samples analyzed at concentrations ranging from 0.5 to 150 milligrams per kilogram (mg/kg). Six of the 71 composite soil samples had a reported total lead concentration greater than 50 mg/kg (i.e., greater than ten times the STLC value for lead of 5.0 milligrams per liter [mg/l]). WET soluble lead was reported for each of the six samples analyzed with concentrations ranging from 2.1 to 6.0 mg/l. Soil pH values ranged from 6.9 to 7.7. Lead and pH analytical results are presented in Table 2. Thirty-six soil samples were additionally analyzed as nine composite samples by Creek for Title 22 metals. Cadmium, cobalt, copper, and vanadium were reported at levels above published background levels. Lead was reported at concentrations ranging from 0.9 to 95 mg/kg. The remainder of the Title 22 metals was reported at concentrations below published background levels. A Summary of Title 22 Metals Analytical Results is presented in Table 3. Laboratory reports and COC documentation are presented in Appendix B.

5.3 Statistical Evaluation for Lead Detected in Soil Samples

Statistical analysis was performed on two sample populations as requested by Caltrans. Sample population 'A' consists of soil samples collected along the median including borings B16 through B20, B50 through B91, B134 through B155 and B161 through B182. Sample population 'B' consists of soil samples collected along the westbound shoulder at proposed sound-wall locations and includes borings B46 through B49 and B187 through B194.

Statistical methods were applied to the total lead data to evaluate: 1) the upper confidence limits (UCLs) of the arithmetic means of the total lead concentrations for each sampling depth; and, 2) if an acceptable correlation between total and soluble lead concentrations exists that would allow the prediction of soluble lead concentrations based on calculated UCLs. The statistical methods used are discussed in a book entitled *Statistical Methods for Environmental Pollution Monitoring*, by Richard Gilbert; in an EPA *Technology Support Center Issue* document entitled, *The Lognormal Distribution in Environmental Applications*, by Ashok Singh et. al., dated December 1997; and in a book entitled *An Introduction to the Bootstrap*, by Bradley Efron and Robert J. Tibshirani.

5.3.1 Calculating the UCLs for the True Mean

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 the 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.

Non-parametric bootstrap techniques used to calculate the UCLs are discussed in the previously referenced EPA document and in *An Introduction to the Bootstrap*. For those samples in which total lead was not detected at concentrations exceeding the laboratory method detection limit, a value equal to one-half of the detection limit was used in the UCL calculation. The bootstrap results are presented in Appendix C. The calculated UCLs and statistical results are summarized in the table below:

Sample Population 'A'
**(Borings B16 through B20, B50 through B91, B134 through B155
and B161 through B182 - Median)**

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)
0.0 to 1.0	47.5	49.5	39.1	3.1	150
1.0 to 2.0	4.1	4.4	3.1	0.5	20
2.0 to 3.0	7.0	7.8	4.0	0.5	56

Sample Population B
(Borings B46 through B49 and B187 through B194 – Soundwall)

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)
0.0 to 3.0	35.6	38.7	21.7	0.9	95

* UCLs could not be calculated for each sample interval due to insufficient number of data, thus UCLs were calculated using all samples collected from this area.

5.4 NOA Results

Thirty composite soil samples were analyzed by EMSL for asbestos by the PLM method using the CARB 435 sample preparation method. An additional rock chip sample was analyzed by the PLM method and CARB 435 sample preparation. A summary of asbestos analytical results is presented in Table 4. Laboratory reports and COC documentation are presented in Appendix B.

One sample (NOA24) was reported to contain asbestos below the CARB regulatory action limit of 0.25% and the rest were reported as non-detect. TEM analysis was not performed on sample NOA24 because of the low percentage of asbestos reported. Additionally, TEM analysis is primarily used to determine the type of asbestos present and was not deemed necessary for this study.

5.5 Lead-containing Paint Sample Analytical Results

Five paint-chip samples were collected from the yellow median traffic stripe within the project boundaries. Paint-chip samples were analyzed for total lead and chromium. The analytical results of the LCP samples are summarized in Table 5. Laboratory reports and COC documentation are presented in Appendix B.

Total lead and chromium were detected in each sample submitted for analysis. Total lead was reported to range from 290 to 1,000 mg/kg, at or less than the California hazardous waste threshold (TTLC) for lead of 1,000 mg/kg. Total chromium was reported to range from 90 to 240 mg/kg, less than the

California hazardous waste threshold (TTLC) for chromium of 2,500 mg/kg. Since the samples were only collected for screening purposes, WET analysis was not performed.

5.6 Asbesto-containing Materials

The Bass Lake Road Undercrossing and the Cameron Park Undercrossing were investigated for ACMs under previous Caltrans Contract Number 43A0012 and TO 03-3A7100. Six guardrail shim samples were collected from the Bass Lake Road Undercrossing and five guardrail shim samples and two sheet packing samples were collected from the Cameron Park Undercrossing. The guardrail shim and sheet packing samples collected from the Bass Lake Road Undercrossing and Cameron Park Undercrossing were reported to contain 70% chrysotile asbestos by EPA Test Method 600/M4-82-020, PLM. A copy of the Asbestos Survey Report is presented in Appendix A.

5.7 Review of Laboratory QA/QC

We reviewed the Creek analytical laboratory QA/QC provided with the laboratory reports. The Creek Laboratory Quality Control Results show acceptable non-detect results for laboratory reagent blanks and acceptable recoveries for laboratory known samples. Matrix spike/matrix spike duplicate recoveries were reported below acceptable recovery limits for samples 07-C15375, 07-C15394, and 07-C15340. Duplicate samples 07-C15376 and 08-C912 were reported to have relative percent differences above the acceptable limit. However, the data are of sufficient quality for the purposes of this report. Based on this limited data review, no additional qualifications of the data presented herein are necessary.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Aerially Deposited Lead

Waste classifications based on the 90% UCL of the lead content for the relevant excavation depths has historically been considered sufficient to satisfy a good faith effort by the EPA as discussed in SW-846. Risk assessment characterization is typically based on the 95% UCL of the lead content in the waste for the relevant depths; this is in accordance with the Risk Assessment Guidance for Superfund (RAGS) Volume 1 Documentation for Exposure Assessment. Per Caltrans, the 90% UCLs are to be used to evaluate onsite reuse and the 95% UCLs are to be used to evaluate offsite disposal.

Soil materials excavated to a maximum depth of 3.0 ft would not be classified as a California hazardous waste since the calculated 90% total lead UCLs for the existing median and proposed shoulder soundwall areas are less than 50 mg/kg. Consequently, the top 3.0 ft of excavated soil could be reused or disposed as non-hazardous soil with respect to lead content.

6.2 Naturally Occurring Asbestos

The observed geology of the Site is indicative of a geologic environment where NOA minerals are likely to occur. One of the 31 composite soil and rock samples submitted for asbestos analysis were reported to contain chrysotile asbestos, though it was present below the regulatory limit of 0.25% by PLM. Although laboratory results are reported at less than 0.25%, they are the result of composite samples and the results may be higher or lower than the asbestos content of material at a specific location. However, Title 17 CCR, Section 93105 specifies that averaging of results is acceptable for characterization and compositing of samples is an accepted means of arriving at an average concentration. Therefore, the results of the composite analysis are acceptable for characterization of the NOA content of onsite materials with respect to handling and disposal.

Per Caltrans' requirements, to minimize the aerial dispersion of NOA the use of engineering controls as described in Title 17 CCR, Section 93105 will be required at the Site. Additionally, Caltrans requires the use of engineering controls including dust control/wet suppression for worker protection to minimize aerial dispersion of NOA fibers in planned work areas during excavation and grading activities at sites where NOA is present. However, since the average percent asbestos is less than 0.25% based on CARB 435 testing, soils generated from the site during construction may be reused onsite without restriction. If material is disposed of offsite, the accepting party must be notified that the material contains serpentine rock.

Construction/maintenance activities involving these asbestos-containing materials may fall under regulatory jurisdiction of the California Division of the Occupational Safety and Health Administration (Cal-OSHA) under CCR Title 8 Section 5208. Since NOA was detected on the Site,

Caltrans requires the use of engineering controls including dust control/wet suppression for worker protection to minimize aerial dispersion of NOA fibers in planned work areas during excavation and grading activities.

6.2.1 Asbestos Risk to Human Health

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 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 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 Title 17, Section 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 Title 17, Section 93105 and contact Cal-OSHA to establish the appropriate regulatory protocol and actions necessary for excavation and/or disturbance of asbestos-containing soils.

6.3 Yellow Traffic Stripe Paint Waste Classification/Disposal

The yellow traffic paint stripe was sampled per Caltrans' request since it may be removed from the underlying asphalt concrete by grinding or sand blasting, which would create a paint waste stream. The highest reported levels of total lead and total chromium for the yellow traffic stripe paint samples were 1,000 and 240 mg/kg, respectively. Lead and chromium are present in the traffic stripe paint and the removal operation may result in the generation of a regulated waste. Prior to disposal, the paint waste stream should be resampled to confirm waste classification in accordance with specific disposal facility acceptance criteria since the total lead and chromium concentrations cannot be predicted and the paint samples were not analyzed for WET soluble lead and chromium.

6.3.1 Worker Protection

Per Caltrans requirements, the contractor(s) should prepare a project-specific Lead Compliance Plan (CCR Title 8, Section 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.

Since material at the Site contains lead and/or chromium and according to Caltrans, the yellow thermoplastic and yellow paint may produce toxic fumes when heated, we recommend that a health and safety plan be prepared to minimize worker exposure. The health and safety plan should include a discussion of the constituents of concern, routes of exposure, permissible exposure limits, and personal protective measures. The health and safety plan should be reviewed and signed by the onsite construction workers prior to any field activities. We also recommend that contractors on the Site grinding asphalt which has been coated with yellow paint prepare a dust control plan. The dust control plan should include dust mitigation and monitoring procedures.

6.4 Asbestos-containing Materials

The results of the ACM survey for the Bass Lake Road Undercrossing and the Cameron Park Undercrossing is presented in Appendix A. The 11 guardrail shim and 2 sheet packing samples collected from the Bass Lake Road Undercrossing and Cameron Park Undercrossing were reported to contain 70% chrysotile asbestos.

Guardrail shims are classified as Category I ACM (nonfriable/nonhazardous material) – asbestos-containing packings, gaskets, resilient floor coverings, and asphalt roofing products. National Emissions Standards for Hazardous Air Pollutants regulations do not require that the Category I material identified during our survey be removed prior to demolition or treated as hazardous waste. However, the disturbance of the material is still covered by the Cal-OSHA asbestos standard. We recommend that a licensed demolition contractor registered with Cal-OSHA for asbestos-related work (or a licensed and certified asbestos abatement contractor) perform demolition activities if the asbestos-containing sheet packing identified during our survey is left in-place during demolition. Contractors are responsible for segregating and characterizing waste streams prior to disposal, and for informing a receiving landfill of the contractor's intent to dispose of asbestos-containing waste.

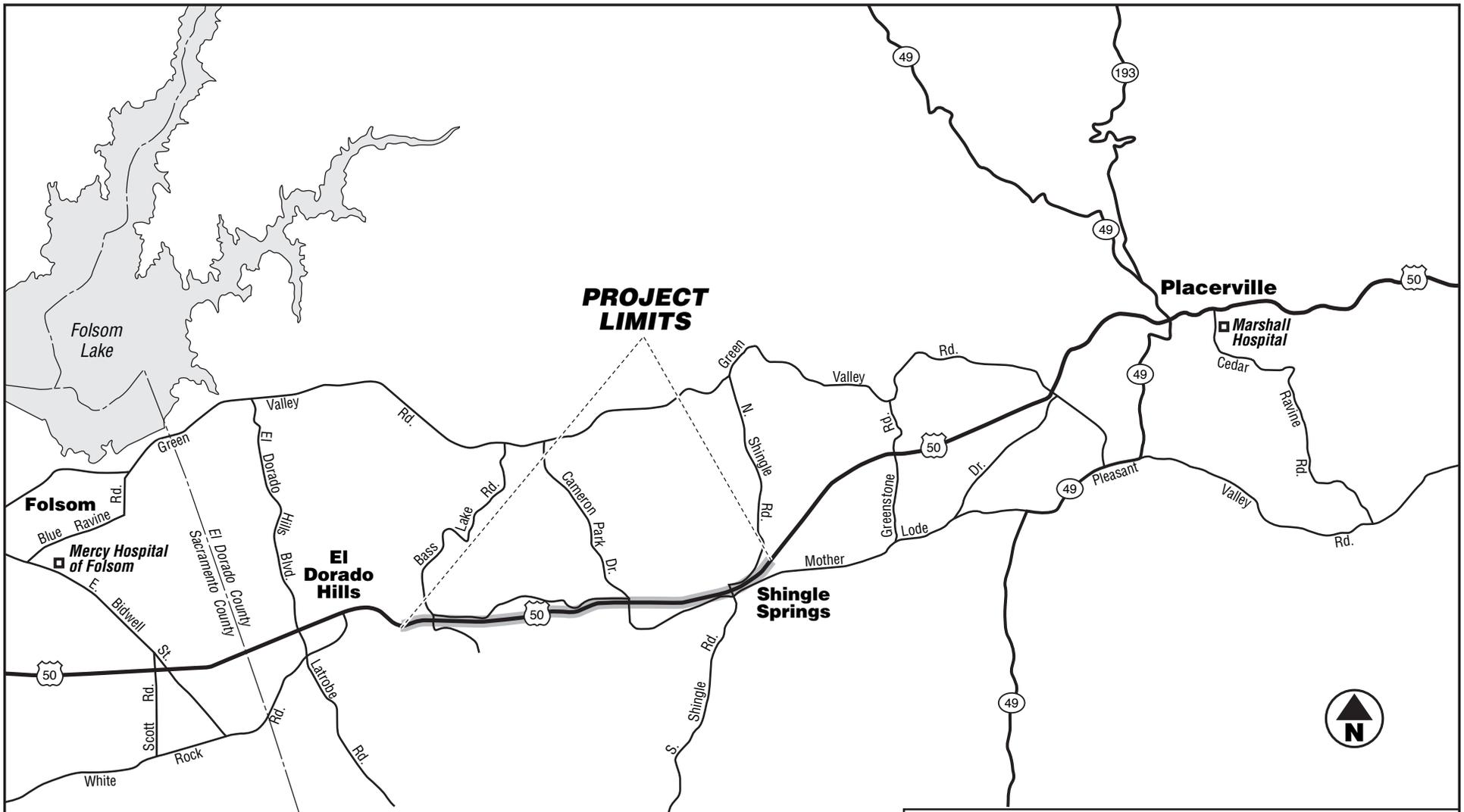
We also recommend the notification of contractors (that will be conducting renovation, demolition, or related activities) of the presence of asbestos in their areas (i.e., provide the contractor[s] with a copy of this report and a list of asbestos removed by asbestos abatement contractor[s] during subsequent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

Written notification to EPA Region IX and the CARB is required ten working-days prior to the commencement of *any* demolition activity (whether asbestos is present or not) and for renovation activities involving specified quantities of regulated asbestos-containing material. For notification instructions, please refer to the following internet link: <http://www.arb.ca.gov/enf/asbestos/asbestosform.htm>. In accordance with Title 8, CCR 341.9, written notification to the nearest Cal-OSHA district office is required at least 24 hours prior to certain asbestos-related work.

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. 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.



<p>GEOCON CONSULTANTS, INC. 3160 GOLD VALLEY DR. - SUITE 800 - RANCHO CORDOVA, CA. 95742 PHONE 916 852-9118 - FAX 916 852-9132</p>			
<p>Highway 50 ADL & NOA</p>			
<p>El Dorado County, California</p>		<p>VICINITY MAP</p>	
<p>GEOCON Proj. No. S9300-06-22</p>		<p>March 2008</p>	
<p>Task Order No. 22, EA 03-3A7121</p>		<p>Figure 1</p>	



LEGEND:

B1 ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)



GEOCON

CONSULTANTS, INC.

3160 GOLD VALLEY DR. - SUITE 800 - RANCHO CORDOVA, CA. 95742
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Highway 50 ADL & NOA

El Dorado County,
California

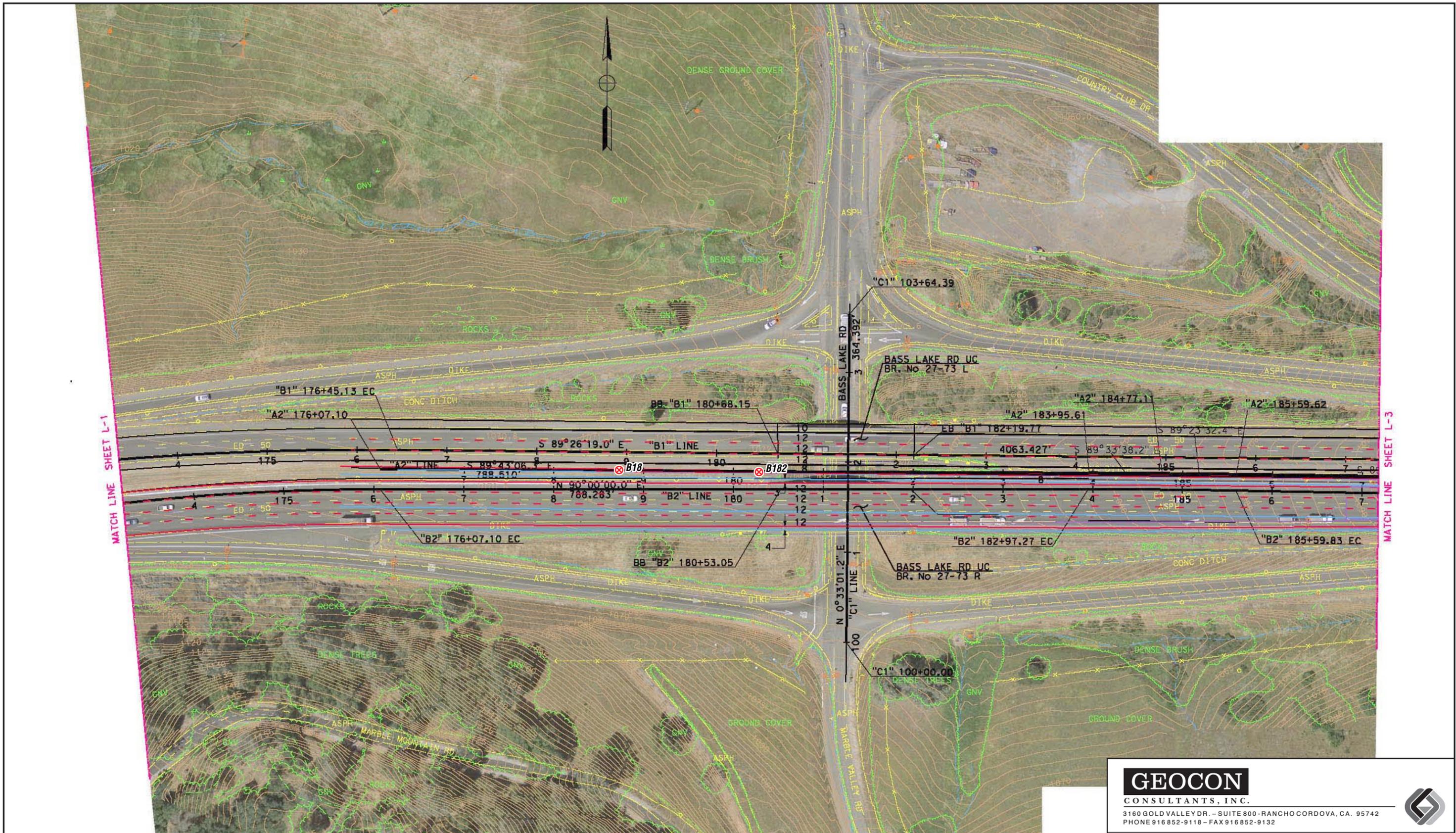
SITE PLAN

GEOCON Proj. No. S9300-06-22

Task Order No. 22, EA 03-3A7121

March 2008

Figure 2-1



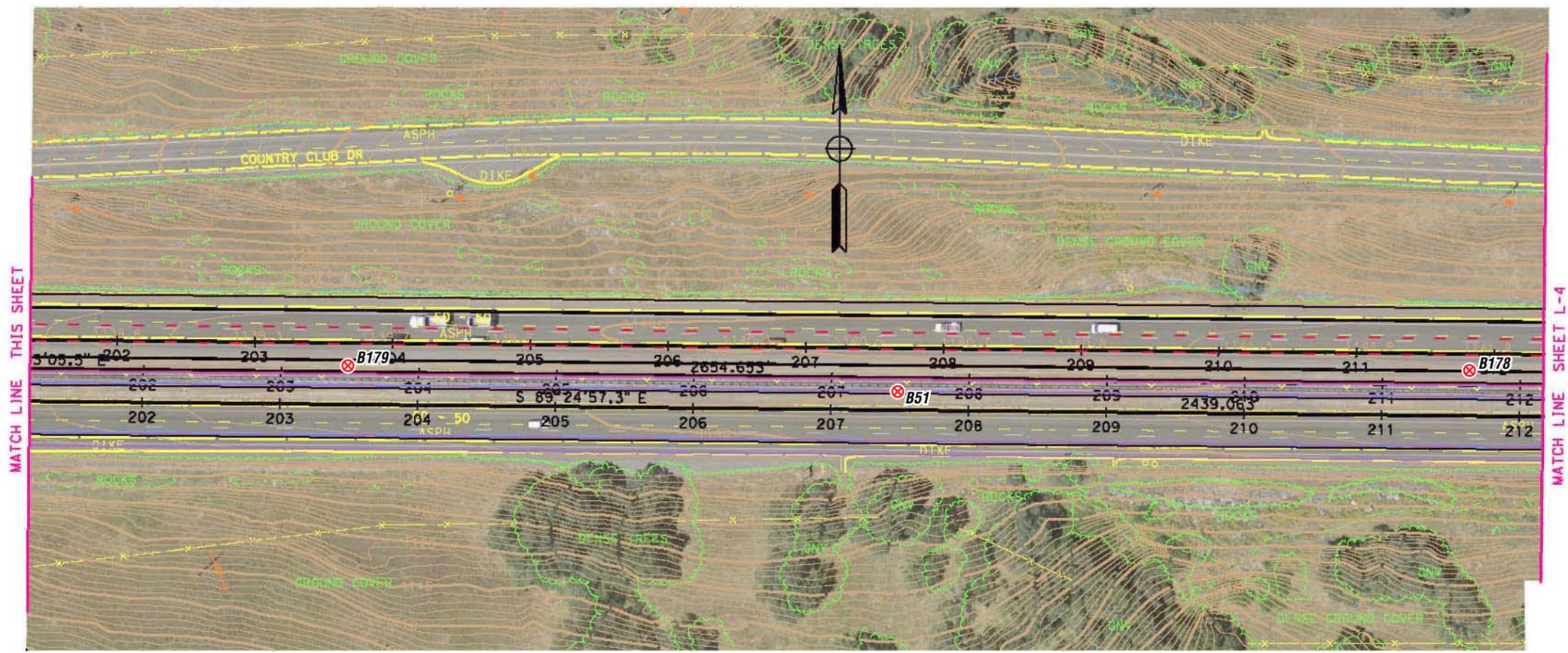
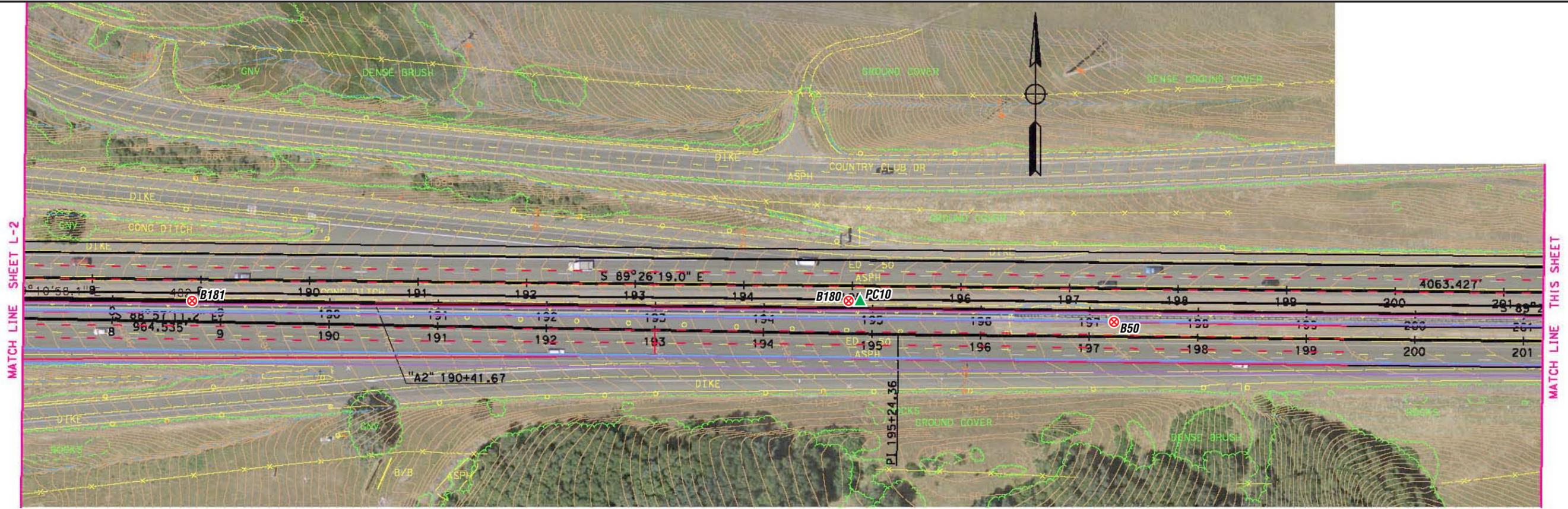
MATCH LINE SHEET L-1

MATCH LINE SHEET L-3

LEGEND:
B1 ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)



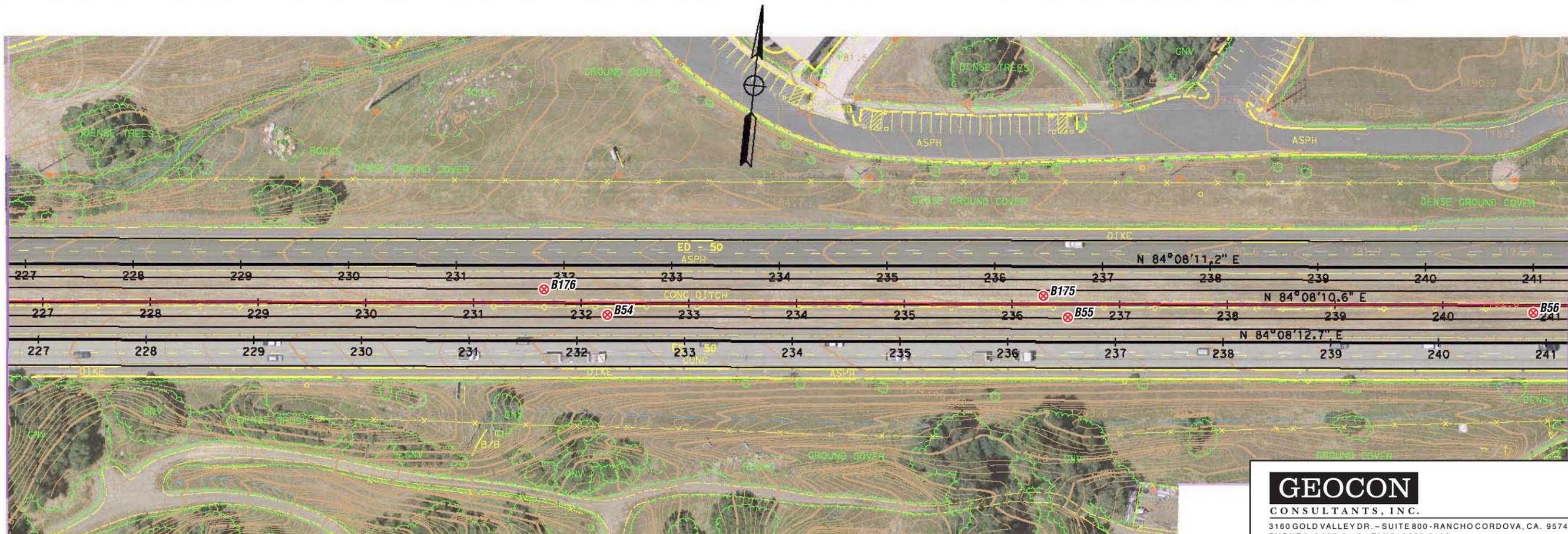
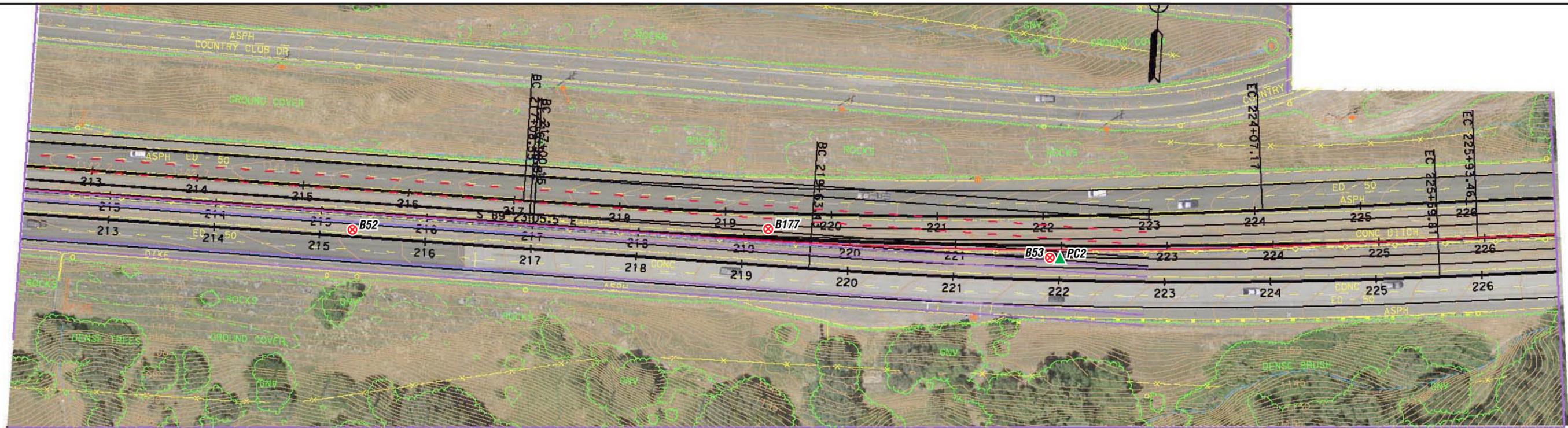
GEOCON CONSULTANTS, INC. <small>3160 GOLD VALLEY DR. - SUITE 800 - RANCHO CORDOVA, CA. 95742 PHONE 916 852-9118 - FAX 916 852-9132</small>			
Highway 50 ADL & NOA			
El Dorado County, California		SITE PLAN	
GEOCON Proj. No. S9300-06-22		March 2008	
Task Order No. 22, EA 03-3A7121		Figure 2-2	



- LEGEND:
- B1** ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)
 - PC4** ▲ Approximate Paint Chip Sample Location



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Highway 50 ADL & NOA		
El Dorado County, California		SITE PLAN
GEOCON Proj. No. S9300-06-22		March 2008
Task Order No. 22, EA 03-3A7121		
		Figure 2-3



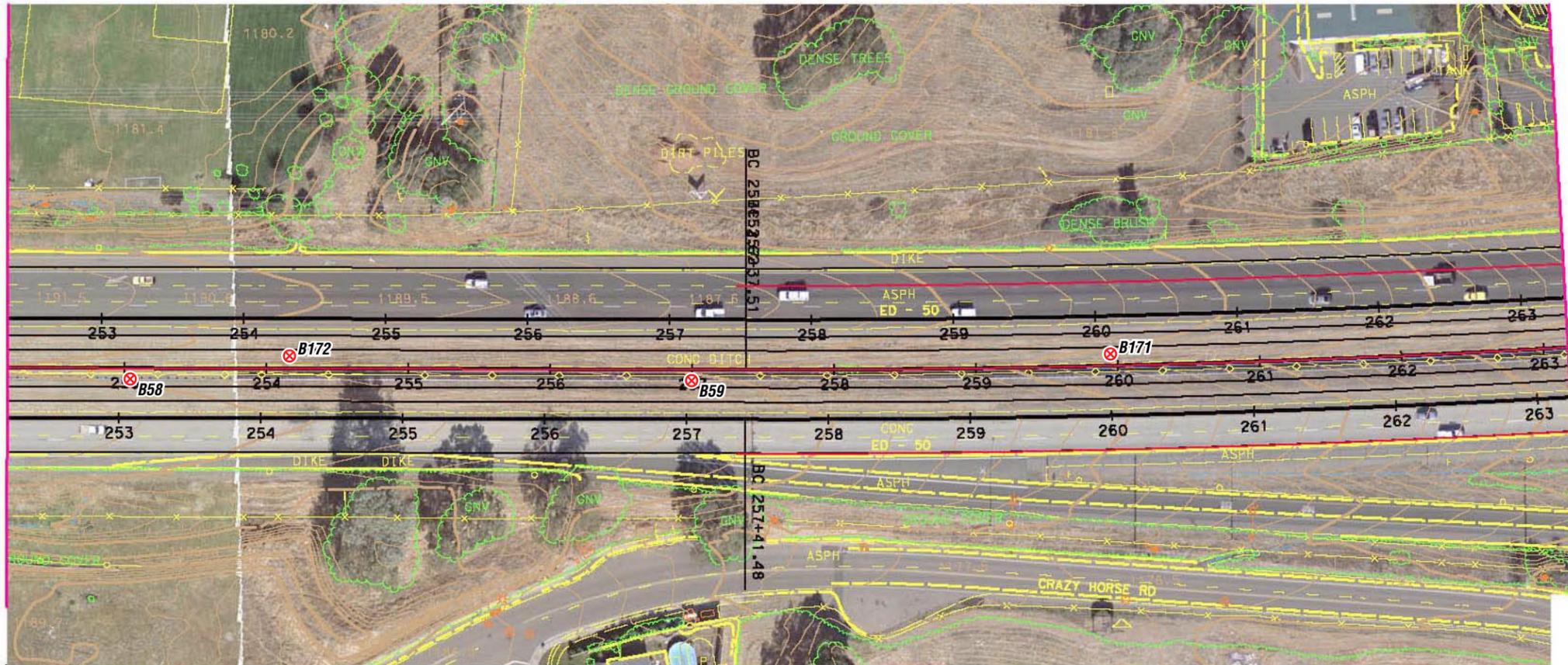
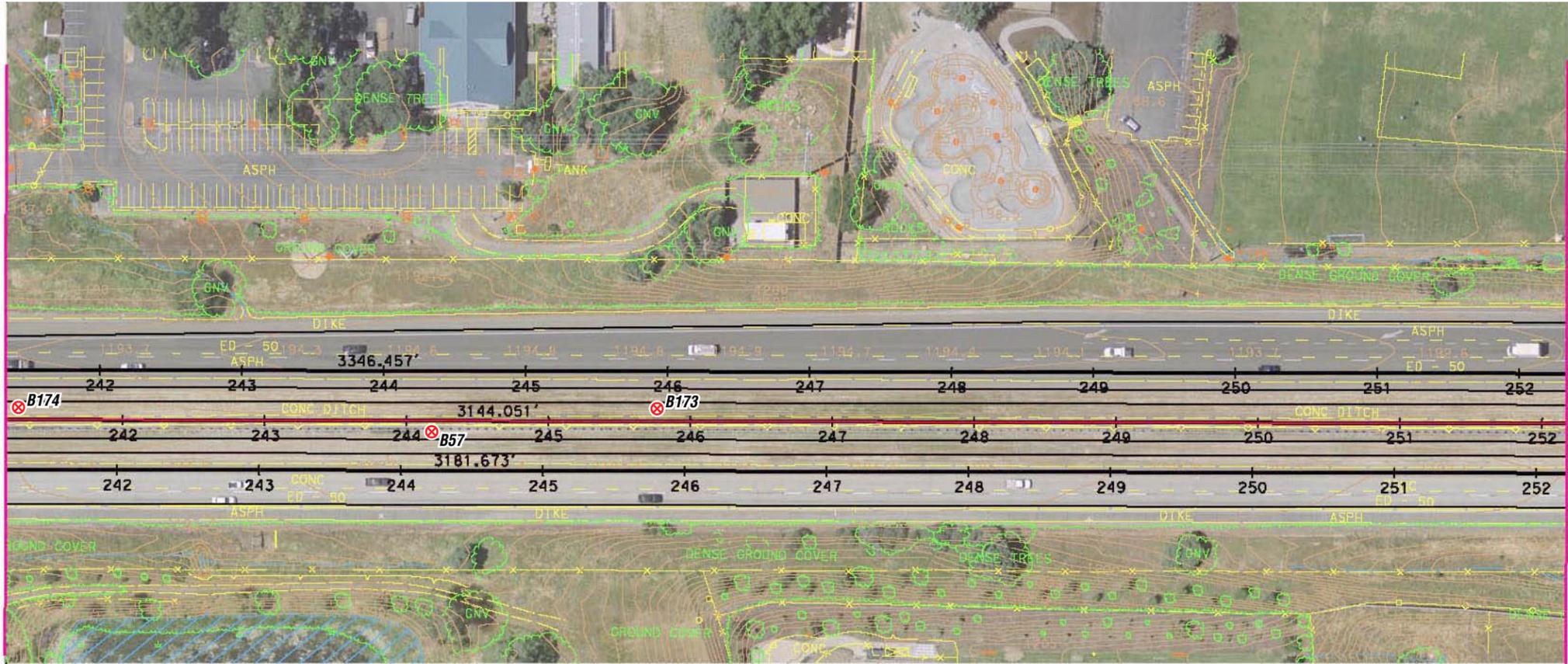
LEGEND:

- B1** ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)
- PC4** ▲ Approximate Paint Chip Sample Location



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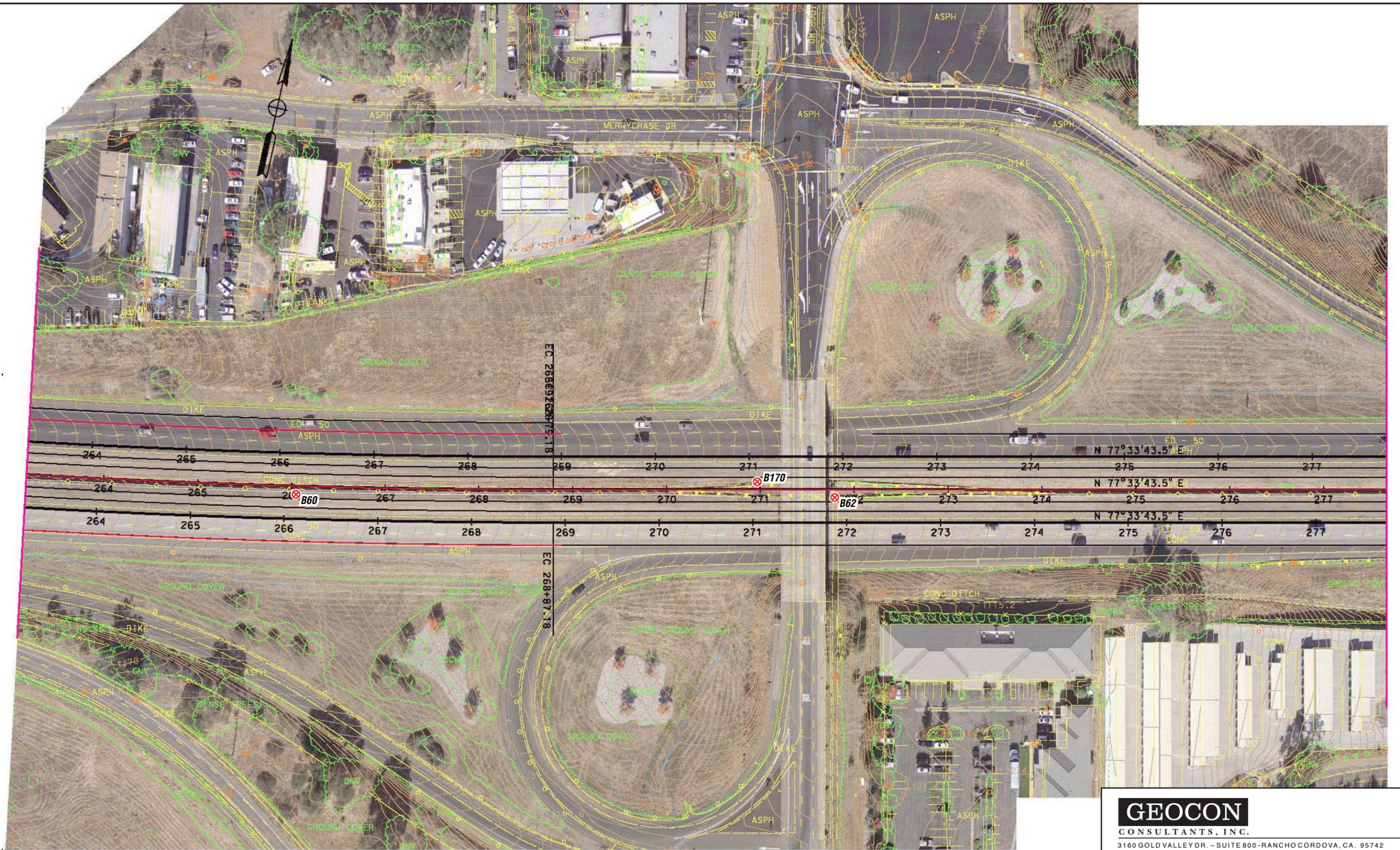
Highway 50 ADL & NOA		
El Dorado County, California		SITE PLAN
GEOCON Proj. No. S9300-06-22		March 2008
Task Order No. 22, EA 03-3A7121		
		Figure 2-4



- LEGEND:
- B1** ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)
 - PC4** ▲ Approximate Paint Chip Sample Location



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Highway 50 ADL & NOA		
El Dorado County, California		SITE PLAN
GEOCON Proj. No. S9300-06-22		March 2008 Figure 2-5
Task Order No. 22, EA 03-3A7121		



LEGEND:

B1 ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)



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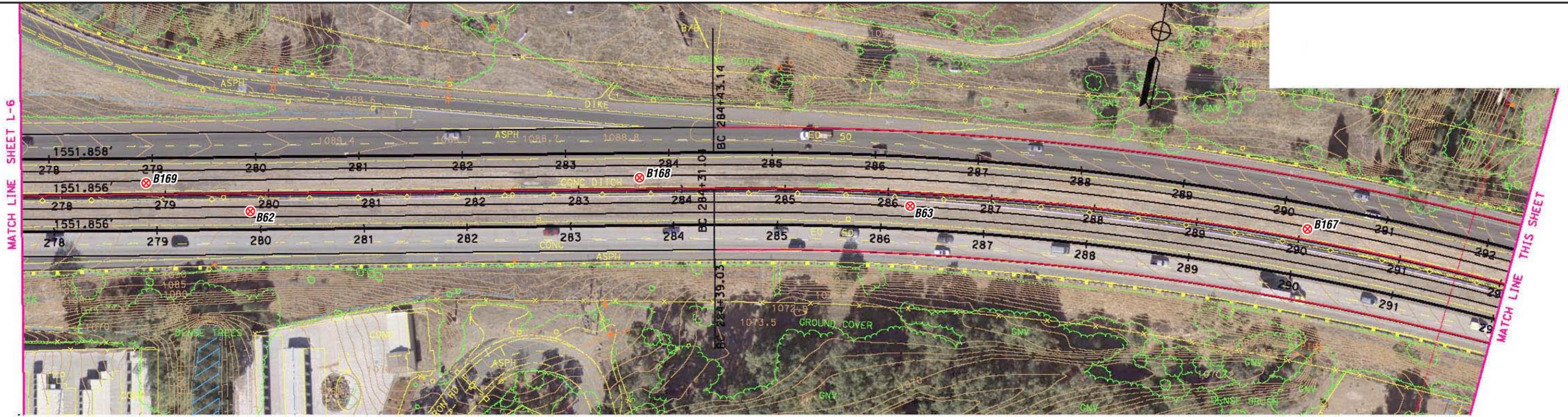
SITE PLAN

GEOCON Proj. No. S9300-06-22

Task Order No. 22, EA 03-3A7121

March 2008

Figure 2-6

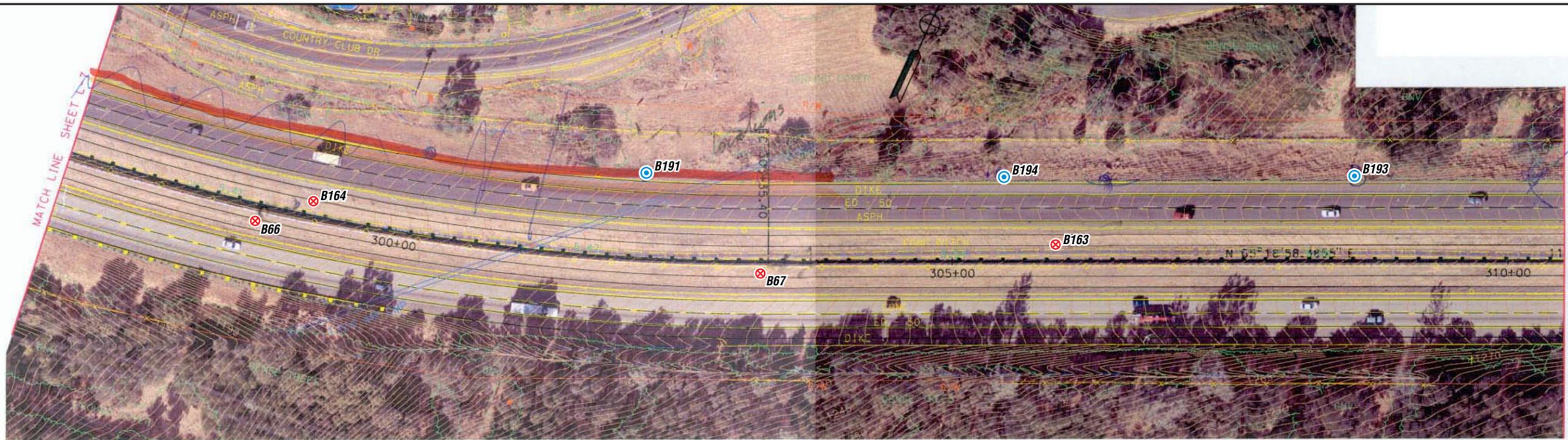


LEGEND:
 B1 ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)



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El Dorado County, California		SITE PLAN
GEOCON Proj. No. S9300-06-22		
Task Order No. 22, EA 03-3A7121	March 2008	Figure 2-7



LEGEND:

- B1** ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)
- B191** ○ Approximate Naturally Occurring Asbestos & Title 22 Metals Sample Location (Soundwall)(Hand-Auger)



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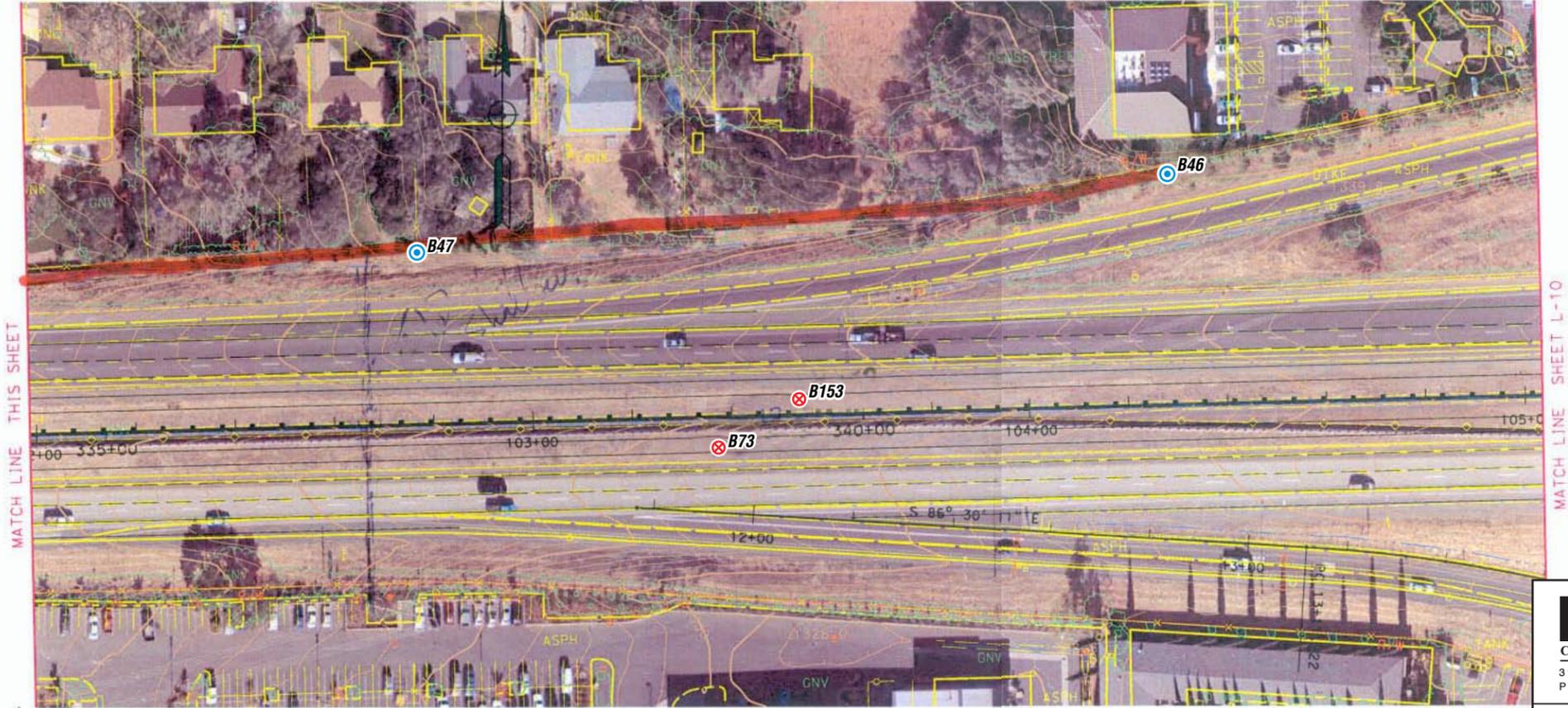
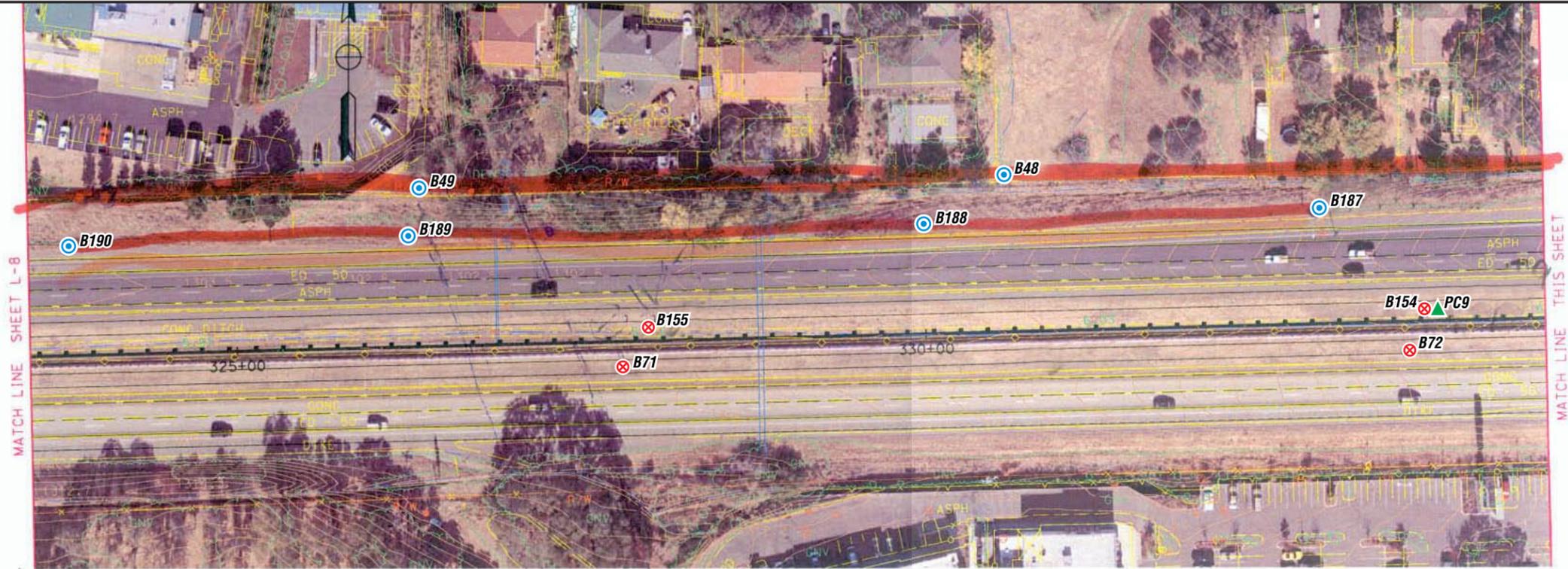
SITE PLAN

GEOCON Proj. No. S9300-06-22

Task Order No. 22, EA 03-3A7121

March 2008

Figure 2-8



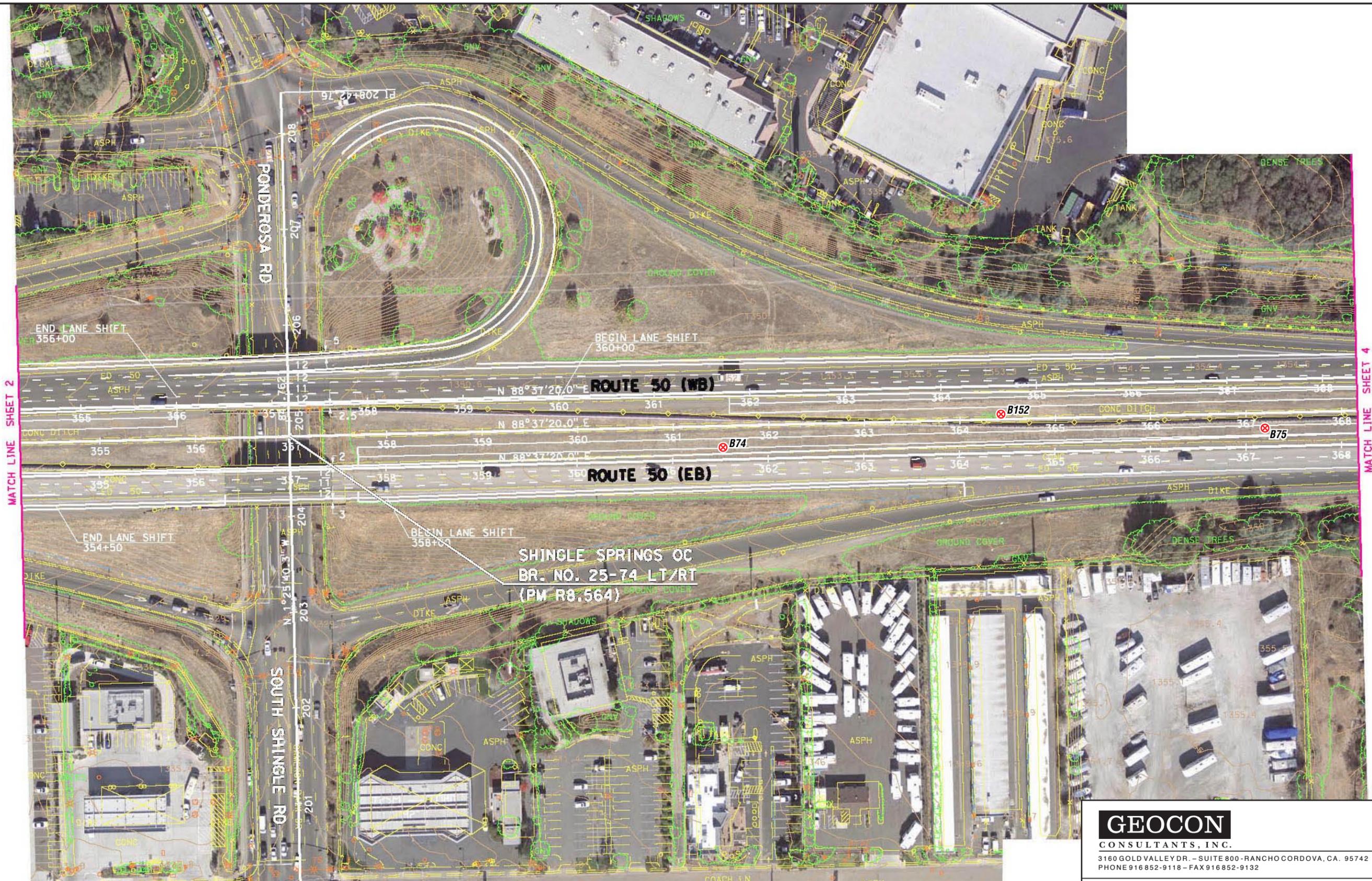
- LEGEND:
- B1** ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)
 - B191** ⊙ Approximate Naturally Occurring Asbestos & Title 22 Metals Sample Location (Soundwall)(Hand-Auger)

PC4 ▲ Approximate Paint Chip Sample Location



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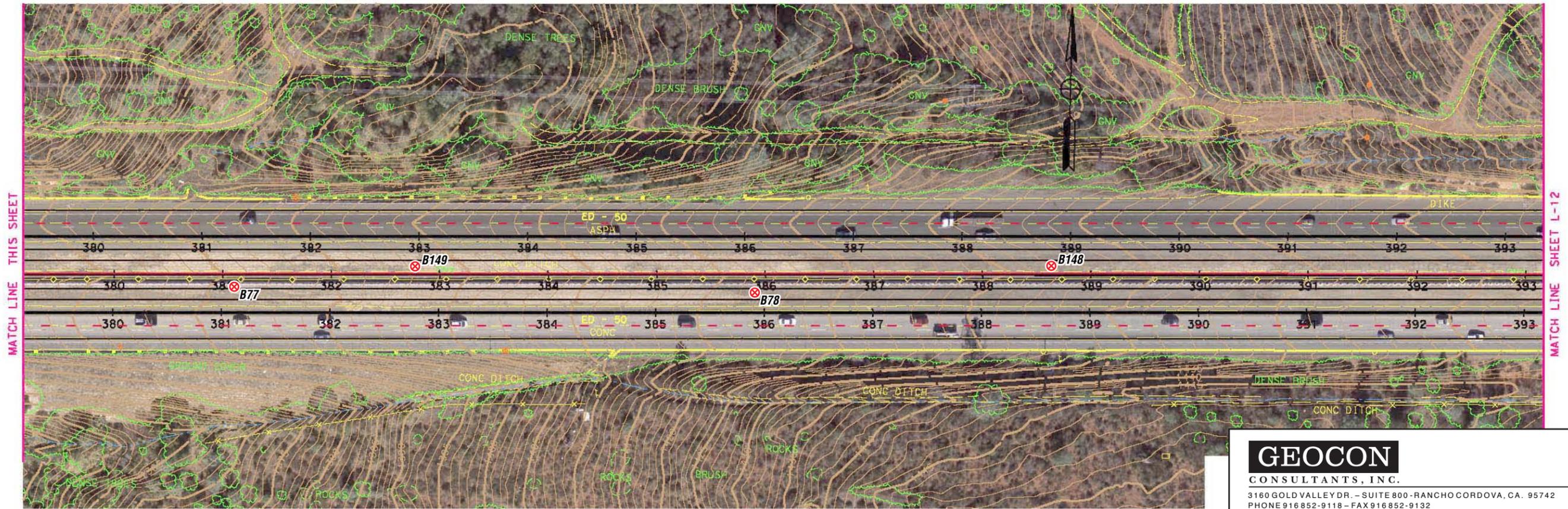
Highway 50 ADL & NOA		
El Dorado County, California		SITE PLAN
GEOCON Proj. No. S9300-06-22		
Task Order No. 22, EA 03-3A7121	March 2008	Figure 2-9



LEGEND:
 B74 ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)



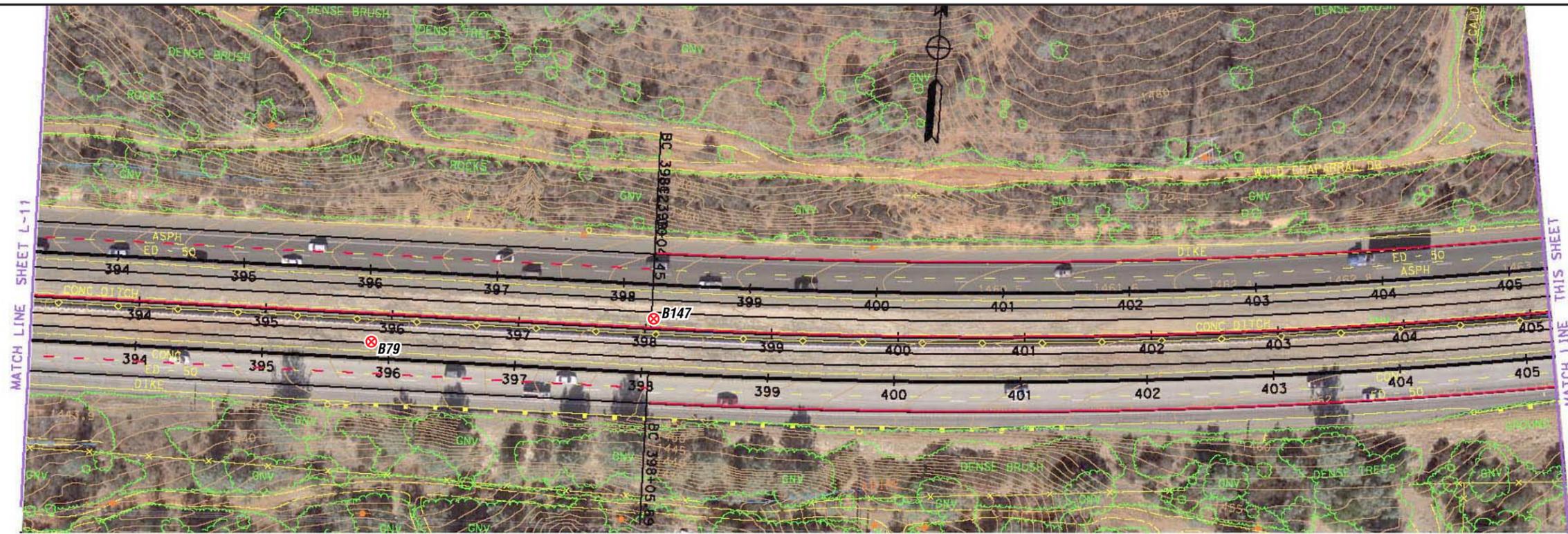
GEOCON CONSULTANTS, INC. <small>3160 GOLD VALLEY DR. - SUITE 800 - RANCHO CORDOVA, CA. 95742 PHONE 916 852-9118 - FAX 916 852-9132</small>		
Highway 50 ADL & NOA		
El Dorado County, California		SITE PLAN
GEOCON Proj. No. S9300-06-22		
Task Order No. 22, EA 03-3A7121	March 2008	Figure 2-10



- LEGEND:
- B1** ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)
 - PC4** ▲ Approximate Paint Chip Sample Location



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El Dorado County, California		SITE PLAN
GEOCON Proj. No. S9300-06-22		
Task Order No. 22, EA 03-3A7121		March 2008
		Figure 2-11



LEGEND:

B1 ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)



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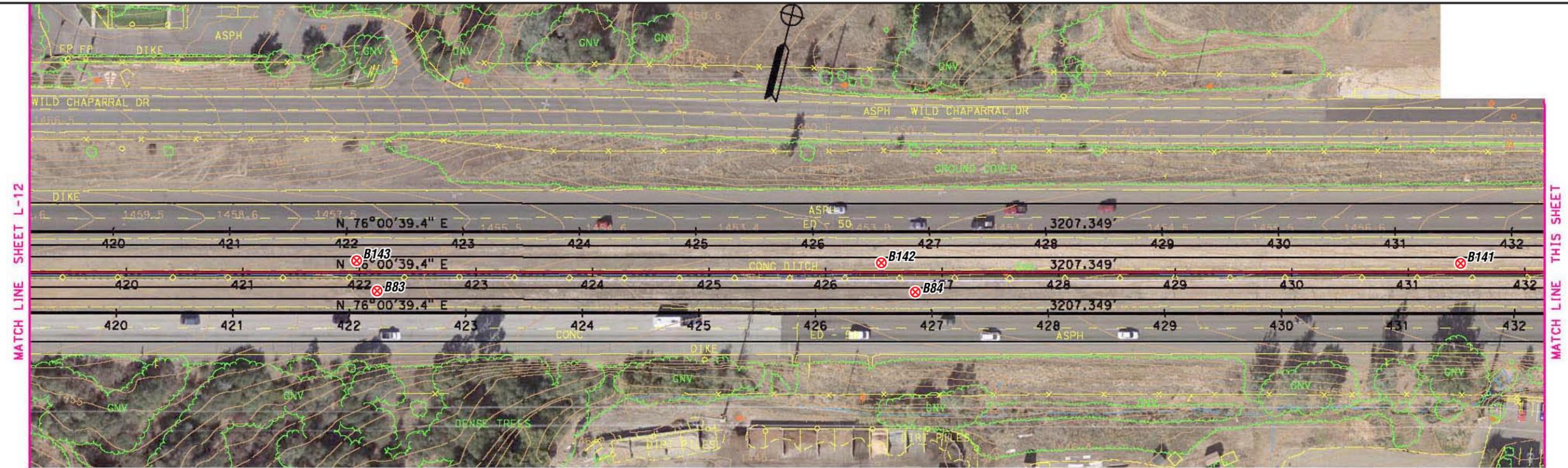
SITE PLAN

GEOCON Proj. No. S9300-06-22

Task Order No. 22, EA 03-3A7121

March 2008

Figure 2-12



LEGEND:

B1⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)



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Figure 2-13



LEGEND:

B1 ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)



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Task Order No. 22, EA 03-3A7121

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Figure 2-14



LEGEND:

- B1** ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)
- PC4** ▲ Approximate Paint Chip Sample Location



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El Dorado County,
California

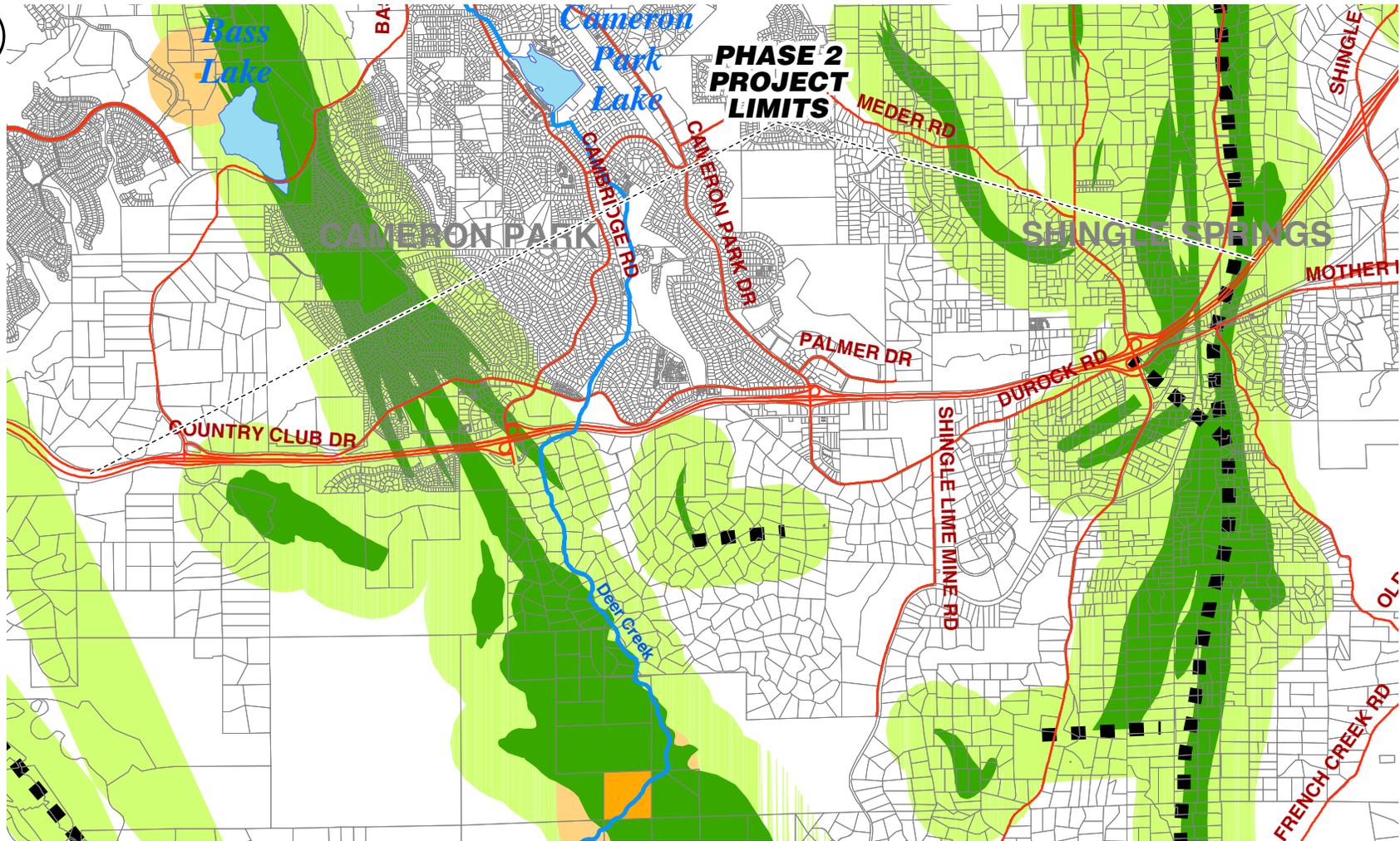
SITE PLAN

GEOCON Proj. No. S9300-06-22

Task Order No. 22, EA 03-3A7121

March 2008

Figure 2-15



Source: Asbestos Review Areas, Western Slope, County of El Dorado, State of California, El Dorado County, 7/21/05

LEGEND:

- Found Area of NOA
- Quarter Mile Buffer for Found Area of NOA
- More Likely to Contain Asbestos (Dept. of Conservation Mines & Geology OPEN-FILE REPORT 2000-002)
- Quarter Mile Buffer for More Likely to Contain Asbestos or Fault Line
- Fault Line (Dept. of Conservation Mines & Geology OPEN-FILE REPORT 2000-002)
- Parcel Base
- Major Roads
- Rivers and Creeks



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Highway 50 ADL & NOA

El Dorado County, California		El Dorado County Asbestos Review Areas Map
GEOCON Proj. No. S9300-06-22		
Task Order No. 22, EA 03-3A7121	March 2008	Figure 3

TABLE 1
SUMMARY OF SOIL BORING AND TRAFFIC STRIPE PAINT SAMPLE COORDINATES
CALTRANS TASK ORDER NO. 22
HIGHWAY 50 POST MILE 2.90 TO 8.79
EL DORADO COUNTY, CALIFORNIA

BORING I.D.	LATITUDE	LONGITUDE
B16	38.654684419	-121.035710537
B17	38.655154807	-121.033730591
B18	38.655396562	-121.030913295
B19	38.655319847	-121.033161835
B20	38.654980185	-121.035500653
B46	38.659884501	-120.970825517
B47	38.659741971	-120.972804838
B48	38.659709586	-120.974937997
B49	38.659681743	-120.977365410
B50	38.655208301	-121.023768818
B51	38.655156376	-121.021394896
B52	38.655141508	-121.019167433
B53	38.655096931	-121.016762289
B54	38.655129222	-121.014558941
B55	38.655314653	-121.012067837
B56	38.655469678	-121.009980380
B57	38.655622396	-121.007583417
B58	38.655806298	-121.005184150
B59	38.655972788	-121.002661629
B60	38.656245622	-121.000480763
B61	38.656557335	-120.998098246
B62	38.656923382	-120.996000425
B63	38.657379476	-120.993253794
B64	38.657409411	-120.990909599
B65	38.657200332	-120.988532628
B66	38.657094048	-120.986173479
B67	38.657612562	-120.983864799
B68	38.658336340	-120.981722792
B69	38.659071797	-120.979560534
B70	38.659340370	-120.977215690
B71	38.659351808	-120.974879804
B72	38.659369104	-120.972551679
B73	38.659382322	-120.970243905
B74	38.659431938	-120.967832424
B75	38.659444934	-120.965562184
B76	38.659471666	-120.963256227
B77	38.659493974	-120.960795245
B78	38.659525514	-120.958401887
B79	38.659549288	-120.956179982
B80	38.659577753	-120.953871145
B81	38.659785991	-120.951595257
B82	38.660183811	-120.949379732
B83	38.660624275	-120.947104806
B84	38.661033832	-120.944789696
B85	38.661473552	-120.942594833
B86	38.661855376	-120.940384406
B87	38.662371210	-120.938098355
B88	38.663057584	-120.936002609

TABLE 1
 SUMMARY OF SOIL BORING AND TRAFFIC STRIPE PAINT SAMPLE COORDINATES
 CALTRANS TASK ORDER NO. 22
 HIGHWAY 50 POST MILE 2.90 TO 8.79
 EL DORADO COUNTY, CALIFORNIA

BORING I.D.	LATITUDE	LONGITUDE
B89	38.663991922	-120.934034980
B90	38.664977728	-120.932166248
B91	38.666041126	-120.930235619
B134	38.666335107	-120.929983617
B135	38.665338118	-120.931776189
B136	38.664366473	-120.933589689
B137	38.663490590	-120.935310351
B138	38.662807952	-120.937090946
B139	38.662225727	-120.939136479
B140	38.661847806	-120.941082381
B141	38.661483168	-120.943078929
B142	38.661102497	-120.945148669
B143	38.660715317	-120.947136355
B144	38.660357434	-120.949004859
B145	38.660002566	-120.951004362
B146	38.659732707	-120.953147369
B147	38.659650997	-120.955286836
B148	38.659635707	-120.957569339
B149	38.659604083	-120.959732396
B150	38.659582643	-120.961993352
B151	38.659561409	-120.964231837
B152	38.659541570	-120.966514626
B153	38.659505933	-120.970141310
B154	38.659483256	-120.972533710
B155	38.659457034	-120.975015661
B160	38.659439279	-120.977238594
B161	38.659238630	-120.979321750
B162	38.658562684	-120.981464677
B163	38.657921188	-120.983320013
B164	38.657299080	-120.985404908
B165	38.657188769	-120.987490136
B166	38.657399806	-120.989551131
B167	38.657565927	-120.991866907
B168	38.657310786	-120.994357957
B169	38.656929349	-120.996672832
B170	38.656587280	-120.998850626
B171	38.656242681	-121.001281312
B172	38.655953996	-121.004576915
B173	38.655777451	-121.007138087
B174	38.655575435	-121.009904085
B175	38.655404906	-121.012254846
B176	38.655234971	-121.014613262
B177	38.655165542	-121.017565019
B178	38.655215227	-121.020126066
B179	38.655247788	-121.022661051
B180	NA	NA
B181	NA	NA
B182	38.655369376	-121.030633905
B187	38.659650771	-120.973953821
B188	38.659619997	-120.975238947
B189	38.659604748	-120.976882813
B190	38.659522666	-120.978550922
B191	38.657735739	-120.984333571
B192	38.657580650	-120.985234683

TABLE 1
SUMMARY OF SOIL BORING AND TRAFFIC STRIPE PAINT SAMPLE COORDINATES
CALTRANS TASK ORDER NO. 22
HIGHWAY 50 POST MILE 2.90 TO 8.79
EL DORADO COUNTY, CALIFORNIA

BORING I.D.	LATITUDE	LONGITUDE
B193	38.659327660	-120.979696714
B194	38.658380931	-120.982420562
PC2	38.655096931	-121.016762289
PC3	38.659471666	-120.963256227
PC8	38.665338118	-120.931776189
PC9	38.659483256	-120.972533710
PC10	NA	NA

Notes: NA = GPS data not available

TABLE 2
 SUMMARY OF LEAD AND SOIL pH ANALYTICAL RESULTS
 CALTRANS TASK ORDER NO. 22
 HIGHWAY 50 POST MILE 2.90 TO 8.79
 EL DORADO COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE DATE	TOTAL LEAD (mg/kg)	SOLUBLE (WET) LEAD (mg/l)	SOIL pH
B16,17-0	11/26/2007	20	---	---
B16,17-1	11/26/2007	6.2	---	---
B18,19,20-0	11/26/2007	23	---	7.4
B18,19,20-1	11/26/2007	2.3	---	---
B18,20-2	11/26/2007	2.1	---	---
B50,52,54,56-0	11/27/2007	66	2.2	---
B50,52,54,56-1	11/27/2007	3.9	---	---
B50,52-2	11/27/2007	2.0	---	---
B51,53,55,57-0	11/27/2007	33	---	---
B51,53,55,57-1	11/27/2007	2.2	---	---
B51,55,57-2	11/27/2007	2.2	---	---
B58,60,62,64-0	11/27/2007	33	---	---
B58,60,62,64-1	11/27/2007	1.9	---	---
B58,62,64-2	11/27/2007	2.3	---	6.9
B59,61,63,65-0	11/27/2007	70	6.0	---
B59,61,63,65-1	11/27/2007	1.7	---	---
B63-2	11/27/2007	<1	---	---
B66,68,70,72-0	11/27/2007	150	5.0	---
B66,68,70,72-1	11/27/2007	<1	---	---
B66,68,70,72-2	11/27/2007	1.3	---	---
B67,69,71,73-0	11/27/2007	19	---	---
B67,69,71,73-1	11/27/2007	<1	---	---
B67,69,71,73-2	11/27/2007	<1	---	7.0
B74,76,78,80-0	11/27/2007	9.0	---	---
B74,76,78,80-1	11/27/2007	<1	---	---
B74,76,78,80-2	11/27/2007	<1	---	---
B75,77,79,81-0	11/27/2007	31	---	---
B75,77,79,81-1	11/27/2007	<1	---	---
B75,77,79,81-2	11/27/2007	<1	---	---
B82,84,86,88,90-0	11/27/2007	46	---	---
B82,84,86,88,90-1	11/27/2007	3.5	---	7.7
B82,84,86,88-2	11/27/2007	1.7	---	---
B83,85,87,89,91-0	11/27/2007	19	---	---
B83,85,87,89,91-1	11/27/2007	1.2	---	---
B83,85,87,89,91-2	11/27/2007	<1	---	---

TABLE 2
 SUMMARY OF LEAD AND SOIL pH ANALYTICAL RESULTS
 CALTRANS TASK ORDER NO. 22
 HIGHWAY 50 POST MILE 2.90 TO 8.79
 EL DORADO COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE DATE	TOTAL LEAD (mg/kg)	SOLUBLE (WET) LEAD (mg/l)	SOIL pH
B134, 136, 138, 140-0	1/15/2008	25	---	---
B134, 136, 138, 140-1	1/15/2008	0.5	---	---
B134, 136, 138, 140-2	1/15/2008	5.0	---	---
B135, 137, 139, 141-0	1/15/2008	46	---	7.6
B135, 137, 139, 141-1	1/15/2008	1.4	---	---
B137, 139, 141-2	1/15/2008	2.1	---	---
B142, 144, 146, 148-0	1/15/2008	3.1	---	---
B142, 144, 146, 148-1	1/15/2008	2.3	---	---
B142, 144, 146, 148-2	1/15/2008	0.8	---	---
B143, 145, 147, 149-0	1/15/2008	33	---	---
B143, 145, 147, 149-1	1/15/2008	1.8	---	---
B143, 145, 147, 149-2	1/15/2008	0.5	---	7.5
B150, 152, 154, 160-0	1/16/2008	8.2	---	---
B150, 152, 154, 160-1	1/16/2008	2.5	---	---
B150, 154-2	1/16/2008	1.1	---	---
B151, 153, 155, 161-0	1/16/2008	79	5.5	---
B151, 153, 155, 161-1	1/16/2008	2.2	---	---
B151, 153, 155, 161-2	1/16/2008	56	2.1	---
B162, 164, 166, 168-0	1/16/2008	46	---	---
B162, 164, 166, 168-1	1/16/2008	20	---	---
B162, 164, 166, 168-2	1/16/2008	<0.4	---	---
B163, 165, 167, 169-0	1/16/2008	79	2.4	---
B163, 165, 167, 169-1	1/16/2008	8.9	---	---
B163, 165, 167, 169-2	1/16/2008	1.4	---	---
B170, 172, 174, 176-0	1/16/2008	23	---	---
B170, 172, 174, 176-1	1/16/2008	2.7	---	7.4
B170, 172, 176-2	1/16/2008	4.5	---	---
B171, 173, 175, 177-0	1/16/2008	17	---	7.7
B171, 173, 175, 177-1	1/16/2008	1.6	---	---
B171, 173, 177-2	1/16/2008	1.9	---	---
B178, 180, 182-0	1/16/2008	42	---	---
B178, 180, 182-1	1/16/2008	3.2	---	---
B178, 180, 182-2	1/16/2008	1.9	---	---
B179, 181-0	1/16/2008	18	---	---
B179, 181-1	1/16/2008	1.2	---	---
B179, 181-2	1/16/2008	1.3	---	---

Notes: B1,3,5,7-0 - Composite sample identification consisting of discrete soil samples collected from borings B1, B3, B5, and B7 at 0.0 ft depth
 WET = Waste Extraction Test
 mg/kg = Milligrams per kilogram
 mg/l = Milograms per liter
 < = Less than the laboratory test method detection limit
 --- = Not analyzed

TABLE 3
 SUMMARY OF TITLE 22 METALS ANALYTICAL RESULTS
 CALTRANS TASK ORDER NO. 22
 HIGHWAY 50 POST MILE 2.90 TO 8.79
 EL DORADO COUNTY, CALIFORNIA

Sample ID	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
		Results Reported as mg/kg																
B46,47,48,49-0	11/27/2007	<0.4	0.8	42	<0.4	<0.4	22	20	44	28	<0.4	16	<0.5	<0.4	<0.4	110	36	<0.04
B46,47,48,49-1	11/27/2007	<0.4	0.6	60	<0.4	<0.4	20	27	76	2.3	<0.4	15	<0.5	<0.4	<0.4	120	24	<0.04
B46,47,48,49-2	11/27/2007	<0.4	<0.4	39	<0.4	<0.4	17	18	84	0.9	<0.4	20	<0.5	<0.4	<0.4	92	17	<0.04
B187, 188, 189, 190-0	1/16/2008	<0.4	1.4	53	<0.4	<0.4	37	14	56	95	<0.4	30	<0.5	<0.4	<0.4	110	61	<0.04
B187, 188, 189, 190-1	1/16/2008	<0.4	<0.4	69	<0.4	<0.4	8.7	16	80	1.0	<0.4	11	<0.5	<0.4	<0.4	150	16	<0.04
B187, 188, 189, 190-2	1/16/2008	<0.4	<0.4	89	<0.4	<0.4	7.9	18	98	6.6	<0.4	13	<0.5	<0.4	<0.4	180	20	<0.04
B191, 192, 193, 194-0	1/16/2008	<0.4	1.3	54	<0.4	0.4	35	14	62	58	<0.4	36	<0.5	<0.4	<0.4	100	50	<0.04
B191, 192, 193, 194-1	1/16/2008	<0.4	0.6	37	<0.4	<0.4	32	18	92	1.3	<0.4	28	<0.5	<0.4	<0.4	140	35	<0.04
B191, 192, 193, 194-2	1/16/2008	<0.4	1.0	40	<0.4	<0.4	37	16	110	1.9	0.5	24	<0.5	<0.4	<0.4	150	30	<0.04
Published Background Levels ¹ (mg/kg)		0.6	3.5	509	1.28	0.36	122	14.9	28.7	23.9	1.3	57	0.058	0.8	15.7	112	149	0.26
TTLC (mg/kg)		500	500	10,000	75	100	2,500	8,000	2,500	1,000	3,500	2,000	100	500	700	2,400	5,000	20

Notes:

B46,47,48,49-0 - Composite sample identification consisting of discrete soil samples collected from borings B46, B47, B48, and B49 at 0.0 ft depth

mg/kg = Milligrams per kilogram

< = Less than the laboratory test method reporting limits

TTLC = Total Threshold Limit Concentrations

¹ Background: Mean Concentration - Background Concentrations of Trace and Major Elements in California Soils, U.C. California, March 1996

TABLE 4
SUMMARY OF ASBESTOS ANALYTICAL RESULTS
CALTRANS TASK ORDER NO. 22
HIGHWAY 50 POST MILE 2.90 TO 8.79
EL DORADO COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE LOCATION	SAMPLE TYPE	ANALYTICAL METHOD	ASBESTOS %	ASBESTOS TYPE
NOA 1	NOA16-0, NOA17-0, NOA18-0, NOA19-0, NOA20-0, NOA181-0, NOA182-0	COMPOSITE	PLM	ND	ND
NOA 2	NOA18-2, NOA20-2, NOA181-2, NOA182-2	COMPOSITE	PLM	ND	ND
NOA 3	NOA50-0, NOA51-0, NOA52-0, NOA177-0, NOA178-0, NOA179-0, NOA180-0	COMPOSITE	PLM	ND	ND
NOA 4	NOA50-2, NOA51-2, NOA52-2, NOA177-2, NOA178-2, NOA179-2, NOA180-2	COMPOSITE	PLM	ND	ND
NOA 5	NOA53-0, NOA54-0, NOA55-0, NOA56-0, NOA174-0, NOA175-0, NOA176-0	COMPOSITE	PLM	ND	ND
NOA 6	NOA55-2, NOA176-2	COMPOSITE	PLM	ND	ND
NOA 7	NOA57-0, NOA58-0, NOA59-0, NOA60-0, NOA61-0, NOA170-0, NOA171-0, NOA172-0	ROCK CHIP	PLM	ND	ND
NOA8	NOA57-2, NOA58-2, NOA170-2, NOA171-2, NOA172-2, NOA173-2	COMPOSITE	PLM	ND	ND

TABLE 4
SUMMARY OF ASBESTOS ANALYTICAL RESULTS
CALTRANS TASK ORDER NO. 22
HIGHWAY 50 POST MILE 2.90 TO 8.79
EL DORADO COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE LOCATION	SAMPLE TYPE	ANALYTICAL METHOD	ASBESTOS %	ASBESTOS TYPE
NOA9	NOA62-0, NOA63-0, NOA64-0, NOA167-0, NOA168-0, NOA169-0	COMPOSITE	PLM	ND	ND
NOA10	NOA62-2, NOA63-2, NOA64-2, NOA167-2, NOA168-2, NOA169-2	COMPOSITE	PLM	ND	ND
NOA11	NOA65-0, NOA66-0, NOA67-0, NOA68-0, NOA162-0, NOA163-0, NOA164-0, NOA165-0, NOA166-0	COMPOSITE	PLM	ND	ND
NOA12	NOA66-2, NOA67-2, NOA68-2, NOA162-2, NOA163-2, NOA164-2, NOA165-2, NOA166-2	COMPOSITE	PLM	ND	ND
NOA13	NOA69-0, NOA70-0, NOA71-0, NOA72-0, NOA154-0, NOA155-0, NOA160-0, NOA161-0	COMPOSITE	PLM	ND	ND
NOA14	NOA69-2, NOA70-2, NOA71-2, NOA72-2, NOA154-2, NOA155-2, NOA161-2	COMPOSITE	PLM	ND	ND
NOA15	NOA73-0, NOA74-0, NOA75-0, NOA76-0, NOA151-0, NOA152-0, NOA153- 0	COMPOSITE	PLM	ND	ND
NOA16	NOA73-2, NOA74-2, NOA75-2, NOA76-2, NOA151-2, NOA153-2	COMPOSITE	PLM	ND	ND

TABLE 4
SUMMARY OF ASBESTOS ANALYTICAL RESULTS
CALTRANS TASK ORDER NO. 22
HIGHWAY 50 POST MILE 2.90 TO 8.79
EL DORADO COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE LOCATION	SAMPLE TYPE	ANALYTICAL METHOD	ASBESTOS %	ASBESTOS TYPE
NOA17	NOA77-0, NOA78-0, NOA79-0, NOA80-0, NOA147-0, NOA148-0, NOA149-0, NOA150-0	COMPOSITE	PLM	ND	ND
NOA18	NOA77-2, NOA78-2, NOA79-2, NOA80-2, NOA147-2, NOA148-2, NOA149-2, NOA150-2	COMPOSITE	PLM	ND	ND
NOA19	NOA81-0, NOA82-0, NOA83-0, NOA84-0, NOA142-0, NOA143-0, NOA144-0, NOA146-0	COMPOSITE	PLM	ND	ND
NOA20	NOA81-2, NOA82-2, NOA83-2, NOA84-2, NOA142-2, NOA143-2, NOA144-2, NOA146-2	COMPOSITE	PLM	ND	ND
NOA21	NOA85-0, NOA86-0, NOA87-0, NOA88-0, NOA138-0, NOA139-0, NOA140-0, NOA141-0	COMPOSITE	PLM	ND	ND
NOA22	NOA85-2, NOA86-2, NOA87-2, NOA88-2, NOA138-0, NOA139-2, NOA140-2, NOA141-2	COMPOSITE	PLM	ND	ND
NOA23	NOA89-0, NOA90-0, NOA91-0, NOA134-0, NOA135-0, NOA136-0, NOA137-0	COMPOSITE	PLM	ND	ND
NOA24	NOA89-2, NOA91-2, NOA134-2, NOA136- 2, NOA137-2	COMPOSITE	PLM	<0.25%	CHRYSTILE

TABLE 4
SUMMARY OF ASBESTOS ANALYTICAL RESULTS
CALTRANS TASK ORDER NO. 22
HIGHWAY 50 POST MILE 2.90 TO 8.79
EL DORADO COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE LOCATION	SAMPLE TYPE	ANALYTICAL METHOD	ASBESTOS %	ASBESTOS TYPE
NOA25	NOA46-0, NOA47-0, NOA48-0, NOA49-0	COMPOSITE	PLM	ND	ND
NOA26	NOA46-2, NOA47-2, NOA48-2, NOA49-2	COMPOSITE	PLM	ND	ND
NOA27	NOA187-0, NOA188-0, NOA189-0, NOA190-0	COMPOSITE	PLM	ND	ND
NOA28	NOA187-2, NOA188-2, NOA189-2, NOA190-2	COMPOSITE	PLM	ND	ND
NOA29	NOA191-0, NOA192-0, NOA193- 0,NOA194-0	COMPOSITE	PLM	ND	ND
NOA30	NOA191-2, NOA192-2, NOA193- 2,NOA194-2	COMPOSITE	PLM	ND	ND
NOA 183	West of Bass Lake Road	ROCK CHIP	PLM	ND	ND

Notes:

PLM = Polarized Light Microscopy

ND = None Detected

TABLE 5
SUMMARY OF TRAFFIC STRIPE PAINT SAMPLE ANALYTICAL RESULTS - LEAD AND CHROMIUM
CALTRANS TASK ORDER NO. 22
HIGHWAY 50 POST MILE 2.90 TO 8.79
EL DORADO COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE DATE	TOTAL LEAD (mg/kg)	CHROMIUM (mg/kg)
PC2	11/27/2007	290	100
PC3	11/27/2007	210	90
PC8	1/15/2008	1,000	240
PC9	1/15/2008	1,000	230
PC10	1/16/2008	510	120

Notes: PC 2 = Yellow traffic stripe paint sample identification
mg/kg = Milligrams per kilogram

Site ID	Roadway Segment ID	Borehole ID	Borehole Description	Borehole Latitude	Borehole Longitude	Borehole Depth	BHD Units	Parcel Number	Sample ID	Sample Date	Sample Depth
HIGHWAY 50 SITE	03-ELD-50	B16	DIRECT-PUSH	38.654684419	-121.035710537	2	feet		B16-0	11/26/2007	0
HIGHWAY 50 SITE	03-ELD-50	B16	DIRECT-PUSH	38.654684419	-121.035710537	2	feet		B16-1	11/26/2007	1
HIGHWAY 50 SITE	03-ELD-50	B17	DIRECT-PUSH	38.655154807	-121.033730591	2	feet		B17-0	11/26/2007	0
HIGHWAY 50 SITE	03-ELD-50	B17	DIRECT-PUSH	38.655154807	-121.033730591	2	feet		B17-1	11/26/2007	1
HIGHWAY 50 SITE	03-ELD-50	B18	DIRECT-PUSH	38.655396562	-121.030913295	3	feet		B18-0	11/26/2007	0
HIGHWAY 50 SITE	03-ELD-50	B18	DIRECT-PUSH	38.655396562	-121.030913295	3	feet		B18-1	11/26/2007	1
HIGHWAY 50 SITE	03-ELD-50	B18	DIRECT-PUSH	38.655396562	-121.030913295	3	feet		B18-2	11/26/2007	2
HIGHWAY 50 SITE	03-ELD-50	B19	DIRECT-PUSH	38.655319847	-121.033161835	2	feet		B19-0	11/26/2007	0
HIGHWAY 50 SITE	03-ELD-50	B19	DIRECT-PUSH	38.655319847	-121.033161835	2	feet		B19-1	11/26/2007	1
HIGHWAY 50 SITE	03-ELD-50	B20	DIRECT-PUSH	38.654980185	-121.035500653	2.5	feet		B20-0	11/26/2007	0
HIGHWAY 50 SITE	03-ELD-50	B20	DIRECT-PUSH	38.654980185	-121.035500653	2.5	feet		B20-1	11/26/2007	1
HIGHWAY 50 SITE	03-ELD-50	B20	DIRECT-PUSH	38.654980185	-121.035500653	2.5	feet		B20-2	11/26/2007	2
HIGHWAY 50 SITE	03-ELD-50	B50	DIRECT-PUSH	38.655208301	-121.023768818	3	feet		B50-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B50	DIRECT-PUSH	38.655208301	-121.023768818	3	feet		B50-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B50	DIRECT-PUSH	38.655208301	-121.023768818	3	feet		B50-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B52	DIRECT-PUSH	38.655141508	-121.019167433	3	feet		B52-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B52	DIRECT-PUSH	38.655141508	-121.019167433	3	feet		B52-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B52	DIRECT-PUSH	38.655141508	-121.019167433	3	feet		B52-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B54	DIRECT-PUSH	38.655129222	-121.014558941	2	feet		B54-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B54	DIRECT-PUSH	38.655129222	-121.014558941	2	feet		B54-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B56	DIRECT-PUSH	38.655469678	-121.009980380	1.5	feet		B56-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B56	DIRECT-PUSH	38.655469678	-121.009980380	1.5	feet		B56-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B51	DIRECT-PUSH	38.655156376	-121.021394896	3	feet		B51-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B51	DIRECT-PUSH	38.655156376	-121.021394896	3	feet		B51-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B51	DIRECT-PUSH	38.655156376	-121.021394896	3	feet		B51-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B53	DIRECT-PUSH	38.655096931	-121.016762289	2	feet		B53-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B53	DIRECT-PUSH	38.655096931	-121.016762289	2	feet		B53-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B55	DIRECT-PUSH	38.655314653	-121.012067837	3	feet		B55-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B55	DIRECT-PUSH	38.655314653	-121.012067837	3	feet		B55-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B55	DIRECT-PUSH	38.655314653	-121.012067837	3	feet		B55-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B57	DIRECT-PUSH	38.655622396	-121.007583417	3	feet		B57-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B57	DIRECT-PUSH	38.655622396	-121.007583417	3	feet		B57-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B57	DIRECT-PUSH	38.655622396	-121.007583417	3	feet		B57-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B58	DIRECT-PUSH	38.655806298	-121.005184150	3	feet		B58-0	11/27/2007	0

Site ID	Roadway Segment ID	Borehole ID	Borehole Description	Borehole Latitude	Borehole Longitude	Borehole Depth	BHD Units	Parcel Number	Sample ID	Sample Date	Sample Depth
HIGHWAY 50 SITE	03-ELD-50	B58	DIRECT-PUSH	38.655806298	-121.005184150	3	feet		B58-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B58	DIRECT-PUSH	38.655806298	-121.005184150	3	feet		B58-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B60	DIRECT-PUSH	38.656245622	-121.000480763	1.5	feet		B60-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B60	DIRECT-PUSH	38.656245622	-121.000480763	1.5	feet		B60-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B62	DIRECT-PUSH	38.656923382	-120.996000425	3	feet		B62-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B62	DIRECT-PUSH	38.656923382	-120.996000425	3	feet		B62-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B62	DIRECT-PUSH	38.656923382	-120.996000425	3	feet		B62-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B64	DIRECT-PUSH	38.657409411	-120.990909599	3	feet		B64-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B64	DIRECT-PUSH	38.657409411	-120.990909599	3	feet		B64-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B64	DIRECT-PUSH	38.657409411	-120.990909599	3	feet		B64-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B59	DIRECT-PUSH	38.655972788	-121.002661629	2	feet		B59-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B59	DIRECT-PUSH	38.655972788	-121.002661629	2	feet		B59-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B61	DIRECT-PUSH	38.656557335	-120.998098246	2	feet		B61-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B61	DIRECT-PUSH	38.656557335	-120.998098246	2	feet		B61-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B63	DIRECT-PUSH	38.657379476	-120.993253794	2.5	feet		B63-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B63	DIRECT-PUSH	38.657379476	-120.993253794	2.5	feet		B63-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B63	DIRECT-PUSH	38.657379476	-120.993253794	2.5	feet		B63-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B65	DIRECT-PUSH	38.657200332	-120.988532628	2	feet		B65-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B65	DIRECT-PUSH	38.657200332	-120.988532628	2	feet		B65-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B66	DIRECT-PUSH	38.657094048	-120.986173479	3	feet		B66-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B66	DIRECT-PUSH	38.657094048	-120.986173479	3	feet		B66-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B66	DIRECT-PUSH	38.657094048	-120.986173479	3	feet		B66-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B68	DIRECT-PUSH	38.658336340	-120.981722792	3	feet		B68-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B68	DIRECT-PUSH	38.658336340	-120.981722792	3	feet		B68-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B68	DIRECT-PUSH	38.658336340	-120.981722792	3	feet		B68-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B70	DIRECT-PUSH	38.659340370	-120.977215690	3	feet		B70-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B70	DIRECT-PUSH	38.659340370	-120.977215690	3	feet		B70-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B70	DIRECT-PUSH	38.659340370	-120.977215690	3	feet		B70-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B72	DIRECT-PUSH	38.659369104	-120.972551679	3	feet		B72-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B72	DIRECT-PUSH	38.659369104	-120.972551679	3	feet		B72-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B72	DIRECT-PUSH	38.659369104	-120.972551679	3	feet		B72-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B67	DIRECT-PUSH	38.657612562	-120.983864799	3	feet		B67-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B67	DIRECT-PUSH	38.657612562	-120.983864799	3	feet		B67-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B67	DIRECT-PUSH	38.657612562	-120.983864799	3	feet		B67-2	11/27/2007	2

Site ID	Roadway Segment ID	Borehole ID	Borehole Description	Borehole Latitude	Borehole Longitude	Borehole Depth	BHD Units	Parcel Number	Sample ID	Sample Date	Sample Depth
HIGHWAY 50 SITE	03-ELD-50	B69	DIRECT-PUSH	38.659071797	-120.979560534	3	feet		B69-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B69	DIRECT-PUSH	38.659071797	-120.979560534	3	feet		B69-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B69	DIRECT-PUSH	38.659071797	-120.979560534	3	feet		B69-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B71	DIRECT-PUSH	38.659351808	-120.974879804	3	feet		B71-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B71	DIRECT-PUSH	38.659351808	-120.974879804	3	feet		B71-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B71	DIRECT-PUSH	38.659351808	-120.974879804	3	feet		B71-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B73	DIRECT-PUSH	38.659382322	-120.970243905	3	feet		B73-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B73	DIRECT-PUSH	38.659382322	-120.970243905	3	feet		B73-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B73	DIRECT-PUSH	38.659382322	-120.970243905	3	feet		B73-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B74	DIRECT-PUSH	38.659431938	-120.967832424	3	feet		B74-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B74	DIRECT-PUSH	38.659431938	-120.967832424	3	feet		B74-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B74	DIRECT-PUSH	38.659431938	-120.967832424	3	feet		B74-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B76	DIRECT-PUSH	38.659471666	-120.963256227	3	feet		B76-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B76	DIRECT-PUSH	38.659471666	-120.963256227	3	feet		B76-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B76	DIRECT-PUSH	38.659471666	-120.963256227	3	feet		B76-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B78	DIRECT-PUSH	38.659525514	-120.958401887	3	feet		B78-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B78	DIRECT-PUSH	38.659525514	-120.958401887	3	feet		B78-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B78	DIRECT-PUSH	38.659525514	-120.958401887	3	feet		B78-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B80	DIRECT-PUSH	38.659577753	-120.953871145	3	feet		B80-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B80	DIRECT-PUSH	38.659577753	-120.953871145	3	feet		B80-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B80	DIRECT-PUSH	38.659577753	-120.953871145	3	feet		B80-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B75	DIRECT-PUSH	38.659444934	-120.965562184	3	feet		B75-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B75	DIRECT-PUSH	38.659444934	-120.965562184	3	feet		B75-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B75	DIRECT-PUSH	38.659444934	-120.965562184	3	feet		B75-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B77	DIRECT-PUSH	38.659493974	-120.960795245	3	feet		B77-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B77	DIRECT-PUSH	38.659493974	-120.960795245	3	feet		B77-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B77	DIRECT-PUSH	38.659493974	-120.960795245	3	feet		B77-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B79	DIRECT-PUSH	38.659549288	-120.956179982	3	feet		B79-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B79	DIRECT-PUSH	38.659549288	-120.956179982	3	feet		B79-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B79	DIRECT-PUSH	38.659549288	-120.956179982	3	feet		B79-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B81	DIRECT-PUSH	38.659785991	-120.951595257	3	feet		B81-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B81	DIRECT-PUSH	38.659785991	-120.951595257	3	feet		B81-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B81	DIRECT-PUSH	38.659785991	-120.951595257	3	feet		B81-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B82	DIRECT-PUSH	38.660183811	-120.949379732	3	feet		B82-0	11/27/2007	0

Site ID	Roadway Segment ID	Borehole ID	Borehole Description	Borehole Latitude	Borehole Longitude	Borehole Depth	BHD Units	Parcel Number	Sample ID	Sample Date	Sample Depth
HIGHWAY 50 SITE	03-ELD-50	B82	DIRECT-PUSH	38.660183811	-120.949379732	3	feet		B82-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B82	DIRECT-PUSH	38.660183811	-120.949379732	3	feet		B82-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B84	DIRECT-PUSH	38.661033832	-120.944789696	3	feet		B84-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B84	DIRECT-PUSH	38.661033832	-120.944789696	3	feet		B84-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B84	DIRECT-PUSH	38.661033832	-120.944789696	3	feet		B84-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B86	DIRECT-PUSH	38.661855376	-120.940384406	3	feet		B86-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B86	DIRECT-PUSH	38.661855376	-120.940384406	3	feet		B86-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B86	DIRECT-PUSH	38.661855376	-120.940384406	3	feet		B86-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B88	DIRECT-PUSH	38.663057584	-120.936002609	3	feet		B88-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B88	DIRECT-PUSH	38.663057584	-120.936002609	3	feet		B88-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B88	DIRECT-PUSH	38.663057584	-120.936002609	3	feet		B88-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B90	DIRECT-PUSH	38.664977728	-120.932166248	3	feet		B90-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B90	DIRECT-PUSH	38.664977728	-120.932166248	3	feet		B90-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B83	DIRECT-PUSH	38.660624275	-120.947104806	3	feet		B83-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B83	DIRECT-PUSH	38.660624275	-120.947104806	3	feet		B83-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B83	DIRECT-PUSH	38.660624275	-120.947104806	3	feet		B83-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B85	DIRECT-PUSH	38.661473552	-120.942594833	3	feet		B85-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B85	DIRECT-PUSH	38.661473552	-120.942594833	3	feet		B85-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B85	DIRECT-PUSH	38.661473552	-120.942594833	3	feet		B85-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B87	DIRECT-PUSH	38.662371210	-120.938098355	3	feet		B87-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B87	DIRECT-PUSH	38.662371210	-120.938098355	3	feet		B87-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B87	DIRECT-PUSH	38.662371210	-120.938098355	3	feet		B87-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B89	DIRECT-PUSH	38.663991922	-120.934034980	3	feet		B89-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B89	DIRECT-PUSH	38.663991922	-120.934034980	3	feet		B89-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B89	DIRECT-PUSH	38.663991922	-120.934034980	3	feet		B89-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B91	DIRECT-PUSH	38.666041126	-120.930235619	3	feet		B91-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B91	DIRECT-PUSH	38.666041126	-120.930235619	3	feet		B91-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B91	DIRECT-PUSH	38.666041126	-120.930235619	3	feet		B91-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B134	DIRECT-PUSH	38.666335107	-120.929983617	3	feet		B134-0	1/15/2008	0
HIGHWAY 50 SITE	03-ELD-50	B134	DIRECT-PUSH	38.666335107	-120.929983617	3	feet		B134-1	1/15/2008	1
HIGHWAY 50 SITE	03-ELD-50	B134	DIRECT-PUSH	38.666335107	-120.929983617	3	feet		B134-2	1/15/2008	2
HIGHWAY 50 SITE	03-ELD-50	B136	DIRECT-PUSH	38.664366473	-120.933589689	3	feet		B136-0	1/15/2008	0
HIGHWAY 50 SITE	03-ELD-50	B136	DIRECT-PUSH	38.664366473	-120.933589689	3	feet		B136-1	1/15/2008	1
HIGHWAY 50 SITE	03-ELD-50	B136	DIRECT-PUSH	38.664366473	-120.933589689	3	feet		B136-2	1/15/2008	2

Site ID	Roadway Segment ID	Borehole ID	Borehole Description	Borehole Latitude	Borehole Longitude	Borehole Depth	BHD Units	Parcel Number	Sample ID	Sample Date	Sample Depth
HIGHWAY 50 SITE	03-ELD-50	B138	DIRECT-PUSH	38.662807952	-120.937090946	3	feet		B138-0	1/15/2008	0
HIGHWAY 50 SITE	03-ELD-50	B138	DIRECT-PUSH	38.662807952	-120.937090946	3	feet		B138-1	1/15/2008	1
HIGHWAY 50 SITE	03-ELD-50	B138	DIRECT-PUSH	38.662807952	-120.937090946	3	feet		B138-2	1/15/2008	2
HIGHWAY 50 SITE	03-ELD-50	B140	DIRECT-PUSH	38.661847806	-120.941082381	3	feet		B140-0	1/15/2008	0
HIGHWAY 50 SITE	03-ELD-50	B140	DIRECT-PUSH	38.661847806	-120.941082381	3	feet		B140-1	1/15/2008	1
HIGHWAY 50 SITE	03-ELD-50	B140	DIRECT-PUSH	38.661847806	-120.941082381	3	feet		B140-2	1/15/2008	2
HIGHWAY 50 SITE	03-ELD-50	B135	DIRECT-PUSH	38.665338118	-120.931776189	2	feet		B135-0	1/15/2008	0
HIGHWAY 50 SITE	03-ELD-50	B135	DIRECT-PUSH	38.665338118	-120.931776189	2	feet		B135-1	1/15/2008	1
HIGHWAY 50 SITE	03-ELD-50	B137	DIRECT-PUSH	38.663490590	-120.935310351	3	feet		B137-0	1/15/2008	0
HIGHWAY 50 SITE	03-ELD-50	B137	DIRECT-PUSH	38.663490590	-120.935310351	3	feet		B137-1	1/15/2008	1
HIGHWAY 50 SITE	03-ELD-50	B137	DIRECT-PUSH	38.663490590	-120.935310351	3	feet		B137-2	1/15/2008	2
HIGHWAY 50 SITE	03-ELD-50	B139	DIRECT-PUSH	38.662225727	-120.939136479	3	feet		B139-0	1/15/2008	0
HIGHWAY 50 SITE	03-ELD-50	B139	DIRECT-PUSH	38.662225727	-120.939136479	3	feet		B139-1	1/15/2008	1
HIGHWAY 50 SITE	03-ELD-50	B139	DIRECT-PUSH	38.662225727	-120.939136479	3	feet		B139-2	1/15/2008	2
HIGHWAY 50 SITE	03-ELD-50	B141	DIRECT-PUSH	38.661483168	-120.943078929	3	feet		B141-0	1/15/2008	0
HIGHWAY 50 SITE	03-ELD-50	B141	DIRECT-PUSH	38.661483168	-120.943078929	3	feet		B141-1	1/15/2008	1
HIGHWAY 50 SITE	03-ELD-50	B141	DIRECT-PUSH	38.661483168	-120.943078929	3	feet		B141-2	1/15/2008	2
HIGHWAY 50 SITE	03-ELD-50	B142	DIRECT-PUSH	38.661102497	-120.945148669	3	feet		B142-0	1/15/2008	0
HIGHWAY 50 SITE	03-ELD-50	B142	DIRECT-PUSH	38.661102497	-120.945148669	3	feet		B142-1	1/15/2008	1
HIGHWAY 50 SITE	03-ELD-50	B142	DIRECT-PUSH	38.661102497	-120.945148669	3	feet		B142-2	1/15/2008	2
HIGHWAY 50 SITE	03-ELD-50	B144	DIRECT-PUSH	38.660357434	-120.949004859	3	feet		B144-0	1/15/2008	0
HIGHWAY 50 SITE	03-ELD-50	B144	DIRECT-PUSH	38.660357434	-120.949004859	3	feet		B144-1	1/15/2008	1
HIGHWAY 50 SITE	03-ELD-50	B144	DIRECT-PUSH	38.660357434	-120.949004859	3	feet		B144-2	1/15/2008	2
HIGHWAY 50 SITE	03-ELD-50	B146	DIRECT-PUSH	38.659732707	-120.953147369	3	feet		B146-0	1/15/2008	0
HIGHWAY 50 SITE	03-ELD-50	B146	DIRECT-PUSH	38.659732707	-120.953147369	3	feet		B146-1	1/15/2008	1
HIGHWAY 50 SITE	03-ELD-50	B146	DIRECT-PUSH	38.659732707	-120.953147369	3	feet		B 146-2	1/15/2008	2
HIGHWAY 50 SITE	03-ELD-50	B148	DIRECT-PUSH	38.659635707	-120.957569339	3	feet		B148-0	1/15/2008	0
HIGHWAY 50 SITE	03-ELD-50	B148	DIRECT-PUSH	38.659635707	-120.957569339	3	feet		B148-1	1/15/2008	1
HIGHWAY 50 SITE	03-ELD-50	B148	DIRECT-PUSH	38.659635707	-120.957569339	3	feet		B148-2	1/15/2008	2
HIGHWAY 50 SITE	03-ELD-50	B143	DIRECT-PUSH	38.660715317	-120.947136355	3	feet		B143-0	1/15/2008	0
HIGHWAY 50 SITE	03-ELD-50	B143	DIRECT-PUSH	38.660715317	-120.947136355	3	feet		B143-1	1/15/2008	1
HIGHWAY 50 SITE	03-ELD-50	B143	DIRECT-PUSH	38.660715317	-120.947136355	3	feet		B143-2	1/15/2008	2
HIGHWAY 50 SITE	03-ELD-50	B145	DIRECT-PUSH	38.660002566	-120.951004362	3	feet		B145-0	1/15/2008	0
HIGHWAY 50 SITE	03-ELD-50	B145	DIRECT-PUSH	38.660002566	-120.951004362	3	feet		B145-1	1/15/2008	1

Site ID	Roadway Segment ID	Borehole ID	Borehole Description	Borehole Latitude	Borehole Longitude	Borehole Depth	BHD Units	Parcel Number	Sample ID	Sample Date	Sample Depth
HIGHWAY 50 SITE	03-ELD-50	B145	DIRECT-PUSH	38.660002566	-120.951004362	3	feet		B145-2	1/15/2008	2
HIGHWAY 50 SITE	03-ELD-50	B147	DIRECT-PUSH	38.659650997	-120.955286836	3	feet		B147-0	1/15/2008	0
HIGHWAY 50 SITE	03-ELD-50	B147	DIRECT-PUSH	38.659650997	-120.955286836	3	feet		B147-1	1/15/2008	1
HIGHWAY 50 SITE	03-ELD-50	B147	DIRECT-PUSH	38.659650997	-120.955286836	3	feet		B147-2	1/15/2008	2
HIGHWAY 50 SITE	03-ELD-50	B149	DIRECT-PUSH	38.659604083	-120.959732396	3	feet		B149-0	1/15/2008	0
HIGHWAY 50 SITE	03-ELD-50	B149	DIRECT-PUSH	38.659604083	-120.959732396	3	feet		B149-1	1/15/2008	1
HIGHWAY 50 SITE	03-ELD-50	B149	DIRECT-PUSH	38.659604083	-120.959732396	3	feet		B149-2	1/15/2008	2
HIGHWAY 50 SITE	03-ELD-50	B150	DIRECT-PUSH	38.659582643	-120.961993352	3	feet		B150-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B150	DIRECT-PUSH	38.659582643	-120.961993352	3	feet		B150-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B150	DIRECT-PUSH	38.659582643	-120.961993352	3	feet		B150-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B152	DIRECT-PUSH	38.659541570	-120.966514626	2	feet		B152-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B152	DIRECT-PUSH	38.659541570	-120.966514626	2	feet		B152-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B154	DIRECT-PUSH	38.659483256	-120.972533710	3	feet		B154-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B154	DIRECT-PUSH	38.659483256	-120.972533710	3	feet		B154-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B154	DIRECT-PUSH	38.659483256	-120.972533710	3	feet		B154-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B160	DIRECT-PUSH	38.659439279	-120.977238594	1.5	feet		B160-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B160	DIRECT-PUSH	38.659439279	-120.977238594	1.5	feet		B160-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B151	DIRECT-PUSH	38.659561409	-120.964231837	3	feet		B151-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B151	DIRECT-PUSH	38.659561409	-120.964231837	3	feet		B151-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B151	DIRECT-PUSH	38.659561409	-120.964231837	3	feet		B151-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B153	DIRECT-PUSH	38.659505933	-120.970141310	3	feet		B153-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B153	DIRECT-PUSH	38.659505933	-120.970141310	3	feet		B153-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B153	DIRECT-PUSH	38.659505933	-120.970141310	3	feet		B153-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B155	DIRECT-PUSH	38.659457034	-120.975015661	3	feet		B155-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B155	DIRECT-PUSH	38.659457034	-120.975015661	3	feet		B155-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B155	DIRECT-PUSH	38.659457034	-120.975015661	3	feet		B155-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B161	DIRECT-PUSH	38.659238630	-120.979321750	3	feet		B161-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B161	DIRECT-PUSH	38.659238630	-120.979321750	3	feet		B161-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B161	DIRECT-PUSH	38.659238630	-120.979321750	3	feet		B161-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B162	DIRECT-PUSH	38.658562684	-120.981464677	3	feet		B162-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B162	DIRECT-PUSH	38.658562684	-120.981464677	3	feet		B162-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B162	DIRECT-PUSH	38.658562684	-120.981464677	3	feet		B162-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B164	DIRECT-PUSH	38.657299080	-120.985404908	3	feet		B164-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B164	DIRECT-PUSH	38.657299080	-120.985404908	3	feet		B164-1	1/16/2008	1

Site ID	Roadway Segment ID	Borehole ID	Borehole Description	Borehole Latitude	Borehole Longitude	Borehole Depth	BHD Units	Parcel Number	Sample ID	Sample Date	Sample Depth
HIGHWAY 50 SITE	03-ELD-50	B164	DIRECT-PUSH	38.657299080	-120.985404908	3	feet		B164-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B166	DIRECT-PUSH	38.657399806	-120.989551131	3	feet		B166-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B166	DIRECT-PUSH	38.657399806	-120.989551131	3	feet		B166-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B166	DIRECT-PUSH	38.657399806	-120.989551131	3	feet		B166-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B168	DIRECT-PUSH	38.657310786	-120.994357957	3	feet		B168-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B168	DIRECT-PUSH	38.657310786	-120.994357957	3	feet		B168-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B168	DIRECT-PUSH	38.657310786	-120.994357957	3	feet		B168-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B163	DIRECT-PUSH	38.657921188	-120.983320013	3	feet		B163-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B163	DIRECT-PUSH	38.657921188	-120.983320013	3	feet		B163-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B163	DIRECT-PUSH	38.657921188	-120.983320013	3	feet		B163-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B165	DIRECT-PUSH	38.657188769	-120.987490136	3	feet		B165-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B165	DIRECT-PUSH	38.657188769	-120.987490136	3	feet		B165-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B165	DIRECT-PUSH	38.657188769	-120.987490136	3	feet		B165-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B167	DIRECT-PUSH	38.657565927	-120.991866907	3	feet		B167-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B167	DIRECT-PUSH	38.657565927	-120.991866907	3	feet		B167-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B167	DIRECT-PUSH	38.657565927	-120.991866907	3	feet		B167-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B169	DIRECT-PUSH	38.656929349	-120.996672832	3	feet		B169-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B169	DIRECT-PUSH	38.656929349	-120.996672832	3	feet		B169-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B169	DIRECT-PUSH	38.656929349	-120.996672832	3	feet		B169-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B170	DIRECT-PUSH	38.656587280	-120.998850626	3	feet		B170-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B170	DIRECT-PUSH	38.656587280	-120.998850626	3	feet		B170-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B170	DIRECT-PUSH	38.656587280	-120.998850626	3	feet		B170-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B172	DIRECT-PUSH	38.655953996	-121.004576915	3	feet		B172-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B172	DIRECT-PUSH	38.655953996	-121.004576915	3	feet		B172-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B172	DIRECT-PUSH	38.655953996	-121.004576915	3	feet		B172-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B174	DIRECT-PUSH	38.655575435	-121.009904085	2	feet		B174-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B174	DIRECT-PUSH	38.655575435	-121.009904085	2	feet		B174-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B176	DIRECT-PUSH	38.655234971	-121.014613262	3	feet		B176-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B176	DIRECT-PUSH	38.655234971	-121.014613262	3	feet		B176-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B176	DIRECT-PUSH	38.655234971	-121.014613262	3	feet		B176-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B171	DIRECT-PUSH	38.656242681	-121.001281312	2.5	feet		B171-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B171	DIRECT-PUSH	38.656242681	-121.001281312	2.5	feet		B171-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B171	DIRECT-PUSH	38.656242681	-121.001281312	2.5	feet		B171-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B173	DIRECT-PUSH	38.655777451	-121.007138087	3	feet		B173-0	1/16/2008	0

Site ID	Roadway Segment ID	Borehole ID	Borehole Description	Borehole Latitude	Borehole Longitude	Borehole Depth	BHD Units	Parcel Number	Sample ID	Sample Date	Sample Depth
HIGHWAY 50 SITE	03-ELD-50	B173	DIRECT-PUSH	38.655777451	-121.007138087	3	feet		B173-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B173	DIRECT-PUSH	38.655777451	-121.007138087	3	feet		B173-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B175	DIRECT-PUSH	38.655404906	-121.012254846	3	feet		B175-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B175	DIRECT-PUSH	38.655404906	-121.012254846	3	feet		B175-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B177	DIRECT-PUSH	38.655165542	-121.017565019	3	feet		B177-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B177	DIRECT-PUSH	38.655165542	-121.017565019	3	feet		B177-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B177	DIRECT-PUSH	38.655165542	-121.017565019	3	feet		B177-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B178	DIRECT-PUSH	38.655215227	-121.020126066	3	feet		B178-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B178	DIRECT-PUSH	38.655215227	-121.020126066	3	feet		B178-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B178	DIRECT-PUSH	38.655215227	-121.020126066	3	feet		B178-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B180	DIRECT-PUSH			3	feet		B180-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B180	DIRECT-PUSH			3	feet		B180-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B180	DIRECT-PUSH			3	feet		B180-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B182	DIRECT-PUSH	38.655369376	-121.030633905	3	feet		B182-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B182	DIRECT-PUSH	38.655369376	-121.030633905	3	feet		B182-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B182	DIRECT-PUSH	38.655369376	-121.030633905	3	feet		B182-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B179	DIRECT-PUSH	38.655247788	-121.022661051	3	feet		B179-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B179	DIRECT-PUSH	38.655247788	-121.022661051	3	feet		B179-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B179	DIRECT-PUSH	38.655247788	-121.022661051	3	feet		B179-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B181	DIRECT-PUSH			3	feet		B181-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B181	DIRECT-PUSH			3	feet		B181-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B181	DIRECT-PUSH			3	feet		B181-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B187	DIRECT-PUSH	38.659650771	-120.973953821	3	feet		B187-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B187	DIRECT-PUSH	38.659650771	-120.973953821	3	feet		B187-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B187	DIRECT-PUSH	38.659650771	-120.973953821	3	feet		B187-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B188	DIRECT-PUSH	38.659619997	-120.975238947	3	feet		B188-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B188	DIRECT-PUSH	38.659619997	-120.975238947	3	feet		B188-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B188	DIRECT-PUSH	38.659619997	-120.975238947	3	feet		B188-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B189	DIRECT-PUSH	38.659604748	-120.976882813	3	feet		B189-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B189	DIRECT-PUSH	38.659604748	-120.976882813	3	feet		B189-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B189	DIRECT-PUSH	38.659604748	-120.976882813	3	feet		B189-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B190	DIRECT-PUSH	38.659522666	-120.978550922	3	feet		B190-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B190	DIRECT-PUSH	38.659522666	-120.978550922	3	feet		B190-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B190	DIRECT-PUSH	38.659522666	-120.978550922	3	feet		B190-2	1/16/2008	2

Site ID	Roadway Segment ID	Borehole ID	Borehole Description	Borehole Latitude	Borehole Longitude	Borehole Depth	BHD Units	Parcel Number	Sample ID	Sample Date	Sample Depth
HIGHWAY 50 SITE	03-ELD-50	B191	DIRECT-PUSH	38.657735739	-120.984333571	3	feet		B191-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B191	DIRECT-PUSH	38.657735739	-120.984333571	3	feet		B191-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B191	DIRECT-PUSH	38.657735739	-120.984333571	3	feet		B191-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B192	DIRECT-PUSH	38.657580650	-120.985234683	3	feet		B192-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B192	DIRECT-PUSH	38.657580650	-120.985234683	3	feet		B192-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B192	DIRECT-PUSH	38.657580650	-120.985234683	3	feet		B192-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B193	DIRECT-PUSH	38.659327660	-120.979696714	3	feet		B193-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B193	DIRECT-PUSH	38.659327660	-120.979696714	3	feet		B193-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B193	DIRECT-PUSH	38.659327660	-120.979696714	3	feet		B193-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B194	DIRECT-PUSH	38.658380931	-120.982420562	3	feet		B194-0	1/16/2008	0
HIGHWAY 50 SITE	03-ELD-50	B194	DIRECT-PUSH	38.658380931	-120.982420562	3	feet		B194-1	1/16/2008	1
HIGHWAY 50 SITE	03-ELD-50	B194	DIRECT-PUSH	38.658380931	-120.982420562	3	feet		B194-2	1/16/2008	2
HIGHWAY 50 SITE	03-ELD-50	B46	HAND-AUGER	38.659884501	-120.970825517	3	feet		B46-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B46	HAND-AUGER	38.659884501	-120.970825517	3	feet		B46-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B46	HAND-AUGER	38.659884501	-120.970825517	3	feet		B46-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B47	HAND-AUGER	38.659741971	-120.972804838	3	feet		B47-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B47	HAND-AUGER	38.659741971	-120.972804838	3	feet		B47-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B47	HAND-AUGER	38.659741971	-120.972804838	3	feet		B47-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B48	HAND-AUGER	38.659709586	-120.974937997	3	feet		B48-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B48	HAND-AUGER	38.659709586	-120.974937997	3	feet		B48-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B48	HAND-AUGER	38.659709586	-120.974937997	3	feet		B48-2	11/27/2007	2
HIGHWAY 50 SITE	03-ELD-50	B49	HAND-AUGER	38.659681743	-120.977365410	3	feet		B49-0	11/27/2007	0
HIGHWAY 50 SITE	03-ELD-50	B49	HAND-AUGER	38.659681743	-120.977365410	3	feet		B49-1	11/27/2007	1
HIGHWAY 50 SITE	03-ELD-50	B49	HAND-AUGER	38.659681743	-120.977365410	3	feet		B49-2	11/27/2007	2

Site ID	Contractor Borehole ID	Sample ID	Lab Analysis ID	Analysis Date	Result Units	Analyte	Values	Method Detection Limit
HIGHWAY 50 SITE INVESTIGATION	B16	B16-0	07-C15347	12/6/2007	mg/Kg	Lead	20	1
HIGHWAY 50 SITE INVESTIGATION	B16	B16-1	07-C15348	12/6/2007	mg/Kg	Lead	6.2	1
HIGHWAY 50 SITE INVESTIGATION	B17	B17-0	07-C15347	12/6/2007	mg/Kg	Lead	20	1
HIGHWAY 50 SITE INVESTIGATION	B17	B17-1	07-C15348	12/6/2007	mg/Kg	Lead	6.2	1
HIGHWAY 50 SITE INVESTIGATION	B18	B18-0	07-C15349	12/6/2007	mg/Kg	Lead	23	1
HIGHWAY 50 SITE INVESTIGATION	B18	B18-1	07-C15350	12/6/2007	mg/Kg	Lead	2.3	1
HIGHWAY 50 SITE INVESTIGATION	B18	B18-2	07-C15351	12/6/2007	mg/Kg	Lead	2.1	1
HIGHWAY 50 SITE INVESTIGATION	B19	B19-0	07-C15349	12/6/2007	mg/Kg	Lead	23	1
HIGHWAY 50 SITE INVESTIGATION	B19	B19-1	07-C15350	12/6/2007	mg/Kg	Lead	2.3	1
HIGHWAY 50 SITE INVESTIGATION	B20	B20-2	07-C15351	12/6/2007	mg/Kg	Lead	2.1	1
HIGHWAY 50 SITE INVESTIGATION	B20	B20-0	07-C15349	12/6/2007	mg/Kg	Lead	23	1
HIGHWAY 50 SITE INVESTIGATION	B20	B20-1	07-C15350	12/6/2007	mg/Kg	Lead	2.3	1
HIGHWAY 50 SITE INVESTIGATION	B50	B50-0	07-C15352	12/6/2007	mg/Kg	Lead	66	1
HIGHWAY 50 SITE INVESTIGATION	B50	B50-1	07-C15353	12/6/2007	mg/Kg	Lead	3.9	1
HIGHWAY 50 SITE INVESTIGATION	B50	B50-2	07-C15354	12/6/2007	mg/Kg	Lead	2	1
HIGHWAY 50 SITE INVESTIGATION	B52	B52-0	07-C15352	12/6/2007	mg/Kg	Lead	66	1
HIGHWAY 50 SITE INVESTIGATION	B52	B52-1	07-C15353	12/6/2007	mg/Kg	Lead	3.9	1
HIGHWAY 50 SITE INVESTIGATION	B52	B52-2	07-C15354	12/6/2007	mg/Kg	Lead	2	1
HIGHWAY 50 SITE INVESTIGATION	B54	B54-0	07-C15352	12/6/2007	mg/Kg	Lead	66	1
HIGHWAY 50 SITE INVESTIGATION	B54	B54-1	07-C15353	12/6/2007	mg/Kg	Lead	3.9	1
HIGHWAY 50 SITE INVESTIGATION	B56	B56-0	07-C15352	12/6/2007	mg/Kg	Lead	66	1
HIGHWAY 50 SITE INVESTIGATION	B56	B56-1	07-C15353	12/6/2007	mg/Kg	Lead	3.9	1
HIGHWAY 50 SITE INVESTIGATION	B51	B51-0	07-C15355	12/6/2007	mg/Kg	Lead	33	1
HIGHWAY 50 SITE INVESTIGATION	B51	B51-1	07-C15356	12/6/2007	mg/Kg	Lead	2.2	1
HIGHWAY 50 SITE INVESTIGATION	B51	B51-2	07-C15357	12/6/2007	mg/Kg	Lead	2.2	1
HIGHWAY 50 SITE INVESTIGATION	B53	B53-0	07-C15355	12/6/2007	mg/Kg	Lead	33	1
HIGHWAY 50 SITE INVESTIGATION	B53	B53-1	07-C15356	12/6/2007	mg/Kg	Lead	2.2	1
HIGHWAY 50 SITE INVESTIGATION	B55	B55-0	07-C15355	12/6/2007	mg/Kg	Lead	33	1
HIGHWAY 50 SITE INVESTIGATION	B55	B55-1	07-C15356	12/6/2007	mg/Kg	Lead	2.2	1
HIGHWAY 50 SITE INVESTIGATION	B55	B55-2	07-C15357	12/6/2007	mg/Kg	Lead	2.2	1
HIGHWAY 50 SITE INVESTIGATION	B57	B57-0	07-C15355	12/6/2007	mg/Kg	Lead	33	1
HIGHWAY 50 SITE INVESTIGATION	B57	B57-1	07-C15356	12/6/2007	mg/Kg	Lead	2.2	1
HIGHWAY 50 SITE INVESTIGATION	B57	B57-2	07-C15357	12/6/2007	mg/Kg	Lead	2.2	1

Site ID	Contractor Borehole ID	Sample ID	Lab Analysis ID	Analysis Date	Result Units	Analyte	Values	Method Detection Limit
HIGHWAY 50 SITE INVESTIGATION	B58	B58-0	07-C15358	12/6/2007	mg/Kg	Lead	33	1
HIGHWAY 50 SITE INVESTIGATION	B58	B58-1	07-C15359	12/6/2007	mg/Kg	Lead	1.9	1
HIGHWAY 50 SITE INVESTIGATION	B58	B58-2	07-C15360	12/6/2007	mg/Kg	Lead	2.3	1
HIGHWAY 50 SITE INVESTIGATION	B60	B60-0	07-C15358	12/6/2007	mg/Kg	Lead	33	1
HIGHWAY 50 SITE INVESTIGATION	B60	B60-1	07-C15359	12/6/2007	mg/Kg	Lead	1.9	1
HIGHWAY 50 SITE INVESTIGATION	B62	B62-0	07-C15358	12/6/2007	mg/Kg	Lead	33	1
HIGHWAY 50 SITE INVESTIGATION	B62	B62-1	07-C15359	12/6/2007	mg/Kg	Lead	1.9	1
HIGHWAY 50 SITE INVESTIGATION	B62	B62-2	07-C15360	12/6/2007	mg/Kg	Lead	2.3	1
HIGHWAY 50 SITE INVESTIGATION	B64	B64-0	07-C15358	12/6/2007	mg/Kg	Lead	33	1
HIGHWAY 50 SITE INVESTIGATION	B64	B64-1	07-C15359	12/6/2007	mg/Kg	Lead	1.9	1
HIGHWAY 50 SITE INVESTIGATION	B64	B64-2	07-C15360	12/6/2007	mg/Kg	Lead	2.3	1
HIGHWAY 50 SITE INVESTIGATION	B59	B59-0	07-C15361	12/6/2007	mg/Kg	Lead	70	1
HIGHWAY 50 SITE INVESTIGATION	B59	B59-1	07-C15362	12/6/2007	mg/Kg	Lead	1.7	1
HIGHWAY 50 SITE INVESTIGATION	B61	B61-0	07-C15361	12/6/2007	mg/Kg	Lead	70	1
HIGHWAY 50 SITE INVESTIGATION	B61	B61-1	07-C15362	12/6/2007	mg/Kg	Lead	1.7	1
HIGHWAY 50 SITE INVESTIGATION	B63	B63-0	07-C15361	12/6/2007	mg/Kg	Lead	70	1
HIGHWAY 50 SITE INVESTIGATION	B63	B63-1	07-C15362	12/6/2007	mg/Kg	Lead	1.7	1
HIGHWAY 50 SITE INVESTIGATION	B63	B63-2	07-C15363	12/6/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B65	B65-0	07-C15361	12/6/2007	mg/Kg	Lead	70	1
HIGHWAY 50 SITE INVESTIGATION	B65	B65-1	07-C15362	12/6/2007	mg/Kg	Lead	1.7	1
HIGHWAY 50 SITE INVESTIGATION	B66	B66-0	07-C15364	12/6/2007	mg/Kg	Lead	150	1
HIGHWAY 50 SITE INVESTIGATION	B66	B66-1	07-C15365	12/6/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B66	B66-2	07-C15366	12/6/2007	mg/Kg	Lead	1.3	1
HIGHWAY 50 SITE INVESTIGATION	B68	B68-0	07-C15364	12/6/2007	mg/Kg	Lead	150	1
HIGHWAY 50 SITE INVESTIGATION	B68	B68-1	07-C15365	12/6/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B68	B68-2	07-C15366	12/6/2007	mg/Kg	Lead	1.3	1
HIGHWAY 50 SITE INVESTIGATION	B70	B70-0	07-C15364	12/6/2007	mg/Kg	Lead	150	1
HIGHWAY 50 SITE INVESTIGATION	B70	B70-1	07-C15365	12/6/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B70	B70-2	07-C15366	12/6/2007	mg/Kg	Lead	1.3	1
HIGHWAY 50 SITE INVESTIGATION	B72	B72-0	07-C15364	12/6/2007	mg/Kg	Lead	150	1
HIGHWAY 50 SITE INVESTIGATION	B72	B72-1	07-C15365	12/6/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B72	B72-2	07-C15366	12/6/2007	mg/Kg	Lead	1.3	1
HIGHWAY 50 SITE INVESTIGATION	B67	B67-0	07-C15367	12/13/2007	mg/Kg	Lead	19	1

Site ID	Contractor Borehole ID	Sample ID	Lab Analysis ID	Analysis Date	Result Units	Analyte	Values	Method Detection Limit
HIGHWAY 50 SITE INVESTIGATION	B67	B67-1	07-C15368	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B67	B67-2	07-C15369	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B69	B69-0	07-C15367	12/13/2007	mg/Kg	Lead	19	1
HIGHWAY 50 SITE INVESTIGATION	B69	B69-1	07-C15368	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B69	B69-2	07-C15369	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B71	B71-0	07-C15367	12/13/2007	mg/Kg	Lead	19	1
HIGHWAY 50 SITE INVESTIGATION	B71	B71-1	07-C15368	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B71	B71-2	07-C15369	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B73	B73-0	07-C15367	12/13/2007	mg/Kg	Lead	19	1
HIGHWAY 50 SITE INVESTIGATION	B73	B73-1	07-C15368	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B73	B73-2	07-C15369	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B74	B74-0	07-C15370	12/13/2007	mg/Kg	Lead	9	1
HIGHWAY 50 SITE INVESTIGATION	B74	B74-1	07-C15371	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B74	B74-2	07-C15372	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B76	B76-0	07-C15370	12/13/2007	mg/Kg	Lead	9	1
HIGHWAY 50 SITE INVESTIGATION	B76	B76-1	07-C15371	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B76	B76-2	07-C15372	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B78	B78-0	07-C15370	12/13/2007	mg/Kg	Lead	9	1
HIGHWAY 50 SITE INVESTIGATION	B78	B78-1	07-C15371	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B78	B78-2	07-C15372	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B80	B80-0	07-C15370	12/13/2007	mg/Kg	Lead	9	1
HIGHWAY 50 SITE INVESTIGATION	B80	B80-1	07-C15371	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B80	B80-2	07-C15372	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B75	B75-0	07-C15373	12/13/2007	mg/Kg	Lead	31	1
HIGHWAY 50 SITE INVESTIGATION	B75	B75-1	07-C15374	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B75	B75-2	07-C15375	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B77	B77-0	07-C15373	12/13/2007	mg/Kg	Lead	31	1
HIGHWAY 50 SITE INVESTIGATION	B77	B77-1	07-C15374	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B77	B77-2	07-C15375	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B79	B79-0	07-C15373	12/13/2007	mg/Kg	Lead	31	1
HIGHWAY 50 SITE INVESTIGATION	B79	B79-1	07-C15374	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B79	B79-2	07-C15375	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B81	B81-0	07-C15373	12/13/2007	mg/Kg	Lead	31	1

Site ID	Contractor Borehole ID	Sample ID	Lab Analysis ID	Analysis Date	Result Units	Analyte	Values	Method Detection Limit
HIGHWAY 50 SITE INVESTIGATION	B81	B81-1	07-C15374	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B81	B81-2	07-C15375	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B82	B82-0	07-C15376	12/13/2007	mg/Kg	Lead	46	1
HIGHWAY 50 SITE INVESTIGATION	B82	B82-1	07-C15377	12/13/2007	mg/Kg	Lead	3.5	1
HIGHWAY 50 SITE INVESTIGATION	B82	B82-2	07-C15378	12/13/2007	mg/Kg	Lead	1.7	1
HIGHWAY 50 SITE INVESTIGATION	B84	B84-0	07-C15376	12/13/2007	mg/Kg	Lead	46	1
HIGHWAY 50 SITE INVESTIGATION	B84	B84-1	07-C15377	12/13/2007	mg/Kg	Lead	3.5	1
HIGHWAY 50 SITE INVESTIGATION	B84	B84-2	07-C15378	12/13/2007	mg/Kg	Lead	1.7	1
HIGHWAY 50 SITE INVESTIGATION	B86	B86-0	07-C15376	12/13/2007	mg/Kg	Lead	46	1
HIGHWAY 50 SITE INVESTIGATION	B86	B86-1	07-C15377	12/13/2007	mg/Kg	Lead	3.5	1
HIGHWAY 50 SITE INVESTIGATION	B86	B86-2	07-C15378	12/13/2007	mg/Kg	Lead	1.7	1
HIGHWAY 50 SITE INVESTIGATION	B88	B88-0	07-C15376	12/13/2007	mg/Kg	Lead	46	1
HIGHWAY 50 SITE INVESTIGATION	B88	B88-1	07-C15377	12/13/2007	mg/Kg	Lead	3.5	1
HIGHWAY 50 SITE INVESTIGATION	B88	B88-2	07-C15378	12/13/2007	mg/Kg	Lead	1.7	1
HIGHWAY 50 SITE INVESTIGATION	B90	B90-0	07-C15376	12/13/2007	mg/Kg	Lead	46	1
HIGHWAY 50 SITE INVESTIGATION	B90	B90-1	07-C15377	12/13/2007	mg/Kg	Lead	3.5	1
HIGHWAY 50 SITE INVESTIGATION	B83	B83-0	07-C15379	12/13/2007	mg/Kg	Lead	19	1
HIGHWAY 50 SITE INVESTIGATION	B83	B83-1	07-C15380	12/13/2007	mg/Kg	Lead	1.2	1
HIGHWAY 50 SITE INVESTIGATION	B83	B83-2	07-C15381	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B85	B85-0	07-C15379	12/13/2007	mg/Kg	Lead	19	1
HIGHWAY 50 SITE INVESTIGATION	B85	B85-1	07-C15380	12/13/2007	mg/Kg	Lead	1.2	1
HIGHWAY 50 SITE INVESTIGATION	B85	B85-2	07-C15381	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B87	B87-0	07-C15379	12/13/2007	mg/Kg	Lead	19	1
HIGHWAY 50 SITE INVESTIGATION	B87	B87-1	07-C15380	12/13/2007	mg/Kg	Lead	1.2	1
HIGHWAY 50 SITE INVESTIGATION	B87	B87-2	07-C15381	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B89	B89-0	07-C15379	12/13/2007	mg/Kg	Lead	19	1
HIGHWAY 50 SITE INVESTIGATION	B89	B89-1	07-C15380	12/13/2007	mg/Kg	Lead	1.2	1
HIGHWAY 50 SITE INVESTIGATION	B89	B89-2	07-C15381	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B91	B91-0	07-C15379	12/13/2007	mg/Kg	Lead	19	1
HIGHWAY 50 SITE INVESTIGATION	B91	B91-1	07-C15380	12/13/2007	mg/Kg	Lead	1.2	1
HIGHWAY 50 SITE INVESTIGATION	B91	B91-2	07-C15381	12/13/2007	mg/Kg	Lead	<1	1
HIGHWAY 50 SITE INVESTIGATION	B18	B18-0	07-C15349	12/12/2007	pH units	pH	7.4	0.1

Site ID	Contractor Borehole ID	Sample ID	Lab Analysis ID	Analysis Date	Result Units	Analyte	Values	Method Detection Limit
HIGHWAY 50 SITE INVESTIGATION	B19	B19-0	07-C15349	12/12/2007	pH units	pH	7.4	0.1
HIGHWAY 50 SITE INVESTIGATION	B20	B20-0	07-C15349	12/12/2007	pH units	pH	7.4	0.1
HIGHWAY 50 SITE INVESTIGATION	B58	B58-2	07-C15360	12/12/2007	pH units	pH	6.9	0.1
HIGHWAY 50 SITE INVESTIGATION	B62	B62-2	07-C15360	12/12/2007	pH units	pH	6.9	0.1
HIGHWAY 50 SITE INVESTIGATION	B64	B64-2	07-C15360	12/12/2007	pH units	pH	6.9	0.1
HIGHWAY 50 SITE INVESTIGATION	B67	B67-2	07-C15369	12/12/2007	pH units	pH	7	0.1
HIGHWAY 50 SITE INVESTIGATION	B69	B69-2	07-C15369	12/12/2007	pH units	pH	7	0.1
HIGHWAY 50 SITE INVESTIGATION	B71	B71-2	07-C15369	12/12/2007	pH units	pH	7	0.1
HIGHWAY 50 SITE INVESTIGATION	B73	B73-2	07-C15369	12/12/2007	pH units	pH	7	0.1
HIGHWAY 50 SITE INVESTIGATION	B82	B82-1	07-C15377	12/12/2007	pH units	pH	7.7	0.1
HIGHWAY 50 SITE INVESTIGATION	B84	B84-1	07-C15377	12/12/2007	pH units	pH	7.7	0.1
HIGHWAY 50 SITE INVESTIGATION	B86	B86-1	07-C15377	12/12/2007	pH units	pH	7.7	0.1
HIGHWAY 50 SITE INVESTIGATION	B88	B88-1	07-C15377	12/12/2007	pH units	pH	7.7	0.1
HIGHWAY 50 SITE INVESTIGATION	B90	B90-1	07-C15377	12/12/2007	pH units	pH	7.7	0.1
HIGHWAY 50 SITE INVESTIGATION	B46	B46-0	07-C15449	12/10/2007	mg/kg	Lead	28	0.4
HIGHWAY 50 SITE INVESTIGATION	B47	B47-0	07-C15449	12/10/2007	mg/kg	Lead	28	0.4
HIGHWAY 50 SITE INVESTIGATION	B48	B48-0	07-C15449	12/10/2007	mg/kg	Lead	28	0.4
HIGHWAY 50 SITE INVESTIGATION	B49	B49-0	07-C15449	12/10/2007	mg/kg	Lead	28	0.4
HIGHWAY 50 SITE INVESTIGATION	B46	B46-1	07-C15450	12/10/2007	mg/kg	Lead	2.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B47	B47-1	07-C15450	12/10/2007	mg/kg	Lead	2.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B48	B48-1	07-C15450	12/10/2007	mg/kg	Lead	2.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B49	B49-1	07-C15450	12/10/2007	mg/kg	Lead	2.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B46	B46-2	07-C15451	12/10/2007	mg/kg	Lead	0.9	0.4
HIGHWAY 50 SITE INVESTIGATION	B47	B47-2	07-C15451	12/10/2007	mg/kg	Lead	0.9	0.4
HIGHWAY 50 SITE INVESTIGATION	B48	B48-2	07-C15451	12/10/2007	mg/kg	Lead	0.9	0.4
HIGHWAY 50 SITE INVESTIGATION	B49	B49-2	07-C15451	12/10/2007	mg/kg	Lead	0.9	0.4
HIGHWAY 50 SITE INVESTIGATION	B104	B104-0	08-C883	1/28/2008	mg/kg	Lead	26	0.4
HIGHWAY 50 SITE INVESTIGATION	B104	B104-1	08-C884	1/28/2008	mg/kg	Lead	6.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B104	B104-2	08-C885	1/28/2008	mg/kg	Lead	5.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B106	B106-0	08-C883	1/28/2008	mg/kg	Lead	26	0.4

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HIGHWAY 50 SITE INVESTIGATION	B106	B106-1	08-C884	1/28/2008	mg/kg	Lead	6.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B106	B106-2	08-C885	1/28/2008	mg/kg	Lead	5.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B108	B108-0	08-C883	1/28/2008	mg/kg	Lead	26	0.4
HIGHWAY 50 SITE INVESTIGATION	B108	B108-1	08-C884	1/28/2008	mg/kg	Lead	6.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B108	B108-2	08-C885	1/28/2008	mg/kg	Lead	5.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B110	B110-0	08-C883	1/28/2008	mg/kg	Lead	26	0.4
HIGHWAY 50 SITE INVESTIGATION	B110	B110-1	08-C884	1/28/2008	mg/kg	Lead	6.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B110	B110-2	08-C885	1/28/2008	mg/kg	Lead	5.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B112	B112-0	08-C886	1/28/2008	mg/kg	Lead	5.8	0.4
HIGHWAY 50 SITE INVESTIGATION	B112	B112-1	08-C887	1/28/2008	mg/kg	Lead	4.6	0.4
HIGHWAY 50 SITE INVESTIGATION	B112	B112-2	08-C888	1/28/2008	mg/kg	Lead	3.5	0.4
HIGHWAY 50 SITE INVESTIGATION	B105	B105-0	08-C889	1/28/2008	mg/kg	Lead	26	0.4
HIGHWAY 50 SITE INVESTIGATION	B105	B105-1	08-C890	1/28/2008	mg/kg	Lead	1.7	0.4
HIGHWAY 50 SITE INVESTIGATION	B107	B107-0	08-C889	1/28/2008	mg/kg	Lead	26	0.4
HIGHWAY 50 SITE INVESTIGATION	B107	B107-1	08-C890	1/28/2008	mg/kg	Lead	1.7	0.4
HIGHWAY 50 SITE INVESTIGATION	B107	B107-2	08-C891	1/28/2008	mg/kg	Lead	3.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B109	B109-0	08-C889	1/28/2008	mg/kg	Lead	26	0.4
HIGHWAY 50 SITE INVESTIGATION	B109	B109-1	08-C890	1/28/2008	mg/kg	Lead	1.7	0.4
HIGHWAY 50 SITE INVESTIGATION	B109	B109-2	08-C891	1/28/2008	mg/kg	Lead	3.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B111	B111-0	08-C889	1/28/2008	mg/kg	Lead	26	0.4
HIGHWAY 50 SITE INVESTIGATION	B111	B111-1	08-C890	1/28/2008	mg/kg	Lead	1.7	0.4
HIGHWAY 50 SITE INVESTIGATION	B111	B111-2	08-C891	1/28/2008	mg/kg	Lead	3.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B114	B114-0	08-C892	1/28/2008	mg/kg	Lead	18	0.4
HIGHWAY 50 SITE INVESTIGATION	B114	B114-1	08-C893	1/28/2008	mg/kg	Lead	6.6	0.4
HIGHWAY 50 SITE INVESTIGATION	B114	B114-2	08-C894	1/28/2008	mg/kg	Lead	5.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B116	B116-0	08-C892	1/28/2008	mg/kg	Lead	18	0.4
HIGHWAY 50 SITE INVESTIGATION	B116	B116-1	08-C893	1/28/2008	mg/kg	Lead	6.6	0.4
HIGHWAY 50 SITE INVESTIGATION	B116	B116-2	08-C894	1/28/2008	mg/kg	Lead	5.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B118	B118-0	08-C892	1/28/2008	mg/kg	Lead	18	0.4
HIGHWAY 50 SITE INVESTIGATION	B118	B118-1	08-C893	1/28/2008	mg/kg	Lead	6.6	0.4
HIGHWAY 50 SITE INVESTIGATION	B118	B118-2	08-C894	1/28/2008	mg/kg	Lead	5.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B120	B120-0	08-C892	1/28/2008	mg/kg	Lead	18	0.4
HIGHWAY 50 SITE INVESTIGATION	B120	B120-1	08-C893	1/28/2008	mg/kg	Lead	6.6	0.4

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HIGHWAY 50 SITE INVESTIGATION	B120	B120-2	08-C894	1/28/2008	mg/kg	Lead	5.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B113	B113-0	08-C895	1/28/2008	mg/kg	Lead	16	0.4
HIGHWAY 50 SITE INVESTIGATION	B113	B113-1	08-C896	1/28/2008	mg/kg	Lead	4.8	0.4
HIGHWAY 50 SITE INVESTIGATION	B115	B115-0	08-C895	1/28/2008	mg/kg	Lead	16	0.4
HIGHWAY 50 SITE INVESTIGATION	B115	B115-1	08-C896	1/28/2008	mg/kg	Lead	4.8	0.4
HIGHWAY 50 SITE INVESTIGATION	B115	B115-2	08-C897	1/28/2008	mg/kg	Lead	6	0.4
HIGHWAY 50 SITE INVESTIGATION	B117	B117-0	08-C895	1/28/2008	mg/kg	Lead	16	0.4
HIGHWAY 50 SITE INVESTIGATION	B117	B117-1	08-C896	1/28/2008	mg/kg	Lead	4.8	0.4
HIGHWAY 50 SITE INVESTIGATION	B117	B117-2	08-C897	1/28/2008	mg/kg	Lead	6	0.4
HIGHWAY 50 SITE INVESTIGATION	B119	B119-0	08-C895	1/28/2008	mg/kg	Lead	16	0.4
HIGHWAY 50 SITE INVESTIGATION	B119	B119-1	08-C896	1/28/2008	mg/kg	Lead	4.8	0.4
HIGHWAY 50 SITE INVESTIGATION	B119	B119-2	08-C897	1/28/2008	mg/kg	Lead	6	0.4
HIGHWAY 50 SITE INVESTIGATION	B121	B121-0	08-C898	1/28/2008	mg/kg	Lead	14	0.4
HIGHWAY 50 SITE INVESTIGATION	B121	B121-1	08-C899	1/28/2008	mg/kg	Lead	2.7	0.4
HIGHWAY 50 SITE INVESTIGATION	B121	B121-2	08-C900	1/28/2008	mg/kg	Lead	2.7	0.4
HIGHWAY 50 SITE INVESTIGATION	B123	B123-0	08-C898	1/28/2008	mg/kg	Lead	14	0.4
HIGHWAY 50 SITE INVESTIGATION	B123	B123-1	08-C899	1/28/2008	mg/kg	Lead	2.7	0.4
HIGHWAY 50 SITE INVESTIGATION	B123	B123-2	08-C900	1/28/2008	mg/kg	Lead	2.7	0.4
HIGHWAY 50 SITE INVESTIGATION	B125	B125-0	08-C898	1/28/2008	mg/kg	Lead	14	0.4
HIGHWAY 50 SITE INVESTIGATION	B125	B125-1	08-C899	1/28/2008	mg/kg	Lead	2.7	0.4
HIGHWAY 50 SITE INVESTIGATION	B125	B125-2	08-C900	1/28/2008	mg/kg	Lead	2.7	0.4
HIGHWAY 50 SITE INVESTIGATION	B127	B127-0	08-C898	1/28/2008	mg/kg	Lead	14	0.4
HIGHWAY 50 SITE INVESTIGATION	B127	B127-1	08-C899	1/28/2008	mg/kg	Lead	2.7	0.4
HIGHWAY 50 SITE INVESTIGATION	B127	B127-2	08-C900	1/28/2008	mg/kg	Lead	2.7	0.4
HIGHWAY 50 SITE INVESTIGATION	B122	B122-0	08-C901	1/28/2008	mg/kg	Lead	15	0.4
HIGHWAY 50 SITE INVESTIGATION	B122	B122-1	08-C902	1/28/2008	mg/kg	Lead	0.6	0.4
HIGHWAY 50 SITE INVESTIGATION	B122	B122-2	08-C903	1/28/2008	mg/kg	Lead	2.1	0.4
HIGHWAY 50 SITE INVESTIGATION	B124	B124-0	08-C901	1/28/2008	mg/kg	Lead	15	0.4
HIGHWAY 50 SITE INVESTIGATION	B124	B124-1	08-C902	1/28/2008	mg/kg	Lead	0.6	0.4
HIGHWAY 50 SITE INVESTIGATION	B124	B124-2	08-C903	1/28/2008	mg/kg	Lead	2.1	0.4
HIGHWAY 50 SITE INVESTIGATION	B126	B126-0	08-C901	1/28/2008	mg/kg	Lead	15	0.4
HIGHWAY 50 SITE INVESTIGATION	B126	B126-1	08-C902	1/28/2008	mg/kg	Lead	0.6	0.4
HIGHWAY 50 SITE INVESTIGATION	B126	B126-2	08-C903	1/28/2008	mg/kg	Lead	2.1	0.4

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HIGHWAY 50 SITE INVESTIGATION	B128	B128-0	08-C901	1/28/2008	mg/kg	Lead	15	0.4
HIGHWAY 50 SITE INVESTIGATION	B128	B128-1	08-C902	1/28/2008	mg/kg	Lead	0.6	0.4
HIGHWAY 50 SITE INVESTIGATION	B128	B128-2	08-C903	1/28/2008	mg/kg	Lead	2.1	0.4
HIGHWAY 50 SITE INVESTIGATION	B129	B129-0	08-C904	1/28/2008	mg/kg	Lead	44	0.4
HIGHWAY 50 SITE INVESTIGATION	B129	B129-1	08-C905	1/28/2008	mg/kg	Lead	<0.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B129	B129-2	08-C906	1/28/2008	mg/kg	Lead	1.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B131	B131-0	08-C904	1/28/2008	mg/kg	Lead	44	0.4
HIGHWAY 50 SITE INVESTIGATION	B131	B131-1	08-C905	1/28/2008	mg/kg	Lead	<0.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B131	B131-2	08-C906	1/28/2008	mg/kg	Lead	1.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B133	B133-0	08-C904	1/28/2008	mg/kg	Lead	44	0.4
HIGHWAY 50 SITE INVESTIGATION	B133	B133-1	08-C905	1/28/2008	mg/kg	Lead	<0.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B133	B133-2	08-C906	1/28/2008	mg/kg	Lead	1.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B130	B130-0	08-C907	1/28/2008	mg/kg	Lead	14	0.4
HIGHWAY 50 SITE INVESTIGATION	B132	B132-0	08-C907	1/28/2008	mg/kg	Lead	14	0.4
HIGHWAY 50 SITE INVESTIGATION	B130	B130-1	08-C908	1/28/2008	mg/kg	Lead	2.1	0.4
HIGHWAY 50 SITE INVESTIGATION	B132	B132-1	08-C908	1/28/2008	mg/kg	Lead	2.1	0.4
HIGHWAY 50 SITE INVESTIGATION	B130	B130-2	08-C909	1/28/2008	mg/kg	Lead	3.2	0.4
HIGHWAY 50 SITE INVESTIGATION	B132	B132-2	08-C909	1/28/2008	mg/kg	Lead	3.2	0.4
HIGHWAY 50 SITE INVESTIGATION	B134	B134-0	08-C910	1/28/2008	mg/kg	Lead	25	0.4
HIGHWAY 50 SITE INVESTIGATION	B134	B134-1	08-C911	1/28/2008	mg/kg	Lead	0.5	0.4
HIGHWAY 50 SITE INVESTIGATION	B134	B134-2	08-C912	1/28/2008	mg/kg	Lead	5	0.4
HIGHWAY 50 SITE INVESTIGATION	B136	B136-0	08-C910	1/28/2008	mg/kg	Lead	25	0.4
HIGHWAY 50 SITE INVESTIGATION	B136	B136-1	08-C911	1/28/2008	mg/kg	Lead	0.5	0.4
HIGHWAY 50 SITE INVESTIGATION	B136	B136-2	08-C912	1/28/2008	mg/kg	Lead	5	0.4
HIGHWAY 50 SITE INVESTIGATION	B138	B138-0	08-C910	1/28/2008	mg/kg	Lead	25	0.4
HIGHWAY 50 SITE INVESTIGATION	B138	B138-1	08-C911	1/28/2008	mg/kg	Lead	0.5	0.4
HIGHWAY 50 SITE INVESTIGATION	B138	B138-2	08-C912	1/28/2008	mg/kg	Lead	5	0.4
HIGHWAY 50 SITE INVESTIGATION	B140	B140-0	08-C910	1/28/2008	mg/kg	Lead	25	0.4
HIGHWAY 50 SITE INVESTIGATION	B140	B140-1	08-C911	1/28/2008	mg/kg	Lead	0.5	0.4
HIGHWAY 50 SITE INVESTIGATION	B140	B140-2	08-C912	1/28/2008	mg/kg	Lead	5	0.4
HIGHWAY 50 SITE INVESTIGATION	B135	B135-0	08-C913	1/28/2008	mg/kg	Lead	46	0.4
HIGHWAY 50 SITE INVESTIGATION	B135	B135-1	08-C914	1/28/2008	mg/kg	Lead	1.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B137	B137-0	08-C913	1/28/2008	mg/kg	Lead	46	0.4

Site ID	Contractor Borehole ID	Sample ID	Lab Analysis ID	Analysis Date	Result Units	Analyte	Method Values	Detection Limit
HIGHWAY 50 SITE INVESTIGATION	B137	B137-1	08-C914	1/28/2008	mg/kg	Lead	1.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B137	B137-2	08-C915	1/29/2008	mg/kg	Lead	2.1	0.4
HIGHWAY 50 SITE INVESTIGATION	B139	B139-0	08-C913	1/28/2008	mg/kg	Lead	46	0.4
HIGHWAY 50 SITE INVESTIGATION	B139	B139-1	08-C914	1/28/2008	mg/kg	Lead	1.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B139	B139-2	08-C915	1/29/2008	mg/kg	Lead	2.1	0.4
HIGHWAY 50 SITE INVESTIGATION	B141	B141-0	08-C913	1/28/2008	mg/kg	Lead	46	0.4
HIGHWAY 50 SITE INVESTIGATION	B141	B141-1	08-C914	1/28/2008	mg/kg	Lead	1.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B141	B141-2	08-C915	1/29/2008	mg/kg	Lead	2.1	0.4
HIGHWAY 50 SITE INVESTIGATION	B142	B142-0	08-C916	1/29/2008	mg/kg	Lead	3.1	0.4
HIGHWAY 50 SITE INVESTIGATION	B142	B142-1	08-C917	1/29/2008	mg/kg	Lead	2.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B142	B142-2	08-C918	1/29/2008	mg/kg	Lead	0.8	0.4
HIGHWAY 50 SITE INVESTIGATION	B144	B144-0	08-C916	1/29/2008	mg/kg	Lead	3.1	0.4
HIGHWAY 50 SITE INVESTIGATION	B144	B144-1	08-C917	1/29/2008	mg/kg	Lead	2.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B144	B144-2	08-C918	1/29/2008	mg/kg	Lead	0.8	0.4
HIGHWAY 50 SITE INVESTIGATION	B146	B146-0	08-C916	1/29/2008	mg/kg	Lead	3.1	0.4
HIGHWAY 50 SITE INVESTIGATION	B146	B146-1	08-C917	1/29/2008	mg/kg	Lead	2.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B146	B146-2	08-C918	1/29/2008	mg/kg	Lead	0.8	0.4
HIGHWAY 50 SITE INVESTIGATION	B148	B148-0	08-C916	1/29/2008	mg/kg	Lead	3.1	0.4
HIGHWAY 50 SITE INVESTIGATION	B148	B148-1	08-C917	1/29/2008	mg/kg	Lead	2.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B148	B148-2	08-C918	1/29/2008	mg/kg	Lead	0.8	0.4
HIGHWAY 50 SITE INVESTIGATION	B143	B143-0	08-C919	1/29/2008	mg/kg	Lead	33	0.4
HIGHWAY 50 SITE INVESTIGATION	B143	B143-1	08-C920	1/29/2008	mg/kg	Lead	1.8	0.4
HIGHWAY 50 SITE INVESTIGATION	B143	B143-2	08-C921	1/29/2008	mg/kg	Lead	0.5	0.4
HIGHWAY 50 SITE INVESTIGATION	B145	B145-0	08-C919	1/29/2008	mg/kg	Lead	33	0.4
HIGHWAY 50 SITE INVESTIGATION	B145	B145-1	08-C920	1/29/2008	mg/kg	Lead	1.8	0.4
HIGHWAY 50 SITE INVESTIGATION	B145	B145-2	08-C921	1/29/2008	mg/kg	Lead	0.5	0.4
HIGHWAY 50 SITE INVESTIGATION	B147	B147-0	08-C919	1/29/2008	mg/kg	Lead	33	0.4
HIGHWAY 50 SITE INVESTIGATION	B147	B147-1	08-C920	1/29/2008	mg/kg	Lead	1.8	0.4
HIGHWAY 50 SITE INVESTIGATION	B147	B147-2	08-C921	1/29/2008	mg/kg	Lead	0.5	0.4
HIGHWAY 50 SITE INVESTIGATION	B149	B149-0	08-C919	1/29/2008	mg/kg	Lead	33	0.4
HIGHWAY 50 SITE INVESTIGATION	B149	B149-1	08-C920	1/29/2008	mg/kg	Lead	1.8	0.4
HIGHWAY 50 SITE INVESTIGATION	B149	B149-2	08-C921	1/29/2008	mg/kg	Lead	0.5	0.4
HIGHWAY 50 SITE INVESTIGATION	B150	B150-0	08-C922	1/29/2008	mg/kg	Lead	8.2	0.4

Site ID	Contractor Borehole ID	Sample ID	Lab Analysis ID	Analysis Date	Result Units	Analyte	Method Values	Detection Limit
HIGHWAY 50 SITE INVESTIGATION	B150	B150-1	08-C923	1/29/2008	mg/kg	Lead	2.5	0.4
HIGHWAY 50 SITE INVESTIGATION	B150	B150-2	08-C924	1/29/2008	mg/kg	Lead	1.1	0.4
HIGHWAY 50 SITE INVESTIGATION	B152	B152-0	08-C922	1/29/2008	mg/kg	Lead	8.2	0.4
HIGHWAY 50 SITE INVESTIGATION	B152	B152-1	08-C923	1/29/2008	mg/kg	Lead	2.5	0.4
HIGHWAY 50 SITE INVESTIGATION	B154	B154-0	08-C922	1/29/2008	mg/kg	Lead	8.2	0.4
HIGHWAY 50 SITE INVESTIGATION	B154	B154-1	08-C923	1/29/2008	mg/kg	Lead	2.5	0.4
HIGHWAY 50 SITE INVESTIGATION	B154	B154-2	08-C924	1/29/2008	mg/kg	Lead	1.1	0.4
HIGHWAY 50 SITE INVESTIGATION	B160	B160-0	08-C922	1/29/2008	mg/kg	Lead	8.2	0.4
HIGHWAY 50 SITE INVESTIGATION	B160	B160-1	08-C923	1/29/2008	mg/kg	Lead	2.5	0.4
HIGHWAY 50 SITE INVESTIGATION	B151	B151-0	08-C925	1/29/2008	mg/kg	Lead	79	0.4
HIGHWAY 50 SITE INVESTIGATION	B151	B151-1	08-C926	1/29/2008	mg/kg	Lead	2.2	0.4
HIGHWAY 50 SITE INVESTIGATION	B151	B151-2	08-C927	1/29/2008	mg/kg	Lead	56	0.4
HIGHWAY 50 SITE INVESTIGATION	B153	B153-0	08-C925	1/29/2008	mg/kg	Lead	79	0.4
HIGHWAY 50 SITE INVESTIGATION	B153	B153-1	08-C926	1/29/2008	mg/kg	Lead	2.2	0.4
HIGHWAY 50 SITE INVESTIGATION	B153	B153-2	08-C927	1/29/2008	mg/kg	Lead	56	0.4
HIGHWAY 50 SITE INVESTIGATION	B155	B155-0	08-C925	1/29/2008	mg/kg	Lead	79	0.4
HIGHWAY 50 SITE INVESTIGATION	B155	B155-1	08-C926	1/29/2008	mg/kg	Lead	2.2	0.4
HIGHWAY 50 SITE INVESTIGATION	B155	B155-2	08-C927	1/29/2008	mg/kg	Lead	56	0.4
HIGHWAY 50 SITE INVESTIGATION	B161	B161-0	08-C925	1/29/2008	mg/kg	Lead	79	0.4
HIGHWAY 50 SITE INVESTIGATION	B161	B161-1	08-C926	1/29/2008	mg/kg	Lead	2.2	0.4
HIGHWAY 50 SITE INVESTIGATION	B161	B161-2	08-C927	1/29/2008	mg/kg	Lead	56	0.4
HIGHWAY 50 SITE INVESTIGATION	B162	B162-0	08-C928	1/29/2008	mg/kg	Lead	46	0.4
HIGHWAY 50 SITE INVESTIGATION	B162	B162-1	08-C929	1/29/2008	mg/kg	Lead	20	0.4
HIGHWAY 50 SITE INVESTIGATION	B162	B162-2	08-C930	1/29/2008	mg/kg	Lead	<0.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B164	B164-0	08-C928	1/29/2008	mg/kg	Lead	46	0.4
HIGHWAY 50 SITE INVESTIGATION	B164	B164-1	08-C929	1/29/2008	mg/kg	Lead	20	0.4
HIGHWAY 50 SITE INVESTIGATION	B164	B164-2	08-C930	1/29/2008	mg/kg	Lead	<0.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B166	B166-0	08-C928	1/29/2008	mg/kg	Lead	46	0.4
HIGHWAY 50 SITE INVESTIGATION	B166	B166-1	08-C929	1/29/2008	mg/kg	Lead	20	0.4
HIGHWAY 50 SITE INVESTIGATION	B166	B166-2	08-C930	1/29/2008	mg/kg	Lead	<0.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B168	B168-0	08-C928	1/29/2008	mg/kg	Lead	46	0.4
HIGHWAY 50 SITE INVESTIGATION	B168	B168-1	08-C929	1/29/2008	mg/kg	Lead	20	0.4
HIGHWAY 50 SITE INVESTIGATION	B168	B168-2	08-C930	1/29/2008	mg/kg	Lead	<0.4	0.4

Site ID	Contractor Borehole ID	Sample ID	Lab Analysis ID	Analysis Date	Result Units	Analyte	Method Values	Detection Limit
HIGHWAY 50 SITE INVESTIGATION	B163	B163-0	08-C931	1/29/2008	mg/kg	Lead	79	0.4
HIGHWAY 50 SITE INVESTIGATION	B163	B163-1	08-C932	1/29/2008	mg/kg	Lead	8.9	0.4
HIGHWAY 50 SITE INVESTIGATION	B163	B163-2	08-C933	1/29/2008	mg/kg	Lead	1.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B165	B165-0	08-C931	1/29/2008	mg/kg	Lead	79	0.4
HIGHWAY 50 SITE INVESTIGATION	B165	B165-1	08-C932	1/29/2008	mg/kg	Lead	8.9	0.4
HIGHWAY 50 SITE INVESTIGATION	B165	B165-2	08-C933	1/29/2008	mg/kg	Lead	1.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B167	B167-0	08-C931	1/29/2008	mg/kg	Lead	79	0.4
HIGHWAY 50 SITE INVESTIGATION	B167	B167-1	08-C932	1/29/2008	mg/kg	Lead	8.9	0.4
HIGHWAY 50 SITE INVESTIGATION	B167	B167-2	08-C933	1/29/2008	mg/kg	Lead	1.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B169	B169-0	08-C931	1/29/2008	mg/kg	Lead	79	0.4
HIGHWAY 50 SITE INVESTIGATION	B169	B169-1	08-C932	1/29/2008	mg/kg	Lead	8.9	0.4
HIGHWAY 50 SITE INVESTIGATION	B169	B169-2	08-C933	1/29/2008	mg/kg	Lead	1.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B170	B170-0	08-C934	1/29/2008	mg/kg	Lead	23	0.4
HIGHWAY 50 SITE INVESTIGATION	B170	B170-1	08-C935	1/29/2008	mg/kg	Lead	2.7	0.4
HIGHWAY 50 SITE INVESTIGATION	B170	B170-2	08-C936	1/29/2008	mg/kg	Lead	4.5	0.4
HIGHWAY 50 SITE INVESTIGATION	B172	B172-0	08-C934	1/29/2008	mg/kg	Lead	23	0.4
HIGHWAY 50 SITE INVESTIGATION	B172	B172-1	08-C935	1/29/2008	mg/kg	Lead	2.7	0.4
HIGHWAY 50 SITE INVESTIGATION	B172	B172-2	08-C936	1/29/2008	mg/kg	Lead	4.5	0.4
HIGHWAY 50 SITE INVESTIGATION	B174	B174-0	08-C934	1/29/2008	mg/kg	Lead	23	0.4
HIGHWAY 50 SITE INVESTIGATION	B174	B174-1	08-C935	1/29/2008	mg/kg	Lead	2.7	0.4
HIGHWAY 50 SITE INVESTIGATION	B176	B176-0	08-C934	1/29/2008	mg/kg	Lead	23	0.4
HIGHWAY 50 SITE INVESTIGATION	B176	B176-1	08-C935	1/29/2008	mg/kg	Lead	2.7	0.4
HIGHWAY 50 SITE INVESTIGATION	B176	B176-2	08-C936	1/29/2008	mg/kg	Lead	4.5	0.4
HIGHWAY 50 SITE INVESTIGATION	B171	B171-0	08-C937	1/29/2008	mg/kg	Lead	17	0.4
HIGHWAY 50 SITE INVESTIGATION	B171	B171-1	08-C938	1/29/2008	mg/kg	Lead	1.6	0.4
HIGHWAY 50 SITE INVESTIGATION	B171	B171-2	08-C939	1/29/2008	mg/kg	Lead	1.9	0.4
HIGHWAY 50 SITE INVESTIGATION	B173	B173-0	08-C937	1/29/2008	mg/kg	Lead	17	0.4
HIGHWAY 50 SITE INVESTIGATION	B173	B173-1	08-C938	1/29/2008	mg/kg	Lead	1.6	0.4
HIGHWAY 50 SITE INVESTIGATION	B173	B173-2	08-C939	1/29/2008	mg/kg	Lead	1.9	0.4
HIGHWAY 50 SITE INVESTIGATION	B175	B175-0	08-C937	1/29/2008	mg/kg	Lead	17	0.4
HIGHWAY 50 SITE INVESTIGATION	B175	B175-1	08-C938	1/29/2008	mg/kg	Lead	1.6	0.4
HIGHWAY 50 SITE INVESTIGATION	B177	B177-0	08-C937	1/29/2008	mg/kg	Lead	17	0.4
HIGHWAY 50 SITE INVESTIGATION	B177	B177-1	08-C938	1/29/2008	mg/kg	Lead	1.6	0.4

Site ID	Contractor Borehole ID	Sample ID	Lab Analysis ID	Analysis Date	Result Units	Analyte	Method Values	Detection Limit
HIGHWAY 50 SITE INVESTIGATION	B177	B177-2	08-C939	1/29/2008	mg/kg	Lead	1.9	0.4
HIGHWAY 50 SITE INVESTIGATION	B178	B178-0	08-C940	1/29/2008	mg/kg	Lead	42	0.4
HIGHWAY 50 SITE INVESTIGATION	B178	B178-1	08-C941	1/29/2008	mg/kg	Lead	3.2	0.4
HIGHWAY 50 SITE INVESTIGATION	B178	B178-2	08-C942	1/29/2008	mg/kg	Lead	1.9	0.4
HIGHWAY 50 SITE INVESTIGATION	B180	B180-0	08-C940	1/29/2008	mg/kg	Lead	42	0.4
HIGHWAY 50 SITE INVESTIGATION	B180	B180-1	08-C941	1/29/2008	mg/kg	Lead	3.2	0.4
HIGHWAY 50 SITE INVESTIGATION	B180	B180-2	08-C942	1/29/2008	mg/kg	Lead	1.9	0.4
HIGHWAY 50 SITE INVESTIGATION	B182	B182-0	08-C940	1/29/2008	mg/kg	Lead	42	0.4
HIGHWAY 50 SITE INVESTIGATION	B182	B182-1	08-C941	1/29/2008	mg/kg	Lead	3.2	0.4
HIGHWAY 50 SITE INVESTIGATION	B182	B182-2	08-C942	1/29/2008	mg/kg	Lead	1.9	0.4
HIGHWAY 50 SITE INVESTIGATION	B179	B179-0	08-C943	1/29/2008	mg/kg	Lead	18	0.4
HIGHWAY 50 SITE INVESTIGATION	B179	B179-1	08-C944	1/29/2008	mg/kg	Lead	1.2	0.4
HIGHWAY 50 SITE INVESTIGATION	B179	B179-2	08-C945	1/29/2008	mg/kg	Lead	1.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B181	B181-0	08-C943	1/29/2008	mg/kg	Lead	18	0.4
HIGHWAY 50 SITE INVESTIGATION	B181	B181-1	08-C944	1/29/2008	mg/kg	Lead	1.2	0.4
HIGHWAY 50 SITE INVESTIGATION	B181	B181-2	08-C945	1/29/2008	mg/kg	Lead	1.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B187	B187-0	08-C949	1/25/2008	mg/kg	Lead	95	0.4
HIGHWAY 50 SITE INVESTIGATION	B187	B187-1	08-C950	1/25/2008	mg/kg	Lead	1	0.4
HIGHWAY 50 SITE INVESTIGATION	B187	B187-2	08-C951	1/25/2008	mg/kg	Lead	6.6	0.4
HIGHWAY 50 SITE INVESTIGATION	B188	B188-0	08-C949	1/25/2008	mg/kg	Lead	95	0.4
HIGHWAY 50 SITE INVESTIGATION	B188	B188-1	08-C950	1/25/2008	mg/kg	Lead	1	0.4
HIGHWAY 50 SITE INVESTIGATION	B188	B188-2	08-C951	1/25/2008	mg/kg	Lead	6.6	0.4
HIGHWAY 50 SITE INVESTIGATION	B189	B189-0	08-C949	1/25/2008	mg/kg	Lead	95	0.4
HIGHWAY 50 SITE INVESTIGATION	B189	B189-1	08-C950	1/25/2008	mg/kg	Lead	1	0.4
HIGHWAY 50 SITE INVESTIGATION	B189	B189-2	08-C951	1/25/2008	mg/kg	Lead	6.6	0.4
HIGHWAY 50 SITE INVESTIGATION	B190	B190-0	08-C949	1/25/2008	mg/kg	Lead	95	0.4
HIGHWAY 50 SITE INVESTIGATION	B190	B190-1	08-C950	1/25/2008	mg/kg	Lead	1	0.4
HIGHWAY 50 SITE INVESTIGATION	B190	B190-2	08-C951	1/25/2008	mg/kg	Lead	6.6	0.4
HIGHWAY 50 SITE INVESTIGATION	B191	B191-0	08-C952	1/25/2008	mg/kg	Lead	58	0.4
HIGHWAY 50 SITE INVESTIGATION	B191	B191-1	08-C953	1/25/2008	mg/kg	Lead	1.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B191	B191-2	08-C954	1/25/2008	mg/kg	Lead	1.9	0.4
HIGHWAY 50 SITE INVESTIGATION	B192	B192-0	08-C952	1/25/2008	mg/kg	Lead	58	0.4
HIGHWAY 50 SITE INVESTIGATION	B192	B192-1	08-C953	1/25/2008	mg/kg	Lead	1.3	0.4

Site ID	Contractor Borehole ID	Sample ID	Lab Analysis ID	Analysis Date	Result Units	Analyte	Method Values	Detection Limit
HIGHWAY 50 SITE INVESTIGATION	B192	B192-2	08-C954	1/25/2008	mg/kg	Lead	1.9	0.4
HIGHWAY 50 SITE INVESTIGATION	B193	B193-0	08-C952	1/25/2008	mg/kg	Lead	58	0.4
HIGHWAY 50 SITE INVESTIGATION	B193	B193-1	08-C953	1/25/2008	mg/kg	Lead	1.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B193	B193-2	08-C954	1/25/2008	mg/kg	Lead	1.9	0.4
HIGHWAY 50 SITE INVESTIGATION	B194	B194-0	08-C952	1/25/2008	mg/kg	Lead	58	0.4
HIGHWAY 50 SITE INVESTIGATION	B194	B194-1	08-C953	1/25/2008	mg/kg	Lead	1.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B194	B194-2	08-C954	1/25/2008	mg/kg	Lead	1.9	0.4
HIGHWAY 50 SITE INVESTIGATION	B156	B156-0	08-C957	1/25/2008	mg/kg	Lead	5.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B156	B156-1	08-C958	1/25/2008	mg/kg	Lead	1.9	0.4
HIGHWAY 50 SITE INVESTIGATION	B156	B156-2	08-C959	1/25/2008	mg/kg	Lead	0.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B157	B157-0	08-C957	1/25/2008	mg/kg	Lead	5.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B157	B157-1	08-C958	1/25/2008	mg/kg	Lead	1.9	0.4
HIGHWAY 50 SITE INVESTIGATION	B157	B157-2	08-C959	1/25/2008	mg/kg	Lead	0.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B158	B158-0	08-C957	1/25/2008	mg/kg	Lead	5.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B158	B158-1	08-C958	1/25/2008	mg/kg	Lead	1.9	0.4
HIGHWAY 50 SITE INVESTIGATION	B158	B158-2	08-C959	1/25/2008	mg/kg	Lead	0.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B159	B159-0	08-C957	1/25/2008	mg/kg	Lead	5.3	0.4
HIGHWAY 50 SITE INVESTIGATION	B159	B159-1	08-C958	1/25/2008	mg/kg	Lead	1.9	0.4
HIGHWAY 50 SITE INVESTIGATION	B159	B159-2	08-C959	1/25/2008	mg/kg	Lead	0.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B184	B184-0	08-C960	1/25/2008	mg/kg	Lead	22	0.4
HIGHWAY 50 SITE INVESTIGATION	B184	B184-1	08-C961	1/25/2008	mg/kg	Lead	<0.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B184	B184-2	08-C962	1/25/2008	mg/kg	Lead	0.5	0.4
HIGHWAY 50 SITE INVESTIGATION	B185	B185-0	08-C960	1/25/2008	mg/kg	Lead	22	0.4
HIGHWAY 50 SITE INVESTIGATION	B185	B185-1	08-C961	1/25/2008	mg/kg	Lead	<0.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B185	B185-2	08-C962	1/25/2008	mg/kg	Lead	0.5	0.4
HIGHWAY 50 SITE INVESTIGATION	B186	B186-0	08-C960	1/25/2008	mg/kg	Lead	22	0.4
HIGHWAY 50 SITE INVESTIGATION	B186	B186-1	08-C961	1/25/2008	mg/kg	Lead	<0.4	0.4
HIGHWAY 50 SITE INVESTIGATION	B186	B186-2	08-C962	1/25/2008	mg/kg	Lead	0.5	0.4
HIGHWAY 50 SITE INVESTIGATION	B104	B104-1	08-C884	2/4/2008	pH units	pH	9.6	0.1
HIGHWAY 50 SITE INVESTIGATION	B106	B106-1	08-C884	2/4/2008	pH units	pH	9.6	0.1
HIGHWAY 50 SITE INVESTIGATION	B108	B108-1	08-C884	2/4/2008	pH units	pH	9.6	0.1

Site ID	Contractor Borehole ID	Sample ID	Lab Analysis ID	Analysis Date	Result Units	Analyte	Values	Method Detection Limit
HIGHWAY 50 SITE INVESTIGATION	B110	B110-1	08-C884	2/4/2008	pH units	pH	9.6	0.1
HIGHWAY 50 SITE INVESTIGATION	B114	B114-2	08-C894	2/4/2008	pH units	pH	6.5	0.1
HIGHWAY 50 SITE INVESTIGATION	B116	B116-2	08-C894	2/4/2008	pH units	pH	6.5	0.1
HIGHWAY 50 SITE INVESTIGATION	B118	B118-2	08-C894	2/4/2008	pH units	pH	6.5	0.1
HIGHWAY 50 SITE INVESTIGATION	B120	B120-2	08-C894	2/4/2008	pH units	pH	6.5	0.1
HIGHWAY 50 SITE INVESTIGATION	B122	B122-0	08-C901	2/4/2008	pH units	pH	9.8	0.1
HIGHWAY 50 SITE INVESTIGATION	B124	B124-0	08-C901	2/4/2008	pH units	pH	9.8	0.1
HIGHWAY 50 SITE INVESTIGATION	B126	B126-0	08-C901	2/4/2008	pH units	pH	9.8	0.1
HIGHWAY 50 SITE INVESTIGATION	B128	B128-0	08-C901	2/4/2008	pH units	pH	9.8	0.1
HIGHWAY 50 SITE INVESTIGATION	B135	B135-0	08-C913	2/4/2008	pH units	pH	7.6	0.1
HIGHWAY 50 SITE INVESTIGATION	B137	B137-0	08-C913	2/4/2008	pH units	pH	7.6	0.1
HIGHWAY 50 SITE INVESTIGATION	B139	B139-0	08-C913	2/4/2008	pH units	pH	7.6	0.1
HIGHWAY 50 SITE INVESTIGATION	B141	B141-0	08-C913	2/4/2008	pH units	pH	7.6	0.1
HIGHWAY 50 SITE INVESTIGATION	B143	B143-2	08-C921	2/4/2008	pH units	pH	7.5	0.1
HIGHWAY 50 SITE INVESTIGATION	B145	B145-2	08-C921	2/4/2008	pH units	pH	7.5	0.1
HIGHWAY 50 SITE INVESTIGATION	B147	B147-2	08-C921	2/4/2008	pH units	pH	7.5	0.1
HIGHWAY 50 SITE INVESTIGATION	B149	B149-2	08-C921	2/4/2008	pH units	pH	7.5	0.1
HIGHWAY 50 SITE INVESTIGATION	B170	B170-1	08-C935	2/4/2008	pH units	pH	7.4	0.1
HIGHWAY 50 SITE INVESTIGATION	B172	B172-1	08-C935	2/4/2008	pH units	pH	7.4	0.1
HIGHWAY 50 SITE INVESTIGATION	B174	B174-1	08-C935	2/4/2008	pH units	pH	7.4	0.1
HIGHWAY 50 SITE INVESTIGATION	B176	B176-1	08-C935	2/4/2008	pH units	pH	7.4	0.1
HIGHWAY 50 SITE INVESTIGATION	B171	B171-0	08-C937	2/4/2008	pH units	pH	7.7	0.1
HIGHWAY 50 SITE INVESTIGATION	B173	B173-0	08-C937	2/4/2008	pH units	pH	7.7	0.1
HIGHWAY 50 SITE INVESTIGATION	B175	B175-0	08-C937	2/4/2008	pH units	pH	7.7	0.1
HIGHWAY 50 SITE INVESTIGATION	B177	B177-0	08-C937	2/4/2008	pH units	pH	7.7	0.1
HIGHWAY 50 SITE INVESTIGATION	B50	B50-0	07-C16197	12/27/2007	mg/l	Lead	2.2	0.04
HIGHWAY 50 SITE INVESTIGATION	B52	B52-0	07-C16197	12/27/2007	mg/l	Lead	2.2	0.04
HIGHWAY 50 SITE INVESTIGATION	B54	B54-0	07-C16197	12/27/2007	mg/l	Lead	2.2	0.04
HIGHWAY 50 SITE INVESTIGATION	B56	B56-0	07-C16197	12/27/2007	mg/l	Lead	2.2	0.04
HIGHWAY 50 SITE INVESTIGATION	B59	B59-0	07-C16198	12/27/2007	mg/l	Lead	6.0	0.04
HIGHWAY 50 SITE INVESTIGATION	B61	B61-0	07-C16198	12/27/2007	mg/l	Lead	6.0	0.04

Site ID	Contractor Borehole ID	Sample ID	Lab Analysis ID	Analysis Date	Result Units	Analyte	Values	Method Detection Limit
HIGHWAY 50 SITE INVESTIGATION	B63	B63-0	07-C16198	12/27/2007	mg/l	Lead	6.0	0.04
HIGHWAY 50 SITE INVESTIGATION	B65	B65-0	07-C16198	12/27/2007	mg/l	Lead	6.0	0.04
HIGHWAY 50 SITE INVESTIGATION	B66	B66-0	07-C16199	12/27/2007	mg/l	Lead	5.0	0.04
HIGHWAY 50 SITE INVESTIGATION	B68	B68-0	07-C16199	12/27/2007	mg/l	Lead	5.0	0.04
HIGHWAY 50 SITE INVESTIGATION	B70	B70-0	07-C16199	12/27/2007	mg/l	Lead	5.0	0.04
HIGHWAY 50 SITE INVESTIGATION	B72	B72-0	07-C16199	12/27/2007	mg/l	Lead	5.0	0.04
HIGHWAY 50 SITE INVESTIGATION	B151	B151-0	08-C2981	3/13/2008	mg/l	Lead	5.5	0.04
HIGHWAY 50 SITE INVESTIGATION	B153	B153-0	08-C2981	3/13/2008	mg/l	Lead	5.5	0.04
HIGHWAY 50 SITE INVESTIGATION	B155	B155-0	08-C2981	3/13/2008	mg/l	Lead	5.5	0.04
HIGHWAY 50 SITE INVESTIGATION	B161	B161-0	08-C2981	3/13/2008	mg/l	Lead	5.5	0.04
HIGHWAY 50 SITE INVESTIGATION	B151	B151-2	08-C2982	3/13/2008	mg/l	Lead	2.1	0.04
HIGHWAY 50 SITE INVESTIGATION	B153	B153-2	08-C2982	3/13/2008	mg/l	Lead	2.1	0.04
HIGHWAY 50 SITE INVESTIGATION	B155	B155-2	08-C2982	3/13/2008	mg/l	Lead	2.1	0.04
HIGHWAY 50 SITE INVESTIGATION	B161	B161-2	08-C2982	3/13/2008	mg/l	Lead	2.1	0.04
HIGHWAY 50 SITE INVESTIGATION	B163	B163-0	08-C2983	3/13/2008	mg/l	Lead	2.4	0.04
HIGHWAY 50 SITE INVESTIGATION	B165	B165-0	08-C2983	3/13/2008	mg/l	Lead	2.4	0.04
HIGHWAY 50 SITE INVESTIGATION	B167	B167-0	08-C2983	3/13/2008	mg/l	Lead	2.4	0.04
HIGHWAY 50 SITE INVESTIGATION	B169	B169-0	08-C2983	3/13/2008	mg/l	Lead	2.4	0.04

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