

LIMITED SITE INVESTIGATION REPORT



US 101 WILLOW ROAD INTERCHANGE PROJECT NIPOMO, CALIFORNIA

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GEOCON PROJECT No. E8506-06-01
CALTRANS EA No. 05-47450

MARCH 2010



Project No. E8506-06-01
March 4, 2010

Mr. Keith Meyer
Rajappan & Meyer Consulting Engineers, Inc.
1038 Leigh Avenue, Suite 100
San Jose, California 95126

Subject: LIMITED SITE INVESTIGATION REPORT
US 101 WILLOW ROAD INTERCHANGE PROJECT
NIPOMO, CALIFORNIA
CALTRANS EA NO. 05-47450

Dear Mr. Meyer:

Geocon has performed environmental engineering services at the subject site in general accordance with the scope of work outlined in our revised proposal dated November 25, 2009. The soil sampling activities were performed at the proposed location of the Willow Road interchange with US Route 101 in Nipomo, California.

The accompanying report summarizes the services performed including limited soil sample collection from borings advanced using hand-auger equipment and laboratory testing.

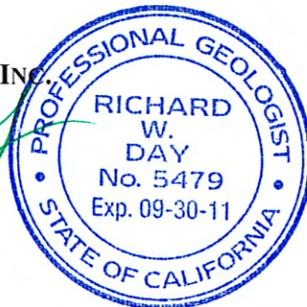
The contents of this report reflect the views of Geocon Consultants, Inc., who is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does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

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

Sincerely,

GEOCON CONSULTANTS, INC.


Richard Day, CEG, CHG
Vice President



RWD

(PDF) Addressee

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EXECUTIVE SUMMARY

This Limited Site Investigation Report for the US Route 101 (US 101) Willow Road Interchange Project was prepared by Geocon Consultants, Inc. at the request of Rajappan & Meyer Consulting Engineers, Inc. and in general accordance with our revised proposal dated November 25, 2009.

In order to improve traffic circulation, access, and relieve congestions within the Nipomo area, the County of San Luis Obispo proposes to construct a new interchange and connection of Willow Road with US 101 and provide a new County Road connection of Willow Road from US 101 east to Thompson Road. The project area includes the proposed US 101/Willow Road Interchange, between Post Miles (PM) 5.9/6.9 in Nipomo, San Luis Obispo County, California (the Site). Soil sampling was conducted on the US 101 northbound and southbound shoulders and at locations within proposed California Department of Transportation (Caltrans) right-of-way (ROW) along the proposed southbound on- and off-ramps. The site location is depicted on the Vicinity Map, Figure 1.

The purpose of the proposed scope of services is to evaluate whether impacts due to aerially deposited lead (ADL), other metals, pesticides, or naturally occurring asbestos (NOA) exist in the surface and near surface soil at the Site. The information obtained from this investigation will be used by Rajappan & Meyer to coordinate project activities and evaluate soil reuse/disposal options.

Geocon performed the site investigation on December 3 and 4, 2009, which consisted of the following field activities:

- Advanced 47 soil borings (B1 through B47) using hand-auger techniques. Borings B1 through B27 were advanced to a depth of 2.5 feet; borings B28 through B47 were advanced to a depth of 3.5 feet.
- Collected a total of 177 soil samples for selected analyses including total lead, CAM 17 metals, NOA, pesticides and pH.
- Transported samples to the analytical laboratories for analysis under standard chain-of-custody (COC) documentation.

Soils encountered during the field activities generally consisted of brown, organic-rich loam near the surface underlain by gravelly sand. Groundwater was not encountered during the advancement of the soil borings.

The analytical results are presented in Tables 2 through 4. Reproductions of the laboratory reports and chain-of-custody documentation are presented as Appendix B.

- Total lead was reported at concentrations ranging from less than (<) the laboratory reporting limit of 5.0 milligrams per kilogram (mg/kg) to 210 mg/kg.
- WET lead was reported at concentrations ranging from 2.8 to 30 mg/l.
- TCLP lead was reported at concentrations ranging from <0.25 to 2.2 mg/l.
- DI-WET lead was reported at concentrations ranging from <0.25 to 1.4 mg/l.
- The following total CAM 17 metals were reported in the samples at concentrations below their respective STLCs: barium, chromium, nickel, vanadium, and zinc; remaining total CAM 17 metals were not detected above their respective laboratory reporting limits.
- NOA was not detected above the 0.25% target analytical sensitivity.
- Pesticides were not detected above their respective laboratory reporting limits.
- Soil pH values ranged from 6.5 to 8.0.

US 101 Southbound Shoulder

Based on the total and soluble lead results, excavated soil would not be classified as a California hazardous waste since the predicted WET lead concentrations are less than the lead STLC of 5.0 mg/l.

US 101 Northbound Shoulder

Based on the total and soluble lead results, excavated soil would not be classified as a California hazardous waste since the predicted WET lead concentrations are less than the lead STLC of 5.0 mg/l.

US 101 Median

Based on the total and soluble lead results, soil excavated to a depth of 1 foot and handled separately would be classified as a California hazardous waste since the maximum-predicted WET lead concentrations are greater than the lead STLC of 5.0 mg/l. Based on the TCLP lead results, excavated soil would not be classified as a RCRA hazardous waste. Based on the DI-WET lead results, excavated soil may be reused onsite under the DTSC Variance (as Type Y1) by placing it beneath at least 1 foot of clean soil or a pavement structure. Underlying soil below a depth of 1 foot would be classified as non-hazardous.

If excavations are 1.5 feet or greater in depth and soil is managed as a whole, excavated soil would not be classified as a hazardous waste since the maximum-predicted WET lead concentrations are less than the lead STLC of 5.0 mg/l.

Agricultural Land East and West of US 101

Based on the total and soluble lead results, excavated soil would not be classified as a California hazardous waste since the predicted WET lead concentrations are less than the lead STLC of 5.0 mg/l.

Other CAM 17 Metals

The CAM 17 metals concentrations in site soil were compared to Environmental Screening Levels (ESLs, Table A, SFRWQCB, May 2008) and with published background levels typically present in California soils as presented in *Background Concentrations of Trace and Major Elements in California Soils* (Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California, March 1996). Reported concentrations of metals in the soil samples were less than their respective residential land use ESLs and are within published background concentration ranges.

Pesticides and NOA

Pesticides and NOA were not detected above their respective laboratory reporting limits in the soil samples analyzed.

Worker Protection

Per Caltrans' requirements, the contractor(s) should prepare a project-specific health and safety plan to prevent or minimize worker exposure to 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 impacted soil.

LIMITED SITE INVESTIGATION REPORT

1.0 INTRODUCTION

This Limited Site Investigation Report for the US Route 101 (US 101) Willow Road Interchange Project was prepared by Geocon Consultants, Inc. at the request of Rajappan & Meyer Consulting Engineers, Inc. and in general accordance with our revised proposal dated November 25, 2009.

1.1 Project Description and Proposed Improvements

In order to improve traffic circulation, access, and relieve congestions within the Nipomo area, the County of San Luis Obispo proposes to construct a new interchange and connection of Willow Road with US 101 and provide a new County Road connection of Willow Road from US 101 east to Thompson Road. The project area includes the proposed US 101/Willow Road Interchange, between Post Miles (PM) 5.9/6.9 in Nipomo, San Luis Obispo County, California (the Site). Soil sampling was conducted on the US 101 northbound and southbound shoulders and at locations within proposed California Department of Transportation (Caltrans) right-of-way (ROW) along the proposed southbound on- and off-ramps. The site location is depicted on the Vicinity Map, Figure 1.

1.2 Purpose

The purpose of the proposed scope of services is to evaluate whether impacts due to aerially deposited lead (ADL), other metals, pesticides, or naturally occurring asbestos (NOA) exist in the surface and near surface soil at the Site. The information obtained from this investigation will be used by Rajappan & Meyer to coordinate project activities and evaluate soil reuse/disposal options.

2.0 BACKGROUND

2.1 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 has the potential of exceeding the STLC when the waste's total metal content is greater than or equal to ten times the respective STLC value since the WET uses a 1:10 dilution ratio. Hence, when a total metal is detected at a concentration greater than or equal to ten times the respective STLC, and assuming that 100 percent of the total metals are soluble, soluble metal

analysis is required. A material is classified as RCRA hazardous, or Federal hazardous, when the soluble metal content exceeds the Federal regulatory level based on the Toxicity Characteristic Leaching Procedure (TCLP).

The above regulatory criteria are based on chemical concentrations. Wastes may also be classified as hazardous based on other criteria such as ignitability and corrosivity; however, for the purposes of this investigation, toxicity (i.e., lead concentrations) is the primary factor considered for waste classification since waste generated during the construction activities would not likely warrant testing for ignitability or other criteria. Waste that is classified as either California hazardous or RCRA hazardous requires management as a hazardous waste.

2.2 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 Variance is presented as Appendix A.

Caltrans Type Y1

ADL soil exhibiting a total lead concentration less than or equal to 1,411 milligrams per kilogram (mg/kg), a DI-WET (WET using deionized water as extractant) soluble lead concentration less than or equal to 1.5 milligrams per liter (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 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 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 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 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 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.

2.3 Naturally Occurring Asbestos

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

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

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

3.0 SCOPE OF SERVICES

We performed the following scope of services:

3.1 Pre-field Activities

- Prepared a site-specific health and safety plan to provide guidelines on the use of personal protective equipment and the health and safety procedures implemented during the field activities.
- Retained the services of Advanced Technology Laboratories (ATL) and EMSL Analytical, Inc. (EMSL) to perform the sample analyses.
- Marked proposed boring locations and notified Underground Service Alert (USA) at least 48 hours prior to fieldwork.

3.2 Field Activities

Geocon performed the site investigation on December 3 and 4, 2009, which consisted of the following field activities:

- Advanced 47 soil borings (B1 through B47) using hand-auger techniques. Borings B1 through B27 were advanced to a depth of 2.5 feet; borings B28 through B47 were advanced to a depth of 3.5 feet.
- Collected a total of 177 soil samples for selected analyses including total lead, CAM 17 metals, NOA, pesticides and pH.
- Transported samples to the analytical laboratories for analysis under standard chain-of-custody (COC) documentation.

4.0 INVESTIGATIVE METHODS

4.1 Sampling Procedures

Soil samples were collected from 47 borings, which are depicted on the Site Plan, Figure 2. The boring locations were surveyed using differential global positioning system (DGPS) equipment, and coordinates are presented on Table 1.

The borings were advanced using hand-auger equipment and soil samples were collected from the following depth intervals: 0 to 0.5 foot, 0.5 to 1 foot, 1 to 1.5 feet, 2 to 2.5 feet, and 3 to 3.5 feet. The specific sampling depth intervals for the borings are listed in Section 3.2. Soil samples for total lead and NOA analyses were collected directly from the hand-auger buckets into new re-sealable plastic bags. Soil samples for CAM 17 metals and pesticides analysis were collected into new stainless steel tubes secured with Teflon tape and plastic end caps. Sample containers were labeled and transported to ATL and EMSL using standard COC documentation. Soil borings were backfilled to surface with soil cuttings.

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

4.2 Laboratory Analyses

Laboratory analyses were performed by ATL under standard turn-around-times. Reproductions of the laboratory reports and COC documentation are presented as Appendix B.

The soil samples were analyzed as follows:

- One-hundred-seventy-two discrete samples for total lead using Environmental Protection Agency (EPA) Method 6010 ICAP.
- Twenty-four samples with total lead concentrations greater than 50 mg/kg (i.e. greater than ten times the STLC of 5.0 mg/l) were further analyzed for WET lead.
- Five samples with total lead concentrations greater than 100 mg/kg and WET lead concentrations greater than 5 mg/l were analyzed for TCLP lead using EPA Method 1311/7420.
- Twelve samples with WET lead concentrations greater than 5 mg/l were further analyzed for DI-WET lead.
- Twelve samples were analyzed for NOA using EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity.

- Five composite samples collected from the 3- to 3.5-foot depth interval were analyzed for CAM 17 metals using EPA Method 6010/7471.
- Five composite samples collected from the 0- to 0.5-foot depth interval were analyzed for organochlorine pesticides using EPA Method 8081.
- Twelve samples were analyzed for pH using EPA Method 9045.

4.3 Laboratory QA/QC

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

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

Prior to submitting the samples to the laboratories, the COC documentation was reviewed for accuracy and completeness (Appendix B).

5.0 INVESTIGATIVE RESULTS

5.1 Subsurface Conditions

Soils encountered during the field activities generally consisted of brown, organic-rich loam near the surface underlain by gravelly sand. Groundwater was not encountered during the advancement of the soil borings.

5.2 Laboratory Analytical Results

The analytical results are presented in Tables 2 through 4. Reproductions of the laboratory reports and chain-of-custody documentation are presented as Appendix B.

- Total lead was reported at concentrations ranging from less than (<) the laboratory reporting limit of 5.0 milligrams per kilogram (mg/kg) to 210 mg/kg.
- WET lead was reported at concentrations ranging from 2.8 to 30 mg/l.
- TCLP lead was reported at concentrations ranging from <0.25 to 2.2 mg/l.
- DI-WET lead was reported at concentrations ranging from <0.25 to 1.4 mg/l.
- The following total CAM 17 metals were reported in the samples at concentrations below their respective STLCs: barium, chromium, nickel, vanadium, and zinc; remaining total CAM 17 metals were not detected above their respective laboratory reporting limits.

- NOA was not detected above the 0.25% target analytical sensitivity.
- Pesticides were not detected above their respective laboratory reporting limits.
- Soil pH values ranged from 6.5 to 8.0.

5.3 Laboratory QA/QC

We reviewed the QA/QC results provided with the laboratory analytical reports. The data indicate non-detect results for the method blanks.

The relative percent differences (RPDs) of the matrix spike duplicate samples for four of the analyses were outside criteria. The Case Narratives in the laboratory reports state that each analytical batch was validated by the laboratory control sample (LCS). The data showed acceptable recoveries and RPDs for the remainder of the duplicates and matrix spikes. Dilution was necessary for three analyses due to sample matrix.

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 lead data for the Site were treated as five sample populations for statistical evaluation that consisted of the following:

- A) US 101 Southbound Shoulder – borings B1 through B14
- B) US 101 Northbound Shoulder – borings B15 through B27
- C) US 101 Median – borings B28 through B31
- D) Agricultural land east of US 101 – borings B32 through B35
- E) Agricultural land west of US 101 – borings B36 through B47

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 WET lead concentrations exists that would allow the prediction of WET 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*.

We used maximum reported total lead concentrations for sample populations C (US 101 Median) and D (agricultural land to the east of US 101) because UCLs can not be computed for a data set consisting of four or less unique values. 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 laboratory reporting limit was used. The bootstrap test results are included in Appendix C. The following tables present the calculated UCLs and statistics for each data set.

US 101 Southbound Shoulder – borings B1 through B14

SAMPLE INTERVAL (feet)	TOTAL LEAD 90% UCL (mg/kg)	TOTAL LEAD 95% UCL (mg/kg)	TOTAL LEAD MEAN (mg/kg)	TOTAL LEAD MINIMUM (mg/kg)	TOTAL LEAD MAXIMUM (mg/kg)
0.0 to 0.5	47.82	50.83	37.2	2.5	110
0.5 to 1	54.19	57.92	40.9	2.5	130
1 to 1.5	31.36	33.61	22.2	2.5	82
2 to 2.5	5.202	5.488	4.2	2.5	12

US 101 Northbound Shoulder– borings B15 through B27

SAMPLE INTERVAL (feet)	TOTAL LEAD 90% UCL (mg/kg)	TOTAL LEAD 95% UCL (mg/kg)	TOTAL LEAD MEAN (mg/kg)	TOTAL LEAD MINIMUM (mg/kg)	TOTAL LEAD MAXIMUM (mg/kg)
0.0 to 0.5	42.82	45.46	33.3	2.5	78
0.5 to 1	65.92	69.57	46.5	2.5	210
1 to 1.5	45.84	51.22	26.6	2.5	210
2 to 2.5	Not Calculated	Not Calculated	3.0	2.5	6.2

US 101 Median – borings B28 through B31

SAMPLE INTERVAL (feet)	TOTAL LEAD MEAN (mg/kg)	TOTAL LEAD MINIMUM (mg/kg)	TOTAL LEAD MAXIMUM (mg/kg)
0 to 0.5	71.8	66	82
0.5 to 1	57.0	6.0	84
1 to 1.5	8.6	2.5	27
2 to 2.5	2.5	2.5	2.5

Agricultural land east of US 101 – borings B32 through B35

SAMPLE INTERVAL (feet)	TOTAL LEAD MEAN (mg/kg)	TOTAL LEAD MINIMUM (mg/kg)	TOTAL LEAD MAXIMUM (mg/kg)
0 to 0.5	23.6	2.5	51
0.5 to 1	8.7	2.5	19
1 to 1.5	8.0	2.5	17

Agricultural land west of US 101 – borings B36 through B47

SAMPLE INTERVAL (feet)	TOTAL LEAD MEAN (mg/kg)	TOTAL LEAD MINIMUM (mg/kg)	TOTAL LEAD MAXIMUM (mg/kg)
0 to 0.5	3.4	2.5	10
0.5 to 1	2.8	2.5	5.9
1 to 1.5	2.9	2.5	7.6

5.4.2 Correlation of Total and WET Lead

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

To estimate the degree of interrelation between total and corresponding WET 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 24 (x , y) data points (i.e., soil samples analyzed for both total lead [x] and WET lead [y]) that were collected at the Site. To achieve an acceptable correlation, the data point with the highest squared residual WET lead value (B25-1) was omitted from the regression. The resulting *coefficient of determination* (r^2) equaled 0.717, which yields a corresponding *correlation coefficient* (r) of 0.847.

For the *correlation coefficient* that indicates a linear relationship between total and WET 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 $y = 0.0635(x)$, where x represents total lead concentrations and y represents predicted WET lead concentrations.

This equation was used to predict the WET lead concentrations based on the maximum total lead concentrations for samples collected at the Site (see 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.

6.0 CONCLUSIONS

Waste classifications are evaluated based on the 90% UCL of the lead content for the relevant excavation depths; this has historically been considered sufficient to satisfy a good faith effort by the EPA as discussed in SW 846. Risk assessment characterization is 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.

6.1 Total and Soluble Lead

6.1.1 US 101 Southbound Shoulder

The following table summarizes the predicted waste classification for excavated soil based on the calculated weighted averages of the total lead UCLs for data collected from this portion of the Site. Weighted averages are calculated by using the total lead concentration for each 0.5-foot depth interval as the value for the underlying 0.5-foot depth interval (unless a sample was collected from the underlying depth interval). The total and WET lead calculations are summarized in Table 5a.

Excavation Depth	90% UCL Total Lead (mg/kg)	90% UCL Predicted WET Lead (mg/l)	95% UCL Total Lead (mg/kg)	Waste Classification
0 to 0.5 foot	48	3.0	51	Non-hazardous
<i>Underlying soil (0.5 to 2.5 feet)</i>	<i>31</i>	<i>1.9</i>	<i>33</i>	<i>Non-hazardous</i>

Based on the data presented in the above table, excavated soil would not be classified as a California hazardous waste since the predicted WET lead concentrations are less than the lead STLC of 5.0 mg/l.

6.1.2 US 101 Northbound Shoulder

The following table summarizes the predicted waste classification for excavated soil based on the calculated weighted averages of the UCLs and maximum total lead concentrations for data collected from this portion of the Site. The total and WET lead calculations are summarized in Table 5b.

Excavation Depth	90% UCL Total Lead (mg/kg)	90% UCL Predicted WET Lead (mg/l)	95% UCL Total Lead (mg/kg)	Waste Classification
0 to 0.5 foot	43	2.7	45	Non-hazardous
<i>Underlying soil (0.5 to 2.5 feet)</i>	<i>41</i>	<i>2.6</i>	<i>45</i>	<i>Non-hazardous</i>

Based on the data presented in the above table, excavated soil would not be classified as a California hazardous waste since the predicted WET lead concentrations are less than the lead STLC of 5.0 mg/l.

6.1.3 US 101 Median

The following table summarizes the predicted waste classification for excavated soil based on the calculated weighted averages of the maximum total lead concentrations for data collected from this portion of the Site. The total and WET lead calculations are summarized in Table 5c.

Excavation Depth	Maximum Total Lead (mg/kg)	Maximum Predicted WET Lead (mg/l)	Waste Classification
0 to 1 foot	83	5.3	Hazardous
<i>Underlying soil (1 to 2.5 feet)</i>	<i>19</i>	<i>1.2</i>	<i>Non-hazardous</i>
0 to 1.5 feet	64	4.1	Non-hazardous
<i>Underlying soil (1.5 to 2.5 feet)</i>	<i>15</i>	<i>0.9</i>	<i>Non-Hazardous</i>

Based on the data presented in the above table, soil excavated to a depth of 1 foot and handled separately would be classified as a California hazardous waste since the maximum-predicted WET lead concentrations are greater than the lead STLC of 5.0 mg/l. Based on the TCLP lead results, excavated soil would not be classified as a RCRA hazardous waste. Based on the DI-WET lead results, excavated soil may be reused onsite under the DTSC Variance (as Type Y1) by placing it beneath at least 1 foot of clean soil or a pavement structure. Underlying soil below a depth of 1 foot would be classified as non-hazardous.

If excavations are 1.5 feet or greater in depth and soil is managed as a whole, excavated soil would not be classified as a hazardous waste since the maximum-predicted WET lead concentrations are less than the lead STLC of 5.0 mg/l.

6.1.4 Agricultural Land East of US 101

The following table summarizes the predicted waste classification for excavated soil based on the calculated weighted averages of the maximum total lead concentrations for data collected from this portion of the Site. The total and WET lead calculations are summarized in Table 5d.

Excavation Depth	Maximum Total Lead (mg/kg)	Maximum Predicted WET Lead (mg/l)	Waste Classification
0 to 0.5 foot	51	3.2	Non-hazardous
<i>Underlying soil (0.5 to 4.5 feet)</i>	<i>18</i>	<i>1.1</i>	<i>Non-hazardous</i>

Based on the data presented in the above table, excavated soil would not be classified as a California hazardous waste since the predicted WET lead concentrations are less than the lead STLC of 5.0 mg/l.

6.1.5 Agricultural Land West of US 101

The following table summarizes the predicted waste classification for excavated soil based on the calculated weighted averages of the maximum total lead concentrations for data collected from this portion of the Site. The total and WET lead calculations are summarized in Table 5e.

Excavation Depth	Maximum Total Lead (mg/kg)	Maximum Predicted WET Lead (mg/l)	Waste Classification
0 to 0.5 foot	10	0.6	Non-hazardous
<i>Underlying soil (0.5 to 4.5 feet)</i>	<i>6.8</i>	<i>0.4</i>	<i>Non-hazardous</i>

Based on the data presented in the above table, excavated soil would not be classified as a California hazardous waste since the predicted WET lead concentrations are less than the lead STLC of 5.0 mg/l.

6.2 Other CAM 17 Metals

The San Francisco Bay Regional Water Quality Control Board (SFRWQCB) has prepared a technical report entitled *Screening For Environmental Concerns At Sites With Contaminated Soil and Groundwater, Interim Final* (May 2008), which presents Environmental Screening Levels (ESLs) for soil, groundwater, soil gas, and surface water, to assist in evaluating sites impacted by releases of hazardous chemicals. The ESLs are conservative values for more than 100 commonly detected contaminants, which may be used to compare with environmental data collected at a site. ESLs are strictly risk assessment tools and “not regulatory clean up standards.” The presence of a chemical at concentrations in excess of an ESL does not necessarily indicate that adverse impacts to human health or the environment are occurring; this simply indicates that a potential for adverse risk may exist and that additional evaluation is or “may be” warranted (SFRWQCB, 2008).

The CAM 17 metals concentrations in site soil were compared to ESLs (Table A, SFRWQCB, May 2008) and with published background levels typically present in California soils as presented in *Background Concentrations of Trace and Major Elements in California Soils* (Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California, March 1996). Reported concentrations of metals in the soil samples were less than their respective residential land use ESLs and are within published background concentration ranges.

6.3 Pesticides and NOA

Pesticides and NOA were not detected above their respective laboratory reporting limits in the soil samples analyzed.

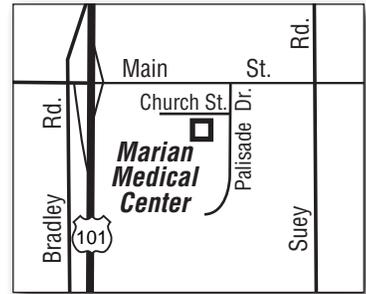
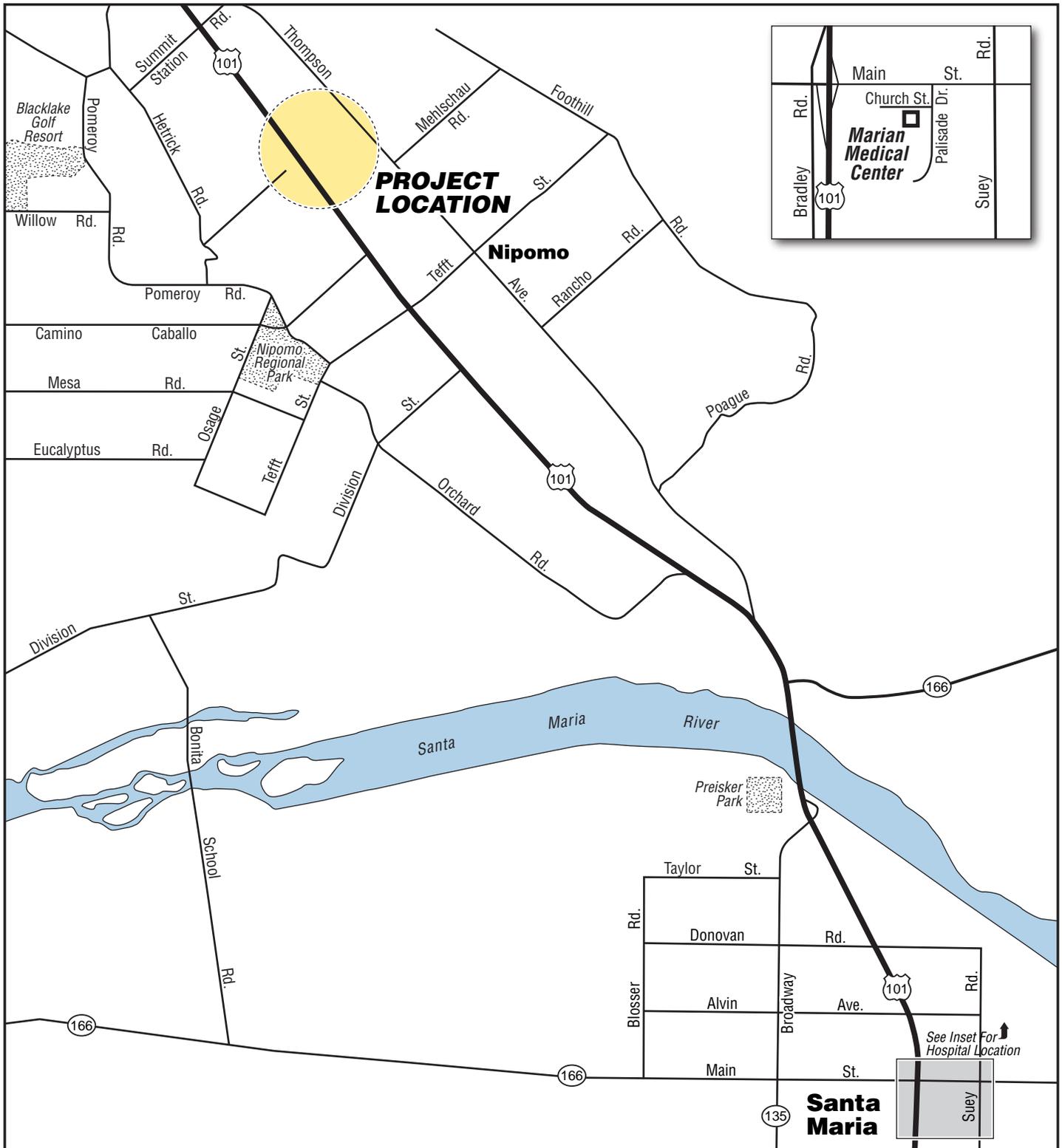
6.4 Worker Protection

Per Caltrans’ requirements, the contractor(s) should prepare a project-specific health and safety plan to prevent or minimize worker exposure to 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 impacted soil.

7.0 REPORT LIMITATIONS

This report has been prepared exclusively for Rajappan & Meyer. The information contained herein is only valid as of the date of the field sampling 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.



GEOCON
CONSULTANTS, INC.

6671 BRISA STREET - LIVERMORE, CA 94550
PHONE 925.371.5900 - FAX 925.371.5915

Willow Road / US 101 Interchange

Nipomo, San Luis Obispo County,
California

VICINITY MAP

E8506-06-01

March 2010

Figure 1



LEGEND:

● Boring Location



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Willow Road/US 101 Interchange	
Nipomo, San Luis Obispo County, California	
GEOCON Proj. No. E8506-06-01	SITE PLAN
EA No: 05-47450	March 2010
	Figure 2

TABLE 1
Boring Coordinates
US 101 Willow Road Interchange
Nipomo, California

Location	Northing	Easting
B1	2,214,013.750	5,814,339.067
B2	2,214,239.141	5,814,182.820
B3	2,214,448.897	5,814,036.775
B4	2,214,657.975	5,813,887.245
B5	2,214,855.529	5,813,753.182
B6	2,215,059.337	5,813,607.924
B7	2,215,278.880	5,813,464.271
B8	2,215,549.826	5,813,271.965
B9	2,215,803.138	5,813,090.254
B10	2,216,026.757	5,812,936.508
B11	2,216,282.340	5,812,746.490
B12	2,216,541.792	5,812,570.928
B13	2,216,888.612	5,812,324.623
B14	2,217,147.755	5,812,136.352
B15	2,217,573.457	5,811,986.833
B16	2,217,321.927	5,812,155.792
B17	2,217,068.003	5,812,339.468
B18	2,216,810.329	5,812,523.464
B19	2,216,545.064	5,812,717.389
B20	2,216,287.409	5,812,895.840
B21	2,216,041.598	5,813,069.448
B22	2,215,800.749	5,813,238.946
B23	2,215,642.454	5,813,346.391
B24	2,215,426.522	5,813,495.872
B25	2,215,205.845	5,813,654.235
B26	2,214,972.015	5,813,816.377
B27	2,214,769.401	5,813,958.992
B28	2,215,574.033	5,813,318.138
B29	2,215,602.908	5,813,314.356
B30	2,215,685.891	5,813,244.461
B31	2,215,704.677	5,813,239.557
B32	2,215,724.216	5,813,329.395
B33	2,215,809.309	5,813,432.763
B34	2,215,946.172	5,813,171.344
B35	2,216,172.342	5,813,014.948
B36	2,215,000.121	5,813,566.609
B37	2,215,103.887	5,813,409.724
B38	2,215,216.895	5,813,261.863
B39	2,215,350.716	5,813,116.587
B40	2,215,635.441	5,813,175.479
B41	2,215,537.245	5,813,099.128
B42	2,215,442.299	5,812,986.638
B43	2,215,313.121	5,812,838.180
B44	2,215,638.968	5,812,851.187
B45	2,215,899.701	5,812,703.379
B46	2,216,141.913	5,812,648.105
B47	2,216,367.902	5,812,608.759

Northing and Easting coordinates in NAD83, Zone 5, feet

TABLE 2
Summary of Lead and pH Results
US 101 Willow Road Interchange
Nipomo, California

Sample ID	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET Lead (mg/l)	TCLP Lead (mg/l)	pH
B1-0	0	24	---	---	---	---
B1-.5	0.5	20	---	---	---	---
B1-1	1	38	---	---	---	---
B1-2	2	<5.0	---	---	---	---
B2-0	0	26	---	---	---	---
B2-.5	0.5	8.6	---	---	---	---
B2-1	1	5.7	---	---	---	---
B2-2	2	<5.0	---	---	---	---
B3-0	0	14	---	---	---	---
B3-.5	0.5	<5.0	---	---	---	---
B3-1	1	11	---	---	---	---
B3-2	2	<5.0	---	---	---	---
B4-0	0	64	2.8	---	---	---
B4-.5	0.5	41	---	---	---	---
B4-1	1	<5.0	---	---	---	---
B4-2	2	<5.0	---	---	---	---
B5-0	0	10	---	---	---	---
B5-.5	0.5	17	---	---	---	---
B5-1	1	<5.0	---	---	---	---
B5-2	2	<5.0	---	---	---	---
B6-0	0	5.2	---	---	---	---
B6-.5	0.5	19	---	---	---	---
B6-1	1	<5.0	---	---	---	---
B6-2	2	12	---	---	---	---
B7-0	0	<5.0	---	---	---	---
B7-.5	0.5	120	7.1	<0.25	<0.25	7.6
B7-1	1	5.2	---	---	---	---
B7-2	2	<5.0	---	---	---	---
B8-0	0	17	---	---	---	---
B8-.5	0.5	23	---	---	---	---
B8-1	1	27	---	---	---	---
B8-2	2	<5.0	---	---	---	---
B9-0	0	56	3.9	---	---	---
B9-.5	0.5	76	7.2	0.31	---	7.1
B9-1	1	14	---	---	---	---
B9-2	2	<5.0	---	---	---	---
B10-0	0	110	8.3	<0.25	0.31	7.7
B10-.5	0.5	130	7.6	<0.25	0.36	7.7
B10-1	1	38	---	---	---	---
B10-2	2	5.4	---	---	---	---

TABLE 2
Summary of Lead and pH Results
US 101 Willow Road Interchange
Nipomo, California

Sample ID	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET Lead (mg/l)	TCLP Lead (mg/l)	pH
B11-0	0	89	5.8	<0.25	---	7.6
B11-.5	0.5	31	---	---	---	---
B11-1	1	<5.0	---	---	---	---
B11-2	2	8.5	---	---	---	---
B12-0	0	46	---	---	---	---
B12-.5	0.5	9.9	---	---	---	---
B12-1	1	<5.0	---	---	---	---
B12-2	2	<5.0	---	---	---	---
B13-0	0	31	---	---	---	---
B13-.5	0.5	32	---	---	---	---
B13-1	1	82	7.6	0.25	---	8.0
B13-2	2	<5.0	---	---	---	---
B14-0	0	26	---	---	---	---
B14-.5	0.5	43	---	---	---	---
B14-1	1	77	4.2	---	---	---
B14-2	2	8.0	---	---	---	---
B15-0	0	57	4.6	---	---	---
B15-.5	0.5	39	---	---	---	---
B15-1	1	<5.0	---	---	---	---
B15-2	2	<5.0	---	---	---	---
B16-0	0	74	4.3	---	---	---
B16-.5	0.5	210	12	<0.25	0.31	7.5
B16-1	1	9.5	---	---	---	---
B16-2	2	<5.0	---	---	---	---
B17-0	0	19	---	---	---	---
B17-.5	0.5	37	---	---	---	---
B17-1	1	<5.0	---	---	---	---
B17-2	2	<5.0	---	---	---	---
B18-0	0	78	3.2	---	---	---
B18-.5	0.5	54	2.8	---	---	---
B18-1	1	16	---	---	---	---
B18-2	2	6.2	---	---	---	---
B19-0	0	67	3.3	---	---	---
B19-.5	0.5	23	---	---	---	---
B19-1	1	11	---	---	---	---
B19-2	2	<5.0	---	---	---	---

TABLE 2
Summary of Lead and pH Results
US 101 Willow Road Interchange
Nipomo, California

Sample ID	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET Lead (mg/l)	TCLP Lead (mg/l)	pH
B20-0	0	42	---	---	---	---
B20-.5	0.5	47	---	---	---	---
B20-1	1	<5.0	---	---	---	---
B20-2	2	<5.0	---	---	---	---
B21-0	0	11	---	---	---	---
B21-.5	0.5	95	7.2	<0.25	---	7.8
B21-1	1	<5.0	---	---	---	---
B21-2	2	<5.0	---	---	---	---
B22-0	0	23	---	---	---	---
B22-.5	0.5	27	---	---	---	---
B22-1	1	<5.0	---	---	---	---
B22-2	2	<5.0	---	---	---	---
B23-0	0	<5.0	---	---	---	---
B23-.5	0.5	9.4	---	---	---	---
B23-1	1	46	---	---	---	---
B23-2	2	<5.0	---	---	---	---
B24-0	0	41	---	---	---	---
B24-.5	0.5	10	---	---	---	---
B24-1	1	<5.0	---	---	---	---
B24-2	2	<5.0	---	---	---	---
B25-0	0	11	---	---	---	---
B25-.5	0.5	15	---	---	---	---
B25-1	1	210	30	1.4	2.2	7.0
B25-2	2	<5.0	---	---	---	---
B26-0	0	<5.0	---	---	---	---
B26-.5	0.5	35	---	---	---	---
B26-1	1	27	---	---	---	---
B26-2	2	<5.0	---	---	---	---
B27-0	0	5.1	---	---	---	---
B27-.5	0.5	<5.0	---	---	---	---
B27-1	1	11	---	---	---	---
B27-2	2	5.4	---	---	---	---
B28-0	0	82	4.8	---	---	---
B28-.5	0.5	73	6.8	0.25	---	7.1
B28-1	1	<5.0	---	---	---	---
B28-2	2	<5.0	---	---	---	---
B29-0	0	70	3.9	---	---	---
B29-.5	0.5	65	3.8	---	---	---
B29-1	1	<5.0	---	---	---	---
B29-2	2	<5.0	---	---	---	---

TABLE 2
Summary of Lead and pH Results
US 101 Willow Road Interchange
Nipomo, California

Sample ID	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET Lead (mg/l)	TCLP Lead (mg/l)	pH
B30-0	0	66	5.0	<0.25	---	6.6
B30-.5	0.5	84	5.5	0.40	---	6.5
B30-1	1	<5.0	---	---	---	---
B30-2	2	<5.0	---	---	---	---
B31-0	0	69	4.1	---	---	---
B31-.5	0.5	6.0	---	---	---	---
B31-1	1	27	---	---	---	---
B31-2	2	<5.0	---	---	---	---
Comp B28-B31	3	1.5	---	---	---	---
B32-0	0	<5.0	---	---	---	---
B32-.5	0.5	<5.0	---	---	---	---
B32-1	1	<5.0	---	---	---	---
B33-0	0	22	---	---	---	---
B33-.5	0.5	8.3	---	---	---	---
B33-1	1	10	---	---	---	---
B34-0	0	51	---	---	---	---
B34-.5	0.5	5.1	---	---	---	---
B34-1	1	<5.0	---	---	---	---
B35-0	0	19	---	---	---	---
B35-.5	0.5	19	---	---	---	---
B35-1	1	17	---	---	---	---
Comp B32-B35	3	1.4	---	---	---	---
B36-0	0	<5.0	---	---	---	---
B36-.5	0.5	<5.0	---	---	---	---
B36-1	1	<5.0	---	---	---	---
B37-0	0	<5.0	---	---	---	---
B37-.5	0.5	<5.0	---	---	---	---
B37-1	1	<5.0	---	---	---	---
B38-0	0	<5.0	---	---	---	---
B38-.5	0.5	<5.0	---	---	---	---
B38-1	1	<5.0	---	---	---	---
B39-0	0	<5.0	---	---	---	---
B39-.5	0.5	<5.0	---	---	---	---
B39-1	1	<5.0	---	---	---	---
Comp B36-B39	3	1.5	---	---	---	---

TABLE 2
Summary of Lead and pH Results
US 101 Willow Road Interchange
Nipomo, California

Sample ID	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET Lead (mg/l)	TCLP Lead (mg/l)	pH
B40-0	0	5.8	---	---	---	---
B40-.5	0.5	5.9	---	---	---	---
B40-1	1	7.6	---	---	---	---
B41-0	0	10	---	---	---	---
B41-.5	0.5	<5.0	---	---	---	---
B41-1	1	<5.0	---	---	---	---
B42-0	0	<5.0	---	---	---	---
B42-.5	0.5	<5.0	---	---	---	---
B42-1	1	<5.0	---	---	---	---
B43-0	0	<5.0	---	---	---	---
B43-.5	0.5	<5.0	---	---	---	---
B43-1	1	<5.0	---	---	---	---
Comp B40-B43	3	1.4	---	---	---	---
B44-0	0	<5.0	---	---	---	---
B44-.5	0.5	<5.0	---	---	---	---
B44-1	1	<5.0	---	---	---	---
B45-0	0	<5.0	---	---	---	---
B45-.5	0.5	<5.0	---	---	---	---
B45-1	1	<5.0	---	---	---	---
B46-0	0	<5.0	---	---	---	---
B46-.5	0.5	<5.0	---	---	---	---
B46-1	1	<5.0	---	---	---	---
B47-0	0	<5.0	---	---	---	---
B47-.5	0.5	<5.0	---	---	---	---
B47-1	1	<5.0	---	---	---	---
Comp B44-B47	3	1.3	---	---	---	---

Notes:

mg/kg = milligrams per kilogram

mg/l = milligrams per liter

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

DI-WET = Waste Extraction Test using deionized water as the extraction fluid

TCLP = Toxicity Characteristic Leaching Procedure

--- = Not analyzed

< = Analyte was not detected above the laboratory reporting limit

TABLE 3
Summary of CAM 17 Metals Results
US 101 Willow Road Interchange
Nipomo, California

Sample ID	Sample Depth (ft)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury	
Comp B28-B31	3	<2.0	<1.0	9.6	<1.0	<1.0	3.5	<1.0	<2.0	1.5	<1.0	1.7	<1.0	<1.0	<1.0	5.2	3.6	<0.10	
Comp B32-B35	3	<2.0	<1.0	9.0	<1.0	<1.0	3.5	<1.0	<2.0	1.4	<1.0	1.3	<1.0	<1.0	<1.0	4.4	3.3	<0.10	
Comp B36-B39	3	<2.0	<1.0	15	<1.0	<1.0	4.2	<1.0	<2.0	1.5	<1.0	2.3	<1.0	<1.0	<1.0	5.4	4.4	<0.10	
Comp B40-B43	3	<2.0	<1.0	15	<1.0	<1.0	3.6	<1.0	<2.0	1.4	<1.0	1.9	<1.0	<1.0	<1.0	4.5	4.9	<0.10	
Comp B44-B47	3	<2.0	<1.0	12	<1.0	<1.0	3.2	<1.0	<2.0	1.3	<1.0	1.4	<1.0	<1.0	<1.0	3.9	3.2	<0.10	
ESLs																			
Shallow Soils (≤3 m bgs)																			
Residential Land Use		6.3	0.39	750	4.0	1.7	750*	40	230	200	40	150	10	20	1.3	16	600	1.3	
Comm/Ind Land Use		40	1.6	1,500	8.0	7.4	750*	80	230	750	40	150	10	40	16	200	600	10	

Notes:

Results are shown in milligrams per kilogram (mg/kg).

< = Analyte was not detected above the laboratory reporting limit.

ESLs = Environmental Screening Levels, Tables A and K3, SFRWQCB, Revised May 2008.

* = Value is for Chromium III, no standard for total chromium.

TABLE 4
Summary of Pesticides and NOA Results
US 101 Willow Road Interchange
Nipomo, California

Sample ID	Sample Depth (ft)	Pesticides (ug/kg)	NOA
B1-2	2	---	None Detected
B5-2	2	---	None Detected
B9-2	2	---	None Detected
B13-2	2	---	None Detected
B15-2	2	---	None Detected
B19-2	2	---	None Detected
B27-2	2	---	None Detected
Comp B28-B31	0	ND	---
Comp B28-B31	3	---	None Detected
Comp B32-B35	0	ND	---
Comp B32-B35	3	---	None Detected
Comp B36-B39	0	ND	---
Comp B36-B39	3	---	None Detected
Comp B40-B43	0	ND	---
Comp B40-B43	3	---	None Detected
Comp B44-B47	0	ND	---
Comp B44-B47	3	---	None Detected

Notes:

ug/kg = micrograms per kilogram

NOA = naturally occurring asbestos

--- = not analyzed

ND = not detected above laboratory reporting limit

None Detected = none detected at 0.25% target analytical sensitivity

TABLE 5a
Summary of Lead Statistical Analysis
US 101 Willow Road Interchange
Nipomo, California

US 101 Southbound Shoulder - borings B1 through B14

TOTAL LEAD UCLs

	Total Lead (mg/kg)	
	90% UCL	95% UCL
0 to 0.5 foot	47.8	50.8
0.5 to 1 foot	54.2	57.9
1 to 1.5 feet	31.4	33.6
2 to 2.5 feet	5.2	5.5

EXCAVATION SCENARIOS

Excavation Depth	Weighted Averages		95% UCL Total Lead (mg/kg)
	90% UCL Total Lead (mg/kg)	WET Lead* (mg/l)	
0 to 0.5 foot	48	3.0	51
<i>Underlying Soil (0.5 to 2.5 feet)</i>	31	1.9	33
0 to 1 foot	51	3.2	54
<i>Underlying Soil (1 to 2.5 feet)</i>	23	1.4	24
0 to 1.5 feet	44	2.8	47
<i>Underlying Soil (1.5 to 2.5 feet)</i>	18	1.2	20
0 to 2.0 feet	41	2.6	44
<i>Underlying Soil (2.0 to 2.5 feet)</i>	5.2	0.3	5.5
0 to 2.5 feet	34	2.2	36

Notes:

Weighted average values are based upon calculated total lead UCLs for each depth interval.

UCL = Upper Confidence Limit (90% UCL is applicable for waste classification; 95% UCL applicable for risk assessment)

mg/kg = milligrams per kilogram

mg/l = milligrams per liter

* = Soluble (WET) lead concentrations are predicted using slope of regression line,
 where y = predicted soluble (WET) lead and x = total lead.

Regression Line Slope: $y = 0.0635 x$

TABLE 5b
Summary of Lead Statistical Analysis
US 101 Willow Road Interchange
Nipomo, California

US 101 Northbound Shoulder - borings B15 through B27

TOTAL LEAD UCLs

	Total Lead (mg/kg)	
	90% UCL	95% UCL
0 to 0.5 foot	42.8	45.5
0.5 to 1 foot	65.9	69.6
1 to 1.5 feet	45.8	51.2
	Maximum	
2 to 2.5 feet	6.2	

EXCAVATION SCENARIOS

Excavation Depth	Weighted Averages		95% UCL Total Lead (mg/kg)
	90% UCL Total Lead (mg/kg)	WET Lead* (mg/l)	
0 to 0.5 foot	43	2.7	45
<i>Underlying Soil (0.5 to 2.5 feet)</i>	41	2.6	45
0 to 1 foot	54	3.5	58
<i>Underlying Soil (1 to 2.5 feet)</i>	33	2.1	36
0 to 1.5 feet	52	3.3	55
<i>Underlying Soil (1.5 to 2.5 feet)</i>	26	1.7	29
0 to 2.0 feet	50	3.2	54
<i>Underlying Soil (2.0 to 2.5 feet)</i>	6.2	0.4	6.2
0 to 2.5 feet	41	2.6	45

Notes:

Weighted average values are based upon calculated total lead UCLs and the maximum for each depth interval, as indicated.

UCL = Upper Confidence Limit (90% UCL is applicable for waste classification; 95% UCL applicable for risk assessment)

mg/kg = milligrams per kilogram

mg/l = milligrams per liter

* = Soluble (WET) lead concentrations are predicted using slope of regression line,
where y = predicted soluble (WET) lead and x = total lead.

Regression Line Slope: $y = 0.0635 x$

TABLE 5c
Summary of Lead Statistical Analysis
US 101 Willow Road Interchange
Nipomo, California

US 101 Median - borings B28 through B31

TOTAL LEAD MAXIMUMS

	Total Lead (mg/kg) Maximum
0 to 0.5 foot	82
0.5 to 1 foot	84
1 to 1.5 feet	27
2 to 2.5 feet	2.5

EXCAVATION SCENARIOS

Excavation Depth	Weighted Averages	
	Maximum	
	Total Lead (mg/kg)	WET Lead* (mg/l)
0 to 0.5 foot	82	5.2
<i>Underlying Soil (0.5 to 2.5 feet)</i>	35	2.2
0 to 1 foot	83	5.3
<i>Underlying Soil (1 to 2.5 feet)</i>	19	1.2
0 to 1.5 feet	64	4.1
<i>Underlying Soil (1.5 to 2.5 feet)</i>	15	0.9
0 to 2.0 feet	55	3.5
<i>Underlying Soil (2.0 to 2.5 feet)</i>	2.5	0.2
0 to 2.5 feet	45	2.8

Notes:

Weighted average values are based upon the total lead maximum concentrations for each depth interval.

mg/kg = milligrams per kilogram

mg/l = milligrams per liter

* = Soluble (WET) lead concentrations are predicted using slope of regression line, where y = predicted soluble (WET) lead and x = total lead.

Regression Line Slope: $y = 0.0635 x$

TABLE 5d
Summary of Lead Statistical Analysis
US 101 Willow Road Interchange
Nipomo, California

Agricultural Land East of US 101 - borings B32 through B35

TOTAL LEAD MAXIMUMS

	Total Lead (mg/kg) Maximum
0 to 0.5 foot	51
0.5 to 1 foot	19
1 to 1.5 feet	17

EXCAVATION SCENARIOS

Excavation Depth	Weighted Averages	
	Total Lead (mg/kg)	WET Lead* (mg/l)
0 to 0.5 foot	51	3.2
<i>Underlying Soil (0.5 to 1.5 feet)</i>	18	1.1
0 to 1 foot	35	2.2
<i>Underlying Soil (1 to 1.5 feet)</i>	17	1.1
0 to 1.5 feet	29	1.8

Notes:

Weighted average values are based upon the total lead maximum concentrations for each depth interval.

mg/kg = milligrams per kilogram

mg/l = milligrams per liter

* = Soluble (WET) lead concentrations are predicted using slope of regression line, where y = predicted soluble (WET) lead and x = total lead.

Regression Line Slope: $y = 0.0635 x$

TABLE 5e
Summary of Lead Statistical Analysis
US 101 Willow Road Interchange
Nipomo, California

Agricultural Land West of US 101 - borings B36 through B47

TOTAL LEAD MAXIMUMS

	Total Lead (mg/kg) Maximum
0 to 0.5 foot	10
0.5 to 1 foot	5.9
1 to 1.5 feet	7.6

EXCAVATION SCENARIOS

Excavation Depth	Weighted Averages	
	Total Lead (mg/kg)	WET Lead* (mg/l)
0 to 0.5 foot	10	0.6
<i>Underlying Soil (0.5 to 1.5 feet)</i>	6.8	0.4
0 to 1 foot	8.0	0.5
<i>Underlying Soil (1 to 1.5 feet)</i>	7.6	0.5
0 to 1.5 feet	7.8	0.5

Notes:

Weighted average values are based upon the total lead maximum concentrations for each depth interval.

mg/kg = milligrams per kilogram

mg/l = milligrams per liter

* = Soluble (WET) lead concentrations are predicted using slope of regression line, where y = predicted soluble (WET) lead and x = total lead.

Regression Line Slope: $y = 0.0635 x$

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 that reads "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 (TTL) 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.

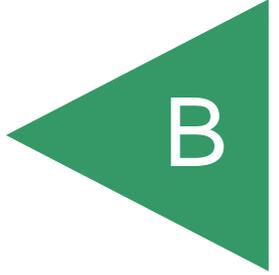
11. VARIANCE MODIFICATION OR REVOCATION. This variance is subject to review at the discretion of DTSC and may be modified or revoked by DTSC upon change of ownership and at any other time pursuant to Health and Safety Code, section 25143.
12. CEQA DETERMINATION. DTSC adopted a Negative Declaration on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

Approved:

6/30/09
Date

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

APPENDIX



December 16, 2009



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

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

Workorder No.: 109012

RE: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

Attention: Chris Merritt

Enclosed are the results for sample(s) received on December 08, 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", is written over the printed name.

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: NIPOMO 101 WILLOW ROAD I/C, E8506-06-
Lab Order: 109012

CASE NARRATIVE

Analytical Comments for Method 6010

RPD for Duplicate (DUP) is outside criteria for samples 109012-030ADUP, 109012-050ADUP, 109012-070ADUP and 109012-090ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	109012
Project:	NIPOMO 101 WILLOW ROAD I/C, E8506-06-	Date Received	12/8/2009 4:00:00 PM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109012-001A	B1-0	24	mg/Kg	60333	5.0	1	12/4/2009	12/9/2009
109012-002A	B1-.5	20	mg/Kg	60333	5.0	1	12/4/2009	12/9/2009
109012-003A	B1-1	38	mg/Kg	60333	5.0	1	12/4/2009	12/9/2009
109012-004A	B1-2	ND	mg/Kg	60333	5.0	1	12/4/2009	12/9/2009
109012-005A	B2-0	26	mg/Kg	60333	5.0	1	12/4/2009	12/9/2009
109012-006A	B2-.5	8.6	mg/Kg	60333	5.0	1	12/4/2009	12/9/2009
109012-007A	B2-1	5.7	mg/Kg	60333	5.0	1	12/4/2009	12/9/2009
109012-008A	B2-2	ND	mg/Kg	60333	5.0	1	12/4/2009	12/9/2009
109012-009A	B3-0	14	mg/Kg	60333	5.0	1	12/4/2009	12/9/2009
109012-010A	B3-.5	ND	mg/Kg	60333	5.0	1	12/4/2009	12/9/2009
109012-011A	B3-1	11	mg/Kg	60333	5.0	1	12/4/2009	12/9/2009
109012-012A	B3-2	ND	mg/Kg	60333	5.0	1	12/4/2009	12/9/2009
109012-013A	B4-0	64	mg/Kg	60333	5.0	1	12/4/2009	12/9/2009
109012-014A	B4-.5	41	mg/Kg	60333	5.0	1	12/4/2009	12/9/2009
109012-015A	B4-1	ND	mg/Kg	60333	5.0	1	12/4/2009	12/9/2009
109012-016A	B4-2	ND	mg/Kg	60333	5.0	1	12/4/2009	12/9/2009
109012-017A	B5-0	10	mg/Kg	60333	5.0	1	12/4/2009	12/9/2009
109012-018A	B5-.5	17	mg/Kg	60333	5.0	1	12/4/2009	12/9/2009

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:	109012
Project:	NIPOMO 101 WILLOW ROAD I/C, E8506-06-	Date Received	12/8/2009 4:00:00 PM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109012-019A	B5-1	ND	mg/Kg	60333	5.0	1	12/4/2009	12/9/2009
109012-020A	B5-2	ND	mg/Kg	60333	5.0	1	12/4/2009	12/9/2009
109012-021A	B6-0	5.2	mg/Kg	60334	5.0	1	12/3/2009	12/9/2009
109012-022A	B6-.5	19	mg/Kg	60334	5.0	1	12/3/2009	12/9/2009
109012-023A	B6-1	ND	mg/Kg	60334	5.0	1	12/3/2009	12/9/2009
109012-024A	B6-2	12	mg/Kg	60334	5.0	1	12/3/2009	12/9/2009
109012-025A	B7-0	ND	mg/Kg	60334	5.0	1	12/3/2009	12/9/2009
109012-026A	B7-.5	120	mg/Kg	60334	5.0	1	12/3/2009	12/9/2009
109012-027A	B7-1	5.2	mg/Kg	60334	5.0	1	12/3/2009	12/9/2009
109012-028A	B7-2	ND	mg/Kg	60334	5.0	1	12/3/2009	12/9/2009
109012-029A	B8-0	17	mg/Kg	60334	5.0	1	12/3/2009	12/9/2009
109012-030A	B8-.5	23	mg/Kg	60334	5.0	1	12/3/2009	12/9/2009
109012-031A	B8-1	27	mg/Kg	60334	5.0	1	12/3/2009	12/9/2009
109012-032A	B8-2	ND	mg/Kg	60334	5.0	1	12/3/2009	12/9/2009
109012-033A	B9-0	56	mg/Kg	60334	5.0	1	12/3/2009	12/9/2009
109012-034A	B9-.5	76	mg/Kg	60334	5.0	1	12/3/2009	12/9/2009
109012-035A	B9-1	14	mg/Kg	60334	5.0	1	12/3/2009	12/9/2009
109012-036A	B9-2	ND	mg/Kg	60334	5.0	1	12/3/2009	12/9/2009

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:	109012
Project:	NIPOMO 101 WILLOW ROAD I/C, E8506-06-	Date Received	12/8/2009 4:00:00 PM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109012-037A	B10-0	110	mg/Kg	60334	5.0	1	12/3/2009	12/9/2009
109012-038A	B10-.5	130	mg/Kg	60334	5.0	1	12/3/2009	12/9/2009
109012-039A	B10-1	38	mg/Kg	60334	5.0	1	12/3/2009	12/9/2009
109012-040A	B10-2	5.4	mg/Kg	60334	5.0	1	12/3/2009	12/9/2009
109012-041A	B11-0	89	mg/Kg	60335	5.0	1	12/3/2009	12/9/2009
109012-042A	B11-.5	31	mg/Kg	60335	5.0	1	12/3/2009	12/9/2009
109012-043A	B11-1	ND	mg/Kg	60335	5.0	1	12/3/2009	12/9/2009
109012-044A	B11-2	8.5	mg/Kg	60335	5.0	1	12/3/2009	12/9/2009
109012-045A	B12-0	46	mg/Kg	60335	5.0	1	12/3/2009	12/9/2009
109012-046A	B12-.5	9.9	mg/Kg	60335	5.0	1	12/3/2009	12/9/2009
109012-047A	B12-1	ND	mg/Kg	60335	5.0	1	12/3/2009	12/9/2009
109012-048A	B12-2	ND	mg/Kg	60335	5.0	1	12/3/2009	12/9/2009
109012-049A	B13-0	31	mg/Kg	60335	5.0	1	12/3/2009	12/9/2009
109012-050A	B13-.5	32	mg/Kg	60335	5.0	1	12/3/2009	12/9/2009
109012-051A	B13-1	82	mg/Kg	60335	5.0	1	12/3/2009	12/9/2009
109012-052A	B13-2	ND	mg/Kg	60335	5.0	1	12/3/2009	12/9/2009
109012-053A	B14-0	26	mg/Kg	60335	5.0	1	12/3/2009	12/9/2009
109012-054A	B14-.5	43	mg/Kg	60335	5.0	1	12/3/2009	12/9/2009

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:	109012
Project:	NIPOMO 101 WILLOW ROAD I/C, E8506-06-	Date Received	12/8/2009 4:00:00 PM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109012-055A	B14-1	77	mg/Kg	60335	5.0	1	12/3/2009	12/9/2009
109012-056A	B14-2	8.0	mg/Kg	60335	5.0	1	12/3/2009	12/9/2009
109012-057A	B15-0	57	mg/Kg	60335	5.0	1	12/3/2009	12/9/2009
109012-058A	B15-.5	39	mg/Kg	60335	5.0	1	12/3/2009	12/9/2009
109012-059A	B15-1	ND	mg/Kg	60335	5.0	1	12/3/2009	12/9/2009
109012-060A	B15-2	ND	mg/Kg	60335	5.0	1	12/3/2009	12/9/2009
109012-061A	B16-0	74	mg/Kg	60336	5.0	1	12/3/2009	12/9/2009
109012-062A	B16-.5	210	mg/Kg	60336	5.0	1	12/3/2009	12/9/2009
109012-063A	B16-1	9.5	mg/Kg	60336	5.0	1	12/3/2009	12/9/2009
109012-064A	B16-2	ND	mg/Kg	60336	5.0	1	12/3/2009	12/9/2009
109012-065A	B17-0	19	mg/Kg	60336	5.0	1	12/3/2009	12/9/2009
109012-066A	B17-.5	37	mg/Kg	60336	5.0	1	12/3/2009	12/9/2009
109012-067A	B17-1	ND	mg/Kg	60336	5.0	1	12/3/2009	12/9/2009
109012-068A	B17-2	ND	mg/Kg	60336	5.0	1	12/3/2009	12/9/2009
109012-069A	B18-0	78	mg/Kg	60336	5.0	1	12/3/2009	12/9/2009
109012-070A	B18-.5	54	mg/Kg	60336	5.0	1	12/3/2009	12/9/2009
109012-071A	B18-1	16	mg/Kg	60336	5.0	1	12/3/2009	12/9/2009
109012-072A	B18-2	6.2	mg/Kg	60336	5.0	1	12/3/2009	12/9/2009

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:	109012
Project:	NIPOMO 101 WILLOW ROAD I/C, E8506-06-	Date Received	12/8/2009 4:00:00 PM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109012-073A	B19-0	67	mg/Kg	60336	5.0	1	12/3/2009	12/9/2009
109012-074A	B19-.5	23	mg/Kg	60336	5.0	1	12/3/2009	12/9/2009
109012-075A	B19-1	11	mg/Kg	60336	5.0	1	12/3/2009	12/9/2009
109012-076A	B19-2	ND	mg/Kg	60336	5.0	1	12/3/2009	12/9/2009
109012-077A	B20-0	42	mg/Kg	60336	5.0	1	12/3/2009	12/9/2009
109012-078A	B20-.5	47	mg/Kg	60336	5.0	1	12/3/2009	12/9/2009
109012-079A	B20-1	ND	mg/Kg	60336	5.0	1	12/3/2009	12/9/2009
109012-080A	B20-2	ND	mg/Kg	60336	5.0	1	12/3/2009	12/9/2009
109012-081A	B21-0	11	mg/Kg	60337	5.0	1	12/3/2009	12/9/2009
109012-082A	B21-.5	95	mg/Kg	60337	5.0	1	12/3/2009	12/9/2009
109012-083A	B21-1	ND	mg/Kg	60337	5.0	1	12/3/2009	12/9/2009
109012-084A	B21-2	ND	mg/Kg	60337	5.0	1	12/3/2009	12/9/2009
109012-085A	B22-0	23	mg/Kg	60337	5.0	1	12/3/2009	12/9/2009
109012-086A	B22-.5	27	mg/Kg	60337	5.0	1	12/3/2009	12/9/2009
109012-087A	B22-1	ND	mg/Kg	60337	5.0	1	12/3/2009	12/9/2009
109012-088A	B22-2	ND	mg/Kg	60337	5.0	1	12/3/2009	12/9/2009
109012-089A	B23-0	ND	mg/Kg	60337	5.0	1	12/3/2009	12/9/2009
109012-090A	B23-.5	9.4	mg/Kg	60337	5.0	1	12/3/2009	12/9/2009

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:	109012
Project:	NIPOMO 101 WILLOW ROAD I/C, E8506-06-	Date Received	12/8/2009 4:00:00 PM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109012-091A	B23-1	46	mg/Kg	60337	5.0	1	12/3/2009	12/9/2009
109012-092A	B23-2	ND	mg/Kg	60337	5.0	1	12/3/2009	12/9/2009
109012-093A	B24-0	41	mg/Kg	60337	5.0	1	12/4/2009	12/9/2009
109012-094A	B24-.5	10	mg/Kg	60337	5.0	1	12/4/2009	12/9/2009
109012-095A	B24-1	ND	mg/Kg	60337	5.0	1	12/4/2009	12/9/2009
109012-096A	B24-2	ND	mg/Kg	60337	5.0	1	12/4/2009	12/9/2009
109012-097A	B25-0	11	mg/Kg	60337	5.0	1	12/4/2009	12/9/2009
109012-098A	B25-.5	15	mg/Kg	60337	5.0	1	12/4/2009	12/9/2009
109012-099A	B25-1	210	mg/Kg	60337	5.0	1	12/4/2009	12/9/2009
109012-100A	B25-2	ND	mg/Kg	60337	5.0	1	12/4/2009	12/9/2009
109012-101A	B26-0	ND	mg/Kg	60338	5.0	1	12/4/2009	12/9/2009
109012-102A	B26-.5	35	mg/Kg	60338	5.0	1	12/4/2009	12/9/2009
109012-103A	B26-1	27	mg/Kg	60338	5.0	1	12/4/2009	12/9/2009
109012-104A	B26-2	ND	mg/Kg	60338	5.0	1	12/4/2009	12/9/2009
109012-105A	B27-0	5.1	mg/Kg	60338	5.0	1	12/4/2009	12/9/2009
109012-106A	B27-.5	ND	mg/Kg	60338	5.0	1	12/4/2009	12/9/2009
109012-107A	B27-1	11	mg/Kg	60338	5.0	1	12/4/2009	12/9/2009
109012-108A	B27-2	5.4	mg/Kg	60338	5.0	1	12/4/2009	12/9/2009

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:	109012
Project:	NIPOMO 101 WILLOW ROAD I/C, E8506-06-	Date Received	12/8/2009 4:00:00 PM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109012-109A	B28-0	82	mg/Kg	60338	5.0	1	12/3/2009	12/9/2009
109012-110A	B28-.5	73	mg/Kg	60338	5.0	1	12/3/2009	12/9/2009
109012-111A	B28-1	ND	mg/Kg	60338	5.0	1	12/3/2009	12/9/2009
109012-112A	B28-2	ND	mg/Kg	60338	5.0	1	12/3/2009	12/9/2009
109012-113A	B29-0	70	mg/Kg	60338	5.0	1	12/3/2009	12/9/2009
109012-114A	B29-.5	65	mg/Kg	60338	5.0	1	12/3/2009	12/9/2009
109012-115A	B29-1	ND	mg/Kg	60338	5.0	1	12/3/2009	12/9/2009
109012-116A	B29-2	ND	mg/Kg	60338	5.0	1	12/3/2009	12/9/2009
109012-117A	B30-0	66	mg/Kg	60338	5.0	1	12/3/2009	12/9/2009
109012-118A	B30-.5	84	mg/Kg	60338	5.0	1	12/3/2009	12/9/2009
109012-119A	B30-1	ND	mg/Kg	60338	5.0	1	12/3/2009	12/9/2009
109012-120A	B30-2	ND	mg/Kg	60338	5.0	1	12/3/2009	12/9/2009
109012-121A	B31-0	69	mg/Kg	60339	5.0	1	12/3/2009	12/9/2009
109012-122A	B31-.5	6.0	mg/Kg	60339	5.0	1	12/3/2009	12/9/2009
109012-123A	B31-1	27	mg/Kg	60339	5.0	1	12/3/2009	12/9/2009
109012-124A	B31-2	ND	mg/Kg	60339	5.0	1	12/3/2009	12/9/2009
109012-129A	B32-0	ND	mg/Kg	60339	5.0	1	12/4/2009	12/9/2009
109012-130A	B32-.5	ND	mg/Kg	60339	5.0	1	12/4/2009	12/9/2009

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:	109012
Project:	NIPOMO 101 WILLOW ROAD I/C, E8506-06-	Date Received	12/8/2009 4:00:00 PM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109012-131A	B32-1	ND	mg/Kg	60339	5.0	1	12/4/2009	12/9/2009
109012-132A	B33-0	22	mg/Kg	60339	5.0	1	12/4/2009	12/9/2009
109012-133A	B33-.5	8.3	mg/Kg	60339	5.0	1	12/4/2009	12/9/2009
109012-134A	B33-1	10	mg/Kg	60339	5.0	1	12/4/2009	12/9/2009
109012-135A	B34-0	51	mg/Kg	60339	5.0	1	12/4/2009	12/9/2009
109012-136A	B34-.5	5.1	mg/Kg	60339	5.0	1	12/4/2009	12/9/2009
109012-137A	B34-1	ND	mg/Kg	60339	5.0	1	12/4/2009	12/9/2009
109012-138A	B35-0	19	mg/Kg	60339	5.0	1	12/4/2009	12/9/2009
109012-139A	B35-.5	19	mg/Kg	60339	5.0	1	12/4/2009	12/9/2009
109012-140A	B35-1	17	mg/Kg	60339	5.0	1	12/4/2009	12/9/2009
109012-149A	B36-0	ND	mg/Kg	60339	5.0	1	12/4/2009	12/9/2009
109012-150A	B36-.5	ND	mg/Kg	60339	5.0	1	12/4/2009	12/9/2009
109012-151A	B36-1	ND	mg/Kg	60339	5.0	1	12/4/2009	12/9/2009
109012-152A	B37-0	ND	mg/Kg	60339	5.0	1	12/4/2009	12/9/2009
109012-153A	B37-.5	ND	mg/Kg	60340	5.0	1	12/4/2009	12/10/2009
109012-154A	B37-1	ND	mg/Kg	60340	5.0	1	12/4/2009	12/10/2009
109012-155A	B38-0	ND	mg/Kg	60340	5.0	1	12/4/2009	12/10/2009
109012-156A	B38-.5	ND	mg/Kg	60340	5.0	1	12/4/2009	12/10/2009

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:	109012
Project:	NIPOMO 101 WILLOW ROAD I/C, E8506-06-	Date Received	12/8/2009 4:00:00 PM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109012-157A	B38-1	ND	mg/Kg	60340	5.0	1	12/4/2009	12/10/2009
109012-158A	B39-0	ND	mg/Kg	60340	5.0	1	12/4/2009	12/10/2009
109012-159A	B39-.5	ND	mg/Kg	60340	5.0	1	12/4/2009	12/10/2009
109012-160A	B39-1	ND	mg/Kg	60340	5.0	1	12/4/2009	12/10/2009
109012-169A	B40-0	5.8	mg/Kg	60340	5.0	1	12/4/2009	12/10/2009
109012-170A	B40-.5	5.9	mg/Kg	60340	5.0	1	12/4/2009	12/10/2009
109012-171A	B40-1	7.6	mg/Kg	60340	5.0	1	12/4/2009	12/10/2009
109012-172A	B41-0	10	mg/Kg	60340	5.0	1	12/4/2009	12/10/2009
109012-173A	B41-.5	ND	mg/Kg	60340	5.0	1	12/4/2009	12/10/2009
109012-174A	B41-1	ND	mg/Kg	60340	5.0	1	12/4/2009	12/10/2009
109012-175A	B42-0	ND	mg/Kg	60340	5.0	1	12/4/2009	12/10/2009
109012-176A	B42-.5	ND	mg/Kg	60340	5.0	1	12/4/2009	12/10/2009
109012-177A	B42-1	ND	mg/Kg	60340	5.0	1	12/4/2009	12/10/2009
109012-178A	B43-0	ND	mg/Kg	60340	5.0	1	12/4/2009	12/10/2009
109012-179A	B43-.5	ND	mg/Kg	60340	5.0	1	12/4/2009	12/10/2009
109012-180A	B43-1	ND	mg/Kg	60340	5.0	1	12/4/2009	12/10/2009
109012-189A	B44-0	ND	mg/Kg	60348	5.0	1	12/4/2009	12/10/2009
109012-190A	B44-.5	ND	mg/Kg	60348	5.0	1	12/4/2009	12/10/2009

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:	109012
Project:	NIPOMO 101 WILLOW ROAD I/C, E8506-06-	Date Received	12/8/2009 4:00:00 PM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	CL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109012-191A	B44-1	ND	mg/Kg	60348	5.0	1	12/4/2009	12/10/2009
109012-192A	B45-0	ND	mg/Kg	60348	5.0	1	12/4/2009	12/10/2009
109012-193A	B45-.5	ND	mg/Kg	60348	5.0	1	12/4/2009	12/10/2009
109012-194A	B45-1	ND	mg/Kg	60348	5.0	1	12/4/2009	12/10/2009
109012-195A	B46-0	ND	mg/Kg	60348	5.0	1	12/4/2009	12/10/2009
109012-196A	B46-.5	ND	mg/Kg	60348	5.0	1	12/4/2009	12/10/2009
109012-197A	B46-1	ND	mg/Kg	60348	5.0	1	12/4/2009	12/10/2009
109012-198A	B47-0	ND	mg/Kg	60348	5.0	1	12/4/2009	12/10/2009
109012-199A	B47-.5	ND	mg/Kg	60348	5.0	1	12/4/2009	12/10/2009
109012-200A	B47-1	ND	mg/Kg	60348	5.0	1	12/4/2009	12/10/2009

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	



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ANALYTICAL RESULTS

Print Date: 16-Dec-09

CLIENT:	Geocon Consultants, Inc.	Client Sample ID:	Composite B28-3,29-3,30-3,31-3
Lab Order:	109012	Collection Date:	12/3/2009
Project:	NIPOMO 101 WILLOW ROAD I/C, E8506-	Matrix:	SOIL
Lab ID:	109012-209A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

	EPA 3050B		EPA 6010B			
RunID: ICP8_091210A	QC Batch: 60367		PrepDate: 12/9/2009		Analyst: CL	
Antimony	ND	2.0	mg/Kg	1	12/10/2009 10:57 AM	
Arsenic	ND	1.0	mg/Kg	1	12/10/2009 10:57 AM	
Barium	9.6	1.0	mg/Kg	1	12/10/2009 10:57 AM	
Beryllium	ND	1.0	mg/Kg	1	12/10/2009 10:57 AM	
Cadmium	ND	1.0	mg/Kg	1	12/10/2009 10:57 AM	
Chromium	3.5	1.0	mg/Kg	1	12/10/2009 10:57 AM	
Cobalt	ND	1.0	mg/Kg	1	12/10/2009 10:57 AM	
Copper	ND	2.0	mg/Kg	1	12/10/2009 10:57 AM	
Lead	1.5	1.0	mg/Kg	1	12/10/2009 10:57 AM	
Molybdenum	ND	1.0	mg/Kg	1	12/10/2009 10:57 AM	
Nickel	1.7	1.0	mg/Kg	1	12/10/2009 10:57 AM	
Selenium	ND	1.0	mg/Kg	1	12/10/2009 10:57 AM	
Silver	ND	1.0	mg/Kg	1	12/10/2009 10:57 AM	
Thallium	ND	1.0	mg/Kg	1	12/10/2009 10:57 AM	
Vanadium	5.2	1.0	mg/Kg	1	12/10/2009 10:57 AM	
Zinc	3.6	1.0	mg/Kg	1	12/10/2009 10:57 AM	

MERCURY BY COLD VAPOR TECHNIQUE

	EPA 7471A				
RunID: AA1_091209A	QC Batch: 60358		PrepDate: 12/9/2009		Analyst: IL
Mercury	ND	0.10	mg/Kg	1	12/9/2009 04:14 PM

Qualifiers:

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



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ANALYTICAL RESULTS

Print Date: 16-Dec-09

CLIENT:	Geocon Consultants, Inc.	Client Sample ID:	Composite B32-3,33-3,34-3,35-3
Lab Order:	109012	Collection Date:	12/4/2009
Project:	NIPOMO 101 WILLOW ROAD I/C, E8506-	Matrix:	SOIL
Lab ID:	109012-210A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

	EPA 3050B		EPA 6010B			
RunID: ICP8_091210A	QC Batch: 60367		PrepDate: 12/9/2009			Analyst: CL
Antimony	ND	2.0	mg/Kg	1		12/10/2009 11:03 AM
Arsenic	ND	1.0	mg/Kg	1		12/10/2009 11:03 AM
Barium	9.0	1.0	mg/Kg	1		12/10/2009 11:03 AM
Beryllium	ND	1.0	mg/Kg	1		12/10/2009 11:03 AM
Cadmium	ND	1.0	mg/Kg	1		12/10/2009 11:03 AM
Chromium	3.5	1.0	mg/Kg	1		12/10/2009 11:03 AM
Cobalt	ND	1.0	mg/Kg	1		12/10/2009 11:03 AM
Copper	ND	2.0	mg/Kg	1		12/10/2009 11:03 AM
Lead	1.4	1.0	mg/Kg	1		12/10/2009 11:03 AM
Molybdenum	ND	1.0	mg/Kg	1		12/10/2009 11:03 AM
Nickel	1.3	1.0	mg/Kg	1		12/10/2009 11:03 AM
Selenium	ND	1.0	mg/Kg	1		12/10/2009 11:03 AM
Silver	ND	1.0	mg/Kg	1		12/10/2009 11:03 AM
Thallium	ND	1.0	mg/Kg	1		12/10/2009 11:03 AM
Vanadium	4.4	1.0	mg/Kg	1		12/10/2009 11:03 AM
Zinc	3.3	1.0	mg/Kg	1		12/10/2009 11:03 AM

MERCURY BY COLD VAPOR TECHNIQUE

	EPA 7471A					
RunID: AA1_091209A	QC Batch: 60358		PrepDate: 12/9/2009			Analyst: IL
Mercury	ND	0.10	mg/Kg	1		12/9/2009 04:17 PM

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



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ANALYTICAL RESULTS

Print Date: 16-Dec-09

CLIENT:	Geocon Consultants, Inc.	Client Sample ID:	Composite B32-0,33-0,34-0,35-0
Lab Order:	109012	Collection Date:	12/4/2009
Project:	NIPOMO 101 WILLOW ROAD I/C, E8506-	Matrix:	SOIL
Lab ID:	109012-211A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ORGANOCHLORINE PESTICIDES BY GC/ECD

	EPA 3550B		EPA 8081A			
RunID:	GC9_091209B	QC Batch:	60360	PrepDate:	12/9/2009	Analyst: SMH
4,4'-DDD	ND	2.0	µg/Kg	1	12/9/2009 07:01 PM	
4,4'-DDE	ND	2.0	µg/Kg	1	12/9/2009 07:01 PM	
4,4'-DDT	ND	2.0	µg/Kg	1	12/9/2009 07:01 PM	
Aldrin	ND	1.0	µg/Kg	1	12/9/2009 07:01 PM	
alpha-BHC	ND	1.0	µg/Kg	1	12/9/2009 07:01 PM	
alpha-Chlordane	ND	1.0	µg/Kg	1	12/9/2009 07:01 PM	
beta-BHC	ND	1.0	µg/Kg	1	12/9/2009 07:01 PM	
Chlordane	ND	8.5	µg/Kg	1	12/9/2009 07:01 PM	
delta-BHC	ND	1.0	µg/Kg	1	12/9/2009 07:01 PM	
Dieldrin	ND	2.0	µg/Kg	1	12/9/2009 07:01 PM	
Endosulfan I	ND	1.0	µg/Kg	1	12/9/2009 07:01 PM	
Endosulfan II	ND	2.0	µg/Kg	1	12/9/2009 07:01 PM	
Endosulfan sulfate	ND	2.0	µg/Kg	1	12/9/2009 07:01 PM	
Endrin	ND	2.0	µg/Kg	1	12/9/2009 07:01 PM	
Endrin aldehyde	ND	2.0	µg/Kg	1	12/9/2009 07:01 PM	
Endrin ketone	ND	2.0	µg/Kg	1	12/9/2009 07:01 PM	
gamma-BHC	ND	1.0	µg/Kg	1	12/9/2009 07:01 PM	
gamma-Chlordane	ND	1.0	µg/Kg	1	12/9/2009 07:01 PM	
Heptachlor	ND	1.0	µg/Kg	1	12/9/2009 07:01 PM	
Heptachlor epoxide	ND	1.0	µg/Kg	1	12/9/2009 07:01 PM	
Methoxychlor	ND	5.0	µg/Kg	1	12/9/2009 07:01 PM	
Toxaphene	ND	50	µg/Kg	1	12/9/2009 07:01 PM	
Surr: Decachlorobiphenyl	61.1	20-142	%REC	1	12/9/2009 07:01 PM	
Surr: Tetrachloro-m-xylene	68.4	25-115	%REC	1	12/9/2009 07:01 PM	

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



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ANALYTICAL RESULTS

Print Date: 16-Dec-09

CLIENT:	Geocon Consultants, Inc.	Client Sample ID:	Composite B36-0,37-0,38-0,39-0
Lab Order:	109012	Collection Date:	12/4/2009
Project:	NIPOMO 101 WILLOW ROAD I/C, E8506-	Matrix:	SOIL
Lab ID:	109012-212A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD						
	EPA 3550B			EPA 8081A		
RunID: GC9_091209B	QC Batch: 60360			PrepDate: 12/9/2009		Analyst: SMH
4,4'-DDD	ND	2.0		µg/Kg	1	12/9/2009 07:29 PM
4,4'-DDE	ND	2.0		µg/Kg	1	12/9/2009 07:29 PM
4,4'-DDT	ND	2.0		µg/Kg	1	12/9/2009 07:29 PM
Aldrin	ND	1.0		µg/Kg	1	12/9/2009 07:29 PM
alpha-BHC	ND	1.0		µg/Kg	1	12/9/2009 07:29 PM
alpha-Chlordane	ND	1.0		µg/Kg	1	12/9/2009 07:29 PM
beta-BHC	ND	1.0		µg/Kg	1	12/9/2009 07:29 PM
Chlordane	ND	8.5		µg/Kg	1	12/9/2009 07:29 PM
delta-BHC	ND	1.0		µg/Kg	1	12/9/2009 07:29 PM
Dieldrin	ND	2.0		µg/Kg	1	12/9/2009 07:29 PM
Endosulfan I	ND	1.0		µg/Kg	1	12/9/2009 07:29 PM
Endosulfan II	ND	2.0		µg/Kg	1	12/9/2009 07:29 PM
Endosulfan sulfate	ND	2.0		µg/Kg	1	12/9/2009 07:29 PM
Endrin	ND	2.0		µg/Kg	1	12/9/2009 07:29 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	12/9/2009 07:29 PM
Endrin ketone	ND	2.0		µg/Kg	1	12/9/2009 07:29 PM
gamma-BHC	ND	1.0		µg/Kg	1	12/9/2009 07:29 PM
gamma-Chlordane	ND	1.0		µg/Kg	1	12/9/2009 07:29 PM
Heptachlor	ND	1.0		µg/Kg	1	12/9/2009 07:29 PM
Heptachlor epoxide	ND	1.0		µg/Kg	1	12/9/2009 07:29 PM
Methoxychlor	ND	5.0		µg/Kg	1	12/9/2009 07:29 PM
Toxaphene	ND	50		µg/Kg	1	12/9/2009 07:29 PM
Surr: Decachlorobiphenyl	62.5	20-142		%REC	1	12/9/2009 07:29 PM
Surr: Tetrachloro-m-xylene	69.5	25-115		%REC	1	12/9/2009 07:29 PM

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



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ANALYTICAL RESULTS

Print Date: 16-Dec-09

CLIENT: Geocon Consultants, Inc.	Client Sample ID: Composite B36-3,37-3,38-3,39-3
Lab Order: 109012	Collection Date: 12/4/2009
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-	Matrix: SOIL
Lab ID: 109012-213A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

	EPA 3050B		EPA 6010B			
RunID: ICP8_091210A	QC Batch: 60367		PrepDate: 12/9/2009			Analyst: CL
Antimony	ND	2.0	mg/Kg	1		12/10/2009 11:07 AM
Arsenic	ND	1.0	mg/Kg	1		12/10/2009 11:07 AM
Barium	15	1.0	mg/Kg	1		12/10/2009 11:07 AM
Beryllium	ND	1.0	mg/Kg	1		12/10/2009 11:07 AM
Cadmium	ND	1.0	mg/Kg	1		12/10/2009 11:07 AM
Chromium	4.2	1.0	mg/Kg	1		12/10/2009 11:07 AM
Cobalt	ND	1.0	mg/Kg	1		12/10/2009 11:07 AM
Copper	ND	2.0	mg/Kg	1		12/10/2009 11:07 AM
Lead	1.5	1.0	mg/Kg	1		12/10/2009 11:07 AM
Molybdenum	ND	1.0	mg/Kg	1		12/10/2009 11:07 AM
Nickel	2.3	1.0	mg/Kg	1		12/10/2009 11:07 AM
Selenium	ND	1.0	mg/Kg	1		12/10/2009 11:07 AM
Silver	ND	1.0	mg/Kg	1		12/10/2009 11:07 AM
Thallium	ND	1.0	mg/Kg	1		12/10/2009 11:07 AM
Vanadium	5.4	1.0	mg/Kg	1		12/10/2009 11:07 AM
Zinc	4.4	1.0	mg/Kg	1		12/10/2009 11:07 AM

MERCURY BY COLD VAPOR TECHNIQUE

	EPA 7471A					
RunID: AA1_091209A	QC Batch: 60358		PrepDate: 12/9/2009			Analyst: IL
Mercury	ND	0.10	mg/Kg	1		12/9/2009 04:19 PM

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



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ANALYTICAL RESULTS

Print Date: 16-Dec-09

CLIENT:	Geocon Consultants, Inc.	Client Sample ID:	Composite B40-0,41-0,42-0,43-0
Lab Order:	109012	Collection Date:	12/4/2009
Project:	NIPOMO 101 WILLOW ROAD I/C, E8506-	Matrix:	SOIL
Lab ID:	109012-214A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD						
	EPA 3550B			EPA 8081A		
RunID: GC9_091209B	QC Batch: 60360			PrepDate:	12/9/2009	Analyst: SMH
4,4'-DDD	ND	2.0		µg/Kg	1	12/9/2009 07:43 PM
4,4'-DDE	ND	2.0		µg/Kg	1	12/9/2009 07:43 PM
4,4'-DDT	ND	2.0		µg/Kg	1	12/9/2009 07:43 PM
Aldrin	ND	1.0		µg/Kg	1	12/9/2009 07:43 PM
alpha-BHC	ND	1.0		µg/Kg	1	12/9/2009 07:43 PM
alpha-Chlordane	ND	1.0		µg/Kg	1	12/9/2009 07:43 PM
beta-BHC	ND	1.0		µg/Kg	1	12/9/2009 07:43 PM
Chlordane	ND	8.5		µg/Kg	1	12/9/2009 07:43 PM
delta-BHC	ND	1.0		µg/Kg	1	12/9/2009 07:43 PM
Dieldrin	ND	2.0		µg/Kg	1	12/9/2009 07:43 PM
Endosulfan I	ND	1.0		µg/Kg	1	12/9/2009 07:43 PM
Endosulfan II	ND	2.0		µg/Kg	1	12/9/2009 07:43 PM
Endosulfan sulfate	ND	2.0		µg/Kg	1	12/9/2009 07:43 PM
Endrin	ND	2.0		µg/Kg	1	12/9/2009 07:43 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	12/9/2009 07:43 PM
Endrin ketone	ND	2.0		µg/Kg	1	12/9/2009 07:43 PM
gamma-BHC	ND	1.0		µg/Kg	1	12/9/2009 07:43 PM
gamma-Chlordane	ND	1.0		µg/Kg	1	12/9/2009 07:43 PM
Heptachlor	ND	1.0		µg/Kg	1	12/9/2009 07:43 PM
Heptachlor epoxide	ND	1.0		µg/Kg	1	12/9/2009 07:43 PM
Methoxychlor	ND	5.0		µg/Kg	1	12/9/2009 07:43 PM
Toxaphene	ND	50		µg/Kg	1	12/9/2009 07:43 PM
Surr: Decachlorobiphenyl	54.1	20-142		%REC	1	12/9/2009 07:43 PM
Surr: Tetrachloro-m-xylene	65.0	25-115		%REC	1	12/9/2009 07:43 PM

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



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ANALYTICAL RESULTS

Print Date: 16-Dec-09

CLIENT: Geocon Consultants, Inc.	Client Sample ID: Composite B40-3,41-3,42-3,43-3
Lab Order: 109012	Collection Date: 12/4/2009
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-	Matrix: SOIL
Lab ID: 109012-215A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

	EPA 3050B		EPA 6010B			
RunID: ICP8_091210A	QC Batch: 60367		PrepDate: 12/9/2009			Analyst: CL
Antimony	ND	2.0	mg/Kg	1		12/10/2009 11:11 AM
Arsenic	ND	1.0	mg/Kg	1		12/10/2009 11:11 AM
Barium	15	1.0	mg/Kg	1		12/10/2009 11:11 AM
Beryllium	ND	1.0	mg/Kg	1		12/10/2009 11:11 AM
Cadmium	ND	1.0	mg/Kg	1		12/10/2009 11:11 AM
Chromium	3.6	1.0	mg/Kg	1		12/10/2009 11:11 AM
Cobalt	ND	1.0	mg/Kg	1		12/10/2009 11:11 AM
Copper	ND	2.0	mg/Kg	1		12/10/2009 11:11 AM
Lead	1.4	1.0	mg/Kg	1		12/10/2009 11:11 AM
Molybdenum	ND	1.0	mg/Kg	1		12/10/2009 11:11 AM
Nickel	1.9	1.0	mg/Kg	1		12/10/2009 11:11 AM
Selenium	ND	1.0	mg/Kg	1		12/10/2009 11:11 AM
Silver	ND	1.0	mg/Kg	1		12/10/2009 11:11 AM
Thallium	ND	1.0	mg/Kg	1		12/10/2009 11:11 AM
Vanadium	4.5	1.0	mg/Kg	1		12/10/2009 11:11 AM
Zinc	4.9	1.0	mg/Kg	1		12/10/2009 11:11 AM

MERCURY BY COLD VAPOR TECHNIQUE

	EPA 7471A					
RunID: AA1_091209A	QC Batch: 60358		PrepDate: 12/9/2009			Analyst: IL
Mercury	ND	0.10	mg/Kg	1		12/9/2009 04:25 PM

Qualifiers:

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



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ANALYTICAL RESULTS

Print Date: 16-Dec-09

CLIENT: Geocon Consultants, Inc.	Client Sample ID: Composite B44-0,45-0,46-0,47-0
Lab Order: 109012	Collection Date: 12/4/2009
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-	Matrix: SOIL
Lab ID: 109012-216A	

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES BY GC/ECD						
	EPA 3550B			EPA 8081A		
RunID: GC9_091209B	QC Batch: 60360			PrepDate:	12/9/2009	Analyst: SMH
4,4'-DDD	ND	2.0		µg/Kg	1	12/9/2009 07:58 PM
4,4'-DDE	ND	2.0		µg/Kg	1	12/9/2009 07:58 PM
4,4'-DDT	ND	2.0		µg/Kg	1	12/9/2009 07:58 PM
Aldrin	ND	1.0		µg/Kg	1	12/9/2009 07:58 PM
alpha-BHC	ND	1.0		µg/Kg	1	12/9/2009 07:58 PM
alpha-Chlordane	ND	1.0		µg/Kg	1	12/9/2009 07:58 PM
beta-BHC	ND	1.0		µg/Kg	1	12/9/2009 07:58 PM
Chlordane	ND	8.5		µg/Kg	1	12/9/2009 07:58 PM
delta-BHC	ND	1.0		µg/Kg	1	12/9/2009 07:58 PM
Dieldrin	ND	2.0		µg/Kg	1	12/9/2009 07:58 PM
Endosulfan I	ND	1.0		µg/Kg	1	12/9/2009 07:58 PM
Endosulfan II	ND	2.0		µg/Kg	1	12/9/2009 07:58 PM
Endosulfan sulfate	ND	2.0		µg/Kg	1	12/9/2009 07:58 PM
Endrin	ND	2.0		µg/Kg	1	12/9/2009 07:58 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	12/9/2009 07:58 PM
Endrin ketone	ND	2.0		µg/Kg	1	12/9/2009 07:58 PM
gamma-BHC	ND	1.0		µg/Kg	1	12/9/2009 07:58 PM
gamma-Chlordane	ND	1.0		µg/Kg	1	12/9/2009 07:58 PM
Heptachlor	ND	1.0		µg/Kg	1	12/9/2009 07:58 PM
Heptachlor epoxide	ND	1.0		µg/Kg	1	12/9/2009 07:58 PM
Methoxychlor	ND	5.0		µg/Kg	1	12/9/2009 07:58 PM
Toxaphene	ND	50		µg/Kg	1	12/9/2009 07:58 PM
Surr: Decachlorobiphenyl	63.0	20-142		%REC	1	12/9/2009 07:58 PM
Surr: Tetrachloro-m-xylene	62.8	25-115		%REC	1	12/9/2009 07:58 PM

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



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 16-Dec-09

CLIENT: Geocon Consultants, Inc.

Client Sample ID: Composite B44-3,45-3,46-3,47-3

Lab Order: 109012

Collection Date: 12/4/2009

Project: NIPOMO 101 WILLOW ROAD I/C, E8506-

Matrix: SOIL

Lab ID: 109012-217A

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3050B

EPA 6010B

RunID:	ICP8_091210A	QC Batch:	60367	PrepDate:	12/9/2009	Analyst:	CL
Antimony	ND	2.0	mg/Kg	1	12/10/2009 11:15 AM		
Arsenic	ND	1.0	mg/Kg	1	12/10/2009 11:15 AM		
Barium	12	1.0	mg/Kg	1	12/10/2009 11:15 AM		
Beryllium	ND	1.0	mg/Kg	1	12/10/2009 11:15 AM		
Cadmium	ND	1.0	mg/Kg	1	12/10/2009 11:15 AM		
Chromium	3.2	1.0	mg/Kg	1	12/10/2009 11:15 AM		
Cobalt	ND	1.0	mg/Kg	1	12/10/2009 11:15 AM		
Copper	ND	2.0	mg/Kg	1	12/10/2009 11:15 AM		
Lead	1.3	1.0	mg/Kg	1	12/10/2009 11:15 AM		
Molybdenum	ND	1.0	mg/Kg	1	12/10/2009 11:15 AM		
Nickel	1.4	1.0	mg/Kg	1	12/10/2009 11:15 AM		
Selenium	ND	1.0	mg/Kg	1	12/10/2009 11:15 AM		
Silver	ND	1.0	mg/Kg	1	12/10/2009 11:15 AM		
Thallium	ND	1.0	mg/Kg	1	12/10/2009 11:15 AM		
Vanadium	3.9	1.0	mg/Kg	1	12/10/2009 11:15 AM		
Zinc	3.2	1.0	mg/Kg	1	12/10/2009 11:15 AM		

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A

RunID:	AA1_091209A	QC Batch:	60358	PrepDate:	12/9/2009	Analyst:	IL
Mercury	ND	0.10	mg/Kg	1	12/9/2009 04:10 PM		

Qualifiers:

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



Advanced Technology
Laboratories

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

CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: MB-60367	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115839						
Client ID: PBS	Batch ID: 60367	TestNo: EPA 6010B EPA 3050B		Analysis Date: 12/10/2009	SeqNo: 1837884						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

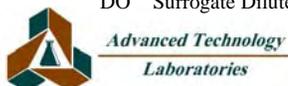
Antimony	ND	2.0									
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	0.013	1.0									
Chromium	0.167	1.0									
Cobalt	ND	1.0									
Copper	ND	2.0									
Lead	0.183	1.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	0.076	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	ND	1.0									

Sample ID: LCS-60367	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115839						
Client ID: LCSS	Batch ID: 60367	TestNo: EPA 6010B EPA 3050B		Analysis Date: 12/10/2009	SeqNo: 1837885						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	53.276	2.0	50.00	0	107	80	120				
Arsenic	50.624	1.0	50.00	0	101	80	120				
Barium	55.399	1.0	50.00	0	111	80	120				
Beryllium	53.693	1.0	50.00	0	107	80	120				
Cadmium	52.121	1.0	50.00	0.01292	104	80	120				
Chromium	53.317	1.0	50.00	0.1675	106	80	120				
Cobalt	54.699	1.0	50.00	0	109	80	120				

Qualifiers:

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



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

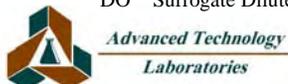
TestCode: 6010_S

Sample ID: LCS-60367		SampType: LCS		TestCode: 6010_S		Units: mg/Kg		Prep Date: 12/9/2009		RunNo: 115839	
Client ID: LCSS		Batch ID: 60367		TestNo: EPA 6010B EPA 3050B				Analysis Date: 12/10/2009		SeqNo: 1837885	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	57.324	2.0	50.00	0	115	80	120				
Lead	53.872	1.0	50.00	0.1831	107	80	120				
Molybdenum	54.949	1.0	50.00	0	110	80	120				
Nickel	51.909	1.0	50.00	0	104	80	120				
Selenium	48.118	1.0	50.00	0	96.2	80	120				
Silver	55.092	1.0	50.00	0.07614	110	80	120				
Thallium	54.455	1.0	50.00	0	109	80	120				
Vanadium	55.593	1.0	50.00	0	111	80	120				
Zinc	51.776	1.0	50.00	0	104	80	120				

Sample ID: 109012-217ADUP		SampType: DUP		TestCode: 6010_S		Units: mg/Kg		Prep Date: 12/9/2009		RunNo: 115839	
Client ID: Composite B44-3,45		Batch ID: 60367		TestNo: EPA 6010B EPA 3050B				Analysis Date: 12/10/2009		SeqNo: 1837891	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0						0	0	20	
Arsenic	ND	1.0						0	0	20	
Barium	13.207	1.0						11.94	10.1	20	
Beryllium	ND	1.0						0	0	20	
Cadmium	0.090	1.0						0.07890	0	20	
Chromium	3.277	1.0						3.210	2.06	20	
Cobalt	0.462	1.0						0.3585	0	20	
Copper	1.224	2.0						1.444	0	20	
Lead	1.388	1.0						1.300	6.59	20	
Molybdenum	ND	1.0						0	0	20	
Nickel	1.602	1.0						1.437	10.9	20	
Selenium	ND	1.0						0	0	20	
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	4.286	1.0						3.859	10.5	20	
Zinc	3.340	1.0						3.229	3.39	20	

Qualifiers:

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



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

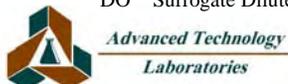
TestCode: 6010_S

Sample ID: 109012-217AMS		SampType: MS		TestCode: 6010_S		Units: mg/Kg		Prep Date: 12/9/2009		RunNo: 115839	
Client ID: Composite B44-3,45		Batch ID: 60367		TestNo: EPA 6010B EPA 3050B		Analysis Date: 12/10/2009		SeqNo: 1837892			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	127.736	2.0	125.0	0	102	25	106				
Arsenic	123.967	1.0	125.0	0	99.2	42	113				
Barium	150.467	1.0	125.0	11.94	111	19	140				
Beryllium	132.621	1.0	125.0	0	106	50	109				
Cadmium	127.509	1.0	125.0	0.07890	102	48	106				
Chromium	138.204	1.0	125.0	3.210	108	44	116				
Cobalt	133.933	1.0	125.0	0.3585	107	47	107				
Copper	146.013	2.0	125.0	1.444	116	49	124				
Lead	134.653	1.0	125.0	1.300	107	33	120				
Molybdenum	132.736	1.0	125.0	0	106	46	111				
Nickel	134.019	1.0	125.0	1.437	106	43	111				
Selenium	118.278	1.0	125.0	0	94.6	43	104				
Silver	133.804	1.0	125.0	0	107	53	114				
Thallium	132.430	1.0	125.0	0	106	41	107				
Vanadium	140.473	1.0	125.0	3.859	109	48	116				
Zinc	131.772	1.0	125.0	3.229	103	24	129				

Sample ID: 109012-217AMSD		SampType: MSD		TestCode: 6010_S		Units: mg/Kg		Prep Date: 12/9/2009		RunNo: 115839	
Client ID: Composite B44-3,45		Batch ID: 60367		TestNo: EPA 6010B EPA 3050B		Analysis Date: 12/10/2009		SeqNo: 1837893			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	112.923	2.0	125.0	0	90.3	25	106	127.7	12.3	20	
Arsenic	109.156	1.0	125.0	0	87.3	42	113	124.0	12.7	20	
Barium	131.274	1.0	125.0	11.94	95.5	19	140	150.5	13.6	20	
Beryllium	115.173	1.0	125.0	0	92.1	50	109	132.6	14.1	20	
Cadmium	112.644	1.0	125.0	0.07890	90.1	48	106	127.5	12.4	20	
Chromium	120.806	1.0	125.0	3.210	94.1	44	116	138.2	13.4	20	
Cobalt	116.990	1.0	125.0	0.3585	93.3	47	107	133.9	13.5	20	
Copper	127.234	2.0	125.0	1.444	101	49	124	146.0	13.7	20	
Lead	118.735	1.0	125.0	1.300	93.9	33	120	134.7	12.6	20	

Qualifiers:

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



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

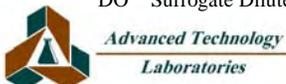
ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 109012-217AMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115839						
Client ID: Composite B44-3,45	Batch ID: 60367	TestNo: EPA 6010B EPA 3050B		Analysis Date: 12/10/2009	SeqNo: 1837893						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	115.940	1.0	125.0	0	92.8	46	111	132.7	13.5	20	
Nickel	117.256	1.0	125.0	1.437	92.7	43	111	134.0	13.3	20	
Selenium	103.798	1.0	125.0	0	83.0	43	104	118.3	13.0	20	
Silver	118.268	1.0	125.0	0	94.6	53	114	133.8	12.3	20	
Thallium	116.876	1.0	125.0	0	93.5	41	107	132.4	12.5	20	
Vanadium	122.798	1.0	125.0	3.859	95.2	48	116	140.5	13.4	20	
Zinc	116.896	1.0	125.0	3.229	90.9	24	129	131.8	12.0	20	

Qualifiers:

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



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

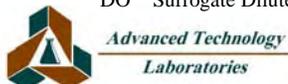
Sample ID: 109012-020ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115792						
Client ID: B5-2	Batch ID: 60333	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1836967						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.861	5.0						1.357	0	20	

Sample ID: 109012-020AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115792						
Client ID: B5-2	Batch ID: 60333	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1836968						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	247.135	5.0	250.0	1.357	98.3	33	120				

Sample ID: 109012-020AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115792						
Client ID: B5-2	Batch ID: 60333	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1836969						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	272.094	5.0	250.0	1.357	108	33	120	247.1	9.61	20	

Qualifiers:

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



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: MB-60334A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115793						
Client ID: PBS	Batch ID: 60334	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1836971						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	5.0									
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Sample ID: LCS-60334	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115793						
Client ID: LCSS	Batch ID: 60334	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1836972						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	287.320	5.0	250.0	0	115	80	120				
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Sample ID: 109012-030ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115793						
Client ID: B8-.5	Batch ID: 60334	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1836983						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	14.133	5.0						23.44	49.5	20	R
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Sample ID: 109012-030AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115793						
Client ID: B8-.5	Batch ID: 60334	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1836984						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

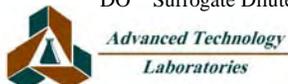
Lead	289.201	5.0	250.0	23.44	106	33	120				
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Sample ID: MB-60334B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115793						
Client ID: PBS	Batch ID: 60334	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1836985						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	5.0									
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Qualifiers:

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



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

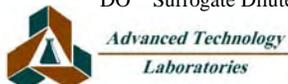
Sample ID: 109012-040ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115793						
Client ID: B10-2	Batch ID: 60334	TestNo: EPA 6010B EPA 3050M		Analysis Date: 12/9/2009	SeqNo: 1836996						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.593	5.0						5.441	19.2	20	

Sample ID: 109012-040AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115793						
Client ID: B10-2	Batch ID: 60334	TestNo: EPA 6010B EPA 3050M		Analysis Date: 12/9/2009	SeqNo: 1836997						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	286.678	5.0	250.0	5.441	112	33	120				

Sample ID: 109012-040AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115793						
Client ID: B10-2	Batch ID: 60334	TestNo: EPA 6010B EPA 3050M		Analysis Date: 12/9/2009	SeqNo: 1836998						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	276.018	5.0	250.0	5.441	108	33	120	286.7	3.79	20	

Qualifiers:

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



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

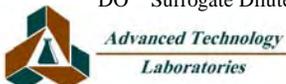
Sample ID: 109012-060ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115819						
Client ID: B15-2	Batch ID: 60335	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837507						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.410	5.0						1.746	0	20	

Sample ID: 109012-060AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115819						
Client ID: B15-2	Batch ID: 60335	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837508						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	236.823	5.0	250.0	1.746	94.0	33	120				

Sample ID: 109012-060AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115819						
Client ID: B15-2	Batch ID: 60335	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837509						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	247.526	5.0	250.0	1.746	98.3	33	120	236.8	4.42	20	

Qualifiers:

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



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

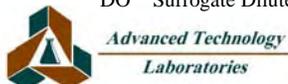
Sample ID: 109012-080ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115794						
Client ID: B20-2	Batch ID: 60336	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837024						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.751	5.0						1.682	0	20	

Sample ID: 109012-080AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115794						
Client ID: B20-2	Batch ID: 60336	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837025						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	248.197	5.0	250.0	1.682	98.6	33	120				

Sample ID: 109012-080AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115794						
Client ID: B20-2	Batch ID: 60336	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837026						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	260.685	5.0	250.0	1.682	104	33	120	248.2	4.91	20	

Qualifiers:

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



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: LCS-60337	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115802						
Client ID: LCSS	Batch ID: 60337	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837138						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	282.510	5.0	250.0	0	113	80	120				
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Sample ID: 109012-090ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115802						
Client ID: B23--5	Batch ID: 60337	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837149						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	13.358	5.0						9.403	34.8	20	R
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Sample ID: 109012-090AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115802						
Client ID: B23--5	Batch ID: 60337	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837150						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	262.700	5.0	250.0	9.403	101	33	120				
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Sample ID: 109012-100ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115802						
Client ID: B25-2	Batch ID: 60337	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837162						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

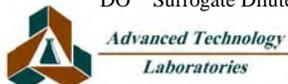
Lead	1.297	5.0						1.500	0	20	
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Sample ID: 109012-100AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115802						
Client ID: B25-2	Batch ID: 60337	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837163						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	261.855	5.0	250.0	1.500	104	33	120				
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Qualifiers:

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



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

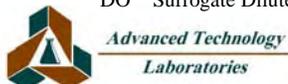
Sample ID: 109012-100AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115802						
Client ID: B25-2	Batch ID: 60337	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837164						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	272.247	5.0	250.0	1.500	108	33	120	261.9	3.89	20	

Sample ID: MB-60337A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115802						
Client ID: PBS	Batch ID: 60337	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837180						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: MB-60337B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115802						
Client ID: PBS	Batch ID: 60337	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837181						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

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



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

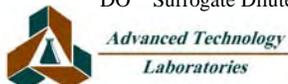
Sample ID: 109012-120ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115804						
Client ID: B30-2	Batch ID: 60338	TestNo: EPA 6010B EPA 3050M		Analysis Date: 12/9/2009	SeqNo: 1837207						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.099	5.0						1.143	0	20	

Sample ID: 109012-120AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115804						
Client ID: B30-2	Batch ID: 60338	TestNo: EPA 6010B EPA 3050M		Analysis Date: 12/9/2009	SeqNo: 1837208						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	266.167	5.0	250.0	1.143	106	33	120				

Sample ID: 109012-120AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115804						
Client ID: B30-2	Batch ID: 60338	TestNo: EPA 6010B EPA 3050M		Analysis Date: 12/9/2009	SeqNo: 1837457						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	261.032	5.0	250.0	1.143	104	33	120	266.2	1.95	20	

Qualifiers:

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



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

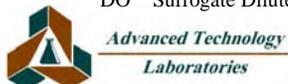
Sample ID: 109012-152ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115821						
Client ID: B37-0	Batch ID: 60339	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837556						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.430	5.0						2.101	0	20	

Sample ID: 109012-152AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115821						
Client ID: B37-0	Batch ID: 60339	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837557						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	250.733	5.0	250.0	2.101	99.5	33	120				

Sample ID: 109012-152AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115821						
Client ID: B37-0	Batch ID: 60339	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/9/2009	SeqNo: 1837558						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	245.063	5.0	250.0	2.101	97.2	33	120	250.7	2.29	20	

Qualifiers:

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



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

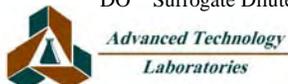
Sample ID: 109012-180ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115854						
Client ID: B43-1	Batch ID: 60340	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/10/2009	SeqNo: 1838131						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.770	5.0						1.609	0	20	

Sample ID: 109012-180AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115854						
Client ID: B43-1	Batch ID: 60340	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/10/2009	SeqNo: 1838132						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	266.008	5.0	250.0	1.609	106	33	120				

Sample ID: 109012-180AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115854						
Client ID: B43-1	Batch ID: 60340	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/10/2009	SeqNo: 1838133						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	270.994	5.0	250.0	1.609	108	33	120	266.0	1.86	20	

Qualifiers:

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



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: MB-60348A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115855						
Client ID: PBS	Batch ID: 60348	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/10/2009	SeqNo: 1838152						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	5.0									
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Sample ID: LCS-60348	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115855						
Client ID: LCSS	Batch ID: 60348	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/10/2009	SeqNo: 1838153						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	286.880	5.0	250.0	0	115	80	120				
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Sample ID: 109012-198ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115855						
Client ID: B47-0	Batch ID: 60348	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/10/2009	SeqNo: 1838164						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	1.903	5.0						1.589	0	20	
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Sample ID: 109012-198AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115855						
Client ID: B47-0	Batch ID: 60348	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/10/2009	SeqNo: 1838165						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

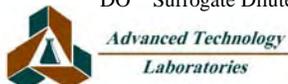
Lead	270.661	5.0	250.0	1.589	108	33	120				
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Sample ID: MB-60348B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115855						
Client ID: PBS	Batch ID: 60348	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/10/2009	SeqNo: 1838166						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	5.0									
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Qualifiers:

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



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

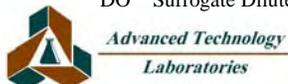
Sample ID: 109012-200ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115855						
Client ID: B47-1	Batch ID: 60348	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/10/2009	SeqNo: 1838169						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.899	5.0						1.031	0	20	

Sample ID: 109012-200AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115855						
Client ID: B47-1	Batch ID: 60348	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/10/2009	SeqNo: 1838170						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	263.333	5.0	250.0	1.031	105	33	120				

Sample ID: 109012-200AMSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115855						
Client ID: B47-1	Batch ID: 60348	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/10/2009	SeqNo: 1838171						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	280.341	5.0	250.0	1.031	112	33	120	263.3	6.26	20	

Qualifiers:

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



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: MB-60358	SampType: MBLK	TestCode: 7471_S	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115791						
Client ID: PBS	Batch ID: 60358	TestNo: EPA 7471A		Analysis Date: 12/9/2009	SeqNo: 1836932						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	ND	0.10									
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Sample ID: LCS-60358	SampType: LCS	TestCode: 7471_S	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115791						
Client ID: LCSS	Batch ID: 60358	TestNo: EPA 7471A		Analysis Date: 12/9/2009	SeqNo: 1836933						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.830	0.10	0.8300	0	100	80	120				
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Sample ID: 109012-217A-MS	SampType: MS	TestCode: 7471_S	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115791						
Client ID: Composite B44-3,45	Batch ID: 60358	TestNo: EPA 7471A		Analysis Date: 12/9/2009	SeqNo: 1836934						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.845	0.10	0.8300	0	102	70	130				
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Sample ID: 109012-217A-MSD	SampType: MSD	TestCode: 7471_S	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115791						
Client ID: Composite B44-3,45	Batch ID: 60358	TestNo: EPA 7471A		Analysis Date: 12/9/2009	SeqNo: 1836935						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

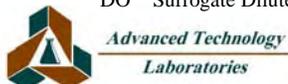
Mercury	0.847	0.10	0.8300	0	102	70	130	0.8453	0.150	20	
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Sample ID: 109012-217A-DUP	SampType: DUP	TestCode: 7471_S	Units: mg/Kg	Prep Date: 12/9/2009	RunNo: 115791						
Client ID: Composite B44-3,45	Batch ID: 60358	TestNo: EPA 7471A		Analysis Date: 12/9/2009	SeqNo: 1836937						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	ND	0.10						0	0	20	
---------	----	------	--	--	--	--	--	---	---	----	--

Qualifiers:

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



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

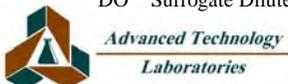
TestCode: 8081_S

Sample ID: MB-60360		SampType: MBLK		TestCode: 8081_S		Units: µg/Kg		Prep Date: 12/9/2009		RunNo: 115830	
Client ID: PBS		Batch ID: 60360		TestNo: EPA 8081A EPA 3550B				Analysis Date: 12/9/2009		SeqNo: 1837692	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	ND	2.0									
4,4'-DDE	ND	2.0									
4,4'-DDT	ND	2.0									
Aldrin	ND	1.0									
alpha-BHC	ND	1.0									
alpha-Chlordane	ND	1.0									
beta-BHC	ND	1.0									
Chlordane	ND	8.5									
delta-BHC	ND	1.0									
Dieldrin	ND	2.0									
Endosulfan I	ND	1.0									
Endosulfan II	ND	2.0									
Endosulfan sulfate	ND	2.0									
Endrin	ND	2.0									
Endrin aldehyde	ND	2.0									
Endrin ketone	ND	2.0									
gamma-BHC	ND	1.0									
gamma-Chlordane	ND	1.0									
Heptachlor	ND	1.0									
Heptachlor epoxide	ND	1.0									
Methoxychlor	ND	5.0									
Toxaphene	ND	50									
Surr: Tetrachloro-m-xylene	13.604		16.67		81.6	25	115				
Surr: Decachlorobiphenyl	13.582		16.67		81.5	20	142				

Sample ID: LCS-60360		SampType: LCS		TestCode: 8081_S		Units: µg/Kg		Prep Date: 12/9/2009		RunNo: 115830	
Client ID: LCSS		Batch ID: 60360		TestNo: EPA 8081A EPA 3550B				Analysis Date: 12/9/2009		SeqNo: 1837693	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aldrin	13.458	1.0	16.67	0	80.7	59	113				

Qualifiers:

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



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081_S

Sample ID: LCS-60360	SampType: LCS	TestCode: 8081_S	Units: µg/Kg	Prep Date: 12/9/2009	RunNo: 115830
Client ID: LCSS	Batch ID: 60360	TestNo: EPA 8081A	EPA 3550B	Analysis Date: 12/9/2009	SeqNo: 1837693

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dieldrin	13.005	2.0	16.67	0	78.0	59	108				
Endrin	12.529	2.0	16.67	0	75.2	41	132				
gamma-BHC	13.292	1.0	16.67	0	79.7	60	111				
Heptachlor	13.376	1.0	16.67	0	80.2	62	108				
Surr: Tetrachloro-m-xylene	13.265		16.67		79.6	25	115				
Surr: Decachlorobiphenyl	13.321		16.67		79.9	20	142				

Sample ID: MB-60360MS	SampType: MS	TestCode: 8081_S	Units: µg/Kg	Prep Date: 12/9/2009	RunNo: 115830
Client ID: ZZZZZ	Batch ID: 60360	TestNo: EPA 8081A	EPA 3550B	Analysis Date: 12/9/2009	SeqNo: 1837694

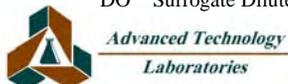
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDT	12.263	2.0	16.67	0	73.6	29	143				
Aldrin	13.784	1.0	16.67	0	82.7	44	131				
Dieldrin	13.245	2.0	16.67	0	79.5	40	136				
Endrin	12.956	2.0	16.67	0	77.7	41	146				
gamma-BHC	13.502	1.0	16.67	0	81.0	45	129				
Heptachlor	13.706	1.0	16.67	0	82.2	48	126				
Surr: Tetrachloro-m-xylene	13.258		16.67		79.5	25	115				
Surr: Decachlorobiphenyl	13.171		16.67		79.0	20	142				

Sample ID: MB-60360MSD	SampType: MSD	TestCode: 8081_S	Units: µg/Kg	Prep Date: 12/9/2009	RunNo: 115830
Client ID: ZZZZZ	Batch ID: 60360	TestNo: EPA 8081A	EPA 3550B	Analysis Date: 12/9/2009	SeqNo: 1837695

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDT	12.321	2.0	16.67	0	73.9	29	143	12.26	0.479	20	
Aldrin	14.067	1.0	16.67	0	84.4	44	131	13.78	2.03	20	
Dieldrin	13.418	2.0	16.67	0	80.5	40	136	13.25	1.30	20	
Endrin	13.029	2.0	16.67	0	78.2	41	146	12.96	0.563	20	
gamma-BHC	13.790	1.0	16.67	0	82.7	45	129	13.50	2.11	20	
Heptachlor	14.022	1.0	16.67	0	84.1	48	126	13.71	2.29	20	

Qualifiers:

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



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

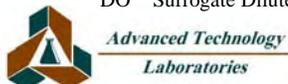
TestCode: 8081_S

Sample ID: MB-60360MSD	SampType: MSD	TestCode: 8081_S	Units: µg/Kg	Prep Date: 12/9/2009	RunNo: 115830						
Client ID: ZZZZZZ	Batch ID: 60360	TestNo: EPA 8081A	EPA 3550B	Analysis Date: 12/9/2009	SeqNo: 1837695						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Tetrachloro-m-xylene	13.560		16.67		81.3	25	115		0	0	
Surr: Decachlorobiphenyl	13.530		16.67		81.2	20	142		0	0	

Sample ID: 109012-211ADUP	SampType: DUP	TestCode: 8081_S	Units: µg/Kg	Prep Date: 12/9/2009	RunNo: 115830						
Client ID: Composite B32-0,33	Batch ID: 60360	TestNo: EPA 8081A	EPA 3550B	Analysis Date: 12/9/2009	SeqNo: 1837697						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDD	ND	2.0						0	0	20	
4,4'-DDE	0.514	2.0						0.6198	0	20	
4,4'-DDT	1.064	2.0						1.214	0	20	
Aldrin	ND	1.0						0	0	20	
alpha-BHC	ND	1.0						0	0	20	
alpha-Chlordane	ND	1.0						0	0	20	
beta-BHC	ND	1.0						0	0	20	
Chlordane	ND	8.5						0	0	20	
delta-BHC	ND	1.0						0	0	20	
Dieldrin	ND	2.0						0	0	20	
Endosulfan I	ND	1.0						0	0	20	
Endosulfan II	ND	2.0						0	0	20	
Endosulfan sulfate	ND	2.0						0	0	20	
Endrin	ND	2.0						0	0	20	
Endrin aldehyde	ND	2.0						0	0	20	
Endrin ketone	ND	2.0						0	0	20	
gamma-BHC	ND	1.0						0	0	20	
gamma-Chlordane	ND	1.0						0	0	20	
Heptachlor	ND	1.0						0	0	20	
Heptachlor epoxide	ND	1.0						0	0	20	
Methoxychlor	ND	5.0						0	0	20	
Toxaphene	ND	50						0	0	20	
Surr: Tetrachloro-m-xylene	11.081		16.67		66.5	25	115		0	0	

Qualifiers:

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



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081_S

Sample ID: 109012-211ADUP	SampType: DUP	TestCode: 8081_S	Units: µg/Kg	Prep Date: 12/9/2009	RunNo: 115830						
Client ID: Composite B32-0,33	Batch ID: 60360	TestNo: EPA 8081A EPA 3550B		Analysis Date: 12/9/2009	SeqNo: 1837697						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	9.818		16.67		58.9	20	142		0	0	

Qualifiers:

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



*Advanced Technology
Laboratories*

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

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:



**Advanced Technology
Laboratories**

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

P.O.#: _____
Logged By: _____ Date: _____

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, INC.

Address: 6671 Brisa Street

TEL: (925) 371-5900

Attn: _____

City Livemore

State CA

Zip Code 94550

FAX: (925) 371-5915

Project Name: Nipomp 101 Willow Road I/C

Project #: E8506-06-01

Sampler: C. MERRITT (Printed Name)

CHRIS MERRITT (Signature)

Relinquished by: CHRIS MERRITT (Signature and Printed Name)

Date: 12-7-09 Time: 1645

Received by: FPDWA (Signature and Printed Name)

Date: 12/8/09 Time: 1600

Relinquished by: _____ (Signature and Printed Name)

Date: _____ Time: _____

Received by: _____ (Signature and Printed Name)

Date: _____ Time: _____

Relinquished by: _____ (Signature and Printed Name)

Date: _____ Time: _____

Received by: _____ (Signature and Printed Name)

Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below:

Project Mgr /Submitter:

cm 12-7-09
Print Name Date
cm
Signature

Send Report To:

Attn: _____
Co: SAME AS ABOVE
Address _____
City _____ State _____ Zip _____

Bill To:

Attn: _____
Co: SAME AS ABOVE
Address _____
City _____ State _____ Zip _____

Special Instructions/Comments:

B11-20 - INDIVIDUAL SAMPLES FOR LEAD.

Sample/Records - Archival & Disposal

Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):

- Sample : \$2.00 / sample / mo (after 45 days)
- Records : \$1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested

- 8081A (Pesticides)
- 8092 (PCB)
- 8280B (Volatiles)
- 8270C (BNA)
- 8010B (Total Metal)
- 8015B (GRO) / BTEX
- 8015B (DRO)
- 8021 (BTEX)
- TITLE 22 / CAM 17 (8010 / 7000)
- TOTAL Pb

SPECIFY APPROPRIATE MATRIX

- SOIL
- WATER
- GROUND WATER
- WASTEWATER

Container(s)

TAT # Type

QA/QC

RTNE
CT

SWRCB
Logcode _____

OTHER _____

REMARKS

ITEM	LAB USE ONLY:		Sample Description		
	Batch #:	Lab No.	Sample I.D. / Location	Date	Time
		<u>109012 - 41/44</u>	<u>B11 - 0, 1, 1, 2</u>	<u>12-7-09</u>	<u>1645</u>
		<u>45/48</u>	<u>B12</u>	<u>12-7-09</u>	<u>1645</u>
		<u>49/52</u>	<u>B13</u>	<u>12-7-09</u>	<u>1645</u>
		<u>53/56</u>	<u>B14</u>	<u>12-7-09</u>	<u>1645</u>
		<u>57/60</u>	<u>B15</u>	<u>12-7-09</u>	<u>1645</u>
		<u>61/64</u>	<u>B16</u>	<u>12-7-09</u>	<u>1645</u>
		<u>65/68</u>	<u>B17</u>	<u>12-7-09</u>	<u>1645</u>
		<u>69/72</u>	<u>B18</u>	<u>12-7-09</u>	<u>1645</u>
		<u>73/76</u>	<u>B19</u>	<u>12-7-09</u>	<u>1645</u>
		<u>77/80</u>	<u>B20</u>	<u>12-7-09</u>	<u>1645</u>

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

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

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

Preservatives: H=HCl N=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
(562) 989-4045 • Fax (562) 989-4040

P.O.#: _____	Method of Transport Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input type="checkbox"/> FEDEX <input type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>
Logged By: _____ Date: _____		

Client: GEOCON CONSULTANTS, INC.	Address: 6671 Brisa Street	TEL: (925) 371-5900
Attn: _____	City Livemore State CA Zip Code 94550	FAX: (925) 371-5915

Project Name: <u>Nepomc 101 Willow Road I/C</u>	Project #: <u>E8506-06-01</u>	Sampler: <u>C. MERRITT</u> (Printed Name)	(Signature) <u>CHRIS MERRITT</u>
Relinquished by: (Signature and Printed Name) <u>CHRIS MERRITT</u>	Date: <u>12-7-09</u> Time: <u>1645</u>	Received by: (Signature and Printed Name) <u>FPD LWA</u>	Date: <u>12/8/09</u> Time: <u>1600</u>
Relinquished by: (Signature and Printed Name) _____	Date: _____ Time: _____	Received by: (Signature and Printed Name) _____	Date: _____ Time: _____
Relinquished by: (Signature and Printed Name) _____	Date: _____ Time: _____	Received by: (Signature and Printed Name) _____	Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: <u>cm</u> <u>12-7-09</u> Print Name Date <u>cm</u> Signature	Send Report To: Attn: _____ Co: <u>SAME AS ABOVE</u> Address _____ City _____ State _____ Zip _____	Bill To: Attn: _____ Co: <u>SAME AS ABOVE</u> Address _____ City _____ State _____ Zip _____	Special Instructions/Comments:
---	---	--	--------------------------------

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

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

LAB USE ONLY: Batch #: Lab No.	Sample Description Sample I.D. / Location	Date	Time	SPECIFY APPROPRIATE MATRIX								TAT	#	Type	PRESERVATION	REMARKS		
				8061A (Pesticides)	8092 (PCB)	8260A (Volatiles)	8270C (BVA)	8010B (Total Metal)	8015B (GAC) / BTEX	8021 (DRO)	TITLE 22 / CAM 17 (6010 / 7000)						SOIL	WATER
109012-81/84	B21-0, 5, 1, 2	12-3-09	12:00											X	4	P B	C	
45/88	B22	5	5															
89/92	B23	5	5															
93/96	B24	12-4-09	12:14															
97/100	B25	5	5															
101/104	B26	5	5															
105/108	B27	11/25/09	12:22															

• TAT starts 8 a.m. following day if samples received after 3 p.m.	TAT: A= <u>Overnight</u> ≤ 24 hr	B= <u>Emergency</u> Next workday	C= <u>Critical</u> 2 Workdays	D= <u>Urgent</u> 3 Workdays	E= <u>Routine</u> 7 Workdays	Preservatives: H=Hcl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃
Container Types: T=Tube V=VOA L=Liter P=Plastic M=Metal						

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:



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Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

P.O.#: _____	Method of Transport Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input type="checkbox"/> FEDEX <input type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>
Logged By: _____ Date: _____		

Client: **GEOCON CONSULTANTS, INC.** Address: **6671 Brisa Street** TEL: **(925) 371-5900**
 Attn: _____ City: **Livermore** State: **CA** Zip Code: **94550** FAX: **(925) 371-5915**

Project Name: **Nipomo 101 Willow Road I/C** Project #: **E8506-06-01** Sampler: **C. MERRITT** (Signature) **CHRIS MERRITT**
 Relinquished by: (Signature and Printed Name) **CHRIS MERRITT** Date: **12-7-09** Time: **1645** Received by: (Signature and Printed Name) **FPDINA** Date: **12/7/09** Time: **1620**
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____ Received by: (Signature and Printed Name) _____ Date: _____ Time: _____
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____ Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: cm 12-7-09 Print Name Date cm Signature	Send Report To: Attn: _____ Co: SAME AS ABOVE Address _____ City _____ State _____ Zip _____	Bill To: Attn: _____ Co: SAME AS ABOVE Address _____ City _____ State _____ Zip _____	Special Instructions/Comments:
---	---	--	--------------------------------

Sample/Records - Archival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
 • Sample : \$2.00 / sample / mo (after 45 days)
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

I T E M	LAB USE ONLY:		Sample Description				Circle or Add Analysis(es) Requested	SPECIFY APPROPRIATE MATRIX				TAT	#	Type	PRESERVATION	REMARKS
	Batch #:	Lab No.	Sample I.D. / Location	Date	Time	SOIL		WATER	GROUND WATER	WASTEWATER						
	109012-129/131		B32-0, .5, 1		1305											
	132/134		B33-		1305											
	135/137		B34-		1305											
	138/140		B35-		1305											
	141		B32-3		1305											
	142		B33-3		1305											
	143		B34-3		1336											
	144		B35-3		1339											

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

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

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=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:



**Advanced Technology
Laboratories**

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

P.O.#: _____
Logged By: _____ Date: _____

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, INC.

Address: 6671 Brisa Street

TEL: (925) 371-5900

Attn: _____

City Livemore State CA Zip Code 94550

FAX: (925) 371-5915

Project Name: Nipomo 101 Willow Road I/C

Project #: E8506-06-01

Sampler: C. MERRITT (Printed Name)

CHRIS MERRITT (Signature)

Relinquished by: CHRIS MERRITT (Signature and Printed Name)

Date: 12-7-09 Time: 1645

Received by: FPD (Signature and Printed Name)

Date: 12/8/09 Time: 1620

Relinquished by: _____ (Signature and Printed Name)

Date: _____ Time: _____

Received by: _____ (Signature and Printed Name)

Date: _____ Time: _____

Relinquished by: _____ (Signature and Printed Name)

Date: _____ Time: _____

Received by: _____ (Signature and Printed Name)

Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below:

Send Report To:

Bill To:

Special Instructions/Comments:

Project Mgr /Submitter:

Attn: _____

Attn: _____

cm 12-7-09
Print Name Date

Co: SAME AS ABOVE

Co: SAME AS ABOVE

cm
Signature

Address _____
City _____ State _____ Zip _____

Address _____
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 : \$1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

QA/QC

RTNE
CT

SWRCB
Logcode _____

OTHER _____

REMARKS

ITEM	LAB USE ONLY:		Sample Description		
	Batch #:	Lab No.	Sample I.D. / Location	Date	Time
	109012-	161	B36-0	12-7-09	1638
		162	B37-0	}	1630
		163	B38-0		1620
		164	B39-0		1610
		165	B36-3		1644
		166	B37-3		1636
		167	B38-3	}	1626
		168	B39-3		1616

Circle or Add Analysis(es) Requested	SPECIFY APPROPRIATE MATRIX				TAT	#	Type	CONTAINER(S)
	SOIL	WATER	GROUND WATER	WASTEWATER				
8091A (Pesticides)								
8092 (PCB)								
8200B (Volatiles)								
8270C (BVA)								
8010B (Total Metal)								
8015B (GRO) / BTEX								
8015B (DRO)								
8021 (BTEX)								
TITLE 22 / CAM 17 (6010 / 7000)								

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

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

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=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

CHAIN OF CUSTODY RECORD



**Advanced Technology
Laboratories**

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

FOR LABORATORY USE ONLY:

P.O.#: _____ Logged By: _____ Date: _____	Method of Transport Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input type="checkbox"/> FEDEX <input type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>
--	--	---

Client: GEOCON CONSULTANTS, INC.	Address: 6671 Brisa Street	TEL: (925) 371-5900
Attn: _____	City: Livermore State: CA Zip Code: 94550	FAX: (925) 371-5915

Project Name: Nipomo 101 Willow Road I/C	Project #: E8506-06-01	Sampler: C. MERRITT (Printed Name)	(Signature) CHRIS MERRITT
Relinquished by: (Signature and Printed Name) CHRIS MERRITT	Date: 12-7-09 Time: 1645	Received by: (Signature and Printed Name) FPOUN	Date: 12/8/09 Time: 1620
Relinquished by: (Signature and Printed Name) _____	Date: _____ Time: _____	Received by: (Signature and Printed Name) _____	Date: _____ Time: _____
Relinquished by: (Signature and Printed Name) _____	Date: _____ Time: _____	Received by: (Signature and Printed Name) _____	Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below: Project Mgr / Submitter: cm 12-7-09 Print Name Date cm Signature	Send Report To: Attn: _____ Co: SAME AS ABOVE Address _____ City _____ State _____ Zip _____	Bill To: Attn: _____ Co: SAME AS ABOVE Address _____ City _____ State _____ Zip _____	Special Instructions/Comments: B44 TO B47 0,5,1 INDIVIDUAL FOR LEAD
--	---	--	---

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

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

LAB USE ONLY: Batch #: Lab No.	Sample Description Sample I.D. / Location	Date	Time	SPECIFY APPROPRIATE MATRIX											TAT	#	Type	PRESERVATION	REMARKS	
				8091A (Pesticides)	8092 (PCB)	8260A (Volatiles)	8270C (BNA)	8010B (Total Metal)	8015B (GRO) / BTEX	8015B (DRO)	TITLE 22 / CAM 17 (6010 / 7000)	SOIL	WATER	GROUND WATER						WASTEWATER
109/12-185	B40-3	12-7-09	1421																	
186	B41-3		1424																	
187	B42-3		1436																	
188	B43-3		1446																	
189/191	B44-0,5,1		1618										X							
193/194	B45-0,5,1		1625										X							
195/197	B46-0,5,1		1636										X							
198/200	B47-0,5,1		1646										X							

TOTAL Pb

COMMENTS P1

• TAT starts 8 a.m. following day if samples received after 3 p.m.	TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays	Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal		

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:



**Advanced Technology
Laboratories**

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

P.O.#: _____

Logged By: _____ Date: _____

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, INC.

Address: 6671 Brisa Street

TEL: (925) 371-5900

Attn: _____

City Livemore

State CA

Zip Code 94550

FAX: (925) 371-5915

Project Name: Nepomc 101 Willow Road I/C

Project #: E8506-06-01

Sampler: C. MERRITT (Printed Name)

CHRIS MERRITT (Signature)

Relinquished by: CHRIS MERRITT (Signature and Printed Name)

Date: 12-7-09 Time: 1645

Received by: FPO... (Signature and Printed Name)

Date: 12/8/09 Time: 1640

Relinquished by: _____ (Signature and Printed Name)

Date: _____ Time: _____

Received by: _____ (Signature and Printed Name)

Date: _____ Time: _____

Relinquished by: _____ (Signature and Printed Name)

Date: _____ Time: _____

Received by: _____ (Signature and Printed Name)

Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below:

Project Mgr /Submitter:

cm 12-7-09
Print Name Date
cm
Signature

Send Report To:

Attn: _____
Co: SAME AS ABOVE
Address _____
City _____ State _____ Zip _____

Bill To:

Attn: _____
Co: SAME AS ABOVE
Address _____
City _____ State _____ Zip _____

Special Instructions/Comments:

Sample/Records - Archival & Disposal

Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):

- Sample : \$2.00 / sample / mo (after 45 days)
- Records : \$1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested

- 8091A (Pesticides)
- 8082 (PCB)
- 8260B (Volatiles)
- 8270C (BNA)
- 8010B (Total Metal)
- 8015B (GRO) / BTEX
- 8015B (DRO)
- 8021 (BTEX)
- TITLE 22 / CAM 17 (6010 / 7000)

SPECIFY APPROPRIATE MATRIX

- SOIL
- WATER
- GROUND WATER
- WASTEWATER

Container(s)

TAT # Type

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

TIME	LAB USE ONLY:		Sample Description		
	Batch #:	Lab No.	Sample I.D. / Location	Date	Time
	109012	201	B44-0	12-7-09	1514
		202	B45-0	} COMPOSITE 206	1521
		203	B46-0		1532
		204	B47-0		1542
		205	B44-3		1520
		206	B45-3	} COMPOSITE 217	1530
		207	B46-3		1536
		208	B47-3		1548

Analysis	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	#	Type	REMARKS
8091A	X					1	T M C	
8082								
8260B								
8270C								
8010B								
8015B (GRO) / BTEX								
8015B (DRO)								
8021 (BTEX)								
TITLE 22 / CAM 17 (6010 / 7000)								

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

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

Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C
Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₅

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

December 17, 2009



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

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

Workorder No.: 109012

RE: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

Attention: Chris Merritt

Enclosed are the results for sample(s) received on December 08, 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".

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: NIPOMO 101 WILLOW ROAD I/C, E8506-06-
Lab Order: 109012

CASE NARRATIVE

Analytical Comments for Method 7420

Dilution was necessary for samples 109012-062A and 109012-099A, due to sample matrix.



LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	109012
Project:	NIPOMO 101 WILLOW ROAD I/C, E8506-06-	Date Received	12/8/2009 4:00:00 PM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109012-013A	B4-0	2.8	mg/L	60493	0.25	1	12/4/2009	12/16/2009
109012-026A	B7-.5	7.1	mg/L	60493	0.25	1	12/3/2009	12/16/2009
109012-033A	B9-0	3.9	mg/L	60493	0.25	1	12/3/2009	12/16/2009
109012-034A	B9-.5	7.2	mg/L	60493	0.25	1	12/3/2009	12/16/2009
109012-037A	B10-0	8.3	mg/L	60493	0.25	1	12/3/2009	12/16/2009
109012-038A	B10-.5	7.6	mg/L	60493	0.25	1	12/3/2009	12/16/2009
109012-041A	B11-0	5.8	mg/L	60493	0.25	1	12/3/2009	12/16/2009
109012-051A	B13-1	7.6	mg/L	60493	0.25	1	12/3/2009	12/16/2009
109012-055A	B14-1	4.2	mg/L	60493	0.25	1	12/3/2009	12/16/2009
109012-057A	B15-0	4.6	mg/L	60493	0.25	1	12/3/2009	12/16/2009
109012-061A	B16-0	4.3	mg/L	60493	0.25	1	12/3/2009	12/16/2009
109012-062A	B16-.5	12	mg/L	60493	0.50	2	12/3/2009	12/16/2009
109012-069A	B18-0	3.2	mg/L	60493	0.25	1	12/3/2009	12/16/2009
109012-070A	B18-.5	2.8	mg/L	60493	0.25	1	12/3/2009	12/16/2009
109012-073A	B19-0	3.3	mg/L	60493	0.25	1	12/3/2009	12/16/2009
109012-082A	B21-.5	7.2	mg/L	60493	0.25	1	12/3/2009	12/16/2009
109012-099A	B25-1	30	mg/L	60493	2.5	10	12/4/2009	12/16/2009
109012-109A	B28-0	4.8	mg/L	60493	0.25	1	12/3/2009	12/16/2009

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:	109012
Project:	NIPOMO 101 WILLOW ROAD I/C, E8506-06-	Date Received	12/8/2009 4:00:00 PM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109012-110A	B28-.5	6.8	mg/L	60493	0.25	1	12/3/2009	12/16/2009
109012-113A	B29-0	3.9	mg/L	60493	0.25	1	12/3/2009	12/16/2009
109012-114A	B29-.5	3.8	mg/L	60495	0.25	1	12/3/2009	12/16/2009
109012-117A	B30-0	5.0	mg/L	60495	0.25	1	12/3/2009	12/16/2009
109012-118A	B30-.5	5.5	mg/L	60495	0.25	1	12/3/2009	12/16/2009
109012-121A	B31-0	4.1	mg/L	60495	0.25	1	12/3/2009	12/16/2009

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	



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: MB-60493A	SampType: MBLK	TestCode: 7420_ST	Units: mg/L	Prep Date: 12/14/2009	RunNo: 116108						
Client ID: PBS	Batch ID: 60493	TestNo: WET/ EPA 74 WET		Analysis Date: 12/16/2009	SeqNo: 1842765						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.25

Sample ID: LCS-60493	SampType: LCS	TestCode: 7420_ST	Units: mg/L	Prep Date: 12/14/2009	RunNo: 116108						
Client ID: LCSS	Batch ID: 60493	TestNo: WET/ EPA 74 WET		Analysis Date: 12/16/2009	SeqNo: 1842766						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 4.882 0.25 5.000 0 97.6 80 120

Sample ID: 109012-057A-DUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 12/14/2009	RunNo: 116108						
Client ID: B15-0	Batch ID: 60493	TestNo: WET/ EPA 74 WET		Analysis Date: 12/16/2009	SeqNo: 1842777						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 4.583 0.25 4.622 0.849 20

Sample ID: 109012-057A-MS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 12/14/2009	RunNo: 116108						
Client ID: B15-0	Batch ID: 60493	TestNo: WET/ EPA 74 WET		Analysis Date: 12/16/2009	SeqNo: 1842778						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

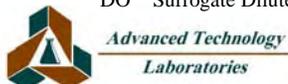
Lead 9.749 0.50 5.000 4.622 103 80 120

Sample ID: MB-60493B	SampType: MBLK	TestCode: 7420_ST	Units: mg/L	Prep Date: 12/14/2009	RunNo: 116108						
Client ID: PBS	Batch ID: 60493	TestNo: WET/ EPA 74 WET		Analysis Date: 12/16/2009	SeqNo: 1842779						
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



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

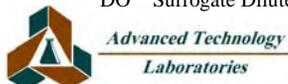
Sample ID: 109012-113A-DUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 12/14/2009	RunNo: 116108						
Client ID: B29-0	Batch ID: 60493	TestNo: WET/ EPA 74 WET		Analysis Date: 12/16/2009	SeqNo: 1842790						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.115	0.25						3.927	4.68	20	

Sample ID: 109012-113A-MS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 12/14/2009	RunNo: 116108						
Client ID: B29-0	Batch ID: 60493	TestNo: WET/ EPA 74 WET		Analysis Date: 12/16/2009	SeqNo: 1842791						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.300	0.50	5.000	3.927	107	80	120				

Sample ID: 109012-113A-MSD	SampType: MSD	TestCode: 7420_ST	Units: mg/L	Prep Date: 12/14/2009	RunNo: 116108						
Client ID: B29-0	Batch ID: 60493	TestNo: WET/ EPA 74 WET		Analysis Date: 12/16/2009	SeqNo: 1842792						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.375	0.50	5.000	3.927	109	80	120	9.300	0.804	20	

Qualifiers:

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



Diane Galvan

From: Livermore Office (Rick Day) [day@geoconinc.com]
Sent: Thursday, December 10, 2009 5:24 PM
To: Diane Galvan; merritt@geoconinc.com
Cc: livermore@geoconinc.com
Subject: RE: Rush Results/EDD - NIPOMO 101 WILLOW ROAD I/C (109012)

Thanks Diane –

Please run samples with total lead > 50 mg/kg for WET lead

109012-013A	B4-0	64
109012-026A	B7-.5	120
109012-033A	B9-0	56
109012-034A	B9-.5	76
109012-037A	B10-0	110
109012-038A	B10-.5	130
109012-041A	B11-0	89
109012-051A	B13-1	82
109012-055A	B14-1	77
109012-057A	B15-0	57
109012-061A	B16-0	74
109012-062A	B16-.5	210
109012-069A	B18-0	78
109012-070A	B18-.5	54
109012-073A	B19-0	67
109012-082A	B21-.5	95
109012-099A	B25-1	210
109012-109A	B28-0	82
109012-110A	B28-.5	73
109012-113A	B29-0	70
109012-114A	B29-.5	65
109012-117A	B30-0	66
109012-118A	B30-.5	84
109012-121A	B31-0	69

Standard 1-week TAT please

Thanks,
Rick.



December 29, 2009



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

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196
Workorder No.: 109012

RE: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

Attention: Chris Merritt

Enclosed are the results for sample(s) received on December 08, 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 "Eddie F. Rodriguez". The signature is fluid and cursive, with a large initial "E" and "R".

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.



*Advanced Technology
Laboratories*

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040
1 of 10

ANALYTICAL RESULTS

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

CLIENT:	Geocon Consultants, Inc.	Lab Order:	109012
Project:	NIPOMO 101 WILLOW ROAD I/C, E8506-06-	Date Received	12/8/2009 4:00:00 PM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109012-026A	B7-.5	ND	mg/L	60689	0.25	1	12/3/2009	12/24/2009
109012-034A	B9-.5	0.31	mg/L	60689	0.25	1	12/3/2009	12/24/2009
109012-037A	B10-0	ND	mg/L	60689	0.25	1	12/3/2009	12/24/2009
109012-038A	B10-.5	ND	mg/L	60689	0.25	1	12/3/2009	12/24/2009
109012-041A	B11-0	ND	mg/L	60689	0.25	1	12/3/2009	12/24/2009
109012-051A	B13-1	0.25	mg/L	60689	0.25	1	12/3/2009	12/24/2009
109012-062A	B16-.5	ND	mg/L	60689	0.25	1	12/3/2009	12/24/2009
109012-082A	B21-.5	ND	mg/L	60689	0.25	1	12/3/2009	12/24/2009
109012-099A	B25-1	1.4	mg/L	60689	0.25	1	12/4/2009	12/24/2009
109012-110A	B28-.5	0.25	mg/L	60689	0.25	1	12/3/2009	12/24/2009
109012-117A	B30-0	ND	mg/L	60689	0.25	1	12/3/2009	12/24/2009
109012-118A	B30-.5	0.40	mg/L	60689	0.25	1	12/3/2009	12/24/2009

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 (TCLP)
EPA 1311/ 7420

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	109012
Project:	NIPOMO 101 WILLOW ROAD I/C, E8506-06-	Date Received	12/8/2009 4:00:00 PM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109012-026A	B7-.5	ND	mg/L	60723	0.25	1	12/3/2009	12/23/2009
109012-037A	B10-0	0.31	mg/L	60723	0.25	1	12/3/2009	12/23/2009
109012-038A	B10-.5	0.36	mg/L	60723	0.25	1	12/3/2009	12/23/2009
109012-062A	B16-.5	0.31	mg/L	60723	0.25	1	12/3/2009	12/23/2009
109012-099A	B25-1	2.2	mg/L	60723	0.25	1	12/4/2009	12/23/2009

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	



ANALYTICAL RESULTS

**pH
EPA 9045C**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	109012
Project:	NIPOMO 101 WILLOW ROAD I/C, E8506-06-	Date Received	12/8/2009 4:00:00 PM
Project No:		Matrix:	Soil
Analyte:	pH	Analyst:	JSD

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
109012-026A	B7-.5	7.6	pH Units	R116472	0.10	1	12/3/2009	12/28/2009
109012-034A	B9-.5	7.1	pH Units	R116472	0.10	1	12/3/2009	12/28/2009
109012-037A	B10-0	7.7	pH Units	R116472	0.10	1	12/3/2009	12/28/2009
109012-038A	B10-.5	7.7	pH Units	R116472	0.10	1	12/3/2009	12/28/2009
109012-041A	B11-0	7.6	pH Units	R116472	0.10	1	12/3/2009	12/28/2009
109012-051A	B13-1	8.0	pH Units	R116472	0.10	1	12/3/2009	12/28/2009
109012-062A	B16-.5	7.5	pH Units	R116472	0.10	1	12/3/2009	12/28/2009
109012-082A	B21-.5	7.8	pH Units	R116472	0.10	1	12/3/2009	12/28/2009
109012-099A	B25-1	7.0	pH Units	R116467	0.10	1	12/4/2009	12/28/2009
109012-109A	B28-0	7.0	pH Units	R116472	0.10	1	12/3/2009	12/28/2009
109012-110A	B28-.5	7.1	pH Units	R116472	0.10	1	12/3/2009	12/28/2009
109012-117A	B30-0	6.6	pH Units	R116467	0.10	1	12/3/2009	12/28/2009
109012-118A	B30-.5	6.5	pH Units	R116467	0.10	1	12/3/2009	12/28/2009

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	



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI_GEOCON

Sample ID: MB-60689A	SampType: MBLK	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 12/22/2009	RunNo: 116420						
Client ID: PBS	Batch ID: 60689	TestNo: WET DI/ EPA WET		Analysis Date: 12/24/2009	SeqNo: 1848163						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.25

Sample ID: LCS-60689	SampType: LCS	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 12/22/2009	RunNo: 116420						
Client ID: LCSS	Batch ID: 60689	TestNo: WET DI/ EPA WET		Analysis Date: 12/24/2009	SeqNo: 1848164						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 4.957 0.25 5.000 0 99.1 80 120

Sample ID: 109012-110A-DUP	SampType: DUP	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 12/22/2009	RunNo: 116420						
Client ID: B28-5	Batch ID: 60689	TestNo: WET DI/ EPA WET		Analysis Date: 12/24/2009	SeqNo: 1848175						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 0.269 0.25 0.2544 5.74 20

Sample ID: 109012-110A-MS	SampType: MS	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 12/22/2009	RunNo: 116420						
Client ID: B28-5	Batch ID: 60689	TestNo: WET DI/ EPA WET		Analysis Date: 12/24/2009	SeqNo: 1848176						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

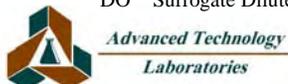
Lead 5.622 0.25 5.000 0.2544 107 70 130

Sample ID: MB-60689B	SampType: MBLK	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 12/22/2009	RunNo: 116420						
Client ID: PBS	Batch ID: 60689	TestNo: WET DI/ EPA WET		Analysis Date: 12/24/2009	SeqNo: 1848177						
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



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI_GEOCON

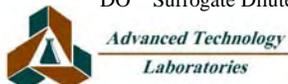
Sample ID: 109012-118A-DUP	SampType: DUP	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 12/22/2009	RunNo: 116420						
Client ID: B30-.5	Batch ID: 60689	TestNo: WET DI/ EPA WET		Analysis Date: 12/24/2009	SeqNo: 1848180						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.345	0.25						0.3964	13.9	20	

Sample ID: 109012-118A-MS	SampType: MS	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 12/22/2009	RunNo: 116420						
Client ID: B30-.5	Batch ID: 60689	TestNo: WET DI/ EPA WET		Analysis Date: 12/24/2009	SeqNo: 1848181						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.673	0.25	5.000	0.3964	106	70	130				

Sample ID: 109012-118A-MSD	SampType: MSD	TestCode: 7420_DI_GE	Units: mg/L	Prep Date: 12/22/2009	RunNo: 116420						
Client ID: B30-.5	Batch ID: 60689	TestNo: WET DI/ EPA WET		Analysis Date: 12/24/2009	SeqNo: 1848182						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.727	0.25	5.000	0.3964	107	70	130	5.673	0.953	20	

Qualifiers:

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



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: MB-60723A	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 12/23/2009	RunNo: 116375						
Client ID: PBS	Batch ID: 60723	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 12/23/2009	SeqNo: 1847416						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.25

Sample ID: MB-60688A TCLP	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 12/23/2009	RunNo: 116375						
Client ID: PBS	Batch ID: 60723	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 12/23/2009	SeqNo: 1847417						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.25

Sample ID: LCS-60723	SampType: LCS	TestCode: 7420_TC	Units: mg/L	Prep Date: 12/23/2009	RunNo: 116375						
Client ID: LCSS	Batch ID: 60723	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 12/23/2009	SeqNo: 1847418						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 1.017 0.25 1.000 0 102 80 120

Sample ID: 109012-099A-DUP	SampType: DUP	TestCode: 7420_TC	Units: mg/L	Prep Date: 12/23/2009	RunNo: 116375						
Client ID: B25-1	Batch ID: 60723	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 12/23/2009	SeqNo: 1847424						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

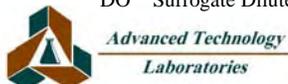
Lead 2.242 0.25 2.168 3.33 20

Sample ID: 109012-099A-MS	SampType: MS	TestCode: 7420_TC	Units: mg/L	Prep Date: 12/23/2009	RunNo: 116375						
Client ID: B25-1	Batch ID: 60723	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 12/23/2009	SeqNo: 1847425						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 4.337 0.25 2.500 2.168 86.8 70 130

Qualifiers:

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



CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: 109012-099A-MSD	SampType: MSD	TestCode: 7420_TC	Units: mg/L	Prep Date: 12/23/2009	RunNo: 116375						
Client ID: B25-1	Batch ID: 60723	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 12/23/2009	SeqNo: 1847426						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.402	0.25	2.500	2.168	89.3	70	130	4.337	1.48	20	

Qualifiers:

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



*Advanced Technology
Laboratories*

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

CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: 109287-001ADUP	SampType: DUP	TestCode: 9045_S	Units: pH Units	Prep Date:	RunNo: 116467						
Client ID: ZZZZZZ	Batch ID: R116467	TestNo: EPA 9045C		Analysis Date: 12/28/2009	SeqNo: 1849150						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	6.120	0.10						6.390	4.32	20	

Qualifiers:

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



*Advanced Technology
Laboratories*

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

CLIENT: Geocon Consultants, Inc.
Work Order: 109012
Project: NIPOMO 101 WILLOW ROAD I/C, E8506-06-

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: 109012-026ADUP	SampType: DUP	TestCode: 9045_S	Units: pH Units	Prep Date:	RunNo: 116472						
Client ID: B7-.5	Batch ID: R116472	TestNo: EPA 9045C		Analysis Date: 12/28/2009	SeqNo: 1849266						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.510	0.10						7.620	1.45	20	

Qualifiers:

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



Diane Galvan

From: Livermore Office (Rick Day) [day@geoconinc.com]

Sent: Monday, December 21, 2009 3:03 PM

To: Diane Galvan

Subject: FW: Rush Results/EDD - NIPOMO 101 WILLOW ROAD I/C (109012)

Please run the following for pH:

B7-.5

B9-.5

B10-0

B10-.5

B11-0

B13-1

B16-.5

B21-.5

B25-1

B28-0

B28-.5

B30-0

B30-.5

Standard TAT

Thanks,
Rick.



Diane Galvan

From: Livermore Office (Rick Day) [day@geoconinc.com]

Sent: Monday, December 21, 2009 3:46 PM

To: Diane Galvan

Subject: NIPOMO 101 WILLOW ROAD I/C (109012)

Hi Diane –

Please run the following for DI-WET Lead:

B9-.5

B11-0

B13-1

B21-.5

B28-.5

B30-0

B30-.5

Please run the following for DI-WET Lead and TCLP Lead:

B7-.5

B10-0

B10-.5

B16-.5

B25-1

Standard TAT please.

Thanks,
Rick.





EMSL Analytical, Inc

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

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

Attn: **Chris Merritt**
Geocon Consultants
6671 Brisa Street
Livermore, CA 94550

Customer ID: GECN21
Customer PO: E8506-06-01
Received: 12/08/09 9:00 AM
EMSL Order: 090909827

Fax: (925) 371-5915 Phone: (925) 371-5900
Project: **E8506-06-01, Nipomo**

EMSL Proj:
Analysis Date: 12/16/2009

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B1-2 090909827-0001		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
B5-2 090909827-0002		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
B9-2 090909827-0003		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
B13-2 090909827-0004		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
B15-2 090909827-0005		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
B19-2 090909827-0006		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
B27-2 090909827-0007		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
Composite B28- B31 090909827-0008		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
Composite B32- B35 090909827-0009		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected

Analyst(s)
Adam C. Fink (12)


Baojia Ke, Laboratory Manager
or other approved signatory

This report relates only to the samples listed above and may not be reproduced except in full, without EMSL's written approval. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for sample collection activities or method limitations. Some samples may contain asbestos fibers below the resolution limit of PLM. EMSL recommends that samples reported as none detected or less than the limit of detection undergo additional analysis via TEM. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc San Leandro 2235 Polvorosa Ave , Suite 230, San Leandro CA



EMSL Analytical, Inc

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

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

Attn: **Chris Merritt**
Geocon Consultants
6671 Brisa Street
Livermore, CA 94550

Customer ID: GECN21
Customer PO: E8506-06-01
Received: 12/08/09 9:00 AM
EMSL Order: 090909827

Fax: (925) 371-5915 Phone: (925) 371-5900
Project: **E8506-06-01, Nipomo**

EMSL Proj:
Analysis Date: 12/16/2009

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
Composite B36-B39 090909827-0010		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
Composite B40-B43 090909827-0011		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
Composite B44-B47 090909827-0012		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected

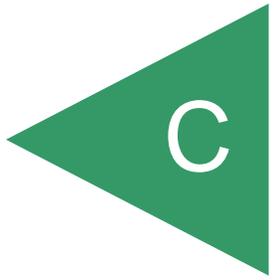
Analyst(s) _____
Adam C. Fink (12)



Baojia Ke, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc San Leandro 2235 Polvorosa Ave , Suite 230, San Leandro CA

APPENDIX

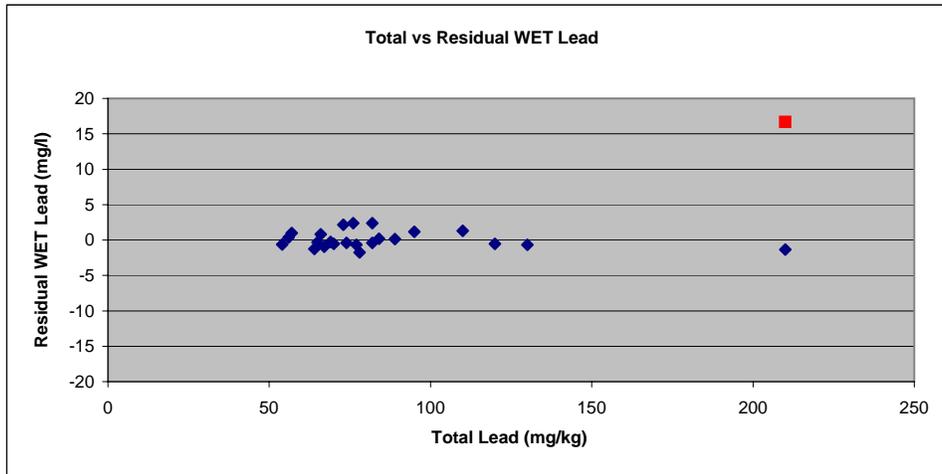
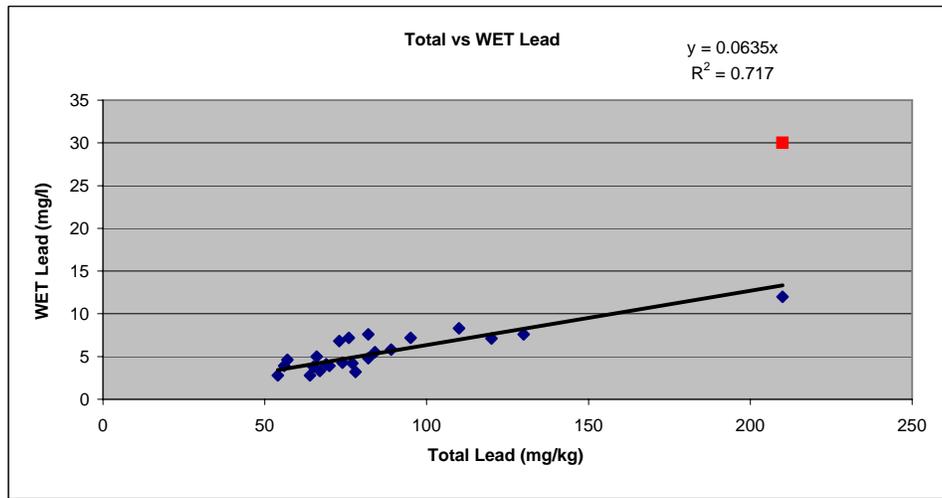


Appendix C - Lead Regression

Sample ID	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	Residual WET Lead (mg/l)	Squared Residual WET Lead (mg/l)
B15-0	0	57	4.6	0.98	0.96
B30-0	0	66	5.0	0.81	0.65
B21-.5	0.5	95	7.2	1.16	1.35
B10-0	0	110	8.3	1.31	1.72
B9-0	0	56	3.9	0.34	0.12
B28-.5	0.5	73	6.8	2.16	4.67
B30-.5	0.5	84	5.5	0.16	0.03
B13-1	1	82	7.6	2.39	5.71
B11-0	0	89	5.8	0.14	0.02
B9-.5	0.5	76	7.2	2.37	5.62
B29-.5	0.5	65	3.8	-0.33	0.11
B31-0	0	69	4.1	-0.28	0.08
B18-.5	0.5	54	2.8	-0.63	0.40
B16-0	0	74	4.3	-0.40	0.16
B29-0	0	70	3.9	-0.55	0.30
B28-0	0	82	4.8	-0.41	0.17
B14-1	1	77	4.2	-0.69	0.48
B19-0	0	67	3.3	-0.96	0.92
B4-0	0	64	2.8	-1.27	1.60
B7-.5	0.5	120	7.1	-0.52	0.28
B10-.5	0.5	130	7.6	-0.66	0.44
B18-0	0	78	3.2	-1.76	3.08
B16-.5	0.5	210	12	-1.34	1.80

Not Used

B25-1 1 210 30 16.66 277.44



Appendix C - Lead Statistics Summary

	AgEast-0	AgEast-0.5	AgEast-1	
Count	4	4	4	
Minimum	2.5	2.5	2.5	
Mean	23.6	8.7	8.0	
Maximum	51	19	17	
90% UCL	NC	NC	NC	
95% UCL	NC	NC	NC	
Predicted WET	3.2385	1.2065	1.0795	

	AgWest-0	AgWest-0.5	AgWest-1	
Count	12	12	12	
Minimum	2.5	2.5	2.5	
Mean	3.4	2.8	2.9	
Maximum	10	5.9	7.6	
90% UCL	NC	NC	NC	
95% UCL	NC	NC	NC	
Predicted WET	0.635	0.37465	0.4826	

	Median-0	Median-0.5	Median-1	Median-2
Count	4	4	4	4
Minimum	66	6.0	2.5	2.5
Mean	71.8	57.0	8.6	2.5
Maximum	82	84	27	2.5
90% UCL	NC	NC	NC	NC
95% UCL	NC	NC	NC	NC
Predicted WET	5.207	5.334	1.7145	0.15875

	NB-0	NB-0.5	NB-1	NB-2
Count	13	13	13	13
Minimum	2.5	2.5	2.5	2.5
Mean	33.3	46.5	26.6	3.0
Maximum	78	210	210	6.2
90% UCL	42.82	65.92	45.84	NC
95% UCL	45.46	69.57	51.22	NC
Predicted WET	2.71907	4.18592	2.91084	0.3937

	SB-0	SB-0.5	SB-1	SB-2
Count	14	14	14	14
Minimum	2.5	2.5	2.5	2.5
Mean	37.2	40.9	22.2	4.2
Maximum	110	130	82	12
90% UCL	47.82	54.19	31.36	5.202
95% UCL	50.83	57.92	33.61	5.488
Predicted WET	3.03657	3.441065	1.99136	0.330327

Appendix C - Lead UCLs

Number of Bootstrap Operations 2,000

SB-0

NB-0

Number of Valid Observations 13
 Number of Distinct Observations 11
 Minimum 2.5
 Maximum 78
 Mean 33.32
 90% Standard Bootstrap UCL 42.82
 95% Standard Bootstrap UCL 45.46

Number of Valid Observations 14
 Number of Distinct Observations 13
 Minimum 2.5
 Maximum 110
 Mean 37.19
 90% Standard Bootstrap UCL 47.82
 95% Standard Bootstrap UCL 50.83

SB-0.5

NB-0.5

Number of Valid Observations 13
 Number of Distinct Observations 13
 Minimum 2.5
 Maximum 210
 Mean 46.45
 90% Standard Bootstrap UCL 65.92
 95% Standard Bootstrap UCL 69.57

Number of Valid Observations 14
 Number of Distinct Observations 14
 Minimum 2.5
 Maximum 130
 Mean 40.93
 90% Standard Bootstrap UCL 54.19
 95% Standard Bootstrap UCL 57.92

SB-1

NB-1

Number of Valid Observations 13
 Number of Distinct Observations 7
 Minimum 2.5
 Maximum 210
 Mean 26.58
 90% Standard Bootstrap UCL 45.84
 95% Standard Bootstrap UCL 51.22

Number of Valid Observations 14
 Number of Distinct Observations 9
 Minimum 2.5
 Maximum 82
 Mean 22.17
 90% Standard Bootstrap UCL 31.36
 95% Standard Bootstrap UCL 33.62

SB-2

NB-2

Number of Valid Observations 13
 Number of Distinct Observations 3
 Minimum 2.5
 Maximum 6.2
 Mean 3.008

Number of Valid Observations 14
 Number of Distinct Observations 5
 Minimum 2.5
 Maximum 12
 Mean 4.207
 90% Standard Bootstrap UCL 5.202
 95% Standard Bootstrap UCL 5.488