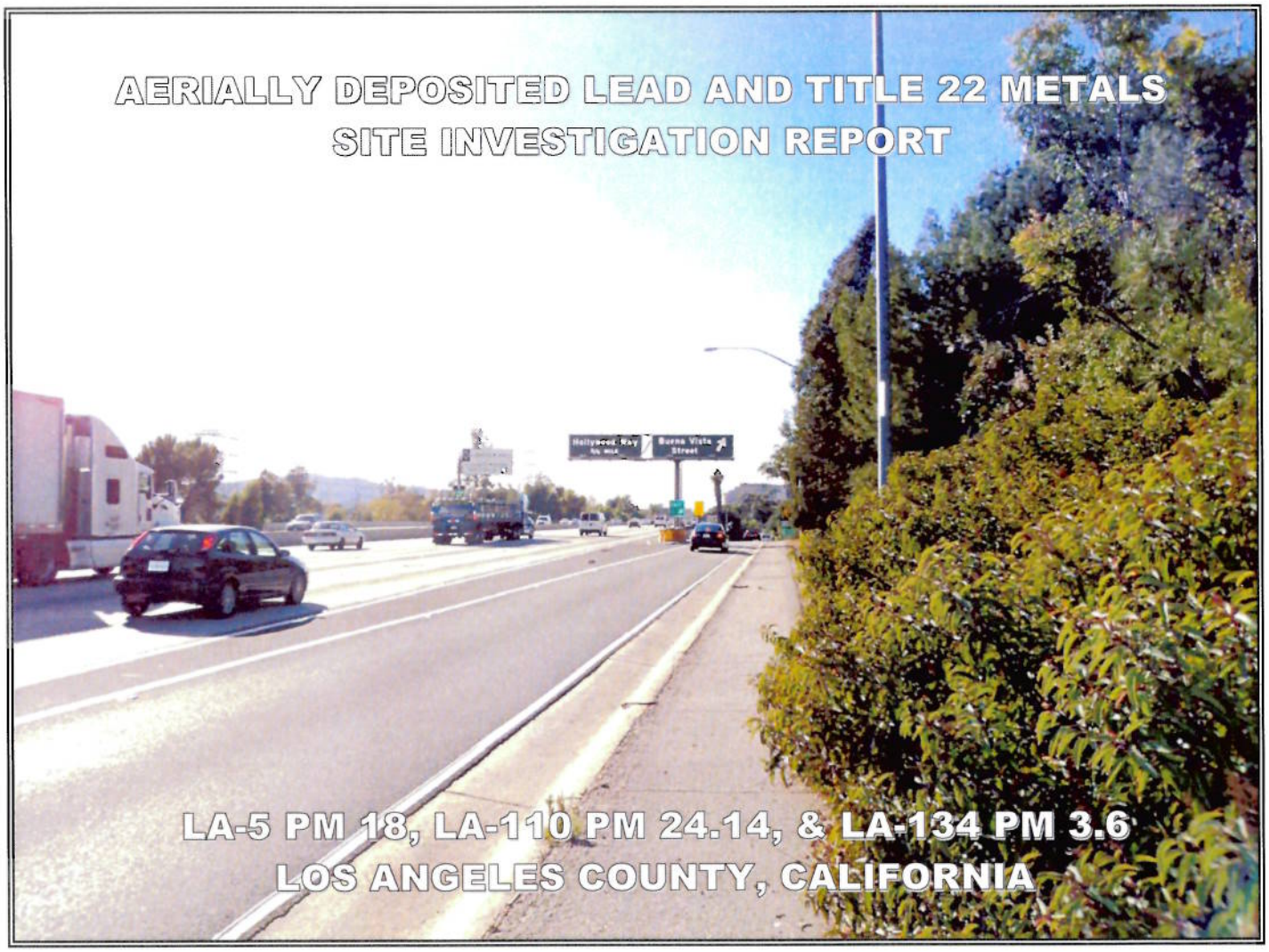
FOR CONTRACT NO.: 07-4Y4604

INFORMATION HANDOUT

MATERIALS INFORMATION

AERIALLY DEPOSITED LEAD AND TITEL 22 METALS
SITE INVESTIGATION REPORT

ROUTE: 5, 10, 110, 118, & 134-LA-VARIOUS



AERIALLY DEPOSITED LEAD AND TITLE 22 METALS SITE INVESTIGATION REPORT

LA-5 PM 18, LA-110 PM 24.14, & LA-134 PM 3.6
LOS ANGELES COUNTY, CALIFORNIA

PREPARED FOR:
CALIFORNIA DEPARTMENT OF TRANSPORTATION
DISTRICT 7
100 SOUTH MAIN STREET, 12.274
LOS ANGELES, CALIFORNIA

Caltrans

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CONSULTANTS, INC.

CALTRANS CONTRACT 07A2729
TASK ORDER NO. 12
EA NO. 4Y4601
PROJECT NO. 0700020218

GEOCON PROJECT NO. S9475-06-12

December 30, 2011

GEOCON
CONSULTANTS, INC.
GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS

Project No. S9475-06-12
December 30, 2011

VIA OVERNIGHT COURIER

Ms. Martha Ayoub
California Department of Transportation, District 7
Office of Environmental Engineering & Corridor Studies
100 South Main Street, Suite 12-270
Los Angeles, California 90012

Subject: AERIALLY DEPOSITED LEAD AND TITLE 22 METALS
SITE INVESTIGATION REPORT
LA-5 PM 18, LA-110 PM 24.14, AND LA-134 PM 3.6
LOS ANGELES COUNTY, CALIFORNIA
CONTRACT NO. 07A2729, TASK ORDER NO. 12, EA. 4Y4601 (0700020218)

Dear Ms. Ayoub:

In accordance with Caltrans Contract No. 07A2729 and Task Order No. 12 dated September 28, 2011, Geocon Consultants, Inc. has conducted an aerially deposited lead and heavy metals soil investigation on the right shoulders of southbound Los Angeles Route 5 at Post Mile (PM) 18.0, northbound Los Angeles Route 110 at PM 24.14, and westbound Los Angeles Route 134 at PM 3.6 in Los Angeles County, California. The accompanying report summarizes the services performed, including soil sampling, global positioning system data acquisition, laboratory analyses, and data evaluation.

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

Please call us if you have questions.

Sincerely,

GEOCON CONSULTANTS, INC.

PROFESSIONAL GEOLOGIST
MICHAEL P. CONKLE
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TABLE OF CONTENTS

AERIALLY DEPOSITED LEAD AND TITLE 22 METALS SITE INVESTIGATION REPORT

Page

EXECUTIVE SUMMARY i

1. INTRODUCTION 1
   1.1 Project Description 1
   1.2 Investigation Objective 1

2. BACKGROUND 1
   2.1 Aerially Deposited Lead in Soil 1
   2.2 Hazardous Waste Classification Criteria 1
   2.3 DTSC Variance 2
   2.4 California Human Health Screening Levels 4

3. SCOPE OF SERVICES 4
   3.1 Pre-field Activities 4
   3.2 Field Activities 5
   3.3 GPS Coordinates 5
   3.4 Laboratory Analyses 5
   3.5 Report Preparation 6

4. INVESTIGATIVE METHODS 6
   4.1 Soil Sampling 6
   4.2 Equipment Blank Sampling 7
   4.3 Deviations from Task Order 7

5. FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS 7
   5.1 Site Conditions 7
   5.2 Analytical Results 7
   5.3 Data Validation 8

6. FINDINGS AND CONCLUSIONS 9
   6.1 Lead Results 9
   6.2 Title 22 Metals 11
   6.3 pH 12
   6.4 Worker Protection 12

7. REPORT LIMITATIONS 13

TABLE OF CONTENTS (Continued)

Figures:
1-A Vicinity Map – SB LA-5 and NB LA-110 Locations
1-B Vicinity Map – WB LA-134 Location

2-A Site Plan - Soil Boring 1150-101
2-B Site Plan - Soil Boring 1150-102
2-C Site Plan - Soil Boring 1150-103

Tables:
1 Boring Coordinates and Summary of Lead and pH Analytical Results
2 Summary of Title 22 Metals Analytical Results

Appendices:
A. Boring Logs
B. Laboratory Report and Chain-of-custody Documentation

EXECUTIVE SUMMARY

Geocon Consultants, Inc. performed an aerially deposited lead (ADL) and Title 22 metals soil investigation on the right shoulder of southbound Los Angeles Route 5 (LA-5) at Post Mile (PM) 18.0, northbound Los Angeles Route 110 (LA-110) at PM 24.14, and westbound Los Angeles Route 134 (LA-134) at PM 3.6 in Los Angeles County, California. The objective of the investigation was to evaluate soil for the potential presence of ADL and other metals. The California Department of Transportation (Caltrans) will use information from the investigation to determine soil disposal options and identify health and safety concerns during construction activities.

Lead Results

Location 1 – Southbound LA-5, PM 18.0 (Boring No. 1150-101)

Based on the reported concentrations of total lead and Waste Extraction Testing using citric acid as the extraction fluid (WET) soluble lead, the soil to a depth of 4.5 feet, if excavated for disposal, would be classified as California hazardous waste (as Caltrans Type Z-2) since the reported WET concentrations exceed the Soluble Threshold Limit Concentration (STLC) of 5.0 mg/l. Based on the reported concentration of soluble lead using the Toxicity Characteristic Leaching Procedure (TCLP), the soil would not be classified as a Resource Conservation and Recovery Act (RCRA) hazardous waste because the TCLP results are less than the threshold of 5.0 mg/l. Underlying soil from a depth of 4.5 to 5.0 feet could be reused or disposed as non-hazardous with respect to lead content (Caltrans Type X).

Based on the weighted average total and WET lead concentrations and the reported DI-WET and pH results, the soil from the surface to a depth of 5.0 feet, if excavated as a whole, may be reused onsite (as Caltrans Type Y-1) by placing the lead-impacted soil under at least one foot of clean soil or a pavement structure maintained by Caltrans.

Location 2 – Northbound LA-110, PM 24.14 (Boring No. 1150-102)

Based on the reported concentrations of total lead and WET soluble lead, the soil to a depth of 5.0 feet, if excavated for disposal, would be classified as California hazardous waste (as Caltrans Type Z-2) since the reported WET concentrations exceed the STLC of 5.0 mg/l. The top 5.0 feet of soil is not considered a RCRA hazardous waste based on the TCLP lead results.

Based on the weighted average total and WET lead concentrations and the reported DI-WET and pH results, the soil from the surface to a depth of 5.0 feet, if excavated as a whole, may be reused onsite (as Caltrans Type Y-2) by placing the lead-impacted soil under at a pavement structure maintained by Caltrans.

Location 3 – Westbound LA-134, PM 3.6 (Boring No. 1150-103)

Based on the reported concentrations of total lead and WET soluble lead, soil to a depth of 2.5 feet, if excavated for disposal, would be classified as California hazardous waste (as Caltrans Type Z-2) since the reported WET concentrations exceed the STLC of 5.0 mg/l. The top 2.5 feet of soil is not considered a RCRA hazardous waste based on the TCLP lead results. Underlying soil from a depth of 2.5 to 5.0 feet could be reused or disposed as non-hazardous with respect to lead content (Caltrans Type X).

Based on the weighted average total and WET lead concentrations and the reported DI-WET and pH results, the soil from the surface to a depth of 5.0 feet, if excavated as a whole, may be reused onsite (as Caltrans Type Y-1) by placing the lead-impacted soil under at least one foot of clean soil or a pavement structure maintained by Caltrans.

Title 22 Metals

Title 22 metals (other than lead) were not reported at or above their respective Total Threshold Limit Concentration or ten times their respective STLCs. The reported concentrations of metals, other than lead and arsenic were below their respective California Human Health Screening Levels for residential and industrial land use. The reported arsenic concentrations are consistent with published background levels in Los Angeles County, with the exception of the surface sample collected from the location on northbound LA-110 at PM 24.14.

pH Results

Soil pH was reported to range from 7.1 to 8.3.

Worker Protection

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

AERIALLY DEPOSITED LEAD AND TITLE 22 METALS SITE INVESTIGATION REPORT

1. INTRODUCTION

Geocon Consultants, Inc. performed an aerially deposited lead (ADL) and Title 22 metals soil investigation on the right shoulder of southbound Los Angeles Route 5 (LA-5) at Post Mile (PM) 18.0, northbound Los Angeles Route 110 (LA-110) at PM 24.14, and westbound Los Angeles Route 134 (LA-134) at PM 3.6 in Los Angeles County, California. The objective of the investigation was to evaluate soil for the potential presence of ADL and other metals. The investigation was conducted under California Department of Transportation (Caltrans) Contract No. 07A2729, Task Order (TO) No. 12, and Expense Authorization 4Y4601 dated September 28, 2011.

1.1 Project Description

Caltrans proposes to replace or reconstruct various overhead/cantilever signs traffic structures, foundation structures and sign panels at the various locations. The project includes excavation on three unpaved locations for CIDH pile foundation that will be needed to install the overhead/cantilever posts. The proposed improvements will involve soil excavation and other earthwork activities.

1.2 Investigation Objective

The objective of the investigation was to evaluate concentrations of metals, including ADL, in soils that will potentially be disturbed during excavation for the overhead/cantilever signs traffic structures, foundation structures and sign panels. Caltrans will use information obtained from the investigation to determine soil management options (e.g., disposal or onsite reuse) and identify health and safety concerns during proposed construction activities.

2. BACKGROUND

2.1 Aerially Deposited Lead in Soil

Testing by Caltrans throughout the State has shown that ADL exists in soil along major highway routes due to vehicle exhaust containing lead from the combustion of leaded gasoline. The concentration and distribution of ADL in soil is a function of many variables, but in general, highway age and traffic volume appear to be primary factors.

2.2 Hazardous Waste Classification Criteria

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

For waste containing metals, the waste is classified as "California hazardous" when: (1) the total metal content exceeds the respective Total Threshold Limit Concentration (TTLC); or (2) the soluble metal content exceeds the respective Soluble Threshold Limit Concentration (STLC) based on the standard Waste Extraction Test (WET). A waste may have the potential of exceeding the STLC when the waste's total metal content is greater than or equal to ten times the respective STLC value, since the WET uses a 1:10 dilution ratio. Hence, when a total metal is detected at a concentration greater than or equal to ten times the respective STLC, and assuming that 100 percent of the total metals are soluble, soluble metal analysis is typically performed. A material is classified as "RCRA hazardous" when the soluble metal content exceeds the Federal Regulatory Level based on the Toxicity Characteristic Leaching Procedure (TCLP). The TTLC value for lead is 1,000 milligrams per kilogram (mg/kg). The STLC and TCLP values for lead are both 5.0 milligrams per liter (mg/l).

The above regulatory criteria are based on toxicity. Wastes may also be classified as hazardous based on other criteria such as ignitability, corrosivity, and reactivity. For the purposes of ADL investigations, toxicity and corrosivity (e.g., chemical concentrations and soil pH values, respectively) are the primary factors considered for waste classification. Waste that is classified as either "California hazardous" or "RCRA hazardous" requires management as a hazardous waste and disposal at an appropriately permitted disposal facility.

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

2.3 DTSC Variance

Effective July 1, 2009, the DTSC issued a statewide Variance regarding the reuse of ADL-impacted soils within Caltrans right-of-way. According to the Variance, soil classified as a non-RCRA hazardous waste (based primarily on ADL content) may be suitable for reuse within Caltrans right-of-way. ADL-impacted soil 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-impacted 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-impacted 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-impacted 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 Z-2). Soil management categories are summarized below:

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

- **Caltrans Type Y-2:** ADL-impacted 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-impacted 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-impacted 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 Z-2:** ADL-impacted soil exhibiting a total lead concentration greater than 3,397 mg/kg, or 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. Surplus Type Y1 and Type Y2 soil which requires offsite disposal is also classified as Type Z-2.

- **Caltrans Type Z-3:** ADL-impacted 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.

2.4 California Human Health Screening Levels

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

The CHHSLs are concentrations of 44 hazardous chemicals that Cal/EPA considers to be below thresholds of concern for risks to human health. The CHHSLs were developed by the Office of Environmental Health Hazard Assessment (OEHHA) on behalf of Cal/EPA. The thresholds of concern used to develop the CHHSLs are an excess lifetime cancer risk of one in a million and a hazard quotient or 1.0 for non-cancer effects. Under most circumstances, the presence of a chemical at concentrations below its respective CHHSL can be assumed to not pose a significant risk. The presence of a chemical at concentrations above a CHHSL does not indicate that adverse impacts to human health are occurring or will occur, but suggests that further evaluation is warranted (Cal/EPA, January 2005).

The following CHHSLs were used for comparison: Table 1 of the *California Human Health Screening Levels for Soil and Comparison to Other Potential Environmental Concerns* (Cal/EPA, January 2005) and Table 3 of the *Comparison of 2005 CHHSLs to Revised CHHSLs* (Cal/EPA, September 2009). The respective CHHSLs are listed at the end of Table 2 for comparative purposes.

3. SCOPE OF SERVICES

We performed the scope of services summarized below as requested by Caltrans.

3.1 Pre-field Activities

- Prepared a *Health and Safety Plan* (HSP) dated October 2011, to provide guidelines on the use of personal protective equipment and the health and safety procedures to be implemented by Geocon personnel during field activities. The HSP specified the safety procedures for field work, summarized chemical hazard information, and identified site safety officers, emergency contacts, and the locations of emergency medical care facilities.

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

- Retained the Services of Tri-County Drilling, Incorporated, a Caltrans-approved drilling subcontractor located in San Diego, California, to advance hollow-stem auger borings.

- Provided a minimum of 48-hour notice to the local public utilities via Underground Service Alert prior to job site mobilization. The Ticket Numbers for the notification is A12910134, A12910202, A12910159, and A12910215.

3.2 Field Activities

The soil investigation performed on October 23 and October 27, 201, consisted of collecting four soil samples from one hand-auger boring advanced at each of the following locations.

- Location 1 – Southbound LA-5, PM 18.0 (Boring 1150-101)
- Location 2 – Northbound LA-110, PM 24.14 (Boring 1150-102)
- Location 3 – Westbound LA-134, PM 3.6 (Boring 1150-103)

Soil samples were collected from each boring at depth intervals of 0 to 0.5 foot, 0.5 to 1.0 foot, 2.5 to 3.0 feet, and 4.5 to 5.0 feet. The approximate boring locations are shown on the Site Plans, Figures 2-A through 2-C.

Additionally, a hollow-stem auger drilling rig was used on October 23, 2011 to advance two borings at Locations 1 and 2 to evaluate the potential presence of groundwater. Both borings were advanced to a total depth of twenty-three feet below ground surface. Per the TO, if groundwater was encountered samples were to be collected and analyzed for use in obtaining a construction dewatering permit. No groundwater was encountered at either location; as a result no groundwater samples were collected. The borings logs for the two locations are attached in Appendix A.

3.3 GPS Coordinates

The boring was located utilizing a Global Positioning System (GPS) receiver. Data was recorded in the field and downloaded in the office using surveying TerraSync™ or similar software, in State Plane 83 coordinates. Boring latitude and longitudes coordinates in decimal degrees are provided in Table 1.

3.4 Laboratory Analyses

Laboratory analyses were performed by ATL. Copies of the laboratory report and chain-of-custody (COC) documentation are included in Appendix B. Based on the Caltrans TO, the soil samples were analyzed for the following:

- All twelve soil samples were analyzed for California Code of Regulations (CCR) Title 22 metals following EPA Test Method 6010B (metals) and EPA 7471 (mercury).
- All twelve soil samples were analyzed for WET lead using EPA Test Method 7420 with citrate acid as the extractant.
- All twelve soil samples were analyzed for soluble lead using the WET with de-ionized water as the extractant (DI-WET).
- Six samples were analyzed for TCLP lead using EPA Test Method 1311/7420.
- Three samples were analyzed for pH using EPA Test Method 9045C.

- One equipment blank (EB) water sample was analyzed for total lead using EPA Test Method 6010B.

3.5 Report Preparation

This report was prepared to summarize the objectives, procedures, and results of the investigation activities requested by Caltrans.

4. INVESTIGATIVE METHODS

4.1 Soil Sampling

Soil samples were collected from a boring advanced using hand-auger sampling equipment. Surface vegetation (e.g., native grasses/shrubs and landscaping plants) at the boring location were removed prior to boring/sampling activities. Soil collected was placed into new re-sealable plastic bags and homogenized in the field within the sample bag. Homogenized soil within the bag was then transferred into new 4-ounce laboratory-provided glass soil jars, capped, labeled with the sample date/time and a unique soil sample number, placed in a chilled ice chest, and delivered to the analytical laboratory the same day the sample was collected.

Caltrans assigned a unique ID number to this project (1150). This ID number was included in the database, figures, and in the boring soil sample names. Soil sample identification numbers were assigned (1150-101) based on the TO boring and sample naming convention. Soil sample numbers were designated by the boring number and the bottom of the 6-inch depth interval from which the sample was collected (0.5, 1.0, or 3.0). For example, the soil sample designated 1150-101-1.0 was obtained from approximately 0.5 to 1.0 foot.

Quality Assurance/Quality Control (QA/QC) procedures conducted during field activities included sampling equipment decontamination prior to the hand-auger boring, and use of new re-sealable plastic sample bags, laboratory supplied sample containers, and sample chain-of-custody documentation. Soil sampling equipment was cleaned between each sampling interval by washing the equipment with an Alconox™ solution followed by a double rinse with de-ionized water. Sampling activities were conducted under supervision of Geocon's field manager.

The boring was backfilled with surface soil from the immediate vicinity of the boring location. Decontamination water was discharged to the ground surface away from areas potentially associated with surface water bodies or storm drain inlets.

4.2 Equipment Blank Sampling

One equipment blank sample was collected to verify proper cleaning of the sampling equipment. The equipment blank sample was obtained by passing distilled water over the decontaminated sampling equipment and into unpreserved laboratory-provided container.

4.3 Deviations from Task Order

The Caltrans TO dated September 28, 2011, served as the workplan for this investigation. Geocon performed the scope of work as described in the TO with the following exceptions:

- Groundwater was not encountered in the hollow-stem auger borings advanced at Locations 1 and 2, therefore groundwater samples were not collected.
- Based on the highway elevation in relation to surrounding grade and the reported depth to groundwater in the vicinity, Caltrans canceled the requirement to perform a hollow-stem auger boring to evaluate the depth to groundwater at Location 3
- The TO originally included an evaluation of a forth location on Victory Boulevard west of LA-405. However, after the TO was issued Caltrans determined that this location was not within an existing Caltrans easement, and canceled the planned assessment.

Geocon performed scope of work described in the TO without exceptions that would materially affect investigation results.

5. FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS

5.1 Site Conditions

The soil conditions encountered at the site generally ranged from dark gray to very dark grayish brown clayey silt to slightly moist yellowish–brown clay. Surface and groundwater were not encountered at the boring locations.

5.2 Analytical Results

Soil analytical results are summarized in Tables 1 and 2. Results were J-Flagged "J" between the Practical Quantitation Limit (PQL) and the calculated Method Detection Limit (MDL). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL. Copies of the laboratory report and chain-of-custody documentation are presented as Appendix B. Analytical results are summarized below:

- **Total lead** was reported for the twelve soil samples at concentrations ranging from 18 to 7,900 mg/kg.

- **WET lead** was reported for the twelve soil samples analyzed at concentrations ranging from 1.7 to 350 mg/l. WET lead concentrations that equal or exceed the STLC value of 5.0 mg/l was reported for nine samples.

- **DI-WET lead** was reported for five samples analyzed at concentrations ranging from 0.11 J to 0.31 J mg/l. DI-WET lead was not reported above the MDL of 0.0.062 mg/l for the other seven samples analyzed.

- **TCLP lead** was reported for the six samples analyzed at concentrations ranging from 0.27 J to 2.1 mg/l.

- **Soil pH** values in the three samples tested ranged from 7.1 to 8.3.

- **Title 22 metals**, beryllium, selenium, silver, and thallium were not detected in the twelve samples analyzed at concentrations above their respective MDL's. With the exception of lead, concentrations of the other Title 22 metals were less than ten times their respective STLCs.

- The equipment blank did not contain lead concentration above the MDL of 0.00080 mg/l. The equipment blank result is not tabulated.

5.3 Data Validation

Geocon and ATL use QA/QC measures to minimize and control errors associated with field and laboratory methods. Field QA/QC measures consist of cleaning sampling equipment between each use with a detergent solution followed by tap and distilled/purified water rinses. Based on the equipment blank sample analytical result, it appears that the field investigation was free from potential cross-contamination resulting from inadequate equipment decontamination.

Laboratory QA/QC measures include the use of matrix spikes, duplicates, and method blanks, in addition to calculation of percent recovery and relative percentage difference (RPD). A review of the laboratory QA/QC results indicates satisfactory data reporting, and the data are of sufficient quality for the purposes of this report.

6. FINDINGS AND CONCLUSIONS

6.1 Lead Results

Location 1 – Southbound LA-5, PM 18.0 (Boring No. 1150-101)

Based on the reported concentrations of total lead and WET soluble lead, the soil to a depth of 4.5 feet, if excavated for disposal, would be classified as California hazardous waste (as Caltrans Type Z-2) since the reported WET concentrations exceed the STLC of 5.0 mg/l. The top 4.5 feet of soil is not considered a RCRA hazardous waste based on the TCLP lead results. Underlying soil from a depth of 4.5 to 5.0 feet could be reused or disposed as non-hazardous with respect to lead content (Caltrans Type X).

The total and WET lead weighted averages for Location 1 are summarized in table below. 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).

Combined Layer (s)	Total Lead (mg/kg)	WET Lead (mg/l)	Soil Type	
	Weighted Averages	Weighted Averages	On Site Reuse Classification	Off Site Disposal Classification
0 to 0.5 foot	1,600	120	Type Y-2	CA Hazardous (Type Z-2)
0.5 to 5.0 feet	*234*	*15*	*Type Y-1*	*CA Hazardous (Type Z-2)*
0 to 1.0 feet	1,025	73	Type Y-1	CA Hazardous (Type Z-2)
1.0 to 5.0 feet	*207*	*13*	*Type Y-1*	*CA Hazardous (Type Z-2)*
0 to 2.5 feet	680	44	Type Y-1	CA Hazardous (Type Z-2)
2.5 to 5.0 feet	*60*	*6.2*	*Type Y-1*	*CA Hazardous (Type Z-2)*
0 to 4.5 feet	405	28	Type Y-1	CA Hazardous (Type Z-2)
4.5 to 5.0 feet	*54*	*2.6*	*Type Y-1*	*Non-Hazardous (Type X)*
0 to 5.0 feet	370	25	Type Y-1	CA Hazardous (Type Z-2)

Based on the weighted average total and WET lead concentrations and the reported DI-WET and pH results, the soil from the surface to a depth of 5.0 feet, if excavated as a whole, may be reused onsite (as Caltrans Type Y-1) by placing the lead-impacted soil under at least one foot of clean soil or a pavement structure maintained by Caltrans.

Location 2 – Northbound LA-110, PM 24.14 (Boring No. 1150-102)

Based on the reported concentrations of total lead and WET soluble lead, the soil to a depth of 5.0 feet, if excavated for disposal, would be classified as California hazardous waste (as Caltrans Type Z-2) since the reported WET concentrations exceed the STLC of 5.0 mg/l. The top 5.0 feet of soil is not considered a RCRA hazardous waste based on the TCLP lead results.

The total and WET lead weighted averages for Location 2 are summarized in table below. 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).

Combined Layer (s)	Total Lead (mg/kg)	WET Lead (mg/l)	Soil Type	
	Weighted Averages	Weighted Averages	On Site Reuse Classification	Off Site Disposal Classification
0 to 0.5 foot	7,900	350	Type Z-2	CA Hazardous (Type Z-2)
0.5 to 5.0 feet	*1,307*	*74.4*	*Type Y-1*	*CA Hazardous (Type Z-2)*
0 to 1.0 feet	4,600	209	Type Z-2	CA Hazardous (Type Z-2)
1.0 to 5.0 feet	*1,307*	*75.3*	*Type Y-1*	*CA Hazardous (Type Z-2)*
0 to 2.5 feet	2,620	124	Type Y-2	CA Hazardous (Type Z-2)
2.5 to 5.0 feet	*1,312*	*79.6*	*Type Y-1*	*CA Hazardous (Type Z-2)*
0 to 4.5 feet	2,167	112	Type Y-2	CA Hazardous (Type Z-2)
4.5 to 5.0 feet	*160*	*10.0*	*Type Y-1*	*CA Hazardous (Type Z-2)*
0 to 5.0 feet	1,966	102	Type Y-2	CA Hazardous (Type Z-2)

Based on the weighted average total and WET lead concentrations and the reported DI-WET and pH results, the soil from the surface to a depth of 5.0 feet, if excavated as a whole, may be reused onsite (as Caltrans Type Y-2) by placing the lead-impacted soil under at a pavement structure maintained by Caltrans.

Location 3 – Westbound LA-134, PM 3.6 (Boring No. 1150-103)

Based on the reported concentrations of total lead and WET soluble lead, soil to a depth of 2.5 feet, if excavated for disposal, would be classified as California hazardous waste (as Caltrans Type Z-2) since the reported WET concentrations exceed the STLC of 5.0 mg/l. The top 2.5 feet of soil is not considered a RCRA hazardous waste based on the TCLP lead results. Underlying soil from a depth of 2.5 to 5.0 feet could be reused or disposed as non-hazardous with respect to lead content (Caltrans Type X).

The total and WET lead weighted averages for Location 3 are summarized in table below. 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).

Combined Layer (s)	Total Lead (mg/kg)	WET Lead (mg/l)	Soil Type	
	Weighted Averages	Weighted Averages	On Site Reuse Classification	Off Site Disposal Classification
0 to 0.5 foot	85	12	Type Y-1	CA Hazardous (Type Z-2)
0.5 to 5.0 feet	*56*	*5.0*	*Type Y-1*	*CA Hazardous (Type Z-2)*
0 to 1.0 feet	93	11	Type Y-1	CA Hazardous (Type Z-2)
1.0 to 5.0 feet	*50*	*4.5*	*Type X*	*Non-Hazardous (Type X)*
0 to 2.5 feet	97	10	Type Y-1	CA Hazardous (Type Z-2)
2.5 to 5.0 feet	*20*	*1.7*	*Type X*	*Non-Hazardous (Type X)*
0 to 4.5 feet	62	6.0	Type Y-1	CA Hazardous (Type Z-2)
4.5 to 5.0 feet	*30*	*1.9*	*Type X*	*Non-Hazardous (Type X)*
0 to 5.0 feet	59	6.0	Type Y-1	CA Hazardous (Type Z-2)

Based on the weighted average total and WET lead concentrations and the reported DI-WET and pH results, the soil from the surface to a depth of 5.0 feet, if excavated as a whole, may be reused onsite (as Caltrans Type Y-1) by placing the lead-impacted soil under at least one foot of clean soil or a pavement structure maintained by Caltrans.

6.2 Title 22 Metals

Title 22 metals (other than lead) were not reported at or above their respective TTLCs or ten times their respective STLCs. The reported concentrations of metals, other than lead and arsenic were below their respective CHHSLs for residential and industrial land use.

Arsenic was detected in the soil samples at concentrations ranging from 3.5 to 13 mg/kg. These results are greater than the residential and industrial CHHSLs for arsenic of 0.07 mg/kg and 0.24 mg/kg, respectively. Arsenic is a naturally occurring element; therefore, the concentrations were compared to regional background concentrations. The March 2008 DTSC publication *Determination of a Southern California Regional Background Arsenic Concentration in Soil* establishes a regional background for arsenic within Southern California including Los Angeles County using naturally occurring and anthropogenic concentrations of arsenic. The report finds that the upper-bound background concentration for arsenic within Los Angeles County is 12 mg/kg. The surface sample collected from the northbound LA-110 at PM 24.14 location has an arsenic concentration of 13 mg/kg, which is above the published background concentration. None of the other detected arsenic concentrations exceeded 12 mg/kg, and therefore, the arsenic concentrations are considered to be consistent with background concentrations of arsenic in Los Angeles County.

6.3 pH

Soil pH ranged from 7.1 to 8.3.

6.4 Worker Protection

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

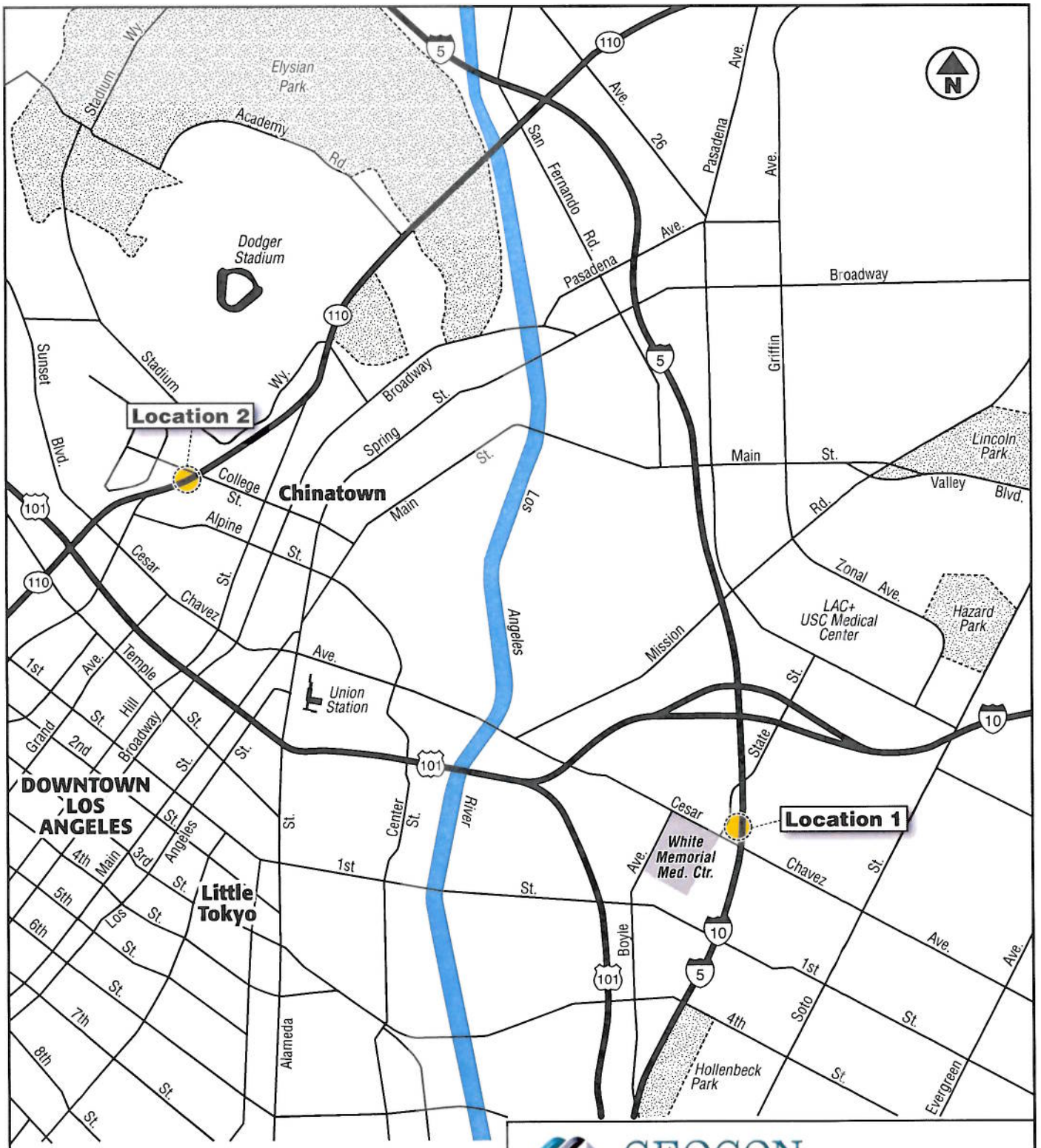
7. REPORT LIMITATIONS

This report has been prepared exclusively for Caltrans. The information obtained is only relevant as of the date of the latest site visit and will require an update to reflect additional information obtained.

The conclusions and recommendations presented herein are based on a limited number of samples collected from in-place soil location according to Caltrans-prescribed protocol. The purpose of these sampling and characterization activities was to reasonably predict the character of soil to be disturbed for planned construction activities within the described limits of the Caltrans right-of-way.

The Client should recognize that this report is not a comprehensive site characterization and should not be construed as such. The appropriate regulatory agency may require additional investigations. The findings and conclusions as presented in this report are predicated on the results of the limited soil sampling and laboratory analyses performed. In addition, the information obtained is not intended to address potential impacts related to sources other than those specified herein.

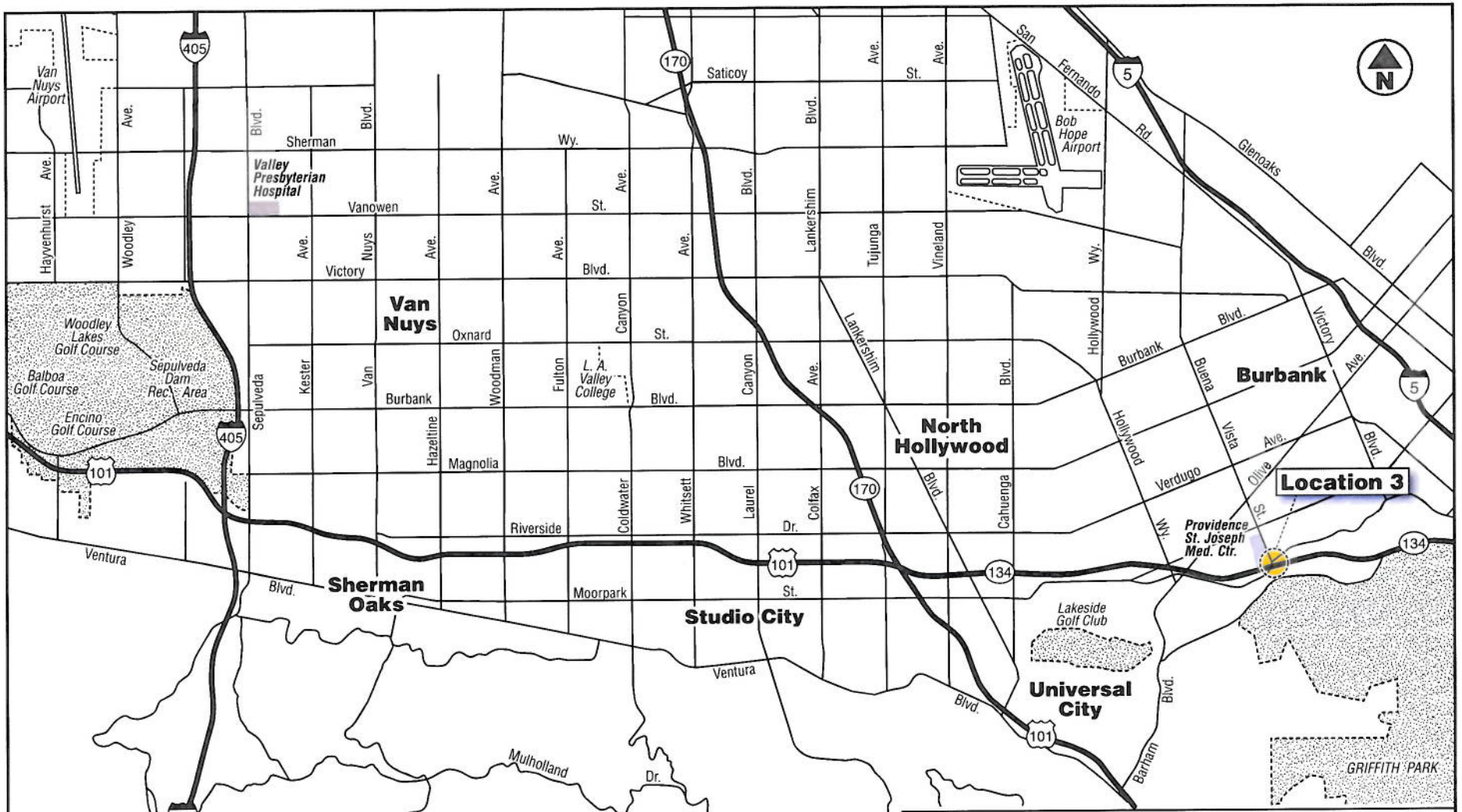
Therefore, the report should only be deemed conclusive with respect to the information obtained. No guarantee or warranty of the results of the report is implied within the intent of this report or any subsequent reports, correspondence, or consultation, either express or implied. Geocon strived to perform 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.
3303 N. SAN FERNANDO BLVD. – SUITE 100 – BURBANK, CA. 91504
PHONE 818.841.8388 – FAX 818.841.1704

LA -5, LA-110 and LA-134 ADL

Los Angeles County, California	**VICINITY MAP**	
GEOCON Proj. No. S9475-06-12		
Task Order No. 12	December 2011	Figure 1A



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LA -5, LA-110 and LA-134 ADL

Los Angeles County, California

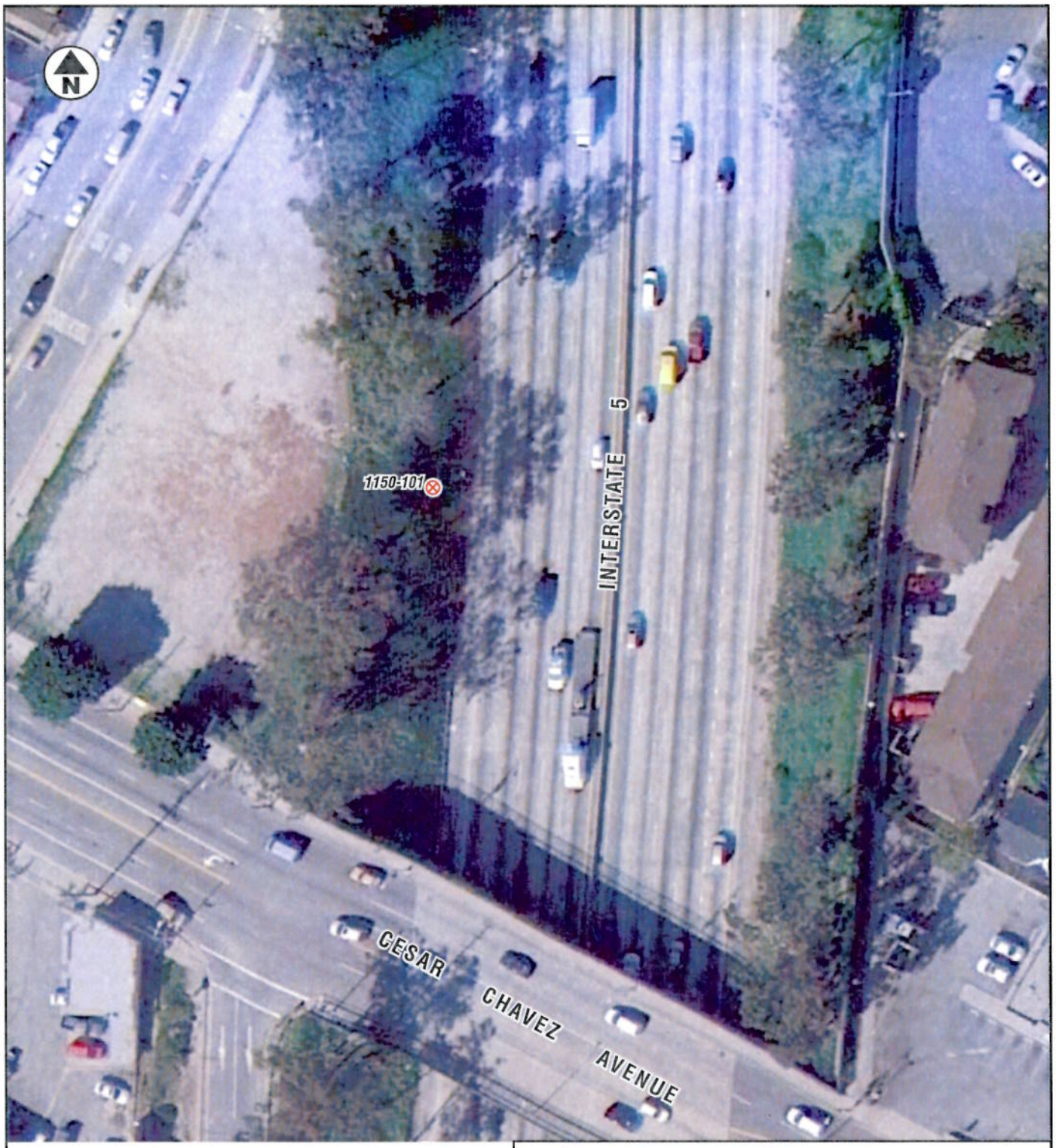
GEOCON Proj. No. S9475-06-12

Task Order No. 12

VICINITY MAP

December 2011

Figure 1B



LEGEND:

1150-101 ⊗ Approximate Boring Location

0 60
Scale in Feet

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LA -5, LA-110 and LA-134 ADL

Los Angeles County, California

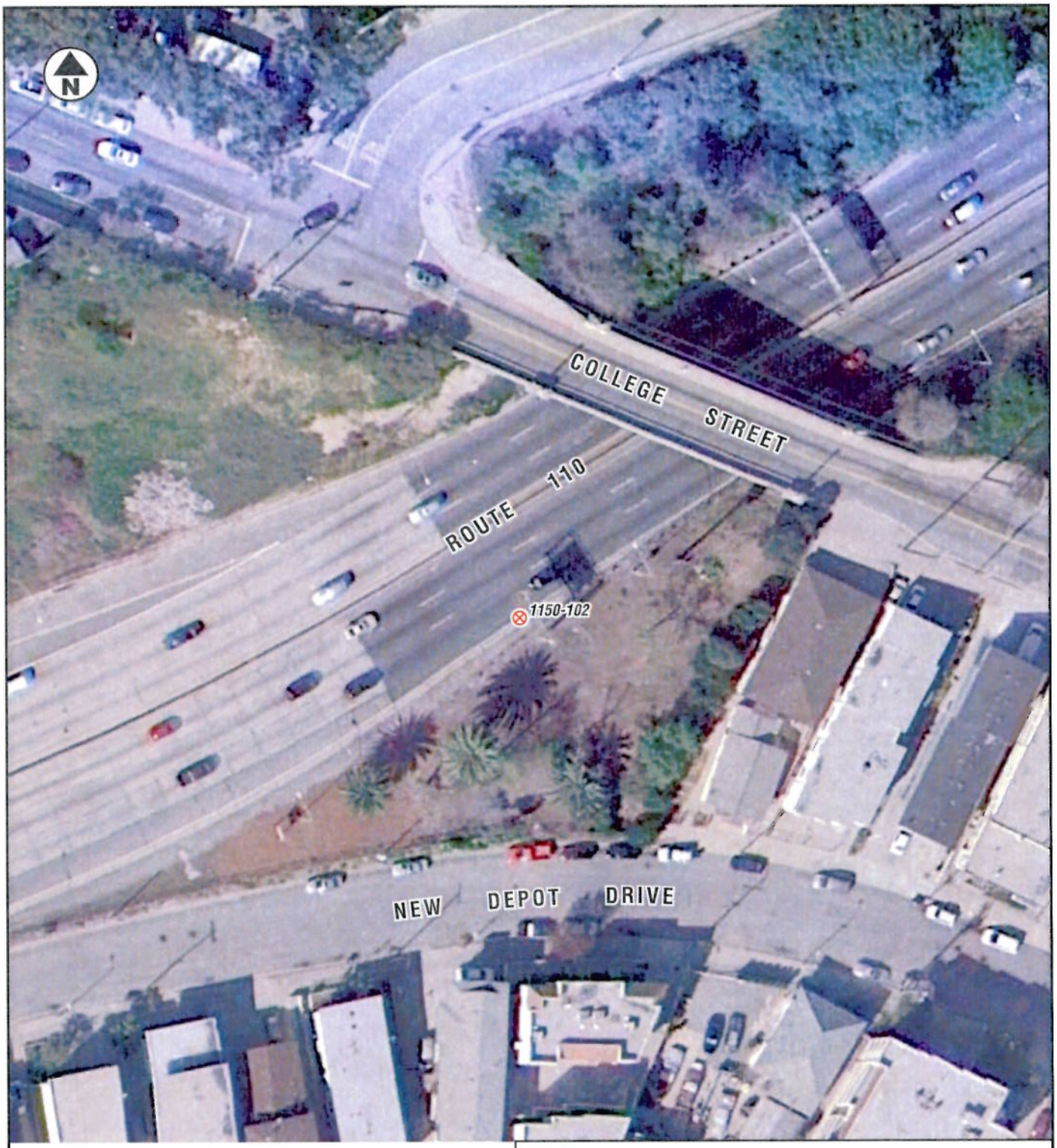
GEOCON Proj. No. S9475-06-12

Task Order No. 12

SITE PLAN

December 2011

Figure 2A



LEGEND:

1150-102 ⊗ Approximate Boring Location

0 60
Scale in Feet

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LA -5, LA-110 and LA-134 ADL

Los Angeles County, California	**SITE PLAN**	
GEOCON Proj. No. S9475-06-12		
Task Order No. 12	December 2011	Figure 2B

LEGEND:

1150-103 ⊗ Approximate Boring Location

0 60
Scale in Feet

GEOCON
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LA -5, LA-110 and LA-134 ADL		
Los Angeles County, California	**SITE PLAN**	
GEOCON Proj. No. S9475-06-12		
Task Order No. 12	December 2011	Figure 2C

TABLE 1
BORING COORDINATES AND SUMMARY OF LEAD AND pH ANALYTICAL RESULTS
LA-5 PM 18.0, LA-110 PM 24.14, LA-134 PM 3.6 ADL INVESTIGATION
LOS ANGELES COUNTY, CALIFORNIA

Sample ID	LONGITUDE	LATITUDE	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	DI-WET Lead (mg/l)	TCLP Lead (mg/l)	pH
ɔcation 1- SB LA-5 PM 18.0								
1150-101-0.5	-118.21427640	34.05028274	0.0-0.5	1,600	120	<0.062	0.52	7.9
1150-101-1.0			0.5-1.0	450	25	0.11 J	0.29 J	
1150-101-3.0			2.5-3.0	62	7.1	<0.062		
1150-101-5.0			4.5-5.0	54	2.6	<0.062		
Location 2 - NB LA-110 PM 24.14								
1150-102-0.5	-118.24264300	34.06548777	0.0-0.5	7,900	350	0.19 J	2.1	7.1
1150-102-1.0			0.5-1.0	1,300	68	<0.062	0.65	
1150-102-3.0			2.5-3.0	1,600	97	0.26 J	2.0	
1150-102-5.0			4.5-5.0	160	10	<0.062		
Location 3 - LA-134 PM 3.6								
1150-103-0.5	-118.32232730	34.15466828	0.0-0.5	85	12	0.13 J		
1150-103-1.0			0.5-1.0	100	9.0	0.31 J	0.27 J	8.3
1150-103-3.0			2.5-3.0	18	1.7	<0.062		
1150-103-5.0			4.5-5.0	30	1.9	<0.062		

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
< = Analyte was not detected above the method detection limit
J = Estimated value - concentration is between the method detection limit and the laboratory practical quantitation limit

TABLE 2
SUMMARY OF TITLE 22 METALS ANALYTICAL RESULTS
LA-5 PM 18.0, LA-110 PM 24.14, LA-134 PM 3.6 ADL INVESTIGATION
LOS ANGELES COUNTY, CALIFORNIA

Sample ID	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
1150-101-0.5	1.0 J	4.3	240	<0.042	2.1	31	9.2	120	1,600	0.13	2.3	26	<0.28	<0.042	<0.098	33	390
1150-101-1.0	1.5 J	3.5	230	<0.042	1.5	24	6.5	65	450	0.18	2.8	19	<0.28	<0.042	<0.098	27	330
1150-101-3.0	0.31 J	4.7	92	<0.042	1.4	33	8.5	33	62	0.051J	1.4	29	<0.28	<0.042	<0.098	41	94
1150-101-5.0	0.53 J	4.6	170	<0.042	1.1	30	9.2	27	54	0.033 J	1.0	26	<0.28	<0.042	<0.098	39	78
1150-102-0.5	2.1 J	13	280	<0.21	4.4 J	30	8.2	97	7,900	0.20	3.3 J	27	<1.4	<0.21	<0.49	27	960
1150-102-1.0	1.1 J	9.4	160	<0.042	2.7	15	10	55	1,300	0.076 J	3.4	37	<0.28	<0.042	<0.098	31	240
1150-102-3.0	1.0 J	5.3	130	<0.042	1.4	14	5.6	44	1,600	0.080 J	0.98 J	11	<0.28	<0.042	<0.098	20	290
1150-102-5.0	<0.16	5.6	160	<0.042	2.4	19	7.7	28	160	0.062 J	5.2	28	<0.28	<0.042	<0.098	36	83
1150-103-0.5	0.41 J	<0.20	57	<0.042	0.69 J	11	6.9	17	85	0.059 J	0.36 J	7.2	<0.28	<0.042	<0.098	21	130
1150-103-1.0	<0.16	<0.20	75	<0.042	0.56 J	9.2	6.8	6.2	100	0.61	<0.097	5.3	<0.28	<0.042	<0.098	22	77
1150-103-3.0	<0.16	<0.20	40	<0.042	0.51 J	14	7.9	3.6	18	0.066 J	<0.097	8.9	<0.28	<0.042	<0.098	22	56
1150-103-5.0	0.22 J	<0.20	36	<0.042	0.66 J	12	6.7	2.0 J	30	0.067 J	<0.097	6.6	<0.28	<0.042	<0.098	20	61
TTLC	500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
STLC	15	5.0	100	0.75	1.0	5.0	80	25	5.0	0.2	350	20	1.0	5.0	7.0	24	250
CHHSLs Ind	380	0.24	6,300	190	7.5	10,000	3,200/	38,000	320	180	4,800	16,000	4,800	4,800	63	6,700	100,000
CHHSLs Res	30	0.07	5,200	16	1.7	10,000	600	3,000	80	18	380	1,600	380	380	5.0	530	23,000
Background Concentrations [1]																	
Minimum	0.15	0.6	133	0.25	0.05	23	2.7	9.1	12.4	0.05	0.10	9	0.015	0.1	5.3	39	88
Maximum	1.95	12	1,400	2.70	1.7	1,579	46.9	96.4	97.1	0.90	9.6	509	0.43	8.3	36.2	288	236
Mean	0.60	3.5	509	1.28	0.36	122	14.9	28.7	23.9	0.26	1.3	57	0.058	0.8	15.7	112	149

Notes:

Units shown in milligrams per kilogram (mg/kg)

< = Not detected above the laboratory reporting limit specified

J = Estimated value - concentration is between the method detection limit and the laboratory practical quantitation limit

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

CHHSLs = California Environmental Protection Agency, California Human Health Screening Levels for industrial (Ind) and residential (Res) use

TTLC, STLC, and CHHSLs shown for chromium are for chromium III.

[1] *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)

Maximum arsenic background concentration source - *Determination of a Southern California Regional Background Arsenic Concentration in Soil,* DTSC March 2008

APPENDIX A

PROJECT NO. S9475-06-12

BORING 1150-101

ELEV. (MSL.) - - DATE COMPLETED 10/23/11

EQUIPMENT HOLLOW STEM AUGER BY: MA

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					Sand with Gravel, poorly graded, loose, slightly moist, yellowish brown, fine- to medium-grained, trace fine-gravel			
2				SP				
4								
6					Clayey Silt, firm, slightly moist, yellowish brown, moderate plasticity	15		
8				ML				
10					Clay, firm, slightly moist, yellowish brown	37		
12								
14								
16				CL	-High plasticity	17		
18								
20					-Grayish brown	18		
22								
					-Dark grayish brown	14		

End at 23.5 feet.
No groundwater encountered.
Backfilled and tamped with soil cuttings.

*Penetration resistance for 140 pound hammer falling 30 inches.

S9475-06-12 BORING LOGS.GPJ

Figure A1,
Log of Boring 1150-101, Page 1 of 1

SAMPLE SYMBOLS
... SAMPLING UNSUCCESSFUL
... STANDARD PENETRATION TEST
... DRIVE SAMPLE (UNDISTURBED)
... DISTURBED OR BAG SAMPLE
... CHUNK SAMPLE
... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

GEOCON

PROJECT NO. S9475-06-12

BORING 1150-102

ELEV. (MSL.) -- DATE COMPLETED 10/23/11

EQUIPMENT HOLLOW STEM AUGER BY: MA

DEPTH IN FEET	SAMPLE NO.	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	MATERIAL DESCRIPTION	PENETRATION RESISTANCE (BLOWS/FT)*	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)
0					Clayey Silt, firm, slightly moist, dark gray, high plasticity			
2								
4								
6						14		
8				ML				
10						48		
12								
14								
16					Clay, firm, slightly moist, very dark gray, high plasticity	45		
18				CL				
20					-Very dark grayish brown	63		
22								
					-Very dark brown	84		

End at 23.5 feet.
No groundwater encountered.
Backfilled and tamped with soil cuttings.

*Penetration resistance for 140 pound hammer falling 30 inches.

Figure A2,
Log of Boring 1150-102, Page 1 of 1

S9475-06-12 BORING LOGS.GPJ

SAMPLE SYMBOLS
... SAMPLING UNSUCCESSFUL
... STANDARD PENETRATION TEST
... DRIVE SAMPLE (UNDISTURBED)
... DISTURBED OR BAG SAMPLE
... CHUNK SAMPLE
... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

GEOCON

APPENDIX B

December 20, 2011

Mike Conkle
Geocon Consultants, Inc.
3303 N. San Fernando Blvd., Suite 100
Burbank, CA 91504

TEL: (818) 841-8388
FAX: (818) 841-1704

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 120472

RE: LA-5, LA-110, LA-134 & LA-405, S9475-06-12

Attention: Mike Conkle

Enclosed are the results for sample(s) received on October 24, 2011 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 amended report. Please disregard all previous documentation that corresponds to the page(s) enclosed.

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

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

Sincerely,

Eddie F. Rodriguez
Laboratory Director

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

CASE NARRATIVE

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Analytical Comments for EPA 6010B

Samples 120472-004A-DUP and 120560-002A-DUP, RPD for Sample Duplicate (DUP) is outside criteria; however, the Laboratory Control Sample (LCS) validated the analytical batch.

Samples 120472-005A-MS, 120472-005A-MSD, and 120560-003A-MS, Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

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: *20-Dec-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1150-101-0.5
Lab Order:	120472	**Collection Date:**	10/23/2011 7:39:00 AM
Project:	LA-5, LA-110, LA-134 & LA-405, S9475-06-	**Matrix:**	SOIL
Lab ID:	120472-001A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_111029F**	QC Batch: **76620**				PrepDate:	**10/29/2011**	Analyst: **CBB**
Antimony	1.0	0.16	2.0	J	mg/Kg	1	10/29/2011
Arsenic	4.3	0.20	1.0		mg/Kg	1	10/29/2011
Barium	240	0.056	1.0		mg/Kg	1	10/29/2011
Beryllium	ND	0.042	1.0		mg/Kg	1	10/29/2011
Cadmium	2.1	0.043	1.0		mg/Kg	1	10/29/2011
Chromium	31	0.13	1.0		mg/Kg	1	10/29/2011
Cobalt	9.2	0.11	1.0		mg/Kg	1	10/29/2011
Copper	120	0.18	2.0		mg/Kg	1	10/29/2011
Molybdenum	2.3	0.097	1.0		mg/Kg	1	10/29/2011
Nickel	26	0.11	1.0		mg/Kg	1	10/29/2011
Selenium	ND	0.28	1.0		mg/Kg	1	10/29/2011
Silver	ND	0.042	1.0		mg/Kg	1	10/29/2011
Thallium	ND	0.098	1.0		mg/Kg	1	10/29/2011
Vanadium	33	0.088	1.0		mg/Kg	1	10/29/2011
Zinc	390	0.13	1.0		mg/Kg	1	10/29/2011
LEAD BY ICP							
	EPA 3050M		**EPA 6010B**				
RunID: **ICP6_111031A**	QC Batch: **76632**				PrepDate:	**10/31/2011**	Analyst: **SRB**
Lead	1600	0.042	5.0		mg/Kg	1	10/31/2011
LEAD BY ATOMIC ABSORPTION							
	WET		**WET DI/ EPA 7420**				
RunID: **AA2_111102A**	QC Batch: **76618**				PrepDate:	**10/30/2011**	Analyst: **VV**
Lead	ND	0.062	0.50		mg/L	1	11/2/2011 11:24
LEAD BY ATOMIC ABSORPTION (STLC)							
	WET		**WET/ EPA 7420**				
RunID: **AA2_111028C**	QC Batch: **76509**				PrepDate:	**10/26/2011**	Analyst: **VV**
Lead	120	1.2	10		mg/L	20	10/28/2011
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_111031C**	QC Batch: **76579**				PrepDate:	**10/28/2011**	Analyst: **VV**
Mercury	0.13	0.0028	0.10		mg/Kg	1	10/31/2011

Qualifiers:

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

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *20-Dec-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1150-101-1.0
Lab Order:	120472	**Collection Date:**	10/23/2011 7:42:00 AM
Project:	LA-5, LA-110, LA-134 & LA-405, S9475-06-	**Matrix:**	SOIL
Lab ID:	120472-002A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_111029F**	QC Batch: **76620**				PrepDate:	**10/29/2011**	Analyst: **CBB**
Antimony	1.5	0.16	2.0	J	mg/Kg	1	10/29/2011
Arsenic	3.5	0.20	1.0		mg/Kg	1	10/29/2011
Barium	230	0.056	1.0		mg/Kg	1	10/29/2011
Beryllium	ND	0.042	1.0		mg/Kg	1	10/29/2011
Cadmium	1.5	0.043	1.0		mg/Kg	1	10/29/2011
Chromium	24	0.13	1.0		mg/Kg	1	10/29/2011
Cobalt	6.5	0.11	1.0		mg/Kg	1	10/29/2011
Copper	65	0.18	2.0		mg/Kg	1	10/29/2011
Molybdenum	2.8	0.097	1.0		mg/Kg	1	10/29/2011
Nickel	19	0.11	1.0		mg/Kg	1	10/29/2011
Selenium	ND	0.28	1.0		mg/Kg	1	10/29/2011
Silver	ND	0.042	1.0		mg/Kg	1	10/29/2011
Thallium	ND	0.098	1.0		mg/Kg	1	10/29/2011
Vanadium	27	0.088	1.0		mg/Kg	1	10/29/2011
Zinc	330	0.13	1.0		mg/Kg	1	10/29/2011
LEAD BY ICP							
	EPA 3050M		**EPA 6010B**				
RunID: **ICP6_111031A**	QC Batch: **76632**				PrepDate:	**10/31/2011**	Analyst: **SRB**
Lead	450	0.042	5.0		mg/Kg	1	10/31/2011
LEAD BY ATOMIC ABSORPTION							
	WET		**WET DI/ EPA 7420**				
RunID: **AA2_111102A**	QC Batch: **76618**				PrepDate:	**10/30/2011**	Analyst: **VV**
Lead	0.11	0.062	0.50	J	mg/L	1	11/2/2011 11:25
LEAD BY ATOMIC ABSORPTION (STLC)							
	WET		**WET/ EPA 7420**				
RunID: **AA2_111028C**	QC Batch: **76509**				PrepDate:	**10/26/2011**	Analyst: **VV**
Lead	25	0.31	2.5		mg/L	5	10/28/2011
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_111031C**	QC Batch: **76579**				PrepDate:	**10/28/2011**	Analyst: **VV**
Mercury	0.18	0.0028	0.10		mg/Kg	1	10/31/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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: *20-Dec-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1150-101-3.0
Lab Order:	120472	**Collection Date:**	10/23/2011 7:54:00 AM
Project:	LA-5, LA-110, LA-134 & LA-405, S9475-06-	**Matrix:**	SOIL
Lab ID:	120472-003A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_111029F**	QC Batch: **76620**				PrepDate:	**10/29/2011**	Analyst: **CBB**
Antimony	0.31	0.16	2.0	J	mg/Kg	1	10/30/2011
Arsenic	4.7	0.20	1.0		mg/Kg	1	10/30/2011
Barium	92	0.056	1.0		mg/Kg	1	10/30/2011
Beryllium	ND	0.042	1.0		mg/Kg	1	10/30/2011
Cadmium	1.4	0.043	1.0		mg/Kg	1	10/30/2011
Chromium	33	0.13	1.0		mg/Kg	1	10/30/2011
Cobalt	8.5	0.11	1.0		mg/Kg	1	10/30/2011
Copper	33	0.18	2.0		mg/Kg	1	10/30/2011
Molybdenum	1.4	0.097	1.0		mg/Kg	1	10/30/2011
Nickel	29	0.11	1.0		mg/Kg	1	10/30/2011
Selenium	ND	0.28	1.0		mg/Kg	1	10/30/2011
Silver	ND	0.042	1.0		mg/Kg	1	10/30/2011
Thallium	ND	0.098	1.0		mg/Kg	1	10/30/2011
Vanadium	41	0.088	1.0		mg/Kg	1	10/30/2011
Zinc	94	0.13	1.0		mg/Kg	1	10/30/2011
LEAD BY ICP							
	EPA 3050M		**EPA 6010B**				
RunID: **ICP6_111031A**	QC Batch: **76632**				PrepDate:	**10/31/2011**	Analyst: **SRB**
Lead	62	0.042	5.0		mg/Kg	1	10/31/2011
LEAD BY ATOMIC ABSORPTION							
	WET		**WET DI/ EPA 7420**				
RunID: **AA2_111102A**	QC Batch: **76618**				PrepDate:	**10/30/2011**	Analyst: **VV**
Lead	ND	0.062	0.50		mg/L	1	11/2/2011 11:25
LEAD BY ATOMIC ABSORPTION (STLC)							
	WET		**WET/ EPA 7420**				
RunID: **AA2_111028C**	QC Batch: **76509**				PrepDate:	**10/26/2011**	Analyst: **VV**
Lead	7.1	0.062	0.50		mg/L	1	10/28/2011
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_111031C**	QC Batch: **76579**				PrepDate:	**10/28/2011**	Analyst: **VV**
Mercury	0.051	0.0028	0.10	J	mg/Kg	1	10/31/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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: *20-Dec-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1150-101-5.0
Lab Order:	120472	**Collection Date:**	10/23/2011 8:05:00 AM
Project:	LA-5, LA-110, LA-134 & LA-405, S9475-06-	**Matrix:**	SOIL
Lab ID:	120472-004A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_111029F**	QC Batch: **76620**				PrepDate:	**10/29/2011**	Analyst: **CBB**
Antimony	0.53	0.16	2.0	J	mg/Kg	1	10/30/2011
Arsenic	4.6	0.20	1.0		mg/Kg	1	10/30/2011
Barium	170	0.056	1.0		mg/Kg	1	10/30/2011
Beryllium	ND	0.042	1.0		mg/Kg	1	10/30/2011
Cadmium	1.1	0.043	1.0		mg/Kg	1	10/30/2011
Chromium	30	0.13	1.0		mg/Kg	1	10/30/2011
Cobalt	9.2	0.11	1.0		mg/Kg	1	10/30/2011
Copper	27	0.18	2.0		mg/Kg	1	10/30/2011
Molybdenum	1.0	0.097	1.0		mg/Kg	1	10/30/2011
Nickel	26	0.11	1.0		mg/Kg	1	10/30/2011
Selenium	ND	0.28	1.0		mg/Kg	1	10/30/2011
Silver	ND	0.042	1.0		mg/Kg	1	10/30/2011
Thallium	ND	0.098	1.0		mg/Kg	1	10/30/2011
Vanadium	39	0.088	1.0		mg/Kg	1	10/30/2011
Zinc	78	0.13	1.0		mg/Kg	1	10/30/2011
LEAD BY ICP							
	EPA 3050M		**EPA 6010B**				
RunID: **ICP6_111031A**	QC Batch: **76632**				PrepDate:	**10/31/2011**	Analyst: **SRB**
Lead	54	0.042	5.0		mg/Kg	1	10/31/2011
LEAD BY ATOMIC ABSORPTION							
	WET		**WET DI/ EPA 7420**				
RunID: **AA2_111102A**	QC Batch: **76618**				PrepDate:	**10/30/2011**	Analyst: **VV**
Lead	ND	0.062	0.50		mg/L	1	11/2/2011 11:25
LEAD BY ATOMIC ABSORPTION (STLC)							
	WET		**WET/ EPA 7420**				
RunID: **AA2_111028C**	QC Batch: **76509**				PrepDate:	**10/26/2011**	Analyst: **VV**
Lead	2.6	0.062	0.50		mg/L	1	10/28/2011
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_111031C**	QC Batch: **76579**				PrepDate:	**10/28/2011**	Analyst: **VV**
Mercury	0.033	0.0028	0.10	J	mg/Kg	1	10/31/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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: *20-Dec-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1150-102-0.5
Lab Order:	120472	**Collection Date:**	10/23/2011 10:52:00 AM
Project:	LA-5, LA-110, LA-134 & LA-405, S9475-06-	**Matrix:**	SOIL
Lab ID:	120472-005A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_111030B**	QC Batch: **76621**				PrepDate:	**10/29/2011**	Analyst: **CBB**
Antimony	2.1	0.80	10	J	mg/Kg	5	10/30/2011
Arsenic	13	0.99	5.0		mg/Kg	5	10/30/2011
Barium	280	0.28	5.0		mg/Kg	5	10/30/2011
Beryllium	ND	0.21	5.0		mg/Kg	5	10/30/2011
Cadmium	4.4	0.21	5.0	J	mg/Kg	5	10/30/2011
Chromium	30	0.64	5.0		mg/Kg	5	10/30/2011
Cobalt	8.2	0.57	5.0		mg/Kg	5	10/30/2011
Copper	97	0.92	10		mg/Kg	5	10/30/2011
Molybdenum	3.3	0.48	5.0	J	mg/Kg	5	10/30/2011
Nickel	27	0.56	5.0		mg/Kg	5	10/30/2011
Selenium	ND	1.4	5.0		mg/Kg	5	10/30/2011
Silver	ND	0.21	5.0		mg/Kg	5	10/30/2011
Thallium	ND	0.49	5.0		mg/Kg	5	10/30/2011
Vanadium	27	0.44	5.0		mg/Kg	5	10/30/2011
Zinc	960	0.66	5.0		mg/Kg	5	10/30/2011
LEAD BY ICP							
	EPA 3050M		**EPA 6010B**				
RunID: **ICP6_111031A**	QC Batch: **76632**				PrepDate:	**10/31/2011**	Analyst: **SRB**
Lead	7900	0.21	25		mg/Kg	5	10/31/2011
LEAD BY ATOMIC ABSORPTION							
	WET		**WET DI/ EPA 7420**				
RunID: **AA2_111102A**	QC Batch: **76618**				PrepDate:	**10/30/2011**	Analyst: **VV**
Lead	0.19	0.062	0.50	J	mg/L	1	11/2/2011 11:26
LEAD BY ATOMIC ABSORPTION (STLC)							
	WET		**WET/ EPA 7420**				
RunID: **AA2_111028C**	QC Batch: **76509**				PrepDate:	**10/26/2011**	Analyst: **VV**
Lead	350	2.5	20		mg/L	40	10/28/2011
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA5_111028A**	QC Batch: **76580**				PrepDate:	**10/28/2011**	Analyst: **VV**
Mercury	0.20	0.0028	0.10		mg/Kg	1	10/28/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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: *20-Dec-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1150-102-1.0
Lab Order:	120472	**Collection Date:**	10/23/2011 11:02:00 AM
Project:	LA-5, LA-110, LA-134 & LA-405, S9475-06-	**Matrix:**	SOIL
Lab ID:	120472-006A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_111030B**	QC Batch: **76621**				PrepDate:	**10/29/2011**	Analyst: **CBB**
Antimony	1.1	0.16	2.0	J	mg/Kg	1	10/30/2011
Arsenic	9.4	0.20	1.0		mg/Kg	1	10/30/2011
Barium	160	0.056	1.0		mg/Kg	1	10/30/2011
Beryllium	ND	0.042	1.0		mg/Kg	1	10/30/2011
Cadmium	2.7	0.043	1.0		mg/Kg	1	10/30/2011
Chromium	15	0.13	1.0		mg/Kg	1	10/30/2011
Cobalt	10	0.11	1.0		mg/Kg	1	10/30/2011
Copper	55	0.18	2.0		mg/Kg	1	10/30/2011
Molybdenum	3.4	0.097	1.0		mg/Kg	1	10/30/2011
Nickel	37	0.11	1.0		mg/Kg	1	10/30/2011
Selenium	ND	0.28	1.0		mg/Kg	1	10/30/2011
Silver	ND	0.042	1.0		mg/Kg	1	10/30/2011
Thallium	ND	0.098	1.0		mg/Kg	1	10/30/2011
Vanadium	31	0.088	1.0		mg/Kg	1	10/30/2011
Zinc	240	0.13	1.0		mg/Kg	1	10/30/2011
LEAD BY ICP							
	EPA 3050M		**EPA 6010B**				
RunID: **ICP6_111031A**	QC Batch: **76632**				PrepDate:	**10/31/2011**	Analyst: **SRB**
Lead	1300	0.042	5.0		mg/Kg	1	10/31/2011
LEAD BY ATOMIC ABSORPTION							
	WET		**WET DI/ EPA 7420**				
RunID: **AA2_111102A**	QC Batch: **76618**				PrepDate:	**10/30/2011**	Analyst: **VV**
Lead	ND	0.062	0.50		mg/L	1	11/2/2011 11:26
LEAD BY ATOMIC ABSORPTION (STLC)							
	WET		**WET/ EPA 7420**				
RunID: **AA2_111028C**	QC Batch: **76509**				PrepDate:	**10/26/2011**	Analyst: **VV**
Lead	68	0.62	5.0		mg/L	10	10/28/2011
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA5_111028A**	QC Batch: **76580**				PrepDate:	**10/28/2011**	Analyst: **VV**
Mercury	0.076	0.0028	0.10	J	mg/Kg	1	10/28/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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: *20-Dec-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1150-102-3.0
Lab Order:	120472	**Collection Date:**	10/23/2011 11:17:00 AM
Project:	LA-5, LA-110, LA-134 & LA-405, S9475-06-	**Matrix:**	SOIL
Lab ID:	120472-007A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_111030B**	QC Batch: **76621**				PrepDate:	**10/29/2011**	Analyst: **CBB**
Antimony	1.0	0.16	2.0	J	mg/Kg	1	10/30/2011
Arsenic	5.3	0.20	1.0		mg/Kg	1	10/30/2011
Barium	130	0.056	1.0		mg/Kg	1	10/30/2011
Beryllium	ND	0.042	1.0		mg/Kg	1	10/30/2011
Cadmium	1.4	0.043	1.0		mg/Kg	1	10/30/2011
Chromium	14	0.13	1.0		mg/Kg	1	10/30/2011
Cobalt	5.6	0.11	1.0		mg/Kg	1	10/30/2011
Copper	44	0.18	2.0		mg/Kg	1	10/30/2011
Molybdenum	0.98	0.097	1.0	J	mg/Kg	1	10/30/2011
Nickel	11	0.11	1.0		mg/Kg	1	10/30/2011
Selenium	ND	0.28	1.0		mg/Kg	1	10/30/2011
Silver	ND	0.042	1.0		mg/Kg	1	10/30/2011
Thallium	ND	0.098	1.0		mg/Kg	1	10/30/2011
Vanadium	20	0.088	1.0		mg/Kg	1	10/30/2011
Zinc	290	0.13	1.0		mg/Kg	1	10/30/2011
LEAD BY ICP							
	EPA 3050M		**EPA 6010B**				
RunID: **ICP6_111031A**	QC Batch: **76632**				PrepDate:	**10/31/2011**	Analyst: **SRB**
Lead	1600	0.042	5.0		mg/Kg	1	10/31/2011
LEAD BY ATOMIC ABSORPTION							
	WET		**WET DI/ EPA 7420**				
RunID: **AA2_111102A**	QC Batch: **76618**				PrepDate:	**10/30/2011**	Analyst: **VV**
Lead	0.26	0.062	0.50	J	mg/L	1	11/2/2011 11:27
LEAD BY ATOMIC ABSORPTION (STLC)							
	WET		**WET/ EPA 7420**				
RunID: **AA2_111028C**	QC Batch: **76509**				PrepDate:	**10/26/2011**	Analyst: **VV**
Lead	97	1.2	10		mg/L	20	10/28/2011
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA5_111028A**	QC Batch: **76580**				PrepDate:	**10/28/2011**	Analyst: **VV**
Mercury	0.080	0.0028	0.10	J	mg/Kg	1	10/28/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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: *20-Dec-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1150-102-5.0
Lab Order:	120472	**Collection Date:**	10/23/2011 11:37:00 AM
Project:	LA-5, LA-110, LA-134 & LA-405, S9475-06-	**Matrix:**	SOIL
Lab ID:	120472-008A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B				**EPA 6010B**		
RunID: **ICP8_111030B**	QC Batch: **76621**				PrepDate:	**10/29/2011**	Analyst: **CBB**
Antimony	ND	0.16	2.0		mg/Kg	1	10/30/2011
Arsenic	5.6	0.20	1.0		mg/Kg	1	10/30/2011
Barium	160	0.056	1.0		mg/Kg	1	10/30/2011
Beryllium	ND	0.042	1.0		mg/Kg	1	10/30/2011
Cadmium	2.4	0.043	1.0		mg/Kg	1	10/30/2011
Chromium	19	0.13	1.0		mg/Kg	1	10/30/2011
Cobalt	7.7	0.11	1.0		mg/Kg	1	10/30/2011
Copper	28	0.18	2.0		mg/Kg	1	10/30/2011
Molybdenum	5.2	0.097	1.0		mg/Kg	1	10/30/2011
Nickel	28	0.11	1.0		mg/Kg	1	10/30/2011
Selenium	ND	0.28	1.0		mg/Kg	1	10/30/2011
Silver	ND	0.042	1.0		mg/Kg	1	10/30/2011
Thallium	ND	0.098	1.0		mg/Kg	1	10/30/2011
Vanadium	36	0.088	1.0		mg/Kg	1	10/30/2011
Zinc	83	0.13	1.0		mg/Kg	1	10/30/2011
LEAD BY ICP							
	EPA 3050M				**EPA 6010B**		
RunID: **ICP6_111031A**	QC Batch: **76632**				PrepDate:	**10/31/2011**	Analyst: **SRB**
Lead	160	0.042	5.0		mg/Kg	1	10/31/2011
LEAD BY ATOMIC ABSORPTION							
	WET				**WET DI/ EPA 7420**		
RunID: **AA2_111102A**	QC Batch: **76618**				PrepDate:	**10/30/2011**	Analyst: **VV**
Lead	ND	0.062	0.50		mg/L	1	11/2/2011 11:28
LEAD BY ATOMIC ABSORPTION (STLC)							
	WET				**WET/ EPA 7420**		
RunID: **AA2_111028C**	QC Batch: **76509**				PrepDate:	**10/26/2011**	Analyst: **VV**
Lead	10	0.12	1.0		mg/L	2	10/28/2011
MERCURY BY COLD VAPOR TECHNIQUE							
					EPA 7471A		
RunID: **AA5_111028A**	QC Batch: **76580**				PrepDate:	**10/28/2011**	Analyst: **VV**
Mercury	0.062	0.0028	0.10	J	mg/Kg	1	10/28/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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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CLIENT: Geocon Consultants, Inc.
Work Order: 120472
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-76620** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **10/29/2011** RunNo: **137983**
Client ID: **PBS** Batch ID: **76620** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **10/29/2011** SeqNo: **2267056**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.257	2.0									J
Arsenic	ND	1.0									
Barium	0.054	1.0									J
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	0.177	1.0									J
Cobalt	ND	1.0									
Copper	0.606	2.0									J
Molybdenum	0.086	1.0									J
Nickel	0.154	1.0									J
Selenium	0.256	1.0									J
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	ND	1.0									

Sample ID: **LCS-76620** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **10/29/2011** RunNo: **137983**
Client ID: **LCSS** Batch ID: **76620** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **10/29/2011** SeqNo: **2267057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	47.623	2.0	50.00	0.2569	94.7	80	120				
Arsenic	44.784	1.0	50.00	0	89.6	80	120				
Barium	49.485	1.0	50.00	0.05418	98.9	80	120				
Beryllium	50.097	1.0	50.00	0	100	80	120				
Cadmium	46.278	1.0	50.00	0	92.6	80	120				
Chromium	49.575	1.0	50.00	0.1775	98.8	80	120				
Cobalt	52.573	1.0	50.00	0	105	80	120				
Copper	49.197	2.0	50.00	0.6063	97.2	80	120				

Qualifiers:

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

CLIENT: Geocon Consultants, Inc.
Work Order: 120472
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **LCS-76620** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **10/29/2011** RunNo: **137983**
Client ID: **LCSS** Batch ID: **76620** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **10/29/2011** SeqNo: **2267057**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	49.079	1.0	50.00	0.08576	98.0	80	120				
Nickel	47.698	1.0	50.00	0.1535	95.1	80	120				
Selenium	43.288	1.0	50.00	0.2557	86.1	80	120				
Silver	46.017	1.0	50.00	0	92.0	80	120				
Thallium	49.252	1.0	50.00	0	98.5	80	120				
Vanadium	48.433	1.0	50.00	0	96.9	80	120				
Zinc	47.101	1.0	50.00	0	94.2	80	120				

Sample ID: **120472-004A-DUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **10/29/2011** RunNo: **137983**
Client ID: **1150-101-5.0** Batch ID: **76620** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **10/30/2011** SeqNo: **2267068**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.458	2.0						0.5314	0	20	J
Arsenic	4.434	1.0						4.569	2.99	20	
Barium	187.589	1.0						165.3	12.6	20	
Beryllium	ND	1.0						0	0	20	
Cadmium	1.127	1.0						1.062	5.98	20	
Chromium	31.252	1.0						30.41	2.73	20	
Cobalt	9.765	1.0						9.218	5.77	20	
Copper	27.571	2.0						26.86	2.61	20	
Molybdenum	1.367	1.0						1.032	27.9	20	R
Nickel	26.726	1.0						26.19	2.02	20	
Selenium	ND	1.0						0	0	20	
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	39.908	1.0						38.98	2.36	20	
Zinc	79.198	1.0						77.84	1.73	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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: 120472
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **120472-004A-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **10/29/2011** RunNo: **137983**
Client ID: **1150-101-5.0** Batch ID: **76620** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **10/30/2011** SeqNo: **2267069**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	71.525	2.0	125.0	0.5314	56.8	44	105				
Arsenic	89.391	1.0	125.0	4.569	67.9	57	103				
Barium	267.476	1.0	125.0	165.3	81.7	36	134				
Beryllium	90.880	1.0	125.0	0	72.7	64	106				
Cadmium	81.631	1.0	125.0	1.062	64.5	58	102				
Chromium	120.002	1.0	125.0	30.41	71.7	55	105				
Cobalt	97.115	1.0	125.0	9.218	70.3	59	105				
Copper	125.016	2.0	125.0	26.86	78.5	64	117				
Molybdenum	85.765	1.0	125.0	1.032	67.8	59	108				
Nickel	108.739	1.0	125.0	26.19	66.0	52	109				
Selenium	74.958	1.0	125.0	0	60.0	56	100				
Silver	94.720	1.0	125.0	0	75.8	65	107				
Thallium	76.882	1.0	125.0	0	61.5	47	100				
Vanadium	132.973	1.0	125.0	38.98	75.2	64	110				
Zinc	161.143	1.0	125.0	77.84	66.6	37	123				

Sample ID: **120472-004A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **10/29/2011** RunNo: **137983**
Client ID: **1150-101-5.0** Batch ID: **76620** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **10/30/2011** SeqNo: **2267070**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	72.584	2.0	125.0	0.5314	57.6	44	105	71.53	1.47	20	
Arsenic	90.426	1.0	125.0	4.569	68.7	57	103	89.39	1.15	20	
Barium	278.433	1.0	125.0	165.3	90.5	36	134	267.5	4.01	20	
Beryllium	91.330	1.0	125.0	0	73.1	64	106	90.88	0.494	20	
Cadmium	82.609	1.0	125.0	1.062	65.2	58	102	81.63	1.19	20	
Chromium	120.599	1.0	125.0	30.41	72.2	55	105	120.0	0.496	20	
Cobalt	104.957	1.0	125.0	9.218	76.6	59	105	97.11	7.76	20	
Copper	125.416	2.0	125.0	26.86	78.8	64	117	125.0	0.319	20	
Molybdenum	85.930	1.0	125.0	1.032	67.9	59	108	85.77	0.192	20	
Nickel	108.231	1.0	125.0	26.19	65.6	52	109	108.7	0.468	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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: 120472
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **120472-004A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **10/29/2011** RunNo: **137983**
Client ID: **1150-101-5.0** Batch ID: **76620** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **10/30/2011** SeqNo: **2267070**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	74.979	1.0	125.0	0	60.0	56	100	74.96	0.0269	20	
Silver	95.295	1.0	125.0	0	76.2	65	107	94.72	0.605	20	
Thallium	77.423	1.0	125.0	0	61.9	47	100	76.88	0.700	20	
Vanadium	132.303	1.0	125.0	38.98	74.7	64	110	133.0	0.505	20	
Zinc	164.422	1.0	125.0	77.84	69.3	37	123	161.1	2.01	20	

Qualifiers:

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

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Work Order: 120472
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-76621** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **10/29/2011** RunNo: **137988**
Client ID: **PBS** Batch ID: **76621** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **10/30/2011** SeqNo: **2267197**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.179	2.0									J
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	0.203	1.0									J
Cobalt	ND	1.0									
Copper	0.771	2.0									J
Molybdenum	ND	1.0									
Nickel	0.097	1.0									J
Selenium	0.210	1.0									J
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	ND	1.0									

Sample ID: **LCS-76621** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **10/29/2011** RunNo: **137988**
Client ID: **LCSS** Batch ID: **76621** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **10/30/2011** SeqNo: **2267198**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	45.649	2.0	50.00	0.1788	90.9	80	120				
Arsenic	42.945	1.0	50.00	0	85.9	80	120				
Barium	46.446	1.0	50.00	0	92.9	80	120				
Beryllium	47.523	1.0	50.00	0	95.0	80	120				
Cadmium	43.784	1.0	50.00	0	87.6	80	120				
Chromium	46.553	1.0	50.00	0.2034	92.7	80	120				
Cobalt	49.071	1.0	50.00	0	98.1	80	120				
Copper	46.164	2.0	50.00	0.7714	90.8	80	120				
Molybdenum	46.157	1.0	50.00	0	92.3	80	120				
Nickel	45.000	1.0	50.00	0.09705	89.8	80	120				

Qualifiers:

B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
S Spike/Surrogate outside of limits due to matrix interference
E Value above quantitation range
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
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: 120472
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **LCS-76621** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **10/29/2011** RunNo: **137988**
Client ID: **LCSS** Batch ID: **76621** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **10/30/2011** SeqNo: **2267198**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	43.390	1.0	50.00	0.2099	86.4	80	120				
Silver	41.749	1.0	50.00	0	83.5	80	120				
Thallium	46.636	1.0	50.00	0	93.3	80	120				
Vanadium	45.663	1.0	50.00	0	91.3	80	120				
Zinc	45.040	1.0	50.00	0	90.1	80	120				

Sample ID: **120472-005A-DUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **10/29/2011** RunNo: **137988**
Client ID: **1150-102-0.5** Batch ID: **76621** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **10/30/2011** SeqNo: **2267200**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	2.512	10						2.119	0	20	J
Arsenic	14.697	5.0						13.46	8.76	20	
Barium	286.759	5.0						282.9	1.37	20	
Beryllium	ND	5.0						0	0	20	
Cadmium	4.600	5.0						4.371	0	20	J
Chromium	31.585	5.0						29.73	6.04	20	
Cobalt	8.079	5.0						8.152	0.895	20	
Copper	104.364	10						97.10	7.21	20	
Molybdenum	3.396	5.0						3.281	0	20	J
Nickel	30.591	5.0						27.11	12.1	20	
Selenium	ND	5.0						0	0	20	
Silver	ND	5.0						0	0	20	
Thallium	ND	5.0						0	0	20	
Vanadium	28.408	5.0						27.40	3.62	20	
Zinc	1033.448	5.0						964.2	6.93	20	

Sample ID: **120472-005A-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **10/29/2011** RunNo: **137988**
Client ID: **1150-102-0.5** Batch ID: **76621** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **10/30/2011** SeqNo: **2267201**

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

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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: 120472
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **120472-005A-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **10/29/2011** RunNo: **137988**
Client ID: **1150-102-0.5** Batch ID: **76621** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **10/30/2011** SeqNo: **2267201**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	108.965	10	125.0	2.119	85.5	44	105				
Arsenic	130.869	5.0	125.0	13.46	93.9	57	103				
Barium	417.786	5.0	125.0	282.9	108	36	134				
Beryllium	126.136	5.0	125.0	0	101	64	106				
Cadmium	121.979	5.0	125.0	4.371	94.1	58	102				
Chromium	152.440	5.0	125.0	29.73	98.2	55	105				
Cobalt	148.938	5.0	125.0	8.152	113	59	105				S
Copper	212.861	10	125.0	97.10	92.6	64	117				
Molybdenum	122.117	5.0	125.0	3.281	95.1	59	108				
Nickel	152.692	5.0	125.0	27.11	100	52	109				
Selenium	108.749	5.0	125.0	0	87.0	56	100				
Silver	122.748	5.0	125.0	0	98.2	65	107				
Thallium	119.468	5.0	125.0	0	95.6	47	100				
Vanadium	151.687	5.0	125.0	27.40	99.4	64	110				
Zinc	1008.737	5.0	125.0	964.2	35.6	37	123				S

Sample ID: **120472-005A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **10/29/2011** RunNo: **137988**
Client ID: **1150-102-0.5** Batch ID: **76621** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **10/30/2011** SeqNo: **2267202**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	93.129	10	125.0	2.119	72.8	44	105	109.0	15.7	20	
Arsenic	114.826	5.0	125.0	13.46	81.1	57	103	130.9	13.1	20	
Barium	384.931	5.0	125.0	282.9	81.7	36	134	417.8	8.19	20	
Beryllium	107.225	5.0	125.0	0	85.8	64	106	126.1	16.2	20	
Cadmium	106.711	5.0	125.0	4.371	81.9	58	102	122.0	13.4	20	
Chromium	136.653	5.0	125.0	29.73	85.5	55	105	152.4	10.9	20	
Cobalt	129.231	5.0	125.0	8.152	96.9	59	105	148.9	14.2	20	
Copper	212.025	10	125.0	97.10	91.9	64	117	212.9	0.393	20	
Molybdenum	106.468	5.0	125.0	3.281	82.5	59	108	122.1	13.7	20	
Nickel	135.754	5.0	125.0	27.11	86.9	52	109	152.7	11.7	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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

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CLIENT: Geocon Consultants, Inc.
Work Order: 120472
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **120472-005A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **10/29/2011** RunNo: **137988**
Client ID: **1150-102-0.5** Batch ID: **76621** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **10/30/2011** SeqNo: **2267202**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	93.773	5.0	125.0	0	75.0	56	100	108.7	14.8	20	
Silver	107.373	5.0	125.0	0	85.9	65	107	122.7	13.4	20	
Thallium	103.720	5.0	125.0	0	83.0	47	100	119.5	14.1	20	
Vanadium	134.180	5.0	125.0	27.40	85.4	64	110	151.7	12.2	20	
Zinc	1106.073	5.0	125.0	964.2	114	37	123	1009	9.21	20	

Qualifiers:

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

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CLIENT: Geocon Consultants, Inc.
Work Order: 120472
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-76632A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **10/31/2011** RunNo: **137993**
Client ID: **PBS** Batch ID: **76632** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **10/31/2011** SeqNo: **2267339**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.058	5.0									J

Sample ID: **LCS-76632** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **10/31/2011** RunNo: **137993**
Client ID: **LCSS** Batch ID: **76632** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **10/31/2011** SeqNo: **2267340**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	278.247	5.0	250.0	0.05824	111	80	120				

Sample ID: **120560-002A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **10/31/2011** RunNo: **137993**
Client ID: **ZZZZZZ** Batch ID: **76632** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **10/31/2011** SeqNo: **2267350**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	44.361	5.0						18.94	80.3	20	R

Sample ID: **120560-002A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **10/31/2011** RunNo: **137993**
Client ID: **ZZZZZZ** Batch ID: **76632** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **10/31/2011** SeqNo: **2267351**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	245.146	5.0	250.0	18.94	90.5	46	116				

Sample ID: **MB-76632B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **10/31/2011** RunNo: **137993**
Client ID: **PBS** Batch ID: **76632** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **10/31/2011** SeqNo: **2267352**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.887	5.0									J

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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: 120472
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **120560-003A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **10/31/2011** RunNo: **137993**
Client ID: **ZZZZZZ** Batch ID: **76632** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **10/31/2011** SeqNo: **2267354**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	22.408	5.0						23.21	3.52	20	

Sample ID: **120560-003A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **10/31/2011** RunNo: **137993**
Client ID: **ZZZZZZ** Batch ID: **76632** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **10/31/2011** SeqNo: **2267355**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	329.673	5.0	250.0	23.21	123	46	116				S

Sample ID: **120560-003A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **10/31/2011** RunNo: **137993**
Client ID: **ZZZZZZ** Batch ID: **76632** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **10/31/2011** SeqNo: **2267356**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	282.447	5.0	250.0	23.21	104	46	116	329.7	15.4	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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

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3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 120472
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI

Sample ID: **MB-76618A** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **10/30/2011** RunNo: **138083**
Client ID: **PBS** Batch ID: **76618** TestNo: **WET DI/ EPA WET** Analysis Date: **11/2/2011** SeqNo: **2269418**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.146	0.50									J

Sample ID: **LCS-76618** SampType: **LCS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **10/30/2011** RunNo: **138083**
Client ID: **LCSS** Batch ID: **76618** TestNo: **WET DI/ EPA WET** Analysis Date: **11/2/2011** SeqNo: **2269419**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.307	0.50	5.000	0.1462	103	80	120				

Sample ID: **120472-008A-DUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **10/30/2011** RunNo: **138083**
Client ID: **1150-102-5.0** Batch ID: **76618** TestNo: **WET DI/ EPA WET** Analysis Date: **11/2/2011** SeqNo: **2269430**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.50						0	0	20	

Sample ID: **120472-008A-MS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **10/30/2011** RunNo: **138083**
Client ID: **1150-102-5.0** Batch ID: **76618** TestNo: **WET DI/ EPA WET** Analysis Date: **11/2/2011** SeqNo: **2269431**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.066	0.50	5.000	0	101	70	130				

Sample ID: **120472-008A-MSD** SampType: **MSD** TestCode: **7420_DI** Units: **mg/L** Prep Date: **10/30/2011** RunNo: **138083**
Client ID: **1150-102-5.0** Batch ID: **76618** TestNo: **WET DI/ EPA WET** Analysis Date: **11/2/2011** SeqNo: **2269432**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.226	0.50	5.000	0	105	70	130	5.066	3.10	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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

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CLIENT: Geocon Consultants, Inc.
Work Order: 120472
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **MB-76509A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **10/26/2011** RunNo: **137938**
Client ID: **PBS** Batch ID: **76509** TestNo: **WET/ EPA 74 WET** Analysis Date: **10/28/2011** SeqNo: **2266201**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.50									

Sample ID: **LCS-76509** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **10/26/2011** RunNo: **137938**
Client ID: **LCSS** Batch ID: **76509** TestNo: **WET/ EPA 74 WET** Analysis Date: **10/28/2011** SeqNo: **2266202**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.927	0.50	5.000	0	98.5	80	120				

Sample ID: **120472-008A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **10/26/2011** RunNo: **137938**
Client ID: **1150-102-5.0** Batch ID: **76509** TestNo: **WET/ EPA 74 WET** Analysis Date: **10/28/2011** SeqNo: **2266211**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.766	1.0						9.951	1.87	20	

Sample ID: **120472-008A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **10/26/2011** RunNo: **137938**
Client ID: **1150-102-5.0** Batch ID: **76509** TestNo: **WET/ EPA 74 WET** Analysis Date: **10/28/2011** SeqNo: **2266212**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	19.258	2.0	5.000	9.951	186	80	120				S

Sample ID: **MB-76509B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **10/26/2011** RunNo: **137938**
Client ID: **PBS** Batch ID: **76509** TestNo: **WET/ EPA 74 WET** Analysis Date: **10/28/2011** SeqNo: **2266213**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.50									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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: 120472
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **120496-004A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **10/26/2011** RunNo: **137938**
Client ID: **ZZZZZZ** Batch ID: **76509** TestNo: **WET/ EPA 74 WET** Analysis Date: **10/28/2011** SeqNo: **2266218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.060	0.50						1.740	16.8	20	

Sample ID: **120496-004A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **10/26/2011** RunNo: **137938**
Client ID: **ZZZZZZ** Batch ID: **76509** TestNo: **WET/ EPA 74 WET** Analysis Date: **10/28/2011** SeqNo: **2266219**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.936	0.50	5.000	1.740	104	80	120				

Sample ID: **120496-004A-MSD** SampType: **MSD** TestCode: **7420_ST** Units: **mg/L** Prep Date: **10/26/2011** RunNo: **137938**
Client ID: **ZZZZZZ** Batch ID: **76509** TestNo: **WET/ EPA 74 WET** Analysis Date: **10/28/2011** SeqNo: **2266220**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.765	0.50	5.000	1.740	100	80	120	6.936	2.50	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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: 120472
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **MB-76579** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **10/28/2011** RunNo: **138035**
Client ID: **PBS** Batch ID: **76579** TestNo: **EPA 7471A** Analysis Date: **10/31/2011** SeqNo: **2268440**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-76579** SampType: **LCS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **10/28/2011** RunNo: **138035**
Client ID: **LCSS** Batch ID: **76579** TestNo: **EPA 7471A** Analysis Date: **10/31/2011** SeqNo: **2268441**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.913	0.10	0.8300	0	110	80	120				

Sample ID: **120472-004A-MS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **10/28/2011** RunNo: **138035**
Client ID: **1150-101-5.0** Batch ID: **76579** TestNo: **EPA 7471A** Analysis Date: **10/31/2011** SeqNo: **2268442**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.881	0.10	0.8300	0.03312	102	70	130				

Sample ID: **120472-004A-MSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **10/28/2011** RunNo: **138035**
Client ID: **1150-101-5.0** Batch ID: **76579** TestNo: **EPA 7471A** Analysis Date: **10/31/2011** SeqNo: **2268443**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.891	0.10	0.8300	0.03312	103	70	130	0.8807	1.20	20	

Sample ID: **120472-004A-DUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **10/28/2011** RunNo: **138035**
Client ID: **1150-101-5.0** Batch ID: **76579** TestNo: **EPA 7471A** Analysis Date: **10/31/2011** SeqNo: **2268445**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.029	0.10						0.03312	0	20	J

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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

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CLIENT: Geocon Consultants, Inc.
Work Order: 120472
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **MB-76580** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **10/28/2011** RunNo: **137940**
Client ID: **PBS** Batch ID: **76580** TestNo: **EPA 7471A** Analysis Date: **10/28/2011** SeqNo: **2266229**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-76580** SampType: **LCS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **10/28/2011** RunNo: **137940**
Client ID: **LCSS** Batch ID: **76580** TestNo: **EPA 7471A** Analysis Date: **10/28/2011** SeqNo: **2266230**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.785	0.10	0.8300	0	94.5	80	120				

Sample ID: **120501-006A-MS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **10/28/2011** RunNo: **137940**
Client ID: **ZZZZZZ** Batch ID: **76580** TestNo: **EPA 7471A** Analysis Date: **10/28/2011** SeqNo: **2266231**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.779	0.10	0.8300	0.01520	92.1	70	130				

Sample ID: **120501-006A-MSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **10/28/2011** RunNo: **137940**
Client ID: **ZZZZZZ** Batch ID: **76580** TestNo: **EPA 7471A** Analysis Date: **10/28/2011** SeqNo: **2266232**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.793	0.10	0.8300	0.01520	93.8	70	130	0.7793	1.78	20	

Sample ID: **120501-006A-DUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **10/28/2011** RunNo: **137940**
Client ID: **ZZZZZZ** Batch ID: **76580** TestNo: **EPA 7471A** Analysis Date: **10/28/2011** SeqNo: **2266234**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.012	0.10						0.01520	0	20	J

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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

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CHAIN OF CUSTODY RECORD

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

FOR LABORATORY USE ONLY

P.O. #:
Logged By: Date: 10/25/11

Method of Transport: Client ☐ ATL ☑ CA OverN ☐ FedEx ☐ Other:

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

Client: Geocon
Attention: Mike Conkle
Address: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip Code: 91504
Tel: 818-841-8388
Fax: 818-841-1704
Project Name: LA-5, LA-110, LA-134 & LA-405 Project #: S9475-06-12
Sampler: Mike Conkle (Signature)

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	10/24/11	1:36		10/24/11	1336
	10/24/11	1416	TODD WA	10/24/11	1416

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Mike Conkle
Print Name Date
Signature

Send Report To:
Attn: Mike Conkle
Co: Geocon Consultants Inc.
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Bill To:
Attn: Mike Conkle
Co: Geocon Consultants Inc.
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Special Instructions/Comments:
CT Contract 07A2729
Filter and preseve water samples at lab. Report MDLs and PQLs

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

Circle or Add Analysis(s) Requested

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

INTE	LAB USE ONLY: Batch #: Lab No.	Sample Description: Sample ID / Location	Date	Time	Total Lead by EPA Method	STLC by (WET) Method	Soluble Lead Test by (DI-WET) Meth	Title 22 metals	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Type	PRESERVATION	REMARKS
	120472-1	1150-101-0.5	10/23/11	0739	x	x	x	x	x				E	1	G J		
	2	1150-101-1.0	10/23/11	0742	x	x	x	x	x				E	1	G J		
	3	1150-101-3.0	10/23/11	0754	x	x	x	x	x				E	1	G J		
	4	1150-101-5.0	10/23/11	0805	x	x	x	x	x				E	1	G J		
	5	1150-102-0.5	10/23/11	1052	x	x	x	x	x				E	1	G J		
	6	1150-102-1.0	10/23/11	1102	x	x	x	x	x				E	1	G J		
	7	1150-102-3.0	10/23/11	1117	x	x	x	x	x				E	1	G J		
	8	1150-102-5.0	10/23/11	1137	x	x	x	x	x				E	1	G J		

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

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

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

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

November 17, 2011

Mike Conkle
Geocon Consultants, Inc.
3303 N. San Fernando Blvd., Suite 100
Burbank, CA 91504
TEL: (818) 841-8388
FAX: (818) 841-1704

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 120472

RE: LA-5, LA-110, LA-134 & LA-405, S9475-06-12

Attention: Mike Conkle

Enclosed are the results for sample(s) received on October 24, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

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

Sincerely,

Eddie F. Rodriguez
Laboratory Director

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

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

CLIENT: Geocon Consultants, Inc.
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-12
Lab Order: 120472

CASE NARRATIVE

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

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: *17-Nov-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1150-101-0.5
Lab Order:	120472	**Collection Date:**	10/23/2011 7:39:00 AM
Project:	LA-5, LA-110, LA-134 & LA-405, S9475-06-	**Matrix:**	SOIL
Lab ID:	120472-001A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ATOMIC ABSORPTION (TCLP)							
EPA3010A			**EPA 1311/ 7420**				
RunID: **AA2_111116A**	QC Batch: **76838**				PrepDate: **11/14/2011**		Analyst: **VV**
Lead	0.52	0.062	0.50		mg/L	1	11/16/2011
PH							
EPA 9045C							
RunID: **WETCHEM_111111A**	QC Batch: **R138272**				PrepDate:		Analyst: **PT**
pH	7.9	0.10	0.10		pH Units	1	11/11/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *17-Nov-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1150-102-0.5
Lab Order:	120472	**Collection Date:**	10/23/2011 10:52:00 AM
Project:	LA-5, LA-110, LA-134 & LA-405, S9475-06-	**Matrix:**	SOIL
Lab ID:	120472-005A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ATOMIC ABSORPTION (TCLP)							
EPA3010A			**EPA 1311/ 7420**				
RunID: **AA2_111116A**	QC Batch: **76838**				PrepDate: **11/14/2011**		Analyst: **VV**
Lead	2.1	0.062	0.50		mg/L	1	11/16/2011
PH							
EPA 9045C							
RunID: **WETCHEM_111111A**	QC Batch: **R138272**				PrepDate:		Analyst: **PT**
pH	7.1	0.10	0.10		pH Units	1	11/11/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *17-Nov-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1150-102-1.0
Lab Order:	120472	**Collection Date:**	10/23/2011 11:02:00 AM
Project:	LA-5, LA-110, LA-134 & LA-405, S9475-06-	**Matrix:**	SOIL
Lab ID:	120472-006A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ATOMIC ABSORPTION (TCLP)							
	EPA3010A		**EPA 1311/ 7420**				
RunID: **AA2_111116A**	QC Batch: **76838**				PrepDate:	**11/14/2011**	Analyst: **VV**
Lead	0.65	0.062	0.50		mg/L	1	11/16/2011

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	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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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *17-Nov-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1150-102-3.0
Lab Order:	120472	**Collection Date:**	10/23/2011 11:17:00 AM
Project:	LA-5, LA-110, LA-134 & LA-405, S9475-06-	**Matrix:**	SOIL
Lab ID:	120472-007A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ATOMIC ABSORPTION (TCLP)							
	EPA3010A		**EPA 1311/ 7420**				
RunID: **AA2_111116A**	QC Batch: **76838**				PrepDate:	**11/14/2011**	Analyst: **VV**
Lead	2.0	0.062	0.50		mg/L	1	11/16/2011

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	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: 120472
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **MB-76838** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **11/14/2011** RunNo: **138302**
Client ID: **PBS** Batch ID: **76838** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **11/16/2011** SeqNo: **2273108**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.233	0.50									J

Sample ID: **MB-76837A TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **11/14/2011** RunNo: **138302**
Client ID: **PBS** Batch ID: **76838** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **11/16/2011** SeqNo: **2273109**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.104	0.50									J

Sample ID: **LCS-76838** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **11/14/2011** RunNo: **138302**
Client ID: **LCSS** Batch ID: **76838** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **11/16/2011** SeqNo: **2273110**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.135	0.50	1.000	0.2333	90.2	80	120				

Sample ID: **120472-007A-DUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **11/14/2011** RunNo: **138302**
Client ID: **1150-102-3.0** Batch ID: **76838** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **11/16/2011** SeqNo: **2273115**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.087	0.50						2.044	2.10	20	

Sample ID: **120472-007A-MS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **11/14/2011** RunNo: **138302**
Client ID: **1150-102-3.0** Batch ID: **76838** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **11/16/2011** SeqNo: **2273116**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.474	0.50	2.500	2.044	97.2	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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: 120472
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **120472-007A-MSD** SampType: **MSD** TestCode: **7420_TC** Units: **mg/L** Prep Date: **11/14/2011** RunNo: **138302**
Client ID: **1150-102-3.0** Batch ID: **76838** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **11/16/2011** SeqNo: **2273117**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.553	0.50	2.500	2.044	100	70	130	4.474	1.76	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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
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CLIENT: Geocon Consultants, Inc.
Work Order: 120472
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: **120472-005ADUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: RunNo: **138272**
Client ID: **1150-102-0.5** Batch ID: **R138272** TestNo: **EPA 9045C** Analysis Date: **11/11/2011** SeqNo: **2272811**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.270	0.10						7.120	2.08	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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

November 28, 2011

Mike Conkle
Geocon Consultants, Inc.
3303 N. San Fernando Blvd., Suite 100
Burbank, CA 91504

TEL: (818) 841-8388
FAX: (818) 841-1704

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 120472

RE: LA-5, LA-110, LA-134 & LA-405, S9475-06-12

Attention: Mike Conkle

Enclosed are the results for sample(s) received on October 24, 2011 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,

for Eddie F. Rodriguez
Laboratory Director

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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: *28-Nov-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1150-101-1.0
Lab Order:	120472	**Collection Date:**	10/23/2011 7:42:00 AM
Project:	LA-5, LA-110, LA-134 & LA-405, S9475-06-	**Matrix:**	SOIL
Lab ID:	120472-002A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ATOMIC ABSORPTION (TCLP)							
	EPA3010A		**EPA 1311/ 7420**				
RunID: **AA2_111123A**	QC Batch: **76892**				PrepDate:	**11/23/2011**	Analyst: **VV**
Lead	0.29	0.062	0.50	J	mg/L	1	11/23/2011

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	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: 120472
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **MB-76892** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **11/23/2011** RunNo: **138372**
Client ID: **PBS** Batch ID: **76892** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **11/23/2011** SeqNo: **2274225**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.071	0.50									J

Sample ID: **MB-76891 TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **11/23/2011** RunNo: **138372**
Client ID: **PBS** Batch ID: **76892** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **11/23/2011** SeqNo: **2274226**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.137	0.50									J

Sample ID: **LCS-76892** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **11/23/2011** RunNo: **138372**
Client ID: **LCSS** Batch ID: **76892** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **11/23/2011** SeqNo: **2274227**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.096	0.50	1.000	0.07131	103	80	120				

Sample ID: **120363-037A-DUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **11/23/2011** RunNo: **138372**
Client ID: **ZZZZZZ** Batch ID: **76892** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **11/23/2011** SeqNo: **2274234**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.088	0.50						0.1137	0	20	J

Sample ID: **120363-037A-MS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **11/23/2011** RunNo: **138372**
Client ID: **ZZZZZZ** Batch ID: **76892** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **11/23/2011** SeqNo: **2274235**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.020	0.50	2.500	0.1137	116	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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: 120472
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **120363-037A-MSD** SampType: **MSD** TestCode: **7420_TC** Units: **mg/L** Prep Date: **11/23/2011** RunNo: **138372**
Client ID: **ZZZZZZ** Batch ID: **76892** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **11/23/2011** SeqNo: **2274236**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.056	0.50	2.500	0.1137	118	70	130	3.020	1.19	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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

December 20, 2011

Mike Conkle
Geocon Consultants, Inc.
3303 N. San Fernando Blvd., Suite 100
Burbank, CA 91504
TEL: (818) 841-8388
FAX: (818) 841-1704

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 120556

RE: LA-5, LA-110, LA-134 & LA-405, S9475-06-12

Attention: Mike Conkle

Enclosed are the results for sample(s) received on October 28, 2011 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 amended report. Please disregard all previous documentation that corresponds to the page(s) enclosed.

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,

for Eddie F. Rodriguez
Laboratory Director

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CLIENT: Geocon Consultants, Inc.
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-12
Lab Order: 120556

CASE NARRATIVE

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Analytical Comments for EPA 6010B

Sample 120536-130A-DUP, RPD for Sample Duplicate (DUP) is outside criteria; however, the Laboratory Control Sample (LCS) validated the analytical batch.

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: *20-Dec-11*

CLIENT: Geocon Consultants, Inc.
Lab Order: 120556
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-
Lab ID: 120556-001A

Client Sample ID: 1150-103-0.5
Collection Date: 10/27/2011 1:37:00 PM
Matrix: SOIL

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_111102C**	QC Batch: **76682**				PrepDate:	**11/1/2011**	Analyst: **CBB**
Antimony	0.41	0.16	2.0	J	mg/Kg	1	11/2/2011 05:13
Arsenic	ND	0.20	1.0		mg/Kg	1	11/2/2011 05:13
Barium	57	0.056	1.0		mg/Kg	1	11/2/2011 05:13
Beryllium	ND	0.042	1.0		mg/Kg	1	11/2/2011 05:13
Cadmium	0.69	0.043	1.0	J	mg/Kg	1	11/2/2011 05:13
Chromium	11	0.13	1.0		mg/Kg	1	11/2/2011 05:13
Cobalt	6.9	0.11	1.0		mg/Kg	1	11/2/2011 05:13
Copper	17	0.18	2.0		mg/Kg	1	11/2/2011 05:13
Molybdenum	0.36	0.097	1.0	J	mg/Kg	1	11/2/2011 05:13
Nickel	7.2	0.11	1.0		mg/Kg	1	11/2/2011 05:13
Selenium	ND	0.28	1.0		mg/Kg	1	11/2/2011 05:13
Silver	ND	0.042	1.0		mg/Kg	1	11/2/2011 05:13
Thallium	ND	0.098	1.0		mg/Kg	1	11/2/2011 05:13
Vanadium	21	0.088	1.0		mg/Kg	1	11/2/2011 05:13
Zinc	130	0.13	1.0		mg/Kg	1	11/2/2011 05:13
LEAD BY ICP							
	EPA 3050M		**EPA 6010B**				
RunID: **ICP6_111103G**	QC Batch: **76726**				PrepDate:	**11/2/2011**	Analyst: **SRB**
Lead	85	0.042	5.0		mg/Kg	1	11/3/2011 05:20
LEAD BY ATOMIC ABSORPTION							
	WET		**WET DI/ EPA 7420**				
RunID: **AA2_111108A**	QC Batch: **76676**				PrepDate:	**11/1/2011**	Analyst: **VV**
Lead	0.13	0.062	0.50	J	mg/L	1	11/8/2011 03:59
LEAD BY ATOMIC ABSORPTION (STLC)							
	WET		**WET/ EPA 7420**				
RunID: **AA2_111102B**	QC Batch: **76646**				PrepDate:	**10/31/2011**	Analyst: **VV**
Lead	12	0.12	1.0		mg/L	2	11/2/2011 12:50
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_111102A**	QC Batch: **76680**				PrepDate:	**11/1/2011**	Analyst: **VV**
Mercury	0.059	0.0028	0.10	J	mg/Kg	1	11/2/2011 10:40

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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: *20-Dec-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1150-103-1.0
Lab Order:	120556	**Collection Date:**	10/27/2011 1:40:00 PM
Project:	LA-5, LA-110, LA-134 & LA-405, S9475-06-	**Matrix:**	SOIL
Lab ID:	120556-002A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_111102C**	QC Batch: **76682**				PrepDate:	**11/1/2011**	Analyst: **CBB**
Antimony	ND	0.16	2.0		mg/Kg	1	11/2/2011 05:17
Arsenic	ND	0.20	1.0		mg/Kg	1	11/2/2011 05:17
Barium	75	0.056	1.0		mg/Kg	1	11/2/2011 05:17
Beryllium	ND	0.042	1.0		mg/Kg	1	11/2/2011 05:17
Cadmium	0.56	0.043	1.0	J	mg/Kg	1	11/2/2011 05:17
Chromium	9.2	0.13	1.0		mg/Kg	1	11/2/2011 05:17
Cobalt	6.8	0.11	1.0		mg/Kg	1	11/2/2011 05:17
Copper	6.2	0.18	2.0		mg/Kg	1	11/2/2011 05:17
Molybdenum	ND	0.097	1.0		mg/Kg	1	11/2/2011 05:17
Nickel	5.3	0.11	1.0		mg/Kg	1	11/2/2011 05:17
Selenium	ND	0.28	1.0		mg/Kg	1	11/2/2011 05:17
Silver	ND	0.042	1.0		mg/Kg	1	11/2/2011 05:17
Thallium	ND	0.098	1.0		mg/Kg	1	11/2/2011 05:17
Vanadium	22	0.088	1.0		mg/Kg	1	11/2/2011 05:17
Zinc	77	0.13	1.0		mg/Kg	1	11/2/2011 05:17
LEAD BY ICP							
	EPA 3050M		**EPA 6010B**				
RunID: **ICP6_111103G**	QC Batch: **76726**				PrepDate:	**11/2/2011**	Analyst: **SRB**
Lead	100	0.042	5.0		mg/Kg	1	11/3/2011 05:22
LEAD BY ATOMIC ABSORPTION							
	WET		**WET DI/ EPA 7420**				
RunID: **AA2_111108A**	QC Batch: **76676**				PrepDate:	**11/1/2011**	Analyst: **VV**
Lead	0.31	0.062	0.50	J	mg/L	1	11/8/2011 04:00
LEAD BY ATOMIC ABSORPTION (STLC)							
	WET		**WET/ EPA 7420**				
RunID: **AA2_111102B**	QC Batch: **76646**				PrepDate:	**10/31/2011**	Analyst: **VV**
Lead	9.0	0.062	0.50		mg/L	1	11/2/2011 12:50
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_111102A**	QC Batch: **76680**				PrepDate:	**11/1/2011**	Analyst: **VV**
Mercury	0.61	0.0028	0.10		mg/Kg	1	11/2/2011 10:44

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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

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ANALYTICAL RESULTS

Print Date: *20-Dec-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1150-103-3.0
Lab Order:	120556	**Collection Date:**	10/27/2011 1:55:00 PM
Project:	LA-5, LA-110, LA-134 & LA-405, S9475-06-	**Matrix:**	SOIL
Lab ID:	120556-003A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_111102C**	QC Batch: **76682**				PrepDate:	**11/1/2011**	Analyst: **CBB**
Antimony	ND	0.16	2.0		mg/Kg	1	11/2/2011 05:20
Arsenic	ND	0.20	1.0		mg/Kg	1	11/2/2011 05:20
Barium	40	0.056	1.0		mg/Kg	1	11/2/2011 05:20
Beryllium	ND	0.042	1.0		mg/Kg	1	11/2/2011 05:20
Cadmium	0.51	0.043	1.0	J	mg/Kg	1	11/2/2011 05:20
Chromium	14	0.13	1.0		mg/Kg	1	11/2/2011 05:20
Cobalt	7.9	0.11	1.0		mg/Kg	1	11/2/2011 05:20
Copper	3.6	0.18	2.0		mg/Kg	1	11/2/2011 05:20
Molybdenum	ND	0.097	1.0		mg/Kg	1	11/2/2011 05:20
Nickel	8.9	0.11	1.0		mg/Kg	1	11/2/2011 05:20
Selenium	ND	0.28	1.0		mg/Kg	1	11/2/2011 05:20
Silver	ND	0.042	1.0		mg/Kg	1	11/2/2011 05:20
Thallium	ND	0.098	1.0		mg/Kg	1	11/2/2011 05:20
Vanadium	22	0.088	1.0		mg/Kg	1	11/2/2011 05:20
Zinc	56	0.13	1.0		mg/Kg	1	11/2/2011 05:20
LEAD BY ICP							
	EPA 3050M		**EPA 6010B**				
RunID: **ICP6_111103G**	QC Batch: **76726**				PrepDate:	**11/2/2011**	Analyst: **SRB**
Lead	18	0.042	5.0		mg/Kg	1	11/3/2011 05:23
LEAD BY ATOMIC ABSORPTION							
	WET		**WET DI/ EPA 7420**				
RunID: **AA2_111108A**	QC Batch: **76676**				PrepDate:	**11/1/2011**	Analyst: **VV**
Lead	ND	0.062	0.50		mg/L	1	11/8/2011 04:00
LEAD BY ATOMIC ABSORPTION (STLC)							
	WET		**WET/ EPA 7420**				
RunID: **AA2_111102B**	QC Batch: **76646**				PrepDate:	**10/31/2011**	Analyst: **VV**
Lead	1.7	0.062	0.50		mg/L	1	11/2/2011 12:51
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_111102A**	QC Batch: **76680**				PrepDate:	**11/1/2011**	Analyst: **VV**
Mercury	0.066	0.0028	0.10	J	mg/Kg	1	11/2/2011 10:46

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *20-Dec-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1150-103-5.0
Lab Order:	120556	**Collection Date:**	10/27/2011 2:20:00 PM
Project:	LA-5, LA-110, LA-134 & LA-405, S9475-06-	**Matrix:**	SOIL
Lab ID:	120556-004A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_111102C**	QC Batch: **76682**				PrepDate:	**11/1/2011**	Analyst: **CBB**
Antimony	0.22	0.16	2.0	J	mg/Kg	1	11/2/2011 05:30
Arsenic	ND	0.20	1.0		mg/Kg	1	11/2/2011 05:30
Barium	36	0.056	1.0		mg/Kg	1	11/2/2011 05:30
Beryllium	ND	0.042	1.0		mg/Kg	1	11/2/2011 05:30
Cadmium	0.66	0.043	1.0	J	mg/Kg	1	11/2/2011 05:30
Chromium	12	0.13	1.0		mg/Kg	1	11/2/2011 05:30
Cobalt	6.7	0.11	1.0		mg/Kg	1	11/2/2011 05:30
Copper	2.0	0.18	2.0	J	mg/Kg	1	11/2/2011 05:30
Molybdenum	ND	0.097	1.0		mg/Kg	1	11/2/2011 05:30
Nickel	6.6	0.11	1.0		mg/Kg	1	11/2/2011 05:30
Selenium	ND	0.28	1.0		mg/Kg	1	11/2/2011 05:30
Silver	ND	0.042	1.0		mg/Kg	1	11/2/2011 05:30
Thallium	ND	0.098	1.0		mg/Kg	1	11/2/2011 05:30
Vanadium	20	0.088	1.0		mg/Kg	1	11/2/2011 05:30
Zinc	61	0.13	1.0		mg/Kg	1	11/2/2011 05:30
LEAD BY ICP							
	EPA 3050M		**EPA 6010B**				
RunID: **ICP6_111103G**	QC Batch: **76726**				PrepDate:	**11/2/2011**	Analyst: **SRB**
Lead	30	0.042	5.0		mg/Kg	1	11/3/2011 05:23
LEAD BY ATOMIC ABSORPTION							
	WET		**WET DI/ EPA 7420**				
RunID: **AA2_111108A**	QC Batch: **76676**				PrepDate:	**11/1/2011**	Analyst: **VV**
Lead	ND	0.062	0.50		mg/L	1	11/8/2011 04:00
LEAD BY ATOMIC ABSORPTION (STLC)							
	WET		**WET/ EPA 7420**				
RunID: **AA2_111102B**	QC Batch: **76646**				PrepDate:	**10/31/2011**	Analyst: **VV**
Lead	1.9	0.062	0.50		mg/L	1	11/2/2011 12:51
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA1_111102A**	QC Batch: **76680**				PrepDate:	**11/1/2011**	Analyst: **VV**
Mercury	0.067	0.0028	0.10	J	mg/Kg	1	11/2/2011 10:49

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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: 120556
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-76682** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **11/1/2011** RunNo: **138118**
Client ID: **PBS** Batch ID: **76682** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **11/2/2011** SeqNo: **2270237**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.158	2.0									J
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	0.138	1.0									J
Cobalt	ND	1.0									
Copper	ND	2.0									
Molybdenum	ND	1.0									
Nickel	0.031	1.0									J
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	ND	1.0									

Sample ID: **LCS-76682** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **11/1/2011** RunNo: **138118**
Client ID: **LCSS** Batch ID: **76682** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **11/2/2011** SeqNo: **2270238**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	47.140	2.0	50.00	0.1576	94.0	80	120				
Arsenic	44.768	1.0	50.00	0	89.5	80	120				
Barium	49.424	1.0	50.00	0	98.8	80	120				
Beryllium	50.267	1.0	50.00	0	101	80	120				
Cadmium	46.787	1.0	50.00	0	93.6	80	120				
Chromium	46.957	1.0	50.00	0.1376	93.6	80	120				
Cobalt	48.654	1.0	50.00	0	97.3	80	120				
Copper	49.233	2.0	50.00	0	98.5	80	120				

Qualifiers:

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

CLIENT: Geocon Consultants, Inc.
Work Order: 120556
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **LCS-76682** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **11/1/2011** RunNo: **138118**
Client ID: **LCSS** Batch ID: **76682** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **11/2/2011** SeqNo: **2270238**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	48.926	1.0	50.00	0	97.9	80	120				
Nickel	48.272	1.0	50.00	0.03127	96.5	80	120				
Selenium	43.713	1.0	50.00	0	87.4	80	120				
Silver	46.087	1.0	50.00	0	92.2	80	120				
Thallium	46.547	1.0	50.00	0	93.1	80	120				
Vanadium	50.069	1.0	50.00	0	100	80	120				
Zinc	47.417	1.0	50.00	0	94.8	80	120				

Sample ID: **120524-006A-DUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **11/1/2011** RunNo: **138118**
Client ID: **ZZZZZZ** Batch ID: **76682** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **11/2/2011** SeqNo: **2270243**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.195	2.0						0	0	20	J
Arsenic	ND	1.0						0	0	20	
Barium	35.913	1.0						37.92	5.45	20	
Beryllium	ND	1.0						0	0	20	
Cadmium	0.358	1.0						0.3717	0	20	J
Chromium	9.769	1.0						10.26	4.90	20	
Cobalt	5.761	1.0						6.103	5.76	20	
Copper	11.430	2.0						10.64	7.18	20	
Molybdenum	ND	1.0						0	0	20	
Nickel	7.554	1.0						8.122	7.24	20	
Selenium	ND	1.0						0	0	20	
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	19.001	1.0						19.96	4.94	20	
Zinc	36.094	1.0						35.59	1.41	20	

Qualifiers:

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

Advanced Technology Laboratories
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CLIENT: Geocon Consultants, Inc.
Work Order: 120556
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **120524-006A-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **11/1/2011** RunNo: **138118**
Client ID: **ZZZZZZ** Batch ID: **76682** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **11/2/2011** SeqNo: **2270244**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	97.451	2.0	125.0	0	78.0	44	105				
Arsenic	96.523	1.0	125.0	0	77.2	57	103				
Barium	142.556	1.0	125.0	37.92	83.7	36	134				
Beryllium	106.811	1.0	125.0	0	85.4	64	106				
Cadmium	95.398	1.0	125.0	0.3717	76.0	58	102				
Chromium	105.486	1.0	125.0	10.26	76.2	55	105				
Cobalt	106.155	1.0	125.0	6.103	80.0	59	105				
Copper	121.811	2.0	125.0	10.64	88.9	64	117				
Molybdenum	100.636	1.0	125.0	0	80.5	59	108				
Nickel	105.454	1.0	125.0	8.122	77.9	52	109				
Selenium	94.026	1.0	125.0	0	75.2	56	100				
Silver	106.301	1.0	125.0	0	85.0	65	107				
Thallium	91.953	1.0	125.0	0	73.6	47	100				
Vanadium	127.490	1.0	125.0	19.96	86.0	64	110				
Zinc	129.457	1.0	125.0	35.59	75.1	37	123				

Sample ID: **120524-006A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **11/1/2011** RunNo: **138118**
Client ID: **ZZZZZZ** Batch ID: **76682** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **11/2/2011** SeqNo: **2270245**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	86.790	2.0	125.0	0	69.4	44	105	97.45	11.6	20	
Arsenic	86.215	1.0	125.0	0	69.0	57	103	96.52	11.3	20	
Barium	123.837	1.0	125.0	37.92	68.7	36	134	142.6	14.1	20	
Beryllium	96.116	1.0	125.0	0	76.9	64	106	106.8	10.5	20	
Cadmium	85.953	1.0	125.0	0.3717	68.5	58	102	95.40	10.4	20	
Chromium	94.829	1.0	125.0	10.26	67.7	55	105	105.5	10.6	20	
Cobalt	94.992	1.0	125.0	6.103	71.1	59	105	106.2	11.1	20	
Copper	107.734	2.0	125.0	10.64	77.7	64	117	121.8	12.3	20	
Molybdenum	89.808	1.0	125.0	0	71.8	59	108	100.6	11.4	20	
Nickel	94.924	1.0	125.0	8.122	69.4	52	109	105.5	10.5	20	

Qualifiers:

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

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CLIENT: Geocon Consultants, Inc.
Work Order: 120556
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **120524-006A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **11/1/2011** RunNo: **138118**
Client ID: **ZZZZZZ** Batch ID: **76682** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **11/2/2011** SeqNo: **2270245**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	84.205	1.0	125.0	0	67.4	56	100	94.03	11.0	20	
Silver	95.344	1.0	125.0	0	76.3	65	107	106.3	10.9	20	
Thallium	83.036	1.0	125.0	0	66.4	47	100	91.95	10.2	20	
Vanadium	113.018	1.0	125.0	19.96	74.4	64	110	127.5	12.0	20	
Zinc	115.086	1.0	125.0	35.59	63.6	37	123	129.5	11.8	20	

Qualifiers:

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

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CLIENT: Geocon Consultants, Inc.
Work Order: 120556
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-76726A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **11/2/2011** RunNo: **138144**
Client ID: **PBS** Batch ID: **76726** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **11/3/2011** SeqNo: **2270890**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.154	5.0									J

Sample ID: **LCS-76726** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **11/2/2011** RunNo: **138144**
Client ID: **LCSS** Batch ID: **76726** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **11/3/2011** SeqNo: **2270891**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	258.504	5.0	250.0	0.1542	103	80	120				

Sample ID: **120536-130A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **11/2/2011** RunNo: **138144**
Client ID: **ZZZZZZ** Batch ID: **76726** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **11/3/2011** SeqNo: **2270902**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	8.822	5.0						6.011	37.9	20	R

Sample ID: **120536-130A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **11/2/2011** RunNo: **138144**
Client ID: **ZZZZZZ** Batch ID: **76726** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **11/3/2011** SeqNo: **2270903**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	196.563	5.0	250.0	6.011	76.2	46	116				

Sample ID: **MB-76726B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **11/2/2011** RunNo: **138144**
Client ID: **PBS** Batch ID: **76726** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **11/3/2011** SeqNo: **2270904**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.044	5.0									J

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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
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CLIENT: Geocon Consultants, Inc.
Work Order: 120556
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **120556-004A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **11/2/2011** RunNo: **138144**
Client ID: **1150-103-5.0** Batch ID: **76726** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **11/3/2011** SeqNo: **2270915**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	28.685	5.0						29.96	4.35	20	

Sample ID: **120556-004A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **11/2/2011** RunNo: **138144**
Client ID: **1150-103-5.0** Batch ID: **76726** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **11/3/2011** SeqNo: **2270916**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	255.017	5.0	250.0	29.96	90.0	46	116				

Sample ID: **120556-004A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **11/2/2011** RunNo: **138144**
Client ID: **1150-103-5.0** Batch ID: **76726** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **11/3/2011** SeqNo: **2270917**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	216.203	5.0	250.0	29.96	74.5	46	116	255.0	16.5	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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: 120556
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI

Sample ID: **MB-76676A** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: **11/1/2011** RunNo: **138227**
Client ID: **PBS** Batch ID: **76676** TestNo: **WET DI/ EPA WET** Analysis Date: **11/8/2011** SeqNo: **2272389**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.50									

Sample ID: **LCS-76676** SampType: **LCS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **11/1/2011** RunNo: **138227**
Client ID: **LCSS** Batch ID: **76676** TestNo: **WET DI/ EPA WET** Analysis Date: **11/8/2011** SeqNo: **2272390**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.096	0.50	5.000	0	102	80	120				

Sample ID: **120556-004A-DUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: **11/1/2011** RunNo: **138227**
Client ID: **1150-103-5.0** Batch ID: **76676** TestNo: **WET DI/ EPA WET** Analysis Date: **11/8/2011** SeqNo: **2272395**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.50						0	0	20	

Sample ID: **120556-004A-MS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: **11/1/2011** RunNo: **138227**
Client ID: **1150-103-5.0** Batch ID: **76676** TestNo: **WET DI/ EPA WET** Analysis Date: **11/8/2011** SeqNo: **2272396**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.360	0.50	5.000	0	107	70	130				

Sample ID: **120556-004A-MSD** SampType: **MSD** TestCode: **7420_DI** Units: **mg/L** Prep Date: **11/1/2011** RunNo: **138227**
Client ID: **1150-103-5.0** Batch ID: **76676** TestNo: **WET DI/ EPA WET** Analysis Date: **11/8/2011** SeqNo: **2272397**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.410	0.50	5.000	0	108	70	130	5.360	0.921	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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: 120556
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **MB-76646A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: **10/31/2011** RunNo: **138095**
Client ID: **PBS** Batch ID: **76646** TestNo: **WET/ EPA 74 WET** Analysis Date: **11/2/2011** SeqNo: **2269656**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.50									

Sample ID: **LCS-76646** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **10/31/2011** RunNo: **138095**
Client ID: **LCSS** Batch ID: **76646** TestNo: **WET/ EPA 74 WET** Analysis Date: **11/2/2011** SeqNo: **2269657**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.135	0.50	5.000	0	103	80	120				

Sample ID: **120560-002A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **10/31/2011** RunNo: **138095**
Client ID: **ZZZZZZ** Batch ID: **76646** TestNo: **WET/ EPA 74 WET** Analysis Date: **11/2/2011** SeqNo: **2269666**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.082	0.50						0.9108	17.2	20	

Sample ID: **120560-002A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **10/31/2011** RunNo: **138095**
Client ID: **ZZZZZZ** Batch ID: **76646** TestNo: **WET/ EPA 74 WET** Analysis Date: **11/2/2011** SeqNo: **2269667**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.825	0.50	5.000	0.9108	98.3	80	120				

Sample ID: **120560-002A-MSD** SampType: **MSD** TestCode: **7420_ST** Units: **mg/L** Prep Date: **10/31/2011** RunNo: **138095**
Client ID: **ZZZZZZ** Batch ID: **76646** TestNo: **WET/ EPA 74 WET** Analysis Date: **11/2/2011** SeqNo: **2269668**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.970	0.50	5.000	0.9108	101	80	120	5.825	2.46	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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: 120556
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **MB-76680** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **11/1/2011** RunNo: **138079**
Client ID: **PBS** Batch ID: **76680** TestNo: **EPA 7471A** Analysis Date: **11/2/2011** SeqNo: **2269324**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-76680** SampType: **LCS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **11/1/2011** RunNo: **138079**
Client ID: **LCSS** Batch ID: **76680** TestNo: **EPA 7471A** Analysis Date: **11/2/2011** SeqNo: **2269325**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.747	0.10	0.8300	0	90.1	80	120				

Sample ID: **120556-001A-MS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **11/1/2011** RunNo: **138079**
Client ID: **1150-103-0.5** Batch ID: **76680** TestNo: **EPA 7471A** Analysis Date: **11/2/2011** SeqNo: **2269326**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.809	0.10	0.8300	0.05863	90.4	70	130				

Sample ID: **120556-001A-MSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **11/1/2011** RunNo: **138079**
Client ID: **1150-103-0.5** Batch ID: **76680** TestNo: **EPA 7471A** Analysis Date: **11/2/2011** SeqNo: **2269327**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.840	0.10	0.8300	0.05863	94.2	70	130	0.8090	3.81	20	

Sample ID: **120556-001A-DUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **11/1/2011** RunNo: **138079**
Client ID: **1150-103-0.5** Batch ID: **76680** TestNo: **EPA 7471A** Analysis Date: **11/2/2011** SeqNo: **2269329**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.062	0.10						0.05863	0	20	J

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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

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

FOR LABORATORY USE ONLY

P.O. #: _____
Logged By: _____ Date: 10/28/11

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

Sample Condition Upon Receipt:
1. CHILLED 5.2 Y ☑ N ☐
2. HEADSPACE (VOA) Y ☐ N ☐ M
3. CONTAINER INTACT Y ☑ N ☐
4. SEALED Y ☐ N ☑
5. # OF SPLS MATCH COC Y ☑ N ☐
6. PRESERVED Y ☐ N ☑

Client: Geocon
Attention: Mike Conkle
Address: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip Code: 91504
Tel: 818-841-8388
Fax: 818-841-1704

Project Name: LA-5, LA-110, LA-134 & LA-405 Project #: S9475-06-12 Sampler: Mike Alcoto (Signature) [signature]

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Mike Alcoto	10/28/11	1248	FEDEX	10/28/11	1248
FEDEX	10/28/11	1424	Martin	10/28/11	1424

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Mike Conkle 10/28/11
Print Name Date
Mike Conkle
Signature

Send Report To:
Attn: Mike Conkle
Co: Geocon Consultants Inc.
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Bill To:
Attn: Mike Conkle
Co: Geocon Consultants Inc.
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Special Instructions/Comments:
CT Contract 07A2729
Filter and preseve water samples at lab. Report MDLs and PQLs

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

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

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

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

LAB USE ONLY: Batch #: / Lab No.	Sample ID / Location	Date	Time	Total Lead by EPA Method 6010	STLC by (WET) Method	Soluble Lead Test by (DI-WET) Meth	Title 22 metals	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Type	PRESERVATION	REMARKS
1205560-01	1150-103-0.5	10/27/11	1337	x	x	x	x	x				E	1	G J		
2	1150-103-1.0	10/27/11	1340	x	x	x	x	x				E	1	G J		
3	1150-103-3.0	10/27/11	1355	x	x	x	x	x				E	1	G J		
4	1150-103-5.0	10/27/11	1420	x	x	x	x	x				E	1	G J		

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

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

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

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

November 17, 2011

Mike Conkle
Geocon Consultants, Inc.
3303 N. San Fernando Blvd., Suite 100
Burbank, CA 91504
TEL: (818) 841-8388
FAX: (818) 841-1704

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 120556

RE: LA-5, LA-110, LA-134 & LA-405, S9475-06-12

Attention: Mike Conkle

Enclosed are the results for sample(s) received on October 28, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

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

Sincerely,

Eddie F. Rodriguez
Laboratory Director

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

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

CLIENT: Geocon Consultants, Inc.
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-12
Lab Order: 120556

CASE NARRATIVE

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Analytical Comments for Method 7420

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteriafor samples 120556-002AMS and 120556-002AMSD; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

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: *17-Nov-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1150-103-1.0
Lab Order:	120556	**Collection Date:**	10/27/2011 1:40:00 PM
Project:	LA-5, LA-110, LA-134 & LA-405, S9475-06-	**Matrix:**	SOIL
Lab ID:	120556-002A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ATOMIC ABSORPTION (TCLP)							
	EPA3010A		**EPA 1311/ 7420**				
RunID: **AA2_111116B**	QC Batch: **76846**				PrepDate:	**11/15/2011**	Analyst: **VV**
Lead	0.27	0.062	0.50	J	mg/L	1	11/16/2011
PH							
			EPA 9045C				
RunID: **WETCHEM_111111A**	QC Batch: **R138272**				PrepDate:		Analyst: **PT**
pH	8.3	0.10	0.10		pH Units	1	11/11/2011

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	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: 120556
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **MB-76846** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **11/15/2011** RunNo: **138303**
Client ID: **PBS** Batch ID: **76846** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **11/16/2011** SeqNo: **2273118**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.50									

Sample ID: **MB-76843A TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **11/15/2011** RunNo: **138303**
Client ID: **PBS** Batch ID: **76846** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **11/16/2011** SeqNo: **2273119**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.50									

Sample ID: **LCS-76846** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **11/15/2011** RunNo: **138303**
Client ID: **LCSS** Batch ID: **76846** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **11/16/2011** SeqNo: **2273120**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.042	0.50	1.000	0	104	80	120				

Sample ID: **120556-002A-DUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **11/15/2011** RunNo: **138303**
Client ID: **1150-103-1.0** Batch ID: **76846** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **11/16/2011** SeqNo: **2273126**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.283	0.50						0.2731	0	20	J

Sample ID: **120556-002A-MS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **11/15/2011** RunNo: **138303**
Client ID: **1150-103-1.0** Batch ID: **76846** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **11/16/2011** SeqNo: **2273127**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.324	0.50	2.500	0.2731	242	70	130				S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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: 120556
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **120556-002A-MSD** SampType: **MSD** TestCode: **7420_TC** Units: **mg/L** Prep Date: **11/15/2011** RunNo: **138303**
Client ID: **1150-103-1.0** Batch ID: **76846** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **11/16/2011** SeqNo: **2273128**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.984	0.50	2.500	0.2731	228	70	130	6.324	5.52	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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: 120556
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: **120472-005ADUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: RunNo: **138272**
Client ID: **ZZZZZZ** Batch ID: **R138272** TestNo: **EPA 9045C** Analysis Date: **11/11/2011** SeqNo: **2272811**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.270	0.10						7.120	2.08	20	

Qualifiers:

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

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

November 29, 2011

Mike Conkle
Geocon Consultants, Inc.
3303 N. San Fernando Blvd., Suite 100
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TEL: (818) 841-8388
FAX: (818) 841-1704

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 120473

RE: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

Attention: Mike Conkle

Enclosed are the results for sample(s) received on October 24, 2011 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 amended report. Please disregard all previous documentation that corresponds to the page(s) enclosed.

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

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

Sincerely,

Eddie F. Rodriguez
Laboratory Director

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

CLIENT: Geocon Consultants, Inc.
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-12
Lab Order: 120473

CASE NARRATIVE

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

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ANALYTICAL RESULTS

Print Date: *29-Nov-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1150-100-1
Lab Order:	120473	**Collection Date:**	10/23/2011 12:40:00 PM
Project:	LA-5, LA-110, LA-134 & LA-405, S9475-06-	**Matrix:**	WATER
Lab ID:	120473-001A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ICP							
				EPA 6010B			
RunID: **ICP8_111028A**	QC Batch: **R137933**				PrepDate:		Analyst: **CBB**
Lead	ND	0.00080	0.25		mg/L	1	10/28/2011

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	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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CLIENT: Geocon Consultants, Inc.
Work Order: 120473
Project: LA-5, LA-110, LA-134 & LA-405, S9475-06-1

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPB

Sample ID: **MB-76556** SampType: **MBLK** TestCode: **6010_WPB** Units: **mg/L** Prep Date: RunNo: **137933**
Client ID: **PBW** Batch ID: **R137933** TestNo: **EPA 6010B** Analysis Date: **10/28/2011** SeqNo: **2266062**

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

Sample ID: **LCS-76556** SampType: **LCS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: RunNo: **137933**
Client ID: **LCSW** Batch ID: **R137933** TestNo: **EPA 6010B** Analysis Date: **10/28/2011** SeqNo: **2266063**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.025	0.25	1.000	0	102	85	115				

Sample ID: **120485-007A-DUP** SampType: **DUP** TestCode: **6010_WPB** Units: **mg/L** Prep Date: RunNo: **137933**
Client ID: **ZZZZZZ** Batch ID: **R137933** TestNo: **EPA 6010B** Analysis Date: **10/28/2011** SeqNo: **2266069**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0.0008178	0	20	

Sample ID: **120485-007A-MS** SampType: **MS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: RunNo: **137933**
Client ID: **ZZZZZZ** Batch ID: **R137933** TestNo: **EPA 6010B** Analysis Date: **10/28/2011** SeqNo: **2266070**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.464	0.25	2.500	0.0008178	98.5	78	117				

Sample ID: **120485-007A-MSD** SampType: **MSD** TestCode: **6010_WPB** Units: **mg/L** Prep Date: RunNo: **137933**
Client ID: **ZZZZZZ** Batch ID: **R137933** TestNo: **EPA 6010B** Analysis Date: **10/28/2011** SeqNo: **2266071**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.389	0.25	2.500	0.0008178	95.5	78	117	2.464	3.09	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	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

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CHAIN OF CUSTODY RECORD

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

FOR LABORATORY USE ONLY

P.O. #:
Logged By: Date: 10/25/11

Method of Transport: Client ☐ ATL ☑ CA OverN ☐ FedEx ☐ Other:

Sample Condition Upon Receipt
1. CHILLED 5.2 Y ☑ N ☐
2. HEADSPACE (VOA) Y ☐ N ☐
3. CONTAINER INTACT Y ☑ N ☐
4. SEALED Y ☐ N ☑
5. # OF SPLS MATCH COC Y ☑ N ☐
6. PRESERVED Y ☐ N ☑

Client: Geocon
Attention: Mike Conkle
Address: 3303 N. San Fernando Blvd Suite 100
City: Burbank State: CA Zip Code: 91504
Tel: 818-841-8388
Fax: 818-841-1704
Project Name: LA-5, LA-110, LA-134 & LA-405 Project #: S9475-06-12 MKA
Sampler: Mike Alton (Signature)

Relinquished by: (Signature and Printed Name)	Date: 10/24/11	Time: 1:30	Received by: (Signature and Printed Name)	Date: 10/24/11	Time: 1:30
Relinquished by: (Signature and Printed Name)	Date: 10/24/11	Time: 1410	Received by: (Signature and Printed Name) TPD	Date: 10/24/11	Time: 1410
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:
Mike Conkle
Print Name Date
Signature

Send Report To:
Attn: Mike Conkle
Co: Geocon Consultants
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Bill To:
Attn: Mike Conkle
Co: Geocon Consultants
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Special Instructions/Comments:
CT Contract 07A2729
FILTER AND PRESEVE WATER SAMPLES AT LAB.

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

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

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

TIME	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample ID / Location	Date	Time	Lead	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	1204730	1150-100-1	10/25/11	1240	x		x			E	1	P		

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

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

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

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