TAM TRAIL
SAN RAFAEL, CALIFORNIA

PREPARED FOR:
NOLTE ASSOCIATES
1731 N. FIRST STREET, SUITE A
SAN JOSE, CALIFORNIA 95112

PREPARED BY:
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GEOCON

GEOCON PROJECT NO. E8348-06-01

DECEMBER 2006

GEOCON
CONSULTANTS, INC.
ENVIRONMENTAL ■ GEOTECHNICAL ■ MATERIALS

Project No. E8348-06-01
December 15, 2006

Mr. Mike McNeely
Nolte Associates
1731 N. First Street, Suite A
San Jose, California 95112

Subject: SOIL INVESTIGATION REPORT
AERIALLY DEPOSITED LEAD IN SOIL
TAM TRAIL
SAN RAFAEL, CALIFORNIA

Dear Mr. McNeely:

Geocon has performed environmental engineering services at the project site in accordance with Geocon Proposal No. LE-06-053, dated April 28, 2006. The project site consists of the State Route (SR) 101 shoulders between 2nd Street and San Pedro Road in San Rafael, California, as shown on the Vicinity Map, Figure 1.

The accompanying report summarizes the services performed including the advancement of hand-auger boreholes, limited soil sampling, and laboratory testing.

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

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

Sincerely,

GEOCON CONSULTANTS, INC.

PROFESSIONAL GEOLOGIST
RICHARD W. DAY
No. 5479
Exp. 09-30-07
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Richard W. Day, CEG, CHG
Regional Manager

RWD:rjk

(10) Addressee

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SITE INVESTIGATION REPORT

1.0 INTRODUCTION

This Soil Investigation Report was prepared for the Transportation Authority of Marin (TAM) Trail project in San Rafael, California. This report documents the site investigation for aerially-deposited lead (ADL) sampling methods and laboratory analytical data.

1.1 Site Description

The site consists of the State Route (SR) 101 shoulders between 2nd Street and San Pedro Road in San Rafael, California. The site location is shown on the Vicinity Map, Figure 1.

1.2 Purpose

The purpose of the services performed was to evaluate whether impact due to aerially deposited lead exists in the surface and near surface soil within the project boundaries. The information obtained from this investigation will be used to inform the construction contractor of the presence of lead-impacted soil within the project boundaries for health, safety, and waste management purposes.

2.0 BACKGROUND

2.1 Potential Lead Impacts

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

2.2 Hazardous Waste Determination Criteria

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

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

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

2.3 DTSC Variance

The DTSC issued a variance on September 22, 2000 for Caltrans District 4 regarding the disposition of ADL-impacted soils within Caltrans projects. Review of the variance, as modified by DTSC on December 13, 2002, indicates the following conditions regarding reuse and management of aerially-deposited lead impacted soil as fill material for construction and maintenance operations in Caltrans right-of-way.

Category 1:

Soil exhibiting soluble lead concentrations less than or equal to 0.5 milligrams per liter (mg/l) [based on a modified waste extraction test using deionized water as the extractant (WET-DI)] and total lead concentrations of 1,411 mg/kg or less may be used as fill provided that the lead-impacted soil is placed a minimum of 1.5 meters (5 feet) above the maximum water table elevation and covered with at least 0.3 meter (1 foot) of clean soil.

Category 2:

Soil exhibiting soluble lead concentrations greater than 0.5 mg/l and less than 50 mg/l (based on the WET-DI) and total lead concentrations greater than 1,411 mg/kg and less than 3,397 mg/kg may be used as fill provided that the lead-impacted soil is placed a minimum of 1.5 meters (5 feet) above the maximum water table elevation and protected from infiltration by a pavement structure maintained by Caltrans.

Category 3:

Lead-impacted soil with a pH less than 5.0 shall only be used as fill material under the paved portion of the roadway.

If the excavated soil is not intended to be reused within the Caltrans right-of-way, then hazardous waste determination of the soil is based the criterion summarized in Section 2.2.

3.0 SCOPE OF SERVICES

The following scope of services was performed:

3.1 Pre-Field Activities

Geocon retained the services of a California-licensed laboratory, Advanced Technology Laboratories (ATL), to perform the soil analyses.

3.2 Field Activities

The field investigation was performed on July 19, 20, 21, and 28, 2006, under the responsible charge of Richard Day. Mr. Day is a Professional Geologist in the State of California. The following field activities were performed during soil sampling effort:

- Completed 36 hand auger borings (SB1 through SB29 and NB1 through NB7).
- Collected soil samples for lead and pH analysis.
- Transported samples to ATL for laboratory analysis.

4.0 INVESTIGATIVE METHODS

4.1 Sampling Procedures

Soil samples were collected from 29 borings (SB1 through SB29) along the proposed TAM Trail alignment as shown on the Site Plans, Figures 2a through 2d. Soil borings were advanced to a maximum depth of approximately 0.75 meters (2.5 feet) below ground surface (bgs) using hand auger methods. Samples were collected at approximate depths of 0 to 0.15 meter (0 to 0.5 foot), 0.3 to 0.45 meter (1 to 1.5 feet), and 0.6 to 0.75 meter (2 to 2.5 feet). Refusal was encountered in borings SB7 and SB9 (at 1.5 feet bgs) and in boring SB20 (at 0.5 foot bgs). A total of 83 soil samples were collected along the southbound shoulder. Completed soil boreholes were filled to surface with soil cuttings. Groundwater was not encountered during the advancement of the boreholes.

Soil samples were collected from seven borings (NB1 through NB7) as shown on the Site Plans, Figures 2a through 2c. The borings were initially proposed to be advanced through the paved shoulder in front of the soundwalls at the proposed construction locations; however, Caltrans would not allow lane closure for this segment of SR 101 and would not allow drilling through the pavement. Consequently, the borings were advanced behind the soundwalls. Soil borings were advanced to a maximum depth of approximately 0.75 meters (2.5 feet) bgs using hand auger methods. Samples were collected at approximate depths of 0 to 0.15 meter (0 to 0.5 foot), 0.3 to 0.45 meter (1 to 1.5 feet), and 0.6 to 0.75 meter (2 to 2.5 feet). A total of 21 soil samples were collected. Completed soil boreholes were filled to surface with soil cuttings. Groundwater was not encountered during the advancement of the boreholes.

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

Sample containers were sealed, labeled, and transported to ATL using standard chain-of-custody documentation.

4.2 Laboratory Analyses

The laboratory testing performed is summarized below:

- All samples (104 total) were analyzed for total lead using EPA Test Method 6010.
- A total of 12 soil samples (randomly selected by the laboratory) were analyzed for pH using EPA Test Method 9045.
- A total of 33 soil samples that exhibited total lead concentrations greater than or equal to 50 mg/kg (i.e., greater than ten times the lead STLC of 5 mg/l) were analyzed for soluble (WET) lead.
- A total of 15 soil samples were further analyzed for soluble lead using the Waste Extraction Test procedure with deionized water as the extractant (WET-DI).
- A total of six soil samples were further analyzed for soluble lead using the Toxicity Characteristic Leaching Procedure (TCLP).

Reproductions of the laboratory reports and chain-of-custody documentation are presented as Appendix A.

4.3 Laboratory QA/QC

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

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

5.0 INVESTIGATIVE RESULTS

5.1 Laboratory Test Results

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

- Soil samples analyzed for total lead exhibited concentrations ranging from less than the laboratory reporting limit of 5.0 mg/kg (<5.0 mg/kg) to 1,600 mg/kg.
- Soil samples analyzed for soluble (WET) lead exhibited concentrations ranging from 2.3 mg/l to 29 mg/l.
- Soil samples analyzed for soluble (WET-DI) lead exhibited concentrations ranging from <0.25 mg/l to 0.4 mg/l.
- Soil samples analyzed for soluble (TCLP) lead exhibited concentrations ranging from <1.2 mg/l to 9.7 mg/l.
- Soil pH values ranged from 5.3 to 7.7.

5.2 Statistical Evaluation for Lead Detected in Soil Samples

Statistical methods were applied to the total lead data to evaluate the upper confidence limits (UCLs) of the true means of the total lead concentrations for each sampling area. The statistical methods used are discussed in a book entitled *Statistical Methods for Environmental Pollution Monitoring,* by Richard Gilbert; in an EPA *Technology Support Center Issue* document entitled, *The Lognormal Distribution in Environmental Applications,* by Ashok Singh et. al., dated December 1997; and in a book entitled *An Introduction to the Bootstrap,* by Bradley Efron and Robert J. Tibshirani.

5.2.1 Total Lead Distribution

The presence of non-detects and/or low concentrations in total lead data sets can strongly skew sample data towards low values. In these cases, the data are often lognormally distributed or nonparametric and classical statistical methods do not work properly since they assume that the data exhibit an underlying normal distribution. Consequently, it is necessary to apply the appropriate method when determining the UCLs on the true total lead means.

5.2.2 Calculating the UCLs for the True Mean

The 90% and 95% upper confidence limits (UCLs) of the true mean are defined as the values that, when calculated repeatedly for randomly drawn subsets of site data, equal or exceed the true mean 90% and 95% of the time, respectively. Statistical confidence limits are the classical tool for addressing uncertainties of a distribution mean. The UCLs of the true mean concentration are used as

the mean concentrations because it is not possible to know the true mean due to the essentially infinite number of soil samples that could be collected from the site. The UCLs therefore account for uncertainties due to limited sampling data. As data become less limited at a site, uncertainties decrease and the UCLs move closer to the true mean.

Bootstrap techniques used to calculate the UCLs are discussed in the previously referenced EPA document and in *An Introduction to the Bootstrap.* The bootstrap results are included as Appendix B. For those samples in which total lead was not detected, a value equal to one-half of the detection limit was used in the UCL calculations.

The calculated UCLs are summarized in the below:

TAM Trail Alignment - Along Southbound Shoulder (Borings B1 to B29)

Sample Interval	90% UCL (mg/kg)	95% UCL (mg/kg)
Surface to 0.15 meter (0 to 0.5 ft)	117	125
0.3 to 0.45 meter (1 to 1.5 ft)	70	74
0.6 to 0.9 meter (2 to 2.5 ft)	62	66

Northbound Shoulder - Behind Soundwalls (Borings NB1 to NB7)

Sample Interval	90% UCL (mg/kg)	95% UCL (mg/kg)
Surface to 0.15 meter (0 to 0.5 ft)	656	717
0.3 to 0.45 meter (1 to 1.5 ft)	579	655
0.6 to 0.9 meter (2 to 2.5 ft)	371	407

Statistical results are included as Appendix B.

5.3 Correlation of Total and Soluble Lead

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

To estimate the degree of interrelation between total and corresponding soluble (WET) lead values (x and y, respectively), the *correlation coefficient [r]* is used. The correlation coefficient is a ratio that ranges from +1 to –1. A *correlation coefficient* of +1 indicates a perfect direct relationship between two variables; a *correlation coefficient* of -1 indicates that one variable changes inversely with relation to the other. Between the two extremes is a spectrum of less-than-perfect relationships, including zero, which indicates the lack of any sort of linear relationship at all.

The *correlation coefficient* was calculated for 33 (x, y) data points (i.e., soil samples analyzed for both total lead [x] and soluble [WET] lead [y]) and equaled 0.949. A *correlation coefficient* greater than or equal to 0.8 is an acceptable indicator that a correlation exists. Since the *correlation coefficient* indicates that a linear relationship exists between total and soluble (WET) lead concentrations, it is possible to compute the line of dependence, or a best-fit line between the two variables. A least squares method was used to find the equation of a best-fit line (regression line) by forcing the y-intercept equal to zero since that is a known point. The equation of the regression line was determined to be $y = 0.0464(x)$, where x represents total lead concentrations and y represents predicted soluble (WET) lead concentrations.

This equation was used to estimate the expected soluble (WET) lead concentrations for the UCLs for southbound borings B1 through B29 calculated in Section 5.2. Regression analysis results and a scatter plot depicting the 33 (x, y) data points along with the regression line are included as a portion of Appendix B.

6.0 CONCLUSIONS

6.1 TAM Trail Alignment - Southbound Shoulder (Borings SB1 to SB29)

The following table summarizes the predicted soluble (WET) lead concentrations and the waste classifications for excavated soil based on the calculated total lead UCLs and the relationship between total and soluble (WET) lead at the site. The soluble (WET) lead calculations for all sample intervals are summarized on Table 3.

Excavation Depth	90% UCL Total Lead (mg/kg)	90% UCL Predicted WET Lead (mg/l)	95% UCL Total Lead (mg/kg)	95% UCL Predicted WET Lead (mg/l)	Waste Classification
0 to 0.3 meter (0 to 1 ft)	117	**5.4**	125	**5.8**	**Hazardous**
Underlying soil (0.3 to 0.75 meter)	*67*	*3.1*	*71*	*3.3*	*Non-hazardous*
0 to 0.6 meter (0 to 2 ft)	93	4.3	99	4.6	Non-hazardous
Underlying soil (0.6 to 0.75 meter)	*62*	*2.9*	*66*	*3.0*	*Non-hazardous*

Note: 90% UCL applicable for soil remaining onsite; 95% UCL applicable for soil disposed offsite

Based on the above table, soil generated from excavations to 0.3 meter (1 foot) in depth would be classified as a California hazardous waste since the 90% UCL and 95% UCL predicted soluble (WET) lead concentrations are greater than the lead STLC of 5.0 mg/l. Based on the soluble (TCLP) results, the top 0.3 meter (1 foot) of soil would not be considered a RCRA hazardous waste. Based on the soluble (WET-DI) lead results, the top 0.3 meter (1 foot) of soil may be reused in accordance with the DTSC Variance by placing the lead-impacted soil under at least 0.3 meter (1 foot) of clean soil or under a pavement structure. Underlying soil (i.e., deeper than 0.3m bgs) can be reused or disposed as non-hazardous with respect to lead content.

If excavations are at least 0.6 meter or greater in depth, excavated soil would not be classified as a California hazardous waste since the predicted soluble (WET) lead concentrations are less than the STLC value of 5 mg/l. Consequently, excavated soil can be reused or disposed as non-hazardous with respect to lead content.

Geocon understands that portions of the trail will be constructed in fill areas and that soil will not be excavation in these areas. Caltrans has informed Geocon that fill material may be placed over the ADL-impacted soil in these areas as long as soil is not excavated for project construction.

6.2 Northbound Soundwalls (Borings NB1 to NB7)

The below conclusion may be overly conservative. As discussed in Section 4.1, Caltrans would not allow lane closure for this segment of northbound SR 101 and would not allow drilling through the pavement. Therefore, samples could not be collected at the location of the proposed new soundwall. Consequently, the northbound soil results (collected from unpaved areas behind the existing soundwalls) may not be representative of soil that will be excavated during construction (beneath existing shoulder pavement). Geocon recommends that soil excavated from beneath the northbound paved shoulder be stockpiled and resampled prior to disposal to determine final waste classification.

The following table summarizes the calculated predicted soluble (WET) lead concentrations and the waste classifications for the sample intervals based on the calculated total lead UCLs and the relationship between total and soluble (WET) lead at the site.

Sample Interval	90% UCL Total Lead (mg/kg)	90% UCL Predicted WET Lead (mg/l)	95% UCL Total Lead (mg/kg)	95% UCL Predicted WET Lead (mg/l)	Waste Classification
0 to 0.3 meter (0 to 1 ft)	656	**30.4**	717	**33.3**	**Hazardous**
0 to 0.6 meter (0 to 2 ft)	579	**26.9**	655	**30.4**	**Hazardous**
0 to 0.75 meter (0 to 2.5 ft)	371	**17.2**	407	**18.9**	**Hazardous**

Note: 90% UCL applicable for soil remaining onsite; 95% UCL applicable for soil disposed offsite

Based on the above table, soil generated from excavations to 0.75 meter (2.5 feet) in depth would be classified as a California hazardous waste since the 90% UCL and 95% UCL predicted soluble (WET) lead concentrations are greater than the lead STLC of 5.0 mg/l. Based on the soluble (TCLP) results, excavated soil would not be considered a RCRA hazardous waste.

6.3 Worker Protection

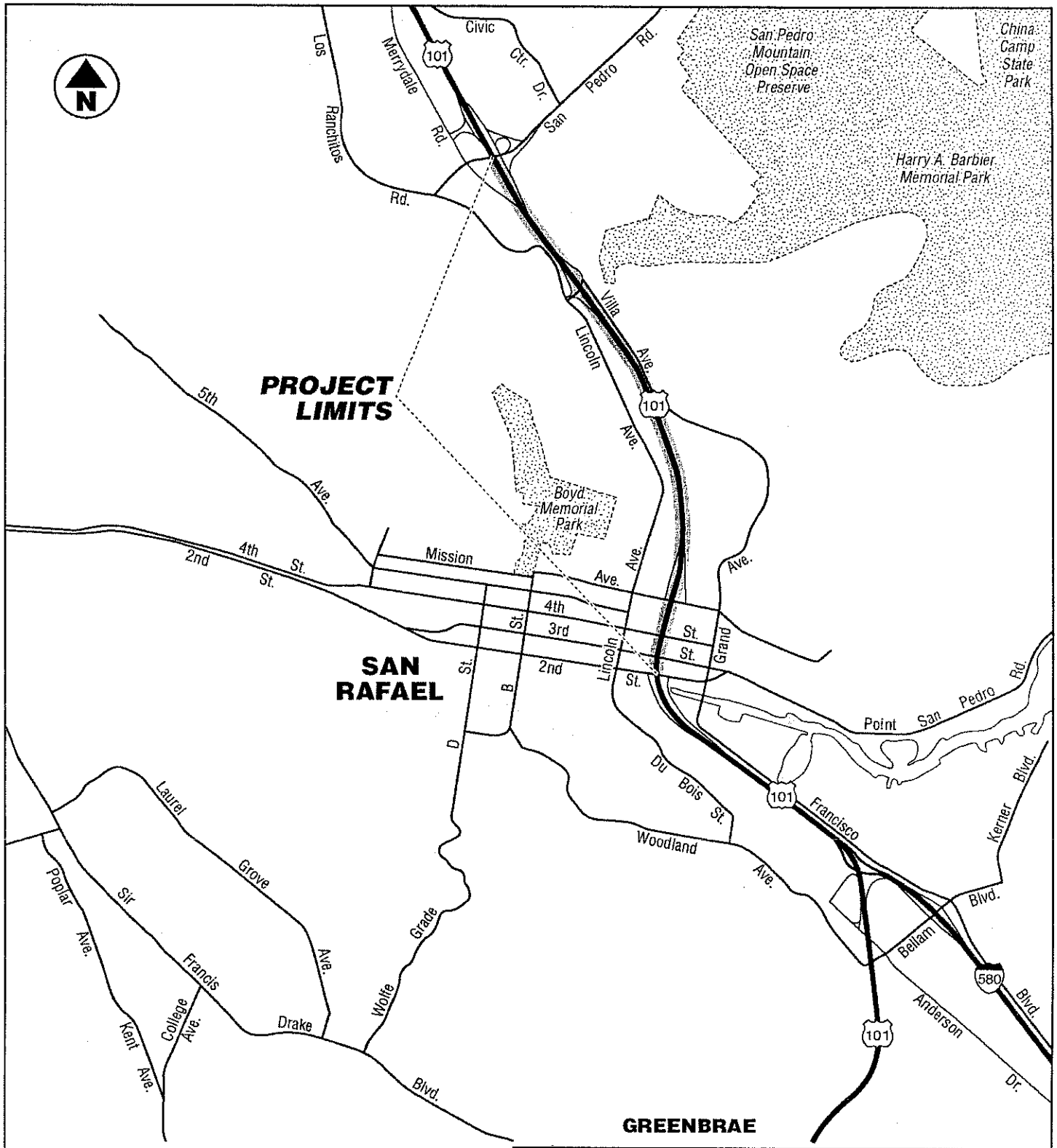
Per Caltrans requirements, contractor(s) should prepare a project-specific Lead Compliance Plan to prevent or minimize worker exposure to lead impacted soil. The plan should include protocols for environmental and personnel monitoring, requirements for personal protective equipment, and other appropriate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

7.0 REPORT LIMITATIONS

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

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

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.



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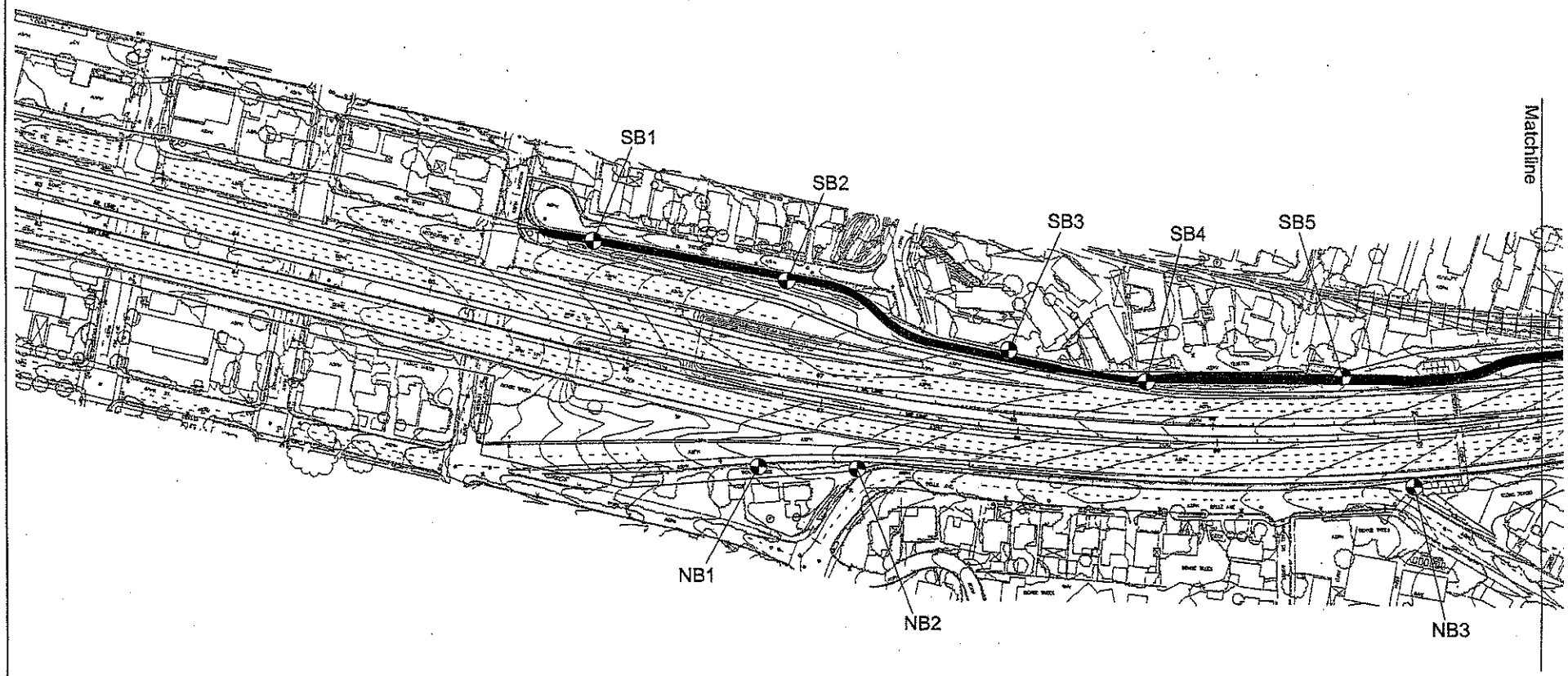
TAM Trail

San Rafael, California

VICINITY MAP

E8348-06-01	December 2006	Figure 1



N

0 20 40

SCALE: meters
(1cm = 20m)

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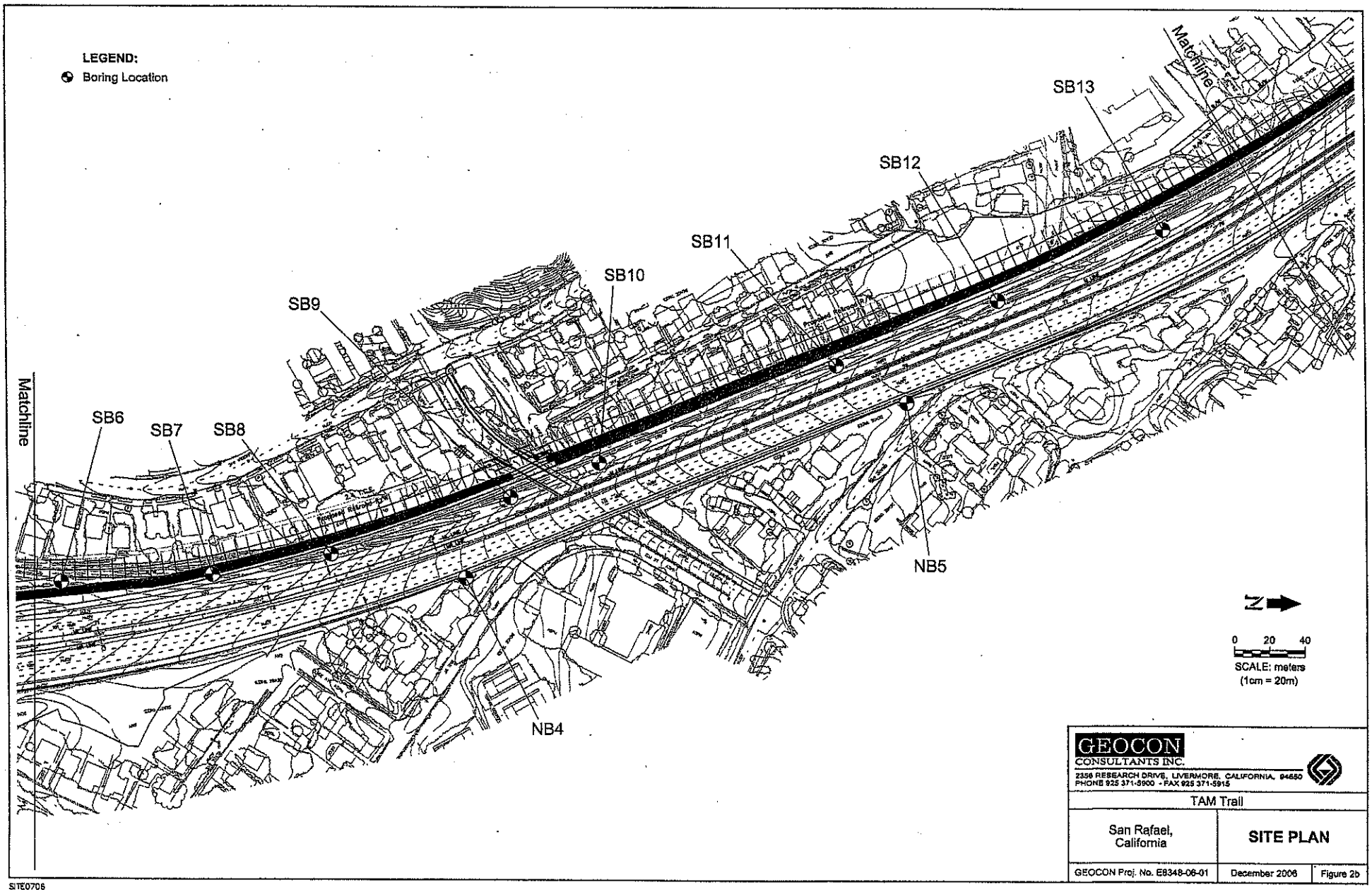
TAM Trail

San Rafael, California

SITE PLAN

GEOCON Proj. No. E8348-06-01 | December 2006 | Figure 2a

SITE0706



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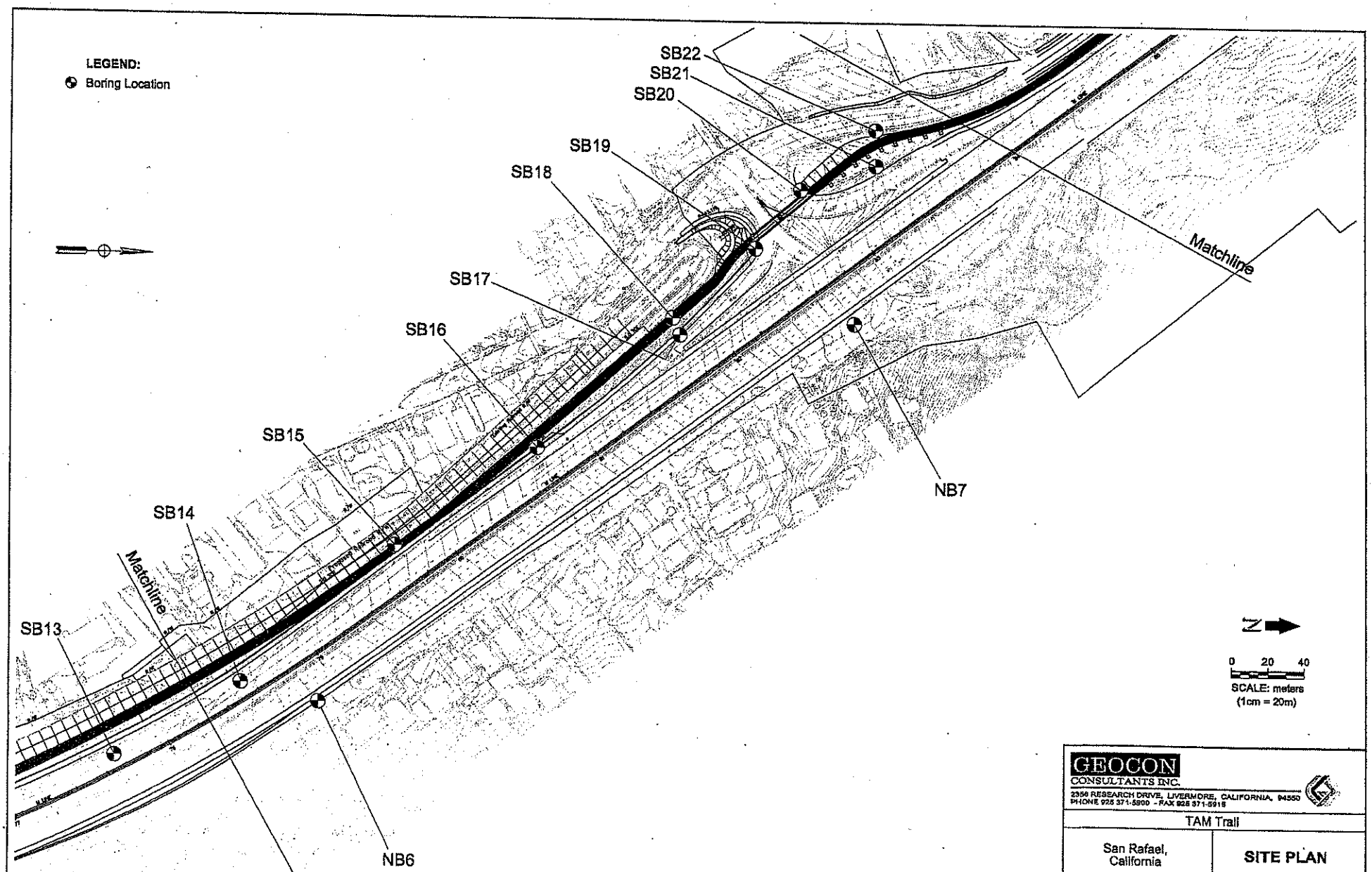
TAM Trail

San Rafael, California	SITE PLAN

GEOCON Proj. No. E8348-06-01	December 2006	Figure 2b

SITE0706



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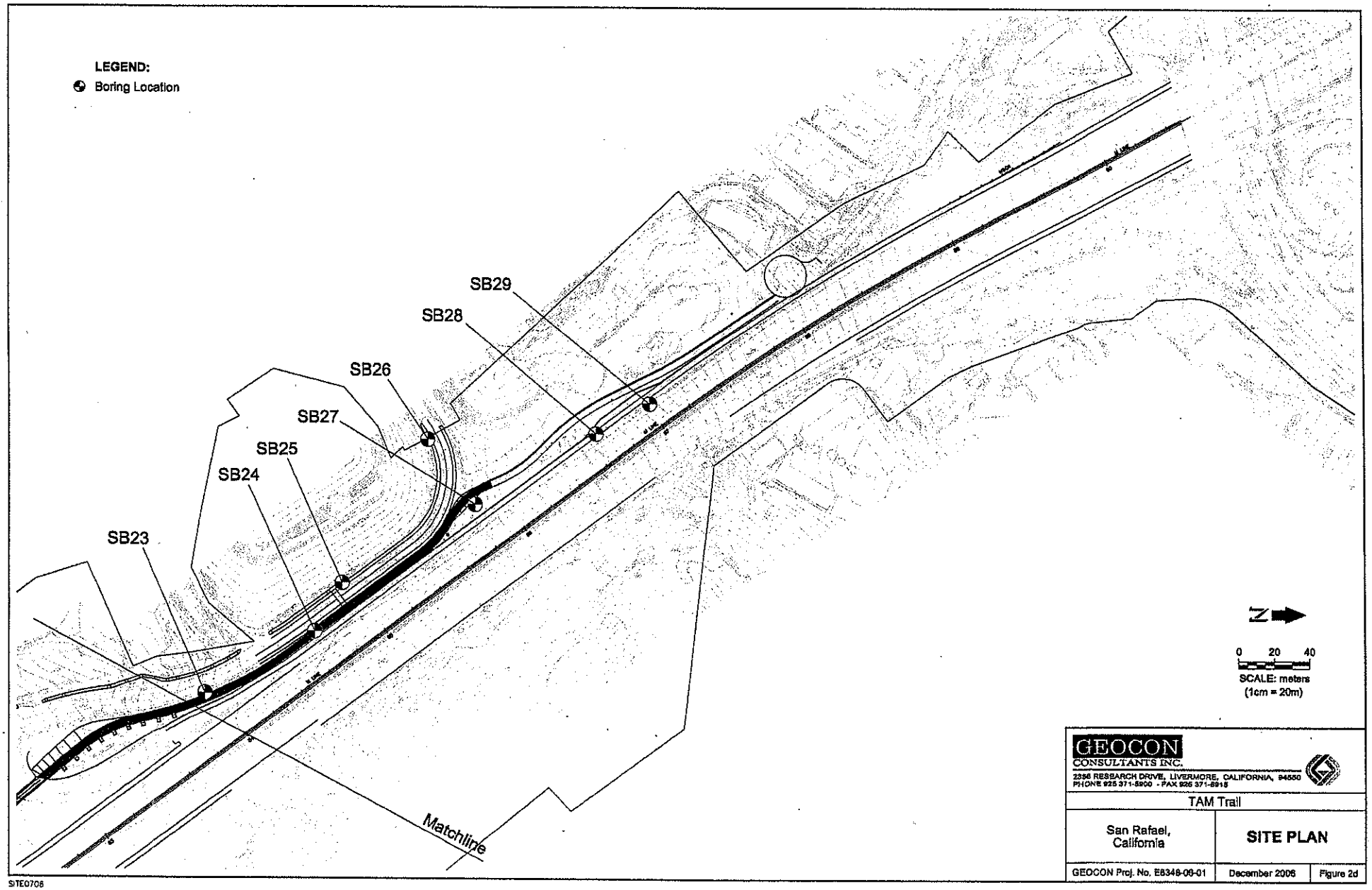
TAM Trail

San Rafael, California

SITE PLAN

GEOCON Proj. No. E8348-06-01 | December 2006 | Figure 2c

SITE0706



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TAM Trail

San Rafael, California

SITE PLAN

GEOCON Proj. No. E6348-06-01 | December 2006 | Figure 2d

SITE0708

TABLE 1
BORING COORDINATES
TAM Trail

Boring	Northing	Easting
SB1	1,822,404.844	665,550.963
SB2	1,822,424.634	665,648.638
SB3	1,822,458.544	665,760.138
SB4	1,822,473.896	665,829.268
SB5	1,822,470.500	665,926.975
SB6	1,822,452.425	666,041.085
SB7	1,822,447.824	666,127.750
SB8	1,822,435.971	666,195.734
SB9	1,822,402.754	666,299.349
SB10	1,822,382.449	666,350.802
SB11	1,822,325.210	666,489.270
SB12	1,822,286.538	666,582.520
SB13	1,822,245.559	666,677.645
SB14	1,822,201.999	666,750.113
SB15	1,822,121.341	666,838.227
SB16	1,822,063.698	666,920.619
SB17	1,821,997.152	667,003.876
SB18	1,821,987.551	666,999.737
SB19	1,821,947.003	667,048.148
SB20	1,821,913.121	667,074.435
SB21	1,821,898.858	667,117.824
SB22	1,821,878.083	667,117.605
SB23	1,821,864.887	667,172.780
SB24	1,821,829.285	667,235.829
SB25	1,821,801.394	667,251.743
SB26	1,821,717.955	667,301.365
SB27	1,821,755.576	667,328.597
SB28	1,821,714.444	667,398.516
SB29	1,821,696.811	667,429.862
NB1	1,822,518.102	665,634.121
NB2	1,822,518.881	665,683.746
NB3	1,822,525.963	665,962.421
NB4	1,822,449.614	666,273.301
NB5	1,822,346.840	666,529.798
NB6	1,822,212.725	666,794.556
NB7	1,821,989.648	667,105.436

Northing and Easting shown in meters, NAD 83 (Zone 3)

TABLE 2
Summary of Lead and pH Results
TAM Trail
San Rafael, California

Boring	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg)	WET (mg/l)	WET-DI (mg/l)	TCLP (mg/l)	pH
SB1-0	0	0	53	3.0	---	---	6.8
SB1-1	0.3	1	42	---	---	---	---
SB1-2	0.6	2	49	---	---	---	---
SB2-0	0	0	62	2.5	---	---	---
SB2-1	0.3	1	49	---	---	---	---
SB2-2	0.6	2	43	---	---	---	---
SB3-0	0	0	150	9.9	<0.25	---	---
SB3-1	0.3	1	140	7.4	<0.25	---	---
SB3-2	0.6	2	170	6.8	<0.25	---	---
SB4-0	0	0	65	2.4	---	---	---
SB4-1	0.3	1	69	4.1	---	---	7.2
SB4-2	0.6	2	100	4.5	---	---	---
SB5-0	0	0	25	---	---	---	---
SB5-1	0.3	1	7.5	---	---	---	---
SB5-2	0.6	2	6.1	---	---	---	---
SB6-0	0	0	54	3.4	---	---	---
SB6-1	0.3	1	130	6.1	<0.25	---	---
SB6-2	0.6	2	80	3.9	---	---	---
SB7-0	0	0	130	6.6	<0.25	---	---
SB7-1	0.3	1	170	7.5	0.40	---	---
SB8-0	0	0	160	9.7	<0.25	---	6.6
SB8-1	0.3	1	64	3.3	---	---	---
SB8-2	0.6	2	87	3.8	---	---	---
SB9-0	0	0	120	9.9	<0.25	---	---
SB9-1	0.3	1	79	3.6	---	---	---
SB10-0	0	0	670	29	0.30	<1.2	---
SB10-1	0.3	1	160	2.7	---	---	---
SB10-2	0.6	2	88	4.6	---	---	---

TABLE 2
Summary of Lead and pH Results
TAM Trail
San Rafael, California

Boring	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg)	WET (mg/l)	WET-DI (mg/l)	TCLP (mg/l)	pH
SB11-0	0	0	49	---	---	---	---
SB11-1	0.3	1	35	---	---	---	---
SB11-2	0.6	2	11	---	---	---	6.5
SB12-0	0	0	160	9.3	<0.25	---	---
SB12-1	0.3	1	40	---	---	---	---
SB12-2	0.6	2	26	---	---	---	---
SB13-0	0	0	33	---	---	---	---
SB13-1	0.3	1	39	---	---	---	---
SB13-2	0.6	2	46	---	---	---	---
SB14-0	0	0	69	3.2	---	---	---
SB14-1	0.3	1	31	---	---	---	---
SB14-2	0.6	2	31	---	---	---	---
SB15-0	0	0	270	14	<0.25	<1.2	5.3
SB15-1	0.3	1	120	5.0	<0.25	---	---
SB15-2	0.6	2	96	3.1	---	---	---
SB16-0	0	0	49	---	---	---	---
SB16-1	0.3	1	180	8.8	<0.25	---	---
SB16-2	0.6	2	49	---	---	---	---
SB17-0	0	0	23	---	---	---	---
SB17-1	0.3	1	21	---	---	---	---
SB17-2	0.6	2	23	---	---	---	---
SB18-0	0	0	83	4.0	---	---	---
SB18-1	0.3	1	54	3.4	---	---	6.8
SB18-2	0.6	2	65	3.2	---	---	---
SB19-0	0	0	33	---	---	---	---
SB19-1	0.3	1	16	---	---	---	---
SB19-2	0.6	2	91	6.1	<0.25	---	---
SB20-0	0	0	13	---	---	---	---

TABLE 2
Summary of Lead and pH Results
TAM Trail
San Rafael, California

Boring	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg)	WET (mg/l)	WET-DI (mg/l)	TCLP (mg/l)	pH
SB21-0	0	0	18	---	---	---	---
SB21-1	0.3	1	46	---	---	---	---
SB21-2	0.6	2	170	8.0	<0.25	---	---
SB22-0	0	0	18	---	---	---	---
SB22-1	0.3	1	15	---	---	---	7.2
SB22-2	0.6	2	<5.0	---	---	---	---
SB23-0	0	0	27	---	---	---	---
SB23-1	0.3	1	34	---	---	---	---
SB23-2	0.6	2	17	---	---	---	---
SB24-0	0	0	17	---	---	---	---
SB24-1	0.3	1	<5.0	---	---	---	---
SB24-2	0.6	2	15	---	---	---	---
SB25-0	0	0	7.8	---	---	---	---
SB25-1	0.3	1	8.8	---	---	---	---
SB25-2	0.6	2	10	---	---	---	7.2
SB26-0	0	0	26	---	---	---	---
SB26-1	0.3	1	11	---	---	---	---
SB26-2	0.6	2	10	---	---	---	---
SB27-0	0	0	13	---	---	---	---
SB27-1	0.3	1	9.1	---	---	---	---
SB27-2	0.6	2	9.6	---	---	---	---
SB28-0	0	0	43	---	---	---	---
SB28-1	0.3	1	<5.0	---	---	---	---
SB28-2	0.6	2	<5.0	---	---	---	---
SB29-0	0	0	78	2.3	---	---	5.8
SB29-1	0.3	1	22	---	---	---	---
SB29-2	0.6	2	14	---	---	---	---
NB1-0	0	0	210	---	---	---	6.5
NB1-1	0.3	1	220	---	---	---	---
NB1-2	0.6	2	160	---	---	---	---

TABLE 2
Summary of Lead and pH Results
TAM Trail
San Rafael, California

Boring	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg)	WET (mg/l)	WET-DI (mg/l)	TCLP (mg/l)	pH
NB2-0	0	0	670	---	---	3.5	---
NB2-1	0.3	1	210	---	---	---	---
NB2-2	0.6	2	280	---	---	---	---
NB3-0	0	0	350	---	---	---	---
NB3-1	0.3	1	46	---	---	---	---
NB3-2	0.6	2	240	---	---	---	---
NB4-0	0	0	1,400	---	---	2.5	---
NB4-1	0.3	1	1,600	---	---	9.7	7.7
NB4-2	0.6	2	80	---	---	---	---
NB5-0	0	0	33	---	---	---	---
NB5-1	0.3	1	23	---	---	---	---
NB5-2	0.6	2	840	---	---	<1.2	---
NB6-0	0	0	280	---	---	---	---
NB6-1	0.3	1	180	---	---	---	---
NB6-2	0.6	2	110	---	---	---	---
NB7-0	0	0	200	---	---	---	---
NB7-1	0.3	1	15	---	---	---	---
NB7-2	0.6	2	8.1	---	---	---	7.5

Notes:

WET = Waste Extraction Test using citric acid as the extraction fluid
WET-DI = Waste Extraction Test using deionized water as the extraction fluid
TCLP = Toxicity Characteristic Leaching Procedure
mg/kg = milligrams per kilogram
mg/l = milligrams per liter
--- = Not Analyzed
< = Analyte was not detected above the stated laboratory reporting limit

TABLE 3
SUMMARY OF STATISTICAL ANALYSIS
TAM Trail

SB1-29

TOTAL LEAD UCLs

	Total Lead (mg/kg)	
	90% UCL	95% UCL
0 to 0.15 meter (0 to 0.5 ft)	117.1	125.1
0.3 to 0.45 meter (1 to 1.5 ft)	69.7	73.8
0.6 to 0.75 meter (2 to 2.5 ft)	61.9	65.5

EXCAVATION SCENARIOS

	90% UCL		95% UCL	
Excavation Depth	Total Lead (mg/kg)	Soluble (WET) Lead* (mg/l)	Total Lead (mg/kg)	Soluble (WET) Lead* (mg/l)
0 to 0.3 meter (0 to 1 ft)	117	5.4	125	5.8
Underlying Soil (0.3 to 0.75 meter)	*67*	*3.1*	*71*	*3.3*
0 to 0.6 meter (0 to 2 ft)	93	4.3	99	4.6
Underlying Soil (0.6 to 0.75 meter)	*62*	*2.9*	*66*	*3.0*
0 to 0.75 meter (0 to 2.5 ft)	87	4.0	93	4.3

Notes:

UCL = Upper Confidence Level (90% UCL is applicable for onsite reuse; 95% UCL is applicable for offsite reuse/disposal)
mg/kg = milligrams per kilogram
mg/l = milligrams per liter
* = Soluble (WET) lead concentrations are predicted using slope of regression line, where y = predicted soluble (WET) lead and x = total lead.

Regression Line Slope: $y = 0.0464\ x$

APPENDIX A

July 26, 2006

Chris Merritt
Geocon Consultants, Inc.
2356 Research Drive
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

RECEIVED
AUG 07 2006
By

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
Arizona: AZ0689
CSDLAC No.: 10196
Workorder No.: 085707

RE: SR 101- TAM TRAIL, E8348-06-01

Attention: Chris Merritt

Enclosed are the results for sample(s) received on July 22, 2006 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Eddie F. Rodriguez
Laboratory Director

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

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

CLIENT: Geocon Consultants, Inc.
Project: SR 101- TAM TRAIL, E8348-06-01
Lab Order: 085707

CASE NARRATIVE

Analytical Comments for Method 6010

RPD for Duplicate (DUP) is outside criteria for samples 085707-040ADUP, 085707-050ADUP, 085707-060ADUP, 085707-080ADUP and 085707-083ADUP; 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

Date: 7/26/2006

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	085707
Project:	SR 101- TAM TRAIL, E8348-06-01	**Date Received**	7/22/2006 8:45:00 AM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
085707-001A	SB1-0	53	mg/Kg	29364	5.0	1	7/21/2006	7/25/2006
085707-002A	SB1-1	42	mg/Kg	29364	5.0	1	7/21/2006	7/25/2006
085707-003A	SB1-2	49	mg/Kg	29364	5.0	1	7/21/2006	7/25/2006
085707-004A	SB2-0	62	mg/Kg	29364	5.0	1	7/21/2006	7/25/2006
085707-005A	SB2-1	49	mg/Kg	29364	5.0	1	7/21/2006	7/25/2006
085707-006A	SB2-2	43	mg/Kg	29364	5.0	1	7/21/2006	7/25/2006
085707-007A	SB3-0	150	mg/Kg	29364	5.0	1	7/21/2006	7/25/2006
085707-008A	SB3-1	140	mg/Kg	29364	5.0	1	7/21/2006	7/25/2006
085707-009A	SB3-2	170	mg/Kg	29364	5.0	1	7/21/2006	7/25/2006
085707-010A	SB4-0	65	mg/Kg	29364	5.0	1	7/21/2006	7/25/2006
085707-011A	SB4-1	69	mg/Kg	29364	5.0	1	7/21/2006	7/25/2006
085707-012A	SB4-2	100	mg/Kg	29364	5.0	1	7/21/2006	7/25/2006
085707-013A	SB5-0	25	mg/Kg	29364	5.0	1	7/21/2006	7/25/2006
085707-014A	SB5-1	7.5	mg/Kg	29364	5.0	1	7/21/2006	7/25/2006
085707-015A	SB5-2	6.1	mg/Kg	29364	5.0	1	7/21/2006	7/25/2006
085707-016A	SB6-0	54	mg/Kg	29364	5.0	1	7/21/2006	7/25/2006
085707-017A	SB6-1	130	mg/Kg	29364	5.0	1	7/21/2006	7/25/2006
085707-018A	SB6-2	80	mg/Kg	29364	5.0	1	7/21/2006	7/25/2006

Qualifiers:

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

Advanced Technology Laboratories

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Advanced Technology Laboratories

Date: 7/26/2006

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	085707
Project:	SR 101- TAM TRAIL, E8348-06-01	**Date Received**	7/22/2006 8:45:00 AM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
085707-019A	SB7-0	130	mg/Kg	29364	5.0	1	7/21/2006	7/25/2006
085707-020A	SB7-1	170	mg/Kg	29364	5.0	1	7/21/2006	7/25/2006
085707-021A	SB8-0	160	mg/Kg	29365	5.0	1	7/21/2006	7/25/2006
085707-022A	SB8-1	64	mg/Kg	29365	5.0	1	7/21/2006	7/25/2006
085707-023A	SB8-2	87	mg/Kg	29365	5.0	1	7/21/2006	7/25/2006
085707-024A	SB9-0	120	mg/Kg	29365	5.0	1	7/21/2006	7/25/2006
085707-025A	SB9-1	79	mg/Kg	29365	5.0	1	7/21/2006	7/25/2006
085707-026A	SB10-0	670	mg/Kg	29365	5.0	1	7/21/2006	7/25/2006
085707-027A	SB10-1	160	mg/Kg	29365	5.0	1	7/21/2006	7/25/2006
085707-028A	SB10-2	88	mg/Kg	29365	5.0	1	7/21/2006	7/25/2006
085707-029A	SB11-0	49	mg/Kg	29365	5.0	1	7/21/2006	7/25/2006
085707-030A	SB11-1	35	mg/Kg	29365	5.0	1	7/21/2006	7/25/2006
085707-031A	SB11-2	11	mg/Kg	29365	5.0	1	7/21/2006	7/25/2006
085707-032A	SB12-0	160	mg/Kg	29365	5.0	1	7/21/2006	7/25/2006
085707-033A	SB12-1	40	mg/Kg	29365	5.0	1	7/21/2006	7/25/2006
085707-034A	SB12-2	26	mg/Kg	29365	5.0	1	7/21/2006	7/25/2006
085707-035A	SB13-0	33	mg/Kg	29365	5.0	1	7/21/2006	7/25/2006
085707-036A	SB13-1	39	mg/Kg	29365	5.0	1	7/21/2006	7/25/2006

Qualifiers:

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

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

Advanced Technology Laboratories

Date: 7/26/2006

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EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	085707
Project:	SR 101- TAM TRAIL, E8348-06-01	**Date Received**	7/22/2006 8:45:00 AM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
085707-037A	SB13-2	46	mg/Kg	29365	5.0	1	7/21/2006	7/25/2006
085707-038A	SB14-0	69	mg/Kg	29365	5.0	1	7/20/2006	7/25/2006
085707-039A	SB14-1	31	mg/Kg	29365	5.0	1	7/20/2006	7/25/2006
085707-040A	SB14-2	31	mg/Kg	29365	5.0	1	7/20/2006	7/25/2006
085707-041A	SB15-0	270	mg/Kg	29367	5.0	1	7/20/2006	7/25/2006
085707-042A	SB15-1	120	mg/Kg	29367	5.0	1	7/20/2006	7/25/2006
085707-043A	SB15-2	96	mg/Kg	29367	5.0	1	7/20/2006	7/25/2006
085707-044A	SB16-0	49	mg/Kg	29367	5.0	1	7/20/2006	7/25/2006
085707-045A	SB16-1	180	mg/Kg	29367	5.0	1	7/20/2006	7/25/2006
085707-046A	SB16-2	49	mg/Kg	29367	5.0	1	7/20/2006	7/25/2006
085707-047A	SB17-0	23	mg/Kg	29367	5.0	1	7/20/2006	7/25/2006
085707-048A	SB17-1	21	mg/Kg	29367	5.0	1	7/20/2006	7/25/2006
085707-049A	SB17-2	23	mg/Kg	29367	5.0	1	7/20/2006	7/25/2006
085707-050A	SB18-0	83	mg/Kg	29367	5.0	1	7/20/2006	7/25/2006
085707-051A	SB18-1	54	mg/Kg	29367	5.0	1	7/20/2006	7/25/2006
085707-052A	SB18-2	65	mg/Kg	29367	5.0	1	7/20/2006	7/25/2006
085707-053A	SB19-0	33	mg/Kg	29367	5.0	1	7/20/2006	7/25/2006
085707-054A	SB19-1	16	mg/Kg	29367	5.0	1	7/20/2006	7/25/2006

Qualifiers:

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

Advanced Technology Laboratories

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

Advanced Technology Laboratories

Date: 7/26/2006

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CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	085707
Project:	SR 101- TAM TRAIL, E8348-06-01	**Date Received**	7/22/2006 8:45:00 AM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
085707-055A	SB19-2	91	mg/Kg	29367	5.0	1	7/20/2006	7/25/2006
085707-056A	SB20-0	13	mg/Kg	29367	5.0	1	7/20/2006	7/25/2006
085707-057A	SB21-0	18	mg/Kg	29367	5.0	1	7/20/2006	7/25/2006
085707-058A	SB21-1	46	mg/Kg	29367	5.0	1	7/20/2006	7/25/2006
085707-059A	SB21-2	170	mg/Kg	29367	5.0	1	7/20/2006	7/25/2006
085707-060A	SB22-0	18	mg/Kg	29367	5.0	1	7/20/2006	7/25/2006
085707-061A	SB22-1	15	mg/Kg	29368	5.0	1	7/20/2006	7/25/2006
085707-062A	SB22-2	ND	mg/Kg	29368	5.0	1	7/20/2006	7/25/2006
085707-063A	SB23-0	27	mg/Kg	29368	5.0	1	7/20/2006	7/25/2006
085707-064A	SB23-1	34	mg/Kg	29368	5.0	1	7/20/2006	7/25/2006
085707-065A	SB23-2	17	mg/Kg	29368	5.0	1	7/20/2006	7/25/2006
085707-066A	SB24-0	17	mg/Kg	29368	5.0	1	7/20/2006	7/25/2006
085707-067A	SB24-1	ND	mg/Kg	29368	5.0	1	7/20/2006	7/25/2006
085707-068A	SB24-2	15	mg/Kg	29368	5.0	1	7/20/2006	7/25/2006
085707-069A	SB25-0	7.8	mg/Kg	29368	5.0	1	7/20/2006	7/25/2006
085707-070A	SB25-1	8.8	mg/Kg	29368	5.0	1	7/20/2006	7/25/2006
085707-071A	SB25-2	10	mg/Kg	29368	5.0	1	7/20/2006	7/25/2006
085707-072A	SB26-0	26	mg/Kg	29368	5.0	1	7/20/2006	7/25/2006

Qualifiers:

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

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

Advanced Technology Laboratories

Date: 7/26/2006

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EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	085707
Project:	SR 101- TAM TRAIL, E8348-06-01	**Date Received**	7/22/2006 8:45:00 AM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
085707-073A	SB26-1	11	mg/Kg	29368	5.0	1	7/20/2006	7/25/2006
085707-074A	SB26-2	10	mg/Kg	29368	5.0	1	7/20/2006	7/25/2006
085707-075A	SB27-0	13	mg/Kg	29368	5.0	1	7/20/2006	7/25/2006
085707-076A	SB27-1	9.1	mg/Kg	29368	5.0	1	7/20/2006	7/25/2006
085707-077A	SB27-2	9.6	mg/Kg	29368	5.0	1	7/20/2006	7/25/2006
085707-078A	SB28-0	43	mg/Kg	29368	5.0	1	7/20/2006	7/25/2006
085707-079A	SB28-1	ND	mg/Kg	29368	5.0	1	7/20/2006	7/25/2006
085707-080A	SB28-2	ND	mg/Kg	29368	5.0	1	7/20/2006	7/25/2006
085707-081A	SB29-0	78	mg/Kg	29369	5.0	1	7/20/2006	7/25/2006
085707-082A	SB29-1	22	mg/Kg	29369	5.0	1	7/20/2006	7/25/2006
085707-083A	SB29-2	14	mg/Kg	29369	5.0	1	7/20/2006	7/25/2006

Qualifiers:

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

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

Advanced Technology Laboratories

Date: 7/26/2006

pH
EPA 9045C

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	085707
Project:	SR 101- TAM TRAIL, E8348-06-01	**Date Received**	7/22/2006 8:45:00 AM
Project No:		**Matrix:**	Soil
Analyte:	pH	**Analyst:**	RSJ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
085707-001A	SB1-0	6.8	pH Units	R65846	0.10	1	7/21/2006	7/24/2006
085707-011A	SB4-1	7.2	pH Units	R65846	0.10	1	7/21/2006	7/24/2006
085707-021A	SB8-0	6.6	pH Units	R65846	0.10	1	7/21/2006	7/24/2006
085707-031A	SB11-2	6.5	pH Units	R65846	0.10	1	7/21/2006	7/24/2006
085707-041A	SB15-0	5.3	pH Units	R65846	0.10	1	7/20/2006	7/24/2006
085707-051A	SB18-1	6.8	pH Units	R65846	0.10	1	7/20/2006	7/24/2006
085707-061A	SB22-1	7.2	pH Units	R65846	0.10	1	7/20/2006	7/24/2006
085707-071A	SB25-2	7.2	pH Units	R65846	0.10	1	7/20/2006	7/24/2006
085707-081A	SB29-0	5.8	pH Units	R65846	0.10	1	7/20/2006	7/24/2006

Qualifiers:

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

Advanced Technology Laboratories

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CLIENT: Geocon Consultants, Inc.
Work Order: 085707
Project: SR 101- TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: MB-29364A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 7/25/2006	RunNo: 65875
Client ID: PBS	Batch ID: 29364	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/25/2006	SeqNo: 978939

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

Sample ID: LCS-29364	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 7/25/2006	RunNo: 65875
Client ID: LCSS	Batch ID: 29364	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/25/2006	SeqNo: 978940

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	266.159	5.0	250.0	0	106	80	120				

Sample ID: 085707-010ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 7/25/2006	RunNo: 65875
Client ID: SB4-0	Batch ID: 29364	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/25/2006	SeqNo: 978951

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	73.831	5.0						65.07	12.6	20	

Sample ID: 085707-010AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 7/25/2006	RunNo: 65875
Client ID: SB4-0	Batch ID: 29364	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/25/2006	SeqNo: 978952

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	275.133	5.0	250.0	65.07	84.0	37	128				

Sample ID: MB-29364B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 7/25/2006	RunNo: 65875
Client ID: PBS	Batch ID: 29364	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/25/2006	SeqNo: 978953

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

Qualifiers:

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

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CLIENT: Geocon Consultants, Inc.
Work Order: 085707
Project: SR 101- TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **085707-020ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/25/2006** RunNo: **65875**
Client ID: **SB7-1** Batch ID: **29364** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **7/25/2006** SeqNo: **978964**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	140.789	5.0						167.7	17.4	20	

Sample ID: **085707-020AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/25/2006** RunNo: **65875**
Client ID: **SB7-1** Batch ID: **29364** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **7/25/2006** SeqNo: **978965**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	414.162	5.0	250.0	167.7	98.6	37	128				

Qualifiers:

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

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CLIENT: Geocon Consultants, Inc.
Work Order: 085707
Project: SR 101- TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-29365A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/25/2006** RunNo: **65876**
Client ID: **PBS** Batch ID: **29365** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **7/25/2006** SeqNo: **978967**

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

Sample ID: **LCS-29365** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/25/2006** RunNo: **65876**
Client ID: **LCSS** Batch ID: **29365** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **7/25/2006** SeqNo: **978968**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	258.120	5.0	250.0	0	103	80	120				

Sample ID: **085707-030ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/25/2006** RunNo: **65876**
Client ID: **SB11-1** Batch ID: **29365** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **7/25/2006** SeqNo: **978979**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	33.596	5.0						35.42	5.28	20	

Sample ID: **085707-030AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/25/2006** RunNo: **65876**
Client ID: **SB11-1** Batch ID: **29365** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **7/25/2006** SeqNo: **978980**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	240.991	5.0	250.0	35.42	82.2	37	128				

Sample ID: **MB-29365B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/25/2006** RunNo: **65876**
Client ID: **PBS** Batch ID: **29365** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **7/25/2006** SeqNo: **978981**

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

Qualifiers:

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

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CLIENT: Geocon Consultants, Inc.
Work Order: 085707
Project: SR 101- TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **085707-040ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/25/2006** RunNo: **65876**
Client ID: **SB14-2** Batch ID: **29365** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **7/25/2006** SeqNo: **978992**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	44.450	5.0						31.06	35.5	20	R

Sample ID: **085707-040AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/25/2006** RunNo: **65876**
Client ID: **SB14-2** Batch ID: **29365** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **7/25/2006** SeqNo: **978993**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	241.158	5.0	250.0	31.06	84.0	37	128				

Qualifiers:

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

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CLIENT: Geocon Consultants, Inc.
Work Order: 085707
Project: SR 101- TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: MB-29367A | SampType: MBLK | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 7/25/2006 | RunNo: 65877
Client ID: PBS | Batch ID: 29367 | TestNo: EPA 6010B | EPA 3050M | Analysis Date: 7/25/2006 | SeqNo: 978995

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

Sample ID: LCS-29367 | SampType: LCS | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 7/25/2006 | RunNo: 65877
Client ID: LCSS | Batch ID: 29367 | TestNo: EPA 6010B | EPA 3050M | Analysis Date: 7/25/2006 | SeqNo: 978996

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	262.740	5.0	250.0	0	105	80	120				

Sample ID: 085707-050ADUP | SampType: DUP | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 7/25/2006 | RunNo: 65877
Client ID: SB18-0 | Batch ID: 29367 | TestNo: EPA 6010B | EPA 3050M | Analysis Date: 7/25/2006 | SeqNo: 979007

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	65.307	5.0						83.39	24.3	20	R

Sample ID: 085707-050AMS | SampType: MS | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 7/25/2006 | RunNo: 65877
Client ID: SB18-0 | Batch ID: 29367 | TestNo: EPA 6010B | EPA 3050M | Analysis Date: 7/25/2006 | SeqNo: 979008

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	272.425	5.0	250.0	83.39	75.6	37	128				

Sample ID: MB-29367B | SampType: MBLK | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 7/25/2006 | RunNo: 65877
Client ID: PBS | Batch ID: 29367 | TestNo: EPA 6010B | EPA 3050M | Analysis Date: 7/25/2006 | SeqNo: 979009

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

Qualifiers:

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

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CLIENT: Geocon Consultants, Inc.
Work Order: 085707
Project: SR 101- TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **085707-060ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/25/2006** RunNo: **65877**
Client ID: **SB22-0** Batch ID: **29367** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **7/25/2006** SeqNo: **979020**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	13.939	5.0						17.98	25.3	20	R

Sample ID: **085707-060AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/25/2006** RunNo: **65877**
Client ID: **SB22-0** Batch ID: **29367** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **7/25/2006** SeqNo: **979021**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	206.528	5.0	250.0	17.98	75.4	37	128				

Qualifiers:

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

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CLIENT: Geocon Consultants, Inc.
Work Order: 085707
Project: SR 101- TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: MB-29368A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 7/25/2006	RunNo: 65885
Client ID: PBS	Batch ID: 29368	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/25/2006	SeqNo: 979183

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

Sample ID: LCS-29368	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 7/25/2006	RunNo: 65885
Client ID: LCSS	Batch ID: 29368	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/25/2006	SeqNo: 979184

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	258.747	5.0	250.0	0	103	80	120				

Sample ID: 085707-070ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 7/25/2006	RunNo: 65885
Client ID: SB25-1	Batch ID: 29368	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/25/2006	SeqNo: 979195

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.425	5.0						8.759	7.33	20	

Sample ID: 085707-070AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 7/25/2006	RunNo: 65885
Client ID: SB25-1	Batch ID: 29368	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/25/2006	SeqNo: 979196

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	198.254	5.0	250.0	8.759	75.8	37	128				

Sample ID: MB-29368B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 7/25/2006	RunNo: 65885
Client ID: PBS	Batch ID: 29368	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 7/25/2006	SeqNo: 979197

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

Qualifiers:

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

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CLIENT: Geocon Consultants, Inc.
Work Order: 085707
Project: SR 101- TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **085707-080ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/25/2006** RunNo: **65885**
Client ID: **SB28-2** Batch ID: **29368** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **7/25/2006** SeqNo: **979208**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	10.677	5.0						4.868	74.7	20	R

Sample ID: **085707-080AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/25/2006** RunNo: **65885**
Client ID: **SB28-2** Batch ID: **29368** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **7/25/2006** SeqNo: **979209**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	208.286	5.0	250.0	4.868	81.4	37	128				

Qualifiers:

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

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CLIENT: Geocon Consultants, Inc.
Work Order: 085707
Project: SR 101- TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-29369A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/25/2006** RunNo: **65886**
Client ID: **PBS** Batch ID: **29369** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **7/25/2006** SeqNo: **979211**

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

Sample ID: **LCS-29369** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/25/2006** RunNo: **65886**
Client ID: **LCSS** Batch ID: **29369** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **7/25/2006** SeqNo: **979212**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	253.000	5.0	250.0	0	101	80	120				

Sample ID: **085707-083ADUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/25/2006** RunNo: **65886**
Client ID: **SB29-2** Batch ID: **29369** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **7/25/2006** SeqNo: **979216**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	11.195	5.0						14.19	23.6	20	R

Sample ID: **085707-083AMS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **7/25/2006** RunNo: **65886**
Client ID: **SB29-2** Batch ID: **29369** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **7/25/2006** SeqNo: **979217**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	223.403	5.0	250.0	14.19	83.7	37	128				

Qualifiers:

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
ND Not Detected at the Reporting Limit
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: 085707
Project: SR 101- TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: **085707-081ADUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: RunNo: **65846**
Client ID: **SB29-0** Batch ID: **R65846** TestNo: **EPA 9045C** Analysis Date: **7/24/2006** SeqNo: **978323**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	5.760	0.10						5.810	0.864	20	

Qualifiers:

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

CHAIN OF CUSTODY RECORD

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

FOR LABORATORY USE ONLY:

P.O.#:

Logged By: [signature] Date: 7/22/06

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

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

Client: GEOCON
Attn: C. MERRITT
Address: 2356 RESEARCH DR
City: LIVERMORE State: CA Zip Code: 94550
TEL: (925) 371-5900
FAX: (") " 5915

Project Name: SR 101 – TRAM TRAIL Project #: E8348-06-01 Sampler: (Printed Name) C. MERRITT (Signature)

Relinquished by: (Signature and Printed Name) CHRIS MERRITT Date: 7-21-06 Time: 1130 Received by: (Signature and Printed Name) [signature] Date: 7/22/06 Time: 0845
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

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

Send Report To:
Attn:
Co:
Address
City State Zip

Bill To:
Attn:
Co:
Address
City State Zip

Special Instructions/Comments:
SEE ATTACHED INSTRUCTIONS
RETURN COOLERS PLEASE
HOMOGENIZE SAMPLES

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

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

Circle or Add Analysis(es) Requested: 8081A (Pesticides), 8082 (PCB), 8260B (Volatiles), 8270C (BNA), 6010B (Total Metals) – Pb, 8015B (GRO) / BTEX, 8015B (DRO)

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

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8081A	8082	8260B	8270C	6010B	8015B (GRO) / BTEX	8015B (DRO)	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	085707-001/003	SB1 – 0,1,2	7/21/06	1200				X				X				E	3	J G		
	-004/006	2																		
	-007/009	3																		
	-010/012	4																		
	-013/015	5																		
	-016/018	6																		
	-019/020	7 – ~~0,1~~															2			Refusal 18"
	-021/023	8 – ~~0,1,2~~															3			
	-024/025	9 – 0,1															2			Refusal 18"
	-026/028	10 – 0,1,2															3			

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

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

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

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

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

CHAIN OF CUSTODY RECORD

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

FOR LABORATORY USE ONLY:

P.O.#:

Logged By: Date: 7/22/06

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

Sample Condition Upon Receipt: 1. CHILLED 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:
Attn: SEE Pg 1
Address:
City State Zip Code
TEL: ( )
FAX: ( )
Project Name: SEE Pg 1 Project #:
Sampler: (Printed Name) (Signature)

Relinquished by: (Signature and Printed Name) CHRIS MERRITT Date: 7-21-06 Time: 1730 Received by: (Signature and Printed Name) Date: 7/22/06 Time: 0845
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

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

Send Report To:
Attn: Pg 1
Co:
Address
City State Zip

Bill To:
Attn:
Co:
Address
City State Zip

Special Instructions/Comments:

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

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

Circle or Add Analysis(es) Requested: 8081A (Pesticides), 8082 (PCB), 8260B (Volatiles), 8270C (BNA), 6010B (Total Metal) Pb, 8015B (GRO) / BTEX, 8015B (DRO)

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

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

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal) Pb	8015B (GRO) / BTEX	8015B (DRO)	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	07-707-029/031	SB11 — 0, 1, 2	7/21/06	1200				X				X				E	3	J		
	-032/034	12	↓	↓				↓				↓				↓	↓	↓		
	-035/037	13	↓	↓																
	-038/040	14	7/21/06	1600																
	-041/043	15	↓	↓																
	-044/046	16																		
	-047/049	17																		
	-050/052	18																		
	053/055	19																		
	056	20 — 0	↓	↓				↓				↓				↓	1	J		Refrigerate

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

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

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

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

CHAIN OF CUSTODY RECORD

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

FOR LABORATORY USE ONLY:

P.O.#:
Logged By: Date: 7/22/06

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

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

Client:
Attn:
Project Name: SLE Rg 1 Project #:
Address:
City State Zip Code
TEL: ( )
FAX: ( )
Sampler: (Printed Name) (Signature)

Relinquished by: (Signature and Printed Name) Citlalis Merritt Date: 7-21-06 Time: 1730 Received by: (Signature and Printed Name) Date: 07/22/06 Time: 0845
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

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

Send Report To:
Attn: Rg 1
Co:
Address
City State Zip

Bill To:
Attn:
Co:
Address
City State Zip

Special Instructions/Comments:

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

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

Circle or Add Analysis(es) Requested: 8081A (Pesticides), 8082 (PCB), 8260B (Volatiles), 8270C (BNA), 6010B (Total Metal) (Pb), 8015B (GRO) / BTEX, 8015B (DRO)

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

Q A / Q C: RTNE ☐ CT ☑ SWRCB ☐ Logcode ____ OTHER ____

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal) (Pb)	8015B (GRO) / BTEX	8015B (DRO)	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	057707 - 057/055	SB21 - 0,1,2	7/20/06	1610				X				X				E	3	5		
	-060/062	22																		
	-063/065	23																		
	-066/068	24																		
	-069/071	25																		
	-072/074	26																		
	-075/077	27																		
	-078/080	28																		
	-081/083	29																		

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

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

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

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

Diane Galvan

From: Rick Day [day@geoconinc.com]
Sent: Wednesday, July 26, 2006 1:29 PM
To: Diane Galvan
Subject: RE: Results - SR 101- TAM TRAIL (085707)

Correct – please hold WET, WET-DI, and TCLP analysis until further notice.

Thanks,
Rick.

****

Richard Day, PG, CEG, CHG
Geocon Consultants, Inc.
2356 Research Drive
Livermore, CA 94550
925-371-5900, ext. 201 (office)
925-371-5915 (fax)
925-872-5860 (mobile)
day@geoconinc.com
www.geoconinc.com

****

-----Original Message-----
From: Diane Galvan [mailto:Diane@atlglobal.com]
Sent: Wednesday, July 26, 2006 12:29 PM
To: day@geoconinc.com
Subject: FW: Results - SR 101- TAM TRAIL (085707)

Hi Rick,

Did you want me to hold off on the WET/WET-DI and TCLP for this one too? Please advise.

Thanks,

Diane

August 01, 2006

Chris Merritt
Geocon Consultants, Inc.
2356 Research Drive
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

RECEIVED
AUG 07 2006
By

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
Arizona: AZ0689
CSDLAC No.: 10196
Workorder No.: 085707

RE: SR 101- TAM TRAIL, E8348-06-01

Attention: Chris Merritt

Enclosed are the results for sample(s) received on July 22, 2006 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: SR 101- TAM TRAIL, E8348-06-01
Lab Order: 085707

CASE NARRATIVE

Analytical Comments for Method 7420

Dilution was necessary for samples 085707-026A and 085707-041A, due to sample matrix.

RPD for Duplicate (DUP) is outside criteria for samples 085707-009ADUP and 085707-042ADUP; 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

Date: 8/1/2006

LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	085707
Project:	SR 101- TAM TRAIL, E8348-06-01	**Date Received**	7/22/2006 8:45:00 AM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
085707-001A	SB1-0	3.0	mg/L	R66124	0.25	1	7/21/2006	8/1/2006
085707-004A	SB2-0	2.5	mg/L	R66124	0.25	1	7/21/2006	8/1/2006
085707-007A	SB3-0	9.9	mg/L	R66124	0.25	1	7/21/2006	8/1/2006
085707-008A	SB3-1	7.4	mg/L	R66124	0.25	1	7/21/2006	8/1/2006
085707-009A	SB3-2	6.8	mg/L	R66124	0.25	1	7/21/2006	8/1/2006
085707-010A	SB4-0	2.4	mg/L	R66129	0.25	1	7/21/2006	8/1/2006
085707-011A	SB4-1	4.1	mg/L	R66129	0.25	1	7/21/2006	8/1/2006
085707-012A	SB4-2	4.5	mg/L	R66129	0.25	1	7/21/2006	8/1/2006
085707-016A	SB6-0	3.4	mg/L	R66129	0.25	1	7/21/2006	8/1/2006
085707-017A	SB6-1	6.1	mg/L	R66129	0.25	1	7/21/2006	8/1/2006
085707-018A	SB6-2	3.9	mg/L	R66129	0.25	1	7/21/2006	8/1/2006
085707-019A	SB7-0	6.6	mg/L	R66129	0.25	1	7/21/2006	8/1/2006
085707-020A	SB7-1	7.5	mg/L	R66129	0.25	1	7/21/2006	8/1/2006
085707-021A	SB8-0	9.7	mg/L	R66129	0.25	1	7/21/2006	8/1/2006
085707-022A	SB8-1	3.3	mg/L	R66129	0.25	1	7/21/2006	8/1/2006
085707-023A	SB8-2	3.8	mg/L	R66129	0.25	1	7/21/2006	8/1/2006
085707-024A	SB9-0	9.9	mg/L	R66129	0.25	1	7/21/2006	8/1/2006
085707-025A	SB9-1	3.6	mg/L	R66129	0.25	1	7/21/2006	8/1/2006

Qualifiers:

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

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

Advanced Technology Laboratories

Date: 8/1/2006

LEAD BY ATOMIC ABSORPTION WET/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	085707
Project:	SR 101- TAM TRAIL, E8348-06-01	**Date Received**	7/22/2006 8:45:00 AM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
085707-026A	SB10-0	29	mg/L	R66129	1.2	5	7/21/2006	8/1/2006
085707-027A	SB10-1	2.7	mg/L	R66129	0.25	1	7/21/2006	8/1/2006
085707-028A	SB10-2	4.6	mg/L	R66129	0.25	1	7/21/2006	8/1/2006
085707-032A	SB12-0	9.3	mg/L	R66129	0.25	1	7/21/2006	8/1/2006
085707-038A	SB14-0	3.2	mg/L	R66129	0.25	1	7/20/2006	8/1/2006
085707-041A	SB15-0	14	mg/L	R66129	0.50	2	7/20/2006	8/1/2006
085707-042A	SB15-1	5.0	mg/L	R66129	0.25	1	7/20/2006	8/1/2006
085707-043A	SB15-2	3.1	mg/L	R66130	0.25	1	7/20/2006	8/1/2006
085707-045A	SB16-1	8.8	mg/L	R66130	0.25	1	7/20/2006	8/1/2006
085707-050A	SB18-0	4.0	mg/L	R66130	0.25	1	7/20/2006	8/1/2006
085707-051A	SB18-1	3.4	mg/L	R66130	0.25	1	7/20/2006	8/1/2006
085707-052A	SB18-2	3.2	mg/L	R66130	0.25	1	7/20/2006	8/1/2006
085707-055A	SB19-2	6.1	mg/L	R66130	0.25	1	7/20/2006	8/1/2006
085707-059A	SB21-2	8.0	mg/L	R66130	0.25	1	7/20/2006	8/1/2006
085707-081A	SB29-0	2.3	mg/L	R66130	0.25	1	7/20/2006	8/1/2006

Qualifiers:

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

Advanced Technology Laboratories

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

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

CLIENT: Geocon Consultants, Inc.
Work Order: 085707
Project: SR 101- TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **083986-073A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: RunNo: **66124**
Client ID: **ZZZZZZ** Batch ID: **R66124** TestNo: **WET/ EPA 74** Analysis Date: **8/1/2006** SeqNo: **983047**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	46.102	2.5						45.24	1.88	20	

Sample ID: **083986-073A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: RunNo: **66124**
Client ID: **ZZZZZZ** Batch ID: **R66124** TestNo: **WET/ EPA 74** Analysis Date: **8/1/2006** SeqNo: **983048**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	50.502	2.5	5.000	45.24	105	70	130				

Sample ID: **083986-073A-MSD** SampType: **MSD** TestCode: **7420_ST** Units: **mg/L** Prep Date: RunNo: **66124**
Client ID: **ZZZZZZ** Batch ID: **R66124** TestNo: **WET/ EPA 74** Analysis Date: **8/1/2006** SeqNo: **983049**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	51.181	2.5	5.000	45.24	119	70	130	50.50	1.34	20	

Sample ID: **MB-29448B** SampType: **mblk** TestCode: **7420_ST** Units: **mg/L** Prep Date: RunNo: **66124**
Client ID: **PBS** Batch ID: **R66124** TestNo: **WET/ EPA 74** Analysis Date: **8/1/2006** SeqNo: **983050**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.067	0.25									

Sample ID: **085707-009A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: RunNo: **66124**
Client ID: **SB3-2** Batch ID: **R66124** TestNo: **WET/ EPA 74** Analysis Date: **8/1/2006** SeqNo: **983061**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.216	0.25						6.785	26.1	20	R

Qualifiers:

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

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

CLIENT: Geocon Consultants, Inc.
Work Order: 085707
Project: SR 101 - TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **085707-009A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: RunNo: **66124**
Client ID: **SB3-2** Batch ID: **R66124** TestNo: **WET/ EPA 74** Analysis Date: **8/1/2006** SeqNo: **983062**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	12.249	0.50	5.000	6.785	109	70	130				

Sample ID: **085707-009A-MSD** SampType: **MSD** TestCode: **7420_ST** Units: **mg/L** Prep Date: RunNo: **66124**
Client ID: **SB3-2** Batch ID: **R66124** TestNo: **WET/ EPA 74** Analysis Date: **8/1/2006** SeqNo: **983063**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	12.263	0.50	5.000	6.785	110	70	130	12.25	0.114	20	

Sample ID: **MB-29448** SampType: **mblk** TestCode: **7420_ST** Units: **mg/L** Prep Date: RunNo: **66124**
Client ID: **PBS** Batch ID: **R66124** TestNo: **WET/ EPA 74** Analysis Date: **8/1/2006** SeqNo: **983064**

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

Sample ID: **MB-29448A** SampType: **mblk** TestCode: **7420_ST** Units: **mg/L** Prep Date: RunNo: **66124**
Client ID: **PBS** Batch ID: **R66124** TestNo: **WET/ EPA 74** Analysis Date: **8/1/2006** SeqNo: **983065**

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

Sample ID: **LCS-29448** SampType: **lcs** TestCode: **7420_ST** Units: **mg/L** Prep Date: RunNo: **66124**
Client ID: **LCSS** Batch ID: **R66124** TestNo: **WET/ EPA 74** Analysis Date: **8/1/2006** SeqNo: **983066**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.381	0.25	5.000	0	108	80	120				

Qualifiers:

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

Calculations are based on raw values

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

CLIENT: Geocon Consultants, Inc.
Work Order: 085707
Project: SR 101- TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **MB-29449** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: RunNo: **66129**
Client ID: **PBS** Batch ID: **R66129** TestNo: **WET/ EPA 74** Analysis Date: **8/1/2006** SeqNo: **983154**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.127	0.25									

Sample ID: **MB-29449A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: RunNo: **66129**
Client ID: **PBS** Batch ID: **R66129** TestNo: **WET/ EPA 74** Analysis Date: **8/1/2006** SeqNo: **983155**

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

Sample ID: **LCS-29449** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: RunNo: **66129**
Client ID: **LCSS** Batch ID: **R66129** TestNo: **WET/ EPA 74** Analysis Date: **8/1/2006** SeqNo: **983156**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.027	0.25	5.000	0.1274	98.0	80	120				

Sample ID: **085707-022A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: RunNo: **66129**
Client ID: **SB8-1** Batch ID: **R66129** TestNo: **WET/ EPA 74** Analysis Date: **8/1/2006** SeqNo: **983167**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.748	0.25						3.330	19.1	20	

Sample ID: **085707-022A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: RunNo: **66129**
Client ID: **SB8-1** Batch ID: **R66129** TestNo: **WET/ EPA 74** Analysis Date: **8/1/2006** SeqNo: **983168**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.654	0.25	5.000	3.330	86.5	70	130				

Qualifiers:

E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
ND Not Detected at the Reporting Limit
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: 085707
Project: SR 101- TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **MB-29449B** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: RunNo: **66129**
Client ID: **PBS** Batch ID: **R66129** TestNo: **WET/ EPA 74** Analysis Date: **8/1/2006** SeqNo: **983169**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.062	0.25									

Sample ID: **085707-042A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: RunNo: **66129**
Client ID: **SB15-1** Batch ID: **R66129** TestNo: **WET/ EPA 74** Analysis Date: **8/1/2006** SeqNo: **983180**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.136	0.25						5.035	46.5	20	R

Sample ID: **085707-042AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: RunNo: **66129**
Client ID: **SB15-1** Batch ID: **R66129** TestNo: **WET/ EPA 74** Analysis Date: **8/1/2006** SeqNo: **983181**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.751	0.50	5.000	5.035	94.3	70	130				

Qualifiers:

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

Advanced Technology Laboratories
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CLIENT: Geocon Consultants, Inc.
Work Order: 085707
Project: SR 101- TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **MB-29450** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: RunNo: **66130**
Client ID: **PBS** Batch ID: **R66130** TestNo: **WET/ EPA 74** Analysis Date: **8/1/2006** SeqNo: **983183**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.064	0.25									

Sample ID: **MB-29450A** SampType: **MBLK** TestCode: **7420_ST** Units: **mg/L** Prep Date: RunNo: **66130**
Client ID: **PBS** Batch ID: **R66130** TestNo: **WET/ EPA 74** Analysis Date: **8/1/2006** SeqNo: **983184**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.100	0.25									

Sample ID: **LCS-29450** SampType: **LCS** TestCode: **7420_ST** Units: **mg/L** Prep Date: RunNo: **66130**
Client ID: **LCSS** Batch ID: **R66130** TestNo: **WET/ EPA 74** Analysis Date: **8/1/2006** SeqNo: **983185**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.007	0.25	5.000	0.06384	98.9	80	120				

Sample ID: **085707-081A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: RunNo: **66130**
Client ID: **SB29-0** Batch ID: **R66130** TestNo: **WET/ EPA 74** Analysis Date: **8/1/2006** SeqNo: **983194**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.174	0.25						2.321	6.53	20	

Sample ID: **085707-081AMS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: RunNo: **66130**
Client ID: **SB29-0** Batch ID: **R66130** TestNo: **WET/ EPA 74** Analysis Date: **8/1/2006** SeqNo: **983195**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.799	0.25	5.000	2.321	89.6	70	130				

Qualifiers:

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

Diane Galvan

From: Rick Day [day@geoconinc.com]
Sent: Wednesday, July 26, 2006 4:24 PM
To: Diane Galvan
Subject: RE: Results - SR 101- TAM TRAIL (085707)

Diane –

Please run WET lead on samples with total lead > 50 mg/kg. Standard TAT.

Sample ID	Total
SB1-0	53
SB2-0	62
SB3-0	150
SB3-1	140
SB3-2	170
SB4-0	65
SB4-1	69
SB4-2	100
SB6-0	54
SB6-1	130
SB6-2	80
SB7-0	130
SB7-1	170
SB8-0	160
SB8-1	64
SB8-2	87
SB9-0	120
SB9-1	79
SB10-0	670
SB10-1	160
SB10-2	88
SB12-0	160
SB14-0	69
SB15-0	270
SB15-1	120
SB15-2	96
SB16-1	180
SB18-0	83
SB18-1	54
SB18-2	65
SB19-2	91
SB21-2	170
SB29-0	78

Thanks,
Rick.

August 08, 2006

Chris Merritt
Geocon Consultants, Inc.
2356 Research Drive
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

RECEIVED
AUG 14 2006
By

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
Arizona: AZ0689
CSDLAC No.: 10196
Workorder No.: 085707

RE: SR 101- TAM TRAIL, E8348-06-01

Attention: Chris Merritt

Enclosed are the results for sample(s) received on July 22, 2006 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

Advanced Technology Laboratories

Date: 8/8/2006

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	085707
Project:	SR 101- TAM TRAIL, E8348-06-01	**Date Received**	7/22/2006 8:45:00 AM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
085707-007A	SB3-0	ND	mg/L	R66352	0.25	1	7/21/2006	8/8/2006
085707-008A	SB3-1	ND	mg/L	R66352	0.25	1	7/21/2006	8/8/2006
085707-009A	SB3-2	ND	mg/L	R66352	0.25	1	7/21/2006	8/8/2006
085707-017A	SB6-1	ND	mg/L	R66352	0.25	1	7/21/2006	8/8/2006
085707-019A	SB7-0	ND	mg/L	R66352	0.25	1	7/21/2006	8/8/2006
085707-020A	SB7-1	0.40	mg/L	R66352	0.25	1	7/21/2006	8/8/2006
085707-021A	SB8-0	ND	mg/L	R66352	0.25	1	7/21/2006	8/8/2006
085707-024A	SB9-0	ND	mg/L	R66352	0.25	1	7/21/2006	8/8/2006
085707-026A	SB10-0	0.30	mg/L	R66352	0.25	1	7/21/2006	8/8/2006
085707-032A	SB12-0	ND	mg/L	R66352	0.25	1	7/21/2006	8/8/2006
085707-041A	SB15-0	ND	mg/L	R66352	0.25	1	7/20/2006	8/8/2006
085707-042A	SB15-1	ND	mg/L	R66352	0.25	1	7/20/2006	8/8/2006
085707-045A	SB16-1	ND	mg/L	R66352	0.25	1	7/20/2006	8/8/2006
085707-055A	SB19-2	ND	mg/L	R66352	0.25	1	7/20/2006	8/8/2006
085707-059A	SB21-2	ND	mg/L	R66352	0.25	1	7/20/2006	8/8/2006

Qualifiers:

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

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

Advanced Technology Laboratories

Date: 8/8/2006

LEAD BY ATOMIC ABSORPTION
EPA 1311/ 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	085707
Project:	SR 101- TAM TRAIL, E8348-06-01	**Date Received**	7/22/2006 8:45:00 AM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
085707-026A	SB10-0	ND	mg/L	29578	0.25	1	7/21/2006	8/5/2006
085707-041A	SB15-0	ND	mg/L	29578	0.25	1	7/20/2006	8/5/2006

Qualifiers:

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

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

Advanced Technology Laboratories

Date: *08-Aug-06*

CLIENT: Geocon Consultants, Inc.
Work Order: 085707
Project: SR 101- TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI

Sample ID: **MB-29583** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: RunNo: **66352**
Client ID: **PBS** Batch ID: **R66352** TestNo: **WET DI/ EPA** Analysis Date: **8/8/2006** SeqNo: **986668**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.136	0.25									

Sample ID: **MB-29583A** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: RunNo: **66352**
Client ID: **PBS** Batch ID: **R66352** TestNo: **WET DI/ EPA** Analysis Date: **8/8/2006** SeqNo: **986669**

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

Sample ID: **LCS-29583** SampType: **LCS** TestCode: **7420_DI** Units: **mg/L** Prep Date: RunNo: **66352**
Client ID: **LCSS** Batch ID: **R66352** TestNo: **WET DI/ EPA** Analysis Date: **8/8/2006** SeqNo: **986670**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.171	0.25	5.000	0.1362	101	80	120				

Sample ID: **085707-032A-DUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: RunNo: **66352**
Client ID: **SB12-0** Batch ID: **R66352** TestNo: **WET DI/ EPA** Analysis Date: **8/8/2006** SeqNo: **986681**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0.1493	0	20	

Sample ID: **085707-032A-MS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: RunNo: **66352**
Client ID: **SB12-0** Batch ID: **R66352** TestNo: **WET DI/ EPA** Analysis Date: **8/8/2006** SeqNo: **986682**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.407	0.25	5.000	0.1493	105	70	130				

Qualifiers:

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

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

CLIENT: Geocon Consultants, Inc.
Work Order: 085707
Project: SR 101- TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI

Sample ID: **MB-29583B** SampType: **MBLK** TestCode: **7420_DI** Units: **mg/L** Prep Date: RunNo: **66352**
Client ID: **PBS** Batch ID: **R66352** TestNo: **WET DI/ EPA** Analysis Date: **8/8/2006** SeqNo: **986683**

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

Sample ID: **085707-059A-DUP** SampType: **DUP** TestCode: **7420_DI** Units: **mg/L** Prep Date: RunNo: **66352**
Client ID: **SB21-2** Batch ID: **R66352** TestNo: **WET DI/ EPA** Analysis Date: **8/8/2006** SeqNo: **986689**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0.1549	0	20	

Sample ID: **085707-059A-MS** SampType: **MS** TestCode: **7420_DI** Units: **mg/L** Prep Date: RunNo: **66352**
Client ID: **SB21-2** Batch ID: **R66352** TestNo: **WET DI/ EPA** Analysis Date: **8/8/2006** SeqNo: **986690**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.254	0.25	5.000	0.1549	102	70	130				

Qualifiers:

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

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CLIENT: Geocon Consultants, Inc.
Work Order: 085707
Project: SR 101- TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: MB-29578A | SampType: MBLK | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/4/2006 | RunNo: 66291
Client ID: PBS | Batch ID: 29578 | TestNo: EPA 1311/ 74 EPA 3010A | Analysis Date: 8/5/2006 | SeqNo: 985523

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

Sample ID: MB-29564A TCLP 1 | SampType: MBLK | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/4/2006 | RunNo: 66291
Client ID: PBS | Batch ID: 29578 | TestNo: EPA 1311/ 74 EPA 3010A | Analysis Date: 8/5/2006 | SeqNo: 985524

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.2									

Sample ID: LCS-29578 | SampType: LCS | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/4/2006 | RunNo: 66291
Client ID: LCSS | Batch ID: 29578 | TestNo: EPA 1311/ 74 EPA 3010A | Analysis Date: 8/5/2006 | SeqNo: 985525

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.060	0.25	1.000	0	106	80	120				

Sample ID: 085707-026A-DUP | SampType: DUP | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/4/2006 | RunNo: 66291
Client ID: SB10-0 | Batch ID: 29578 | TestNo: EPA 1311/ 74 EPA 3010A | Analysis Date: 8/5/2006 | SeqNo: 985536

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.065	0.25						0.05780	0	20	

Sample ID: 085707-026A-MS | SampType: MS | TestCode: 7420_TC | Units: mg/L | Prep Date: 8/4/2006 | RunNo: 66291
Client ID: SB10-0 | Batch ID: 29578 | TestNo: EPA 1311/ 74 EPA 3010A | Analysis Date: 8/5/2006 | SeqNo: 985537

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	13.357	1.2	12.50	0.05780	106	70	130				

Qualifiers:

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

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

CLIENT: Geocon Consultants, Inc.
Work Order: 085707
Project: SR 101- TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **MB-29578B** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/4/2006** RunNo: **66291**
Client ID: **PBS** Batch ID: **29578** TestNo: **EPA 1311/ 74 EPA 3010A** Analysis Date: **8/5/2006** SeqNo: **985538**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.060	0.25									

Sample ID: **MB-29564B TCLP 1** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/4/2006** RunNo: **66291**
Client ID: **PBS** Batch ID: **29578** TestNo: **EPA 1311/ 74 EPA 3010A** Analysis Date: **8/5/2006** SeqNo: **985539**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.2									

Sample ID: **085707-041A-DUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/4/2006** RunNo: **66291**
Client ID: **SB15-0** Batch ID: **29578** TestNo: **EPA 1311/ 74 EPA 3010A** Analysis Date: **8/5/2006** SeqNo: **985541**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0.09008	0	20	

Sample ID: **085707-041A-MS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/4/2006** RunNo: **66291**
Client ID: **SB15-0** Batch ID: **29578** TestNo: **EPA 1311/ 74 EPA 3010A** Analysis Date: **8/5/2006** SeqNo: **985542**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	13.296	1.2	12.50	0.09008	106	70	130				

Qualifiers:

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

Diane Galvan

From: Rick Day [day@geoconinc.com]
Sent: Wednesday, August 02, 2006 3:32 PM
To: Diane Galvan
Subject: WET-DI and TCLP request

TAM Trail
Geocon Project No. E8348-06-01
ATL Lab No. 85707

Diane –

Please run WET-DI and TCLP as shown below. One-week TAT.

Boring	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg)	WET (mg/l)	WET-DI (mg/l)	TCLP (mg/l)
SB3-0	0	0	150	9.9	X	---
SB3-1	0.3	1	140	7.4	X	---
SB3-2	0.6	2	170	6.8	X	---
SB6-1	0.3	1	130	6.1	X	---
SB7-0	0	0	130	6.6	X	---
SB7-1	0.3	1	170	7.5	X	---
SB8-0	0	0	160	9.7	X	---
SB9-0	0	0	120	9.9	X	---
SB10-0	0	0	670	29	X	X
SB12-0	0	0	160	9.3	X	---
SB15-0	0	0	270	14	X	X
SB15-1	0.3	1	120	5.0	X	---
SB16-1	0.3	1	180	8.8	X	---
SB19-2	0.6	2	91	6.1	X	---
SB21-2	0.6	2	170	8.0	X	---

Thanks,
Rick.
****

Richard Day, PG, CEG, CHG
Geocon Consultants, Inc.
2356 Research Drive
Livermore, CA 94550
925-371-5900, ext. 201 (office)
925-371-5915 (fax)
925-872-5860 (mobile)
day@geoconinc.com
www.geoconinc.com

****

August 10, 2006

Rick Day\Chris Merritt
Geocon Consultants, Inc.
2356 Research Drive
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
Arizona: AZ0689
CSDLAC No.: 10196
Workorder No.: 085834

RE: TAM TRAIL, E8348-06-01

Attention: Rick Day\Chris Merritt

Enclosed are the results for sample(s) received on July 29, 2006 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

for

Eddie F. Rodriguez
Laboratory Director

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

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

CLIENT: Geocon Consultants, Inc.
Project: TAM TRAIL, E8348-06-01
Lab Order: 085834

CASE NARRATIVE

Analytical Comments for Method 6010

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are outside recovery criteria for sample 085834-010AMS; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

RPD for Duplicate (DUP) is outside criteria for samples 085834-010ADUP and 085834-020ADUP; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Advanced Technology Laboratories

Date: 8/10/2006

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	085834
Project:	TAM TRAIL, E8348-06-01	**Date Received**	7/29/2006 10:00:00 AM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
085834-001A	NB1-0	210	mg/Kg	29656	5.0	1	7/28/2006	8/10/2006
085834-002A	NB1-1	220	mg/Kg	29656	5.0	1	7/28/2006	8/10/2006
085834-003A	NB1-2	160	mg/Kg	29656	5.0	1	7/28/2006	8/10/2006
085834-004A	NB2-0	670	mg/Kg	29656	5.0	1	7/28/2006	8/10/2006
085834-005A	NB2-1	210	mg/Kg	29656	5.0	1	7/28/2006	8/10/2006
085834-006A	NB2-2	280	mg/Kg	29656	5.0	1	7/28/2006	8/10/2006
085834-007A	NB3-0	350	mg/Kg	29656	5.0	1	7/28/2006	8/10/2006
085834-008A	NB3-1	46	mg/Kg	29656	5.0	1	7/28/2006	8/10/2006
085834-009A	NB3-2	240	mg/Kg	29656	5.0	1	7/28/2006	8/10/2006
085834-010A	NB4-0	1400	mg/Kg	29656	5.0	1	7/28/2006	8/10/2006
085834-011A	NB4-1	1600	mg/Kg	29656	5.0	1	7/28/2006	8/10/2006
085834-012A	NB4-2	80	mg/Kg	29656	5.0	1	7/28/2006	8/10/2006
085834-013A	NB5-0	33	mg/Kg	29656	5.0	1	7/28/2006	8/10/2006
085834-014A	NB5-1	23	mg/Kg	29656	5.0	1	7/28/2006	8/10/2006
085834-015A	NB5-2	840	mg/Kg	29656	5.0	1	7/28/2006	8/10/2006
085834-016A	NB6-0	280	mg/Kg	29656	5.0	1	7/28/2006	8/10/2006
085834-017A	NB6-1	180	mg/Kg	29656	5.0	1	7/28/2006	8/10/2006
085834-018A	NB6-2	110	mg/Kg	29656	5.0	1	7/28/2006	8/10/2006

Qualifiers:

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

Advanced Technology Laboratories

Date: 8/10/2006

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	085834
Project:	TAM TRAIL, E8348-06-01	**Date Received**	7/29/2006 10:00:00 AM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
085834-019A	NB7-0	200	mg/Kg	29656	5.0	1	7/28/2006	8/10/2006
085834-020A	NB7-1	15	mg/Kg	29656	5.0	1	7/28/2006	8/10/2006
085834-021A	NB7-2	8.1	mg/Kg	29657	5.0	1	7/28/2006	8/10/2006

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

Advanced Technology Laboratories

Date: 8/10/2006

pH
EPA 9045C

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	085834
Project:	TAM TRAIL, E8348-06-01	**Date Received**	7/29/2006 10:00:00 AM
Project No:		**Matrix:**	Soil
Analyte:	pH	**Analyst:**	RSJ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
085834-001A	NB1-0	6.5	pH Units	R66096	0.10	1	7/28/2006	7/31/2006
085834-011A	NB4-1	7.7	pH Units	R66096	0.10	1	7/28/2006	7/31/2006
085834-021A	NB7-2	7.5	pH Units	R66096	0.10	1	7/28/2006	7/31/2006

Qualifiers:

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

CLIENT: Geotcon Consultants, Inc.
Work Order: 085834
Project: TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: MB-29656A | SampType: MBLK | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 8/9/2006 | RunNo: 66472
Client ID: PBS | Batch ID: 29656 | TestNo: EPA 6010B | EPA 3050M | Analysis Date: 8/10/2006 | SeqNo: 988651

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

Sample ID: LCS-29656 | SampType: LCS | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 8/9/2006 | RunNo: 66472
Client ID: LCSS | Batch ID: 29656 | TestNo: EPA 6010B | EPA 3050M | Analysis Date: 8/10/2006 | SeqNo: 988652

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	246.237	5.0	250.0	0	98.5	80	120				

Sample ID: 085834-010ADUP | SampType: DUP | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 8/9/2006 | RunNo: 66472
Client ID: NB4-0 | Batch ID: 29656 | TestNo: EPA 6010B | EPA 3050M | Analysis Date: 8/10/2006 | SeqNo: 988663

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1102.704	5.0						1443	26.8	20	R

Sample ID: 085834-010AMS | SampType: MS | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 8/9/2006 | RunNo: 66472
Client ID: NB4-0 | Batch ID: 29656 | TestNo: EPA 6010B | EPA 3050M | Analysis Date: 8/10/2006 | SeqNo: 988664

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1431.448	5.0	250.0	1443	-4.75	37	128				S

Sample ID: MB-29656B | SampType: MBLK | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 8/9/2006 | RunNo: 66472
Client ID: PBS | Batch ID: 29656 | TestNo: EPA 6010B | EPA 3050M | Analysis Date: 8/10/2006 | SeqNo: 988665

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

Qualifiers:

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

CLIENT: Geocon Consultants, Inc.
Work Order: 085834
Project: TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: 085834-020ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 8/9/2006	RunNo: 66472
Client ID: NB7-1	Batch ID: 29656	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 8/10/2006	SeqNo: 988676

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	10.285	5.0						15.15	38.2	20	R

Sample ID: 085834-020AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 8/9/2006	RunNo: 66472
Client ID: NB7-1	Batch ID: 29656	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 8/10/2006	SeqNo: 988677

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	213.559	5.0	250.0	15.15	79.4	37	128				

Qualifiers:

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

CLIENT: Geocon Consultants, Inc.
Work Order: 085834
Project: TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: MB-29657A | SampType: MBLK | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 8/9/2006 | RunNo: 66473
Client ID: PBS | Batch ID: 29657 | TestNo: EPA 6010B EPA 3050M | Analysis Date: 8/10/2006 | SeqNo: 988679

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

Sample ID: LCS-29657 | SampType: LCS | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 8/9/2006 | RunNo: 66473
Client ID: LCSS | Batch ID: 29657 | TestNo: EPA 6010B EPA 3050M | Analysis Date: 8/10/2006 | SeqNo: 988680

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	250.045	5.0	250.0	0	100	80	120				

Sample ID: 085834-021ADUP | SampType: DUP | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 8/9/2006 | RunNo: 66473
Client ID: NB7-2 | Batch ID: 29657 | TestNo: EPA 6010B EPA 3050M | Analysis Date: 8/10/2006 | SeqNo: 988682

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.011	5.0						8.113	14.6	20	

Sample ID: 085834-021AMS | SampType: MS | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 8/9/2006 | RunNo: 66473
Client ID: NB7-2 | Batch ID: 29657 | TestNo: EPA 6010B EPA 3050M | Analysis Date: 8/10/2006 | SeqNo: 988683

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	206.801	5.0	250.0	8.113	79.5	37	128				

Qualifiers:

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

CLIENT: Geocon Consultants, Inc.
Work Order: 085834
Project: TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: **085834-021ADUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: RunNo: **66096**
Client ID: **NB7-2** Batch ID: **R66096** TestNo: **EPA 9045C** Analysis Date: **7/31/2006** SeqNo: **982562**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.170	0.10						7.500	4.50	20	

Qualifiers:

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

CHAIN OF CUSTODY RECORD

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

FOR LABORATORY USE ONLY:

P.O.#:

Logged By: Date:

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

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

Client: GEOCON
Address: 2356 RESEARCH DR
TEL: (925) 371-5900
Attn: RICK DAY \ CHRIS MERRITT
City LIVERMORE State CA Zip Code 94550
FAX: ( ) 5915
Project Name: ~~[illegible]~~ I-580 TRAIL Project #: ~~[illegible]~~ E-3349-06-01
Sampler: (Printed Name) CHRIS MERRITT \ GEUNTOLI (Signature) CM

Relinquished by: (Signature and Printed Name) CHRIS MERRITT Date: Time: Received by: (Signature and Printed Name) Date: 7/24/06 Time: 10:00
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: CM 7-28-06
Print Name Date
CM
Signature

Send Report To: Attn: N/A Co: N/A Address City State Zip

Bill To: Attn: N/A Co: N/A Address City State Zip

Special Instructions/Comments:
INDIVIDUAL SAMPLES FOR ANALYSIS
pH ON 10% @ RANDOM

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

Circle or Add Analysis(es) Requested: 8081A (Pesticides), 8082 (PCB), 8260B (Volatiles), 8270C (BNA), 6010B (Total Metal), 8015B (GRO) / BTEX, 8015B (DRO), TOTAL Pb

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

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

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / BTEX	8015B (DRO)	TOTAL Pb	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	D859834 - H1/003	NB1 - 0,1,2	7-24-06	0700-1030							X		X				E	3	T/M		
	004/005	NB2 - 0,1,2									X										
	007/009	NB3 - 0,1,2									X										
	010/012	NB4 - 0,1,2									X										
	013/015	NB5 - 0,1,2									X										
	016/018	NB6 - 0,1,2									X										
	019/021	NB7 - 0,1,2									X										

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

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

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

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

August 18, 2006

Rick Day\Chris Merritt
Geocon Consultants, Inc.
2356 Research Drive
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
Arizona: AZ0689
CSDLAC No.: 10196
Workorder No.: 085834

RE: TAM TRAIL, E8348-06-01

Attention: Rick Day\Chris Merritt

Enclosed are the results for sample(s) received on July 29, 2006 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 Rodriguez

Eddie F. Rodriguez
Laboratory Director

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

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

Advanced Technology Laboratories

Date: 8/18/2006

LEAD BY ATOMIC ABSORPTION
EPA 1311/ 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	085834
Project:	TAM TRAIL, E8348-06-01	**Date Received**	7/29/2006 10:00:00 AM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	NS

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
085834-004A	NB2-0	3.5	mg/L	29768	1.2	1	7/28/2006	8/15/2006
085834-010A	NB4-0	2.5	mg/L	29768	1.2	1	7/28/2006	8/15/2006
085834-011A	NB4-1	9.7	mg/L	29768	1.2	1	7/28/2006	8/15/2006
085834-015A	NB5-2	ND	mg/L	29768	1.2	1	7/28/2006	8/15/2006

Qualifiers:

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

CLIENT: Geocon Consultants, Inc.
Work Order: 085834
Project: TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **MB-29768A** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2006** RunNo: **66634**
Client ID: **PBS** Batch ID: **29768** TestNo: **EPA 1311/ 74 EPA 3010A** Analysis Date: **8/15/2006** SeqNo: **991568**

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

Sample ID: **MB-29759A TCLP 1** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2006** RunNo: **66634**
Client ID: **PBS** Batch ID: **29768** TestNo: **EPA 1311/ 74 EPA 3010A** Analysis Date: **8/15/2006** SeqNo: **991569**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.2	25.00	0	0	0	0				

Sample ID: **LCS-29768** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2006** RunNo: **66634**
Client ID: **LCSS** Batch ID: **29768** TestNo: **EPA 1311/ 74 EPA 3010A** Analysis Date: **8/15/2006** SeqNo: **991570**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.919	0.25	1.000	0	91.9	80	120				

Sample ID: **085967-008A-MS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2006** RunNo: **66634**
Client ID: **ZZZZZZ** Batch ID: **29768** TestNo: **EPA 1311/ 74 EPA 3010A** Analysis Date: **8/15/2006** SeqNo: **991571**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	13.544	1.2	12.50	0.4982	104	70	130				

Sample ID: **085967-008A-MSD** SampType: **MSD** TestCode: **7420_TC** Units: **mg/L** Prep Date: **8/15/2006** RunNo: **66634**
Client ID: **ZZZZZZ** Batch ID: **29768** TestNo: **EPA 1311/ 74 EPA 3010A** Analysis Date: **8/15/2006** SeqNo: **991572**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	14.130	1.2	12.50	0.4982	109	70	130	13.54	4.24	20	

Qualifiers:

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

CLIENT: Geocon Consultants, Inc.
Work Order: 085834
Project: TAM TRAIL, E8348-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: 085967-008A-DUP SampType: DUP TestCode: 7420_TC Units: mg/L Prep Date: 8/15/2006 RunNo: 66634
Client ID: ZZZZZZ Batch ID: 29768 TestNo: EPA 1311/ 74 EPA 3010A Analysis Date: 8/15/2006 SeqNo: 991573

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.785	1.2									

Sample ID: MB-29768A SampType: MBLK TestCode: 7420_TC Units: mg/L Prep Date: 8/15/2006 RunNo: 66634
Client ID: PBS Batch ID: 29768 TestNo: EPA 1311/ 74 EPA 3010A Analysis Date: 8/16/2006 SeqNo: 992464

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.121	0.25									

Sample ID: MB-29759A TCLP 1 SampType: MBLK TestCode: 7420_TC Units: mg/L Prep Date: 8/15/2006 RunNo: 66634
Client ID: PBS Batch ID: 29768 TestNo: EPA 1311/ 74 EPA 3010A Analysis Date: 8/16/2006 SeqNo: 992465

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.514	1.2									

Sample ID: LCS-29768 SampType: LCS TestCode: 7420_TC Units: mg/L Prep Date: 8/15/2006 RunNo: 66634
Client ID: LCSS Batch ID: 29768 TestNo: EPA 1311/ 74 EPA 3010A Analysis Date: 8/16/2006 SeqNo: 992466

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.119	0.25	1.000	0.1214	99.8	80	120				

Qualifiers:

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

Diane Galvan

From: Rick Day [day@geoconinc.com]
Sent: Friday, August 11, 2006 9:17 AM
To: Diane Galvan
Subject: RE: Results - TAM TRAIL (085834)

Diane –

Please run TCLP on the following four samples:

85834-004	NB2-0
85834-010	NB4-0
85834-011	NB4-1
85834-015	NB5-2

Also, please run pH on three random samples from lab ID 85834.

I need the results by Noon on Friday, August 18 – our draft report is due that day.

Thanks,
Rick

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Richard Day, PG, CEG, CHG
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