FOR CONTRACT NO.: 03-3F4204

INFORMATION HANDOUT

MATERIALS INFORMATION

AERIAL LEAD SITE INVESTIGATION REPORT

ROUTE: 03-PLA-89-T8.6/10.9

AERIAL LEAD
SITE INVESTIGATION REPORT

STATE ROUTE 89
SQUAW VALLEY TO TAHOE CITY
PLACER COUNTY, CALIFORNIA

GEOCON
CONSULTANTS, INC.

GEOTECHNICAL
ENVIRONMENTAL
MATERIALS

PREPARED FOR

CALIFORNIA DEPARTMENT OF TRANSPORTATION
DISTRICT 3

MARYSVILLE, CALIFORNIA

TASK ORDER NO. 03-1A8400-DF
EXPENDITURE AUTHORIZATION NO. 2A9200
GEOCON PROJECT NO. S8475-06-71

JANUARY 2004

GEOCON
CONSULTANTS, INC.
GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS

Project No. S8475-06-71
January 19, 2004

Rajive Chadha, Contract Manager
California Department of Transportation - District 3
Post Office Box 911
Marysville, California 95901

Subject: STATE ROUTE 89 SQUAW VALLEY TO TAHOE CITY (NORTH CANYON)
HIGHWAY IMPROVEMENT PROJECT
PLACER COUNTY, CALIFORNIA
CONTRACT NO. 43A0078
TASK ORDER NO. 03-1A8400-DF
EXPENDITURE AUTHORIZATION NO. 2A9200
AERIAL LEAD SITE INVESTIGATION REPORT

Dear Mr. Chadha:

In accordance with Caltrans Contract No. 43A0078 and Task Order No. 03-1A8400-DF, Geocon Consultants, Inc. has performed environmental engineering services at the project site. The Site consists of State right of way along the unpaved shoulders on State Route 89 from Squaw Valley to Tahoe City, Placer County, California. The accompanying report summarizes the services performed including the excavation of 72 hand-auger soil borings, homogenized soil sampling, and laboratory testing.

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

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.

John E. Juhrend, PE, CEG
Project Manager

REGISTERED PROFESSIONAL ENGINEER
JOHN JUHREND
No. 46681
Exp. 06/30/07
CIVIL
STATE OF CALIFORNIA

Gemma G. Reblando
Sr. Staff Geologist

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(3) Addressee

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AERIAL LEAD SITE INVESTIGATION REPORT

1.0 INTRODUCTION

This Aerial Lead Site Investigation (SI) report for the State Route 89 Squaw Valley to Tahoe City project was prepared under the California Department of Transportation (Caltrans) Contract No. 43A0078 and Task Order (TO) No. 03-1A8400-DF.

1.1 Project Description and Proposed Improvements

The project site consists of unpaved shoulder areas on State Route 89 (SR-89) from Squaw Creek in Squaw Valley to the intersection of SR-89 and State Route 28 in Tahoe City, Placer County, California. Proposed improvements at the project site include lane widening and new traffic signals. The approximate project location is depicted on the attached Vicinity Map, Figure 1 and Site Plans, Figures 2a through 2e.

1.2 General Objectives

The purpose of the scope of work outlined in TO No. 03-1A8400-DF was to evaluate whether impacts due to aerial lead deposition from motor vehicle exhaust exist in the surface and near surface soils within the project boundaries.

The investigative results will be used by Caltrans to inform the construction contractor of the presence of lead impacted soil (if encountered) within the project boundaries for health, safety and soil management/disposal purposes.

2.0 BACKGROUND

2.1 Potential Lead Soil Impacts

Ongoing testing by Caltrans has indicated that aerially-deposited lead exists along major freeway routes due to 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). At sites where soil has not been disturbed, the aerially-deposited lead is generally limited to the upper 0.6 meter (m) (2 feet) of soil within unpaved shoulder and median 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 *California Code of Regulations (CCR)*, Title 22, Division 4.5, Chapter 11, Article 3, § 66261.24. Criteria to classify a waste as "Resource, Conservation, and Recovery Act (RCRA) hazardous" are contained in Chapter 40 of the Code of Federal Regulations (40 CFR), Section 261.

For a 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; 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.

Per Section 25157.8 of the California Health and Safety Code (HSC), on or after January 1, 1999, no person shall dispose waste that contains total lead in excess of 350 mg/kg to land other than a Class I hazardous waste disposal facility.

3.0 SCOPE OF SERVICES

The following scope of services as requested by Caltrans in TO No. 03-1A8400-DF was performed.

3.1 Pre-Field Activities

- Conducted a TO Meeting on November 22, 2002 to discuss the TO scope of work. Caltrans Contract Manager Rajive Chadha and Geocon's Task Order Manager John Juhrend attended the meeting. The purpose of the TO Meeting was to identify and observe the project boundaries and conditions and sign the Site Visit Checklist, Completion Schedule and Notice to Proceed. The proposed investigation areas were further outlined in white paint for subsequent utility clearance.
- Contacted the local public utilities via Underground Service Alert (Ticket Numbers 256714, 256720 and 256728) on July 18, 2003 to attempt to delineate subsurface public utilities and conduits in proximity to the proposed boring locations.
- Prepared a Health and Safety Plan dated November 19, 2002, to provide guidelines on the use of personal protective equipment during the field activities.
- Prepared a Workplan dated November 27, 2002, which describes the requested scope of services and quality assurance/quality control (QA/QC) sampling and laboratory procedures.
- Retained the services of Sparger Technology Inc. (ELAP No. 1614), a Caltrans-approved and California-certified analytical laboratory, to perform the chemical analyses of soil samples.

3.2 Field Activities

The field activities consisted of collecting soil samples along the unpaved shoulders of SR-89 on July 29, 30 and 31, 2003. Ninety-eight soil samples were collected from 72 hand-auger soil borings (NC1 through NC30, NC30B, and NC31 through NC71) at the Caltrans designated soil sampling locations. The soil borings were excavated to an approximate maximum depth of 0.6 m (2 feet) below ground surface (bgs). Soil samples were collected at general depths of 0 to 0.15 m (0 to 0.5 foot), 0.15 to 0.3 m (0.5 to 1.0 feet), 0.3 to 0.45 m (1.0 to 1.5 feet) and 0.45 to 0.6 m (1.5 to 2.0 feet) bgs. The approximate boring locations are depicted on the Site Plans, Figures 2a through 2e.

4.0 INVESTIGATIVE METHODS

4.1 Boring Location Rationale

The soil boring locations were designated by Caltrans in the vicinity of the proposed lane widening improvements.

Thirty-six hand-auger borings (NC1 through NC12, NC25 through NC30, NC30B, and NC31 through NC47) were performed on the east side of SR-89. Thirty-six hand-auger borings (NC13 through NC24 and NC48 through NC71) were performed on the west side of SR-89. Refusal conditions on granitic and/or metavolcanic rock and gravel prevented the collection of a 0.6 m soil sample in borings NC1 through NC9, NC12 through NC16, NC18 through NC30, NC30B, NC32 through NC40, NC42 through NC47, NC49, NC53, NC55 through NC59, NC61 through NC68, NC70 and NC71.

The location of each boring was determined using a differential global positioning system (GPS). The GPS was utilized during the field activities to locate the horizontal position of each boring with an error not to exceed 1 meter (3.28 feet). The latitude, longitude and approximate elevation of each boring are summarized on Table 1. The approximate soil boring locations are depicted on the Site Plans, Figures 2a through 2e.

4.2 Sampling Procedures

Soil samples were obtained directly from the hand-auger and transferred to Zip-Lock® re-sealable plastic bags. The soil samples were field homogenized within the sample bags and subsequently labeled, placed in an ice chest, and delivered to Sparger under standard chain-of-custody documentation.

The sampling equipment was cleansed prior to the collection of each soil sample by washing the equipment with an Alconox® solution followed by a double rinse with deionized water. The borings were backfilled with the soil cuttings. The field sampling activities were performed under the direct supervision of Geocon's project manager.

Traffic control including the use of orange cones and signs was provided where necessary based on the proximity of the work zone with respect to the active traffic lanes.

4.3 Laboratory Analyses

Ninety-eight soil samples collected within the project boundaries were submitted to Sparger for the analyses of total and WET soluble lead following Environmental Protection Agency (EPA) Test Method 6010B under standard ten working day turn-around-time. The laboratory was instructed to homogenize the soil samples prior to analysis in accordance with Contract 43A0078 requirements.

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

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

Prior to submitting the soil samples to the laboratory, the chain-of-custody documentation was reviewed for accuracy and completeness. Reproductions of the laboratory reports and chain-of- custody documentation are presented in Appendix A.

5.0 FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS

5.1 Site Geology and Hydrogeology

Soil encountered during the excavation of borings was generally comprised of miscellaneous fill materials consisting of decomposed granitic and/or metavolcanic rock to the maximum depth explored of approximately 0.6 m bgs. Groundwater was not encountered during the excavation of the soil borings.

5.2 Soil Analytical Results

Soil analytical results for the SR-89 Squaw Valley to Tahoe City project are summarized hereinafter. The laboratory results are summarized on Table 1. Laboratory reports and chain-of-custody documentation are presented in Appendix A.

Ninety-eight soil samples were collected from 72 hand-auger soil borings (NC1 through NC30, NC30B, and NC31 through NC71) from within the project boundaries. Total lead was detected above the laboratory equipment detection limits in each of the 98 soil samples analyzed at concentrations ranging from 3.33 to 106 mg/kg. Twenty-three of the 98 soil samples had reported total lead concentrations greater than 50 mg/kg (ten times the STLC value for lead of 5.0 mg/l).

WET soluble lead was detected in 59 of the 98 soil samples analyzed at concentrations ranging from 0.55 to 4.32 mg/l. None of the 98 soil samples analyzed had a reported WET soluble lead concentration exceeding the STLC value for lead of 5.0 mg/l.

5.3 Statistical Evaluation for Lead Detected in Soil Samples

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

5.3.1 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 non-parametric 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.

5.3.2 Calculating the UCLs for the True Mean

The upper one-sided 90% and 95% 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.

Non-parametric 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 in Appendix B. The calculated UCLs are summarized in the table below:

SAMPLE DEPTH (meters)	90% TOTAL LEAD UCL (mg/kg)	95% TOTAL LEAD UCL (mg/kg)
0 to 0.15	31	32
0.15 to 0.3	42	44
0.3 to 0.45	44	46
0.45 to 0.6	48	51

5.3.3 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 UCLs calculated above in Section 5.3.2.

To estimate the degree of interrelation between total and corresponding soluble (WET) lead values (x and y, respectively), the *correlation coefficient [r]* is used (see Davis pg. 40). The correlation coefficient is a ratio that ranges from +1 to –1. A *correlation coefficient* of +1 indicates a perfect direct relationship between two variables; a *correlation coefficient* of –1 indicates that one variable changes inversely with relation to the other. Between the two extremes is a spectrum of less-than-perfect relationships, including zero, which indicates the lack of any sort of linear relationship at all. The *correlation coefficient* was calculated for the 98 (x, y) data points (i.e., soil samples analyzed for both total lead [x] and soluble [WET] lead [y]) and equaled 0.834. According to the previously referenced Caltrans statistics guidance letter, a *correlation coefficient* greater than or equal to 0.8 is an acceptable indicator that a correlation exists.

For the *correlation coefficient* that indicates a linear relationship between total and soluble (WET) lead concentrations, it is possible to compute the line of dependence, or a best-fit line between the two variables. Following methods outlined in Davis (pg. 180), 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 $y = 0.0283(x)$, where x represents total lead concentrations and y represents predicted soluble lead (WET) concentrations.

This equation was used to estimate the expected WET soluble lead concentrations for the UCLs calculated in Section 5.3.2. Regression analysis results and a scatter plot depicting the 98 (x, y) data points along with the regression line are included as a portion of Appendix B. For those samples in which WET soluble lead was not detected, a value equal to one-half of the detection limit was used in the regression analysis. The predicted WET soluble lead concentrations are shown in the table below next to the UCLs.

SAMPLE DEPTH (meters)	90% TOTAL LEAD UCL (mg/kg)	PREDICTED SOLUBLE LEAD (mg/l)	95% TOTAL LEAD UCL (mg/kg)	PREDICTED SOLUBLE LEAD (mg/l)
0 to 0.15	31	0.9	32	0.9
0.15 to 0.3	42	1.2	44	1.2
0.3 to 0.45	44	1.2	46	1.3
0.45 to 0.6	48	1.4	51	1.4

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Waste Disposal/Soil Reuse Classification

Soil materials excavated to a maximum depth of 0.6 m bgs may be reused onsite and/or disposed of without restrictions based on lead content since the 90% and 95% total lead UCLs are below 55 mg/kg and the predicted WET soluble lead concentrations are below 5.0 mg/l.

6.2 Risk to Human Health

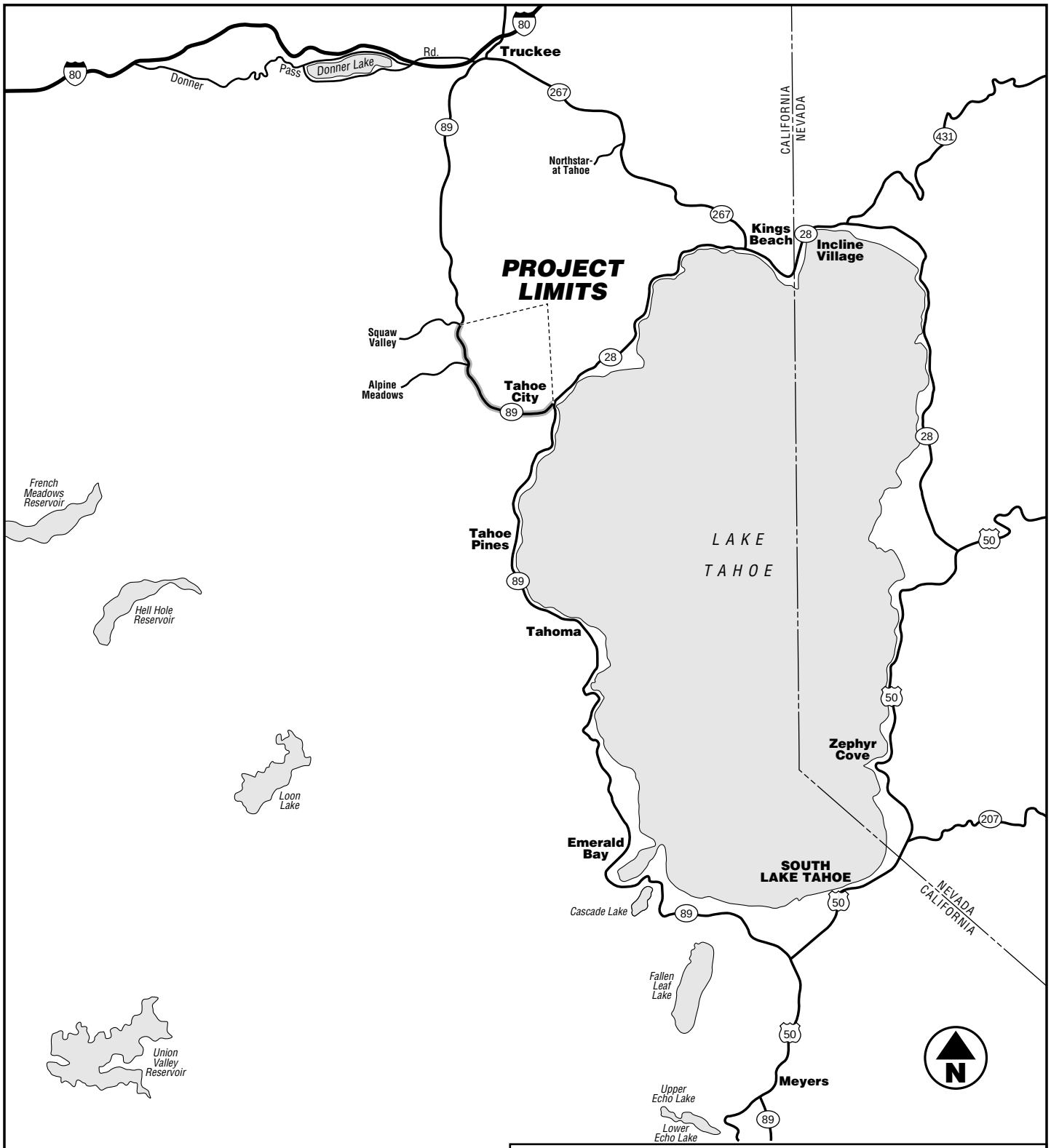
Based on current and proposed use of the Site and adjacent properties, it is appropriate to compare the highest reported total lead values to the EPA Region 9 Preliminary Remediation Goal (PRG) for lead in residential soil. PRGs are used to estimate contaminant concentrations in environmental media (soil, air, and water) that are protective of human health, including sensitive groups, over a lifetime. The California modified PRG for lead in residential soil is 150 mg/kg. Total lead concentrations above the PRG would not automatically trigger a response action or suggest that a significant risk to human health exists. Exceeding a PRG does suggest that further evaluation of the potential risks that may be posed by site contaminants is appropriate.

The highest calculated UCL for lead of 51 mg/kg is less than the California modified PRG for lead of 150 mg/kg. Therefore, it is concluded that lead-impacted soil in the areas investigated does not pose a significant risk to the health of workers performing the construction activities.

7.0 REPORT LIMITATIONS

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

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



0 5 10

Scale in Kilometers

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State Route 89 Squaw Valley to Tahoe City (North Canyon)

Placer County, California

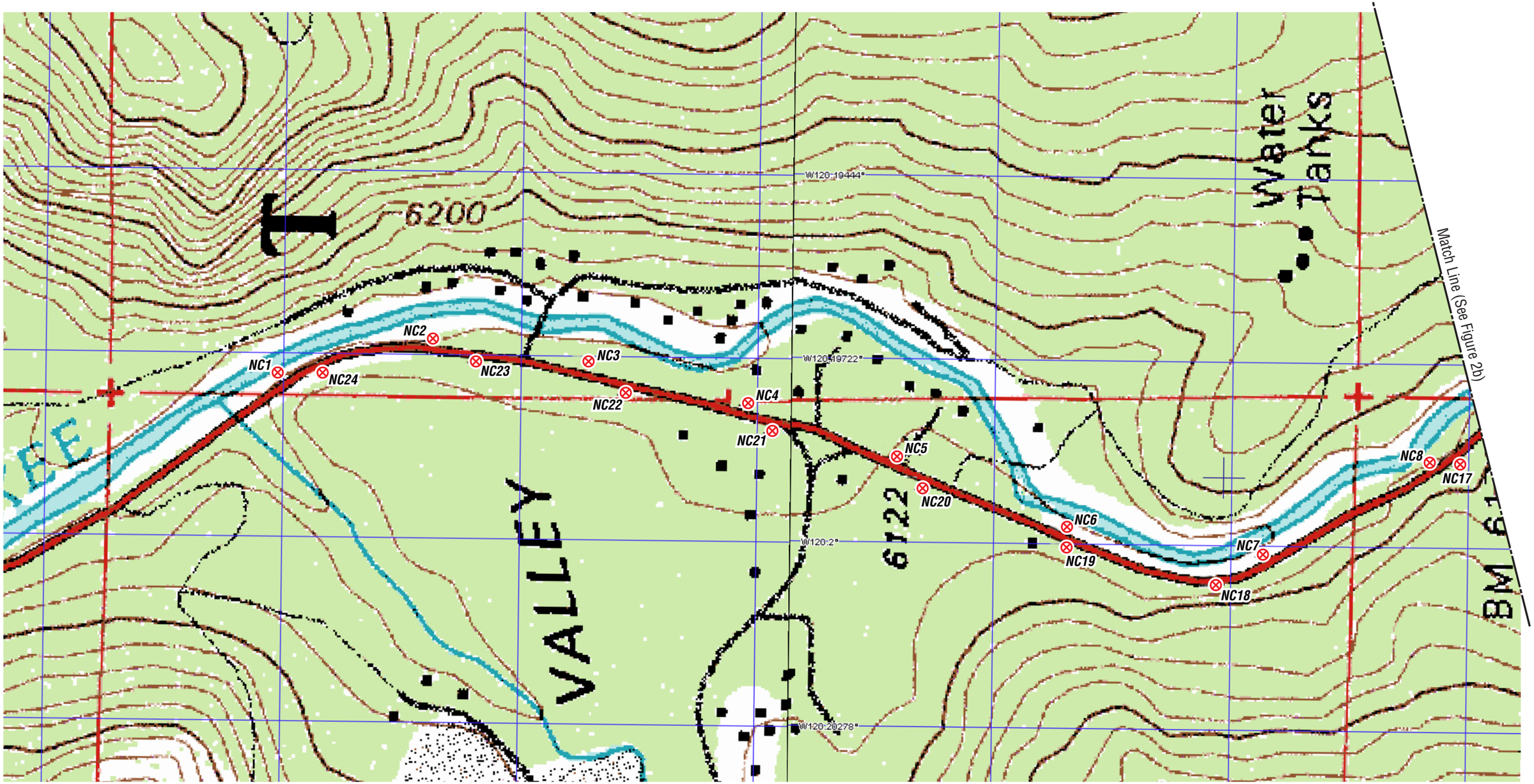
GEOCON Proj. No. S8475-06-71

Task Order No. 03-1A8400-DF

VICINITY MAP

January 2004

Figure 1



LEGEND:

NC71 ⊗ Approximate Boring Location

0 50 100m

Scale: 1:5,000

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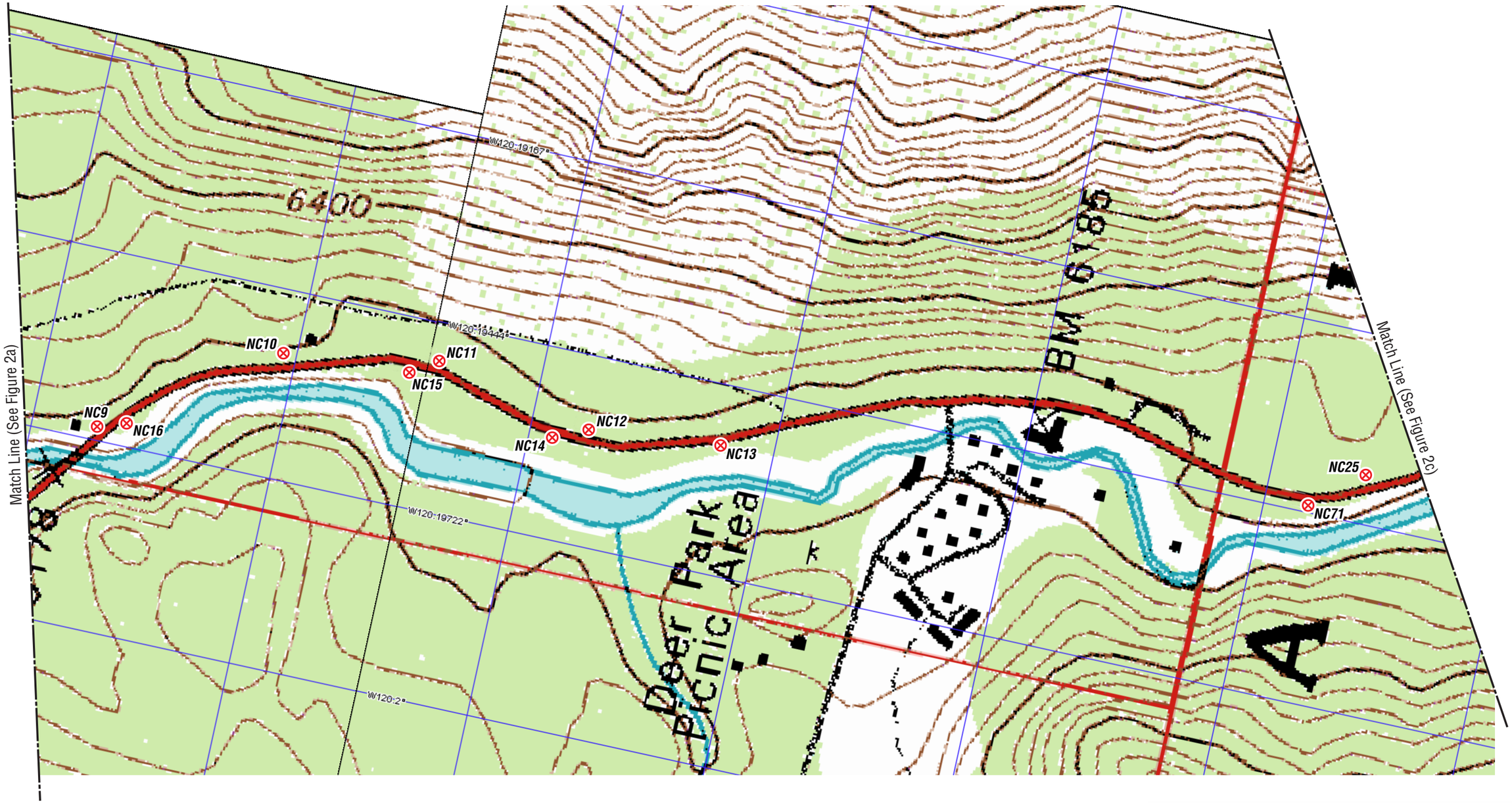
State Route 89 Squaw Valley to Tahoe City (North Canyon)		
Placer County, California	**SITE PLAN**	
GEOCON Proj. No. S8475-06-71		
Task Order No. 03-1A8400-DF	January 2004	Figure 2a



LEGEND:

NC71 ⊗ Approximate Boring Location

0 50 100m

Scale: 1:5,000

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Placer County, California

GEOCON Proj. No. S8475-06-71

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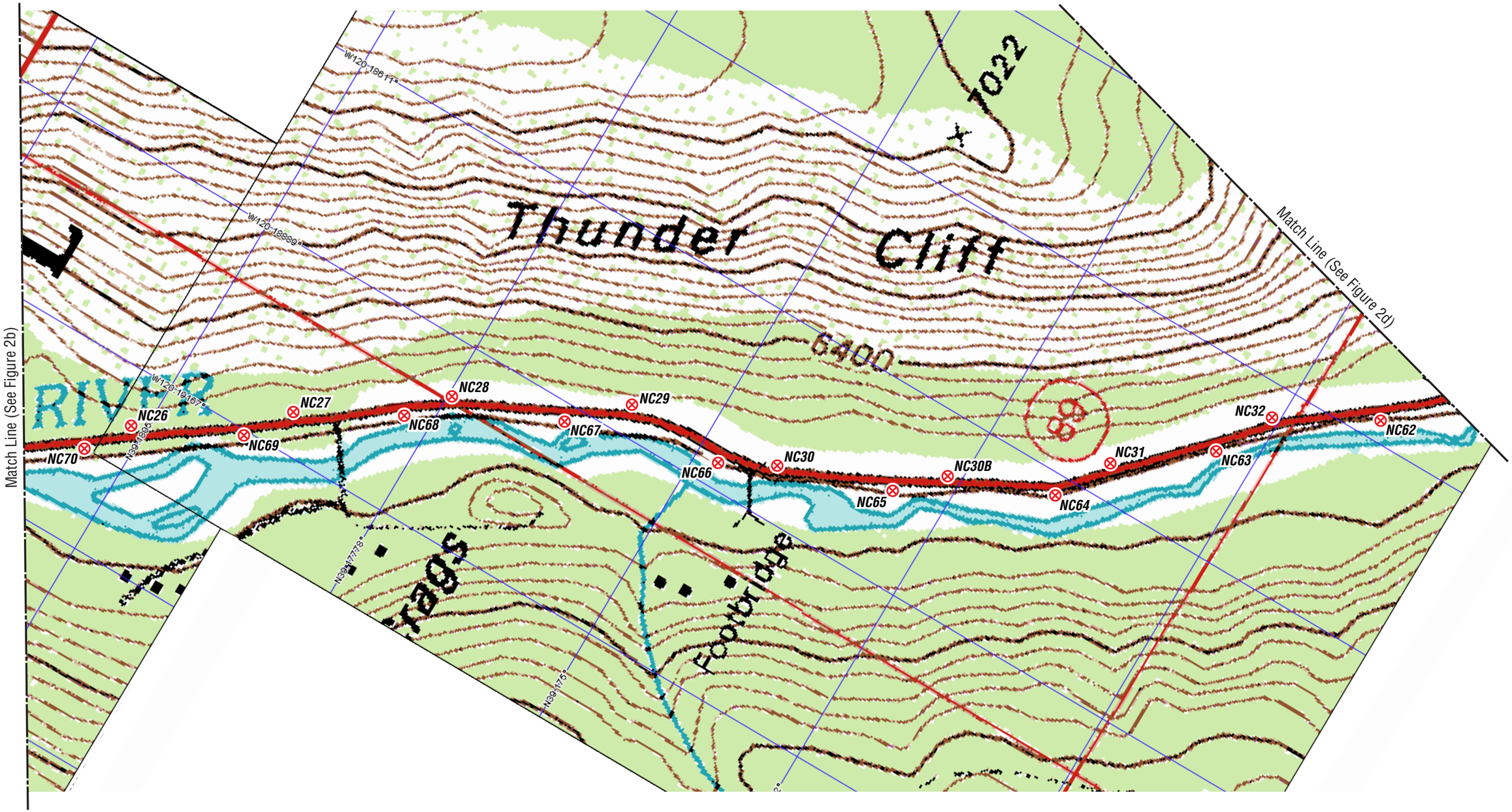
SITE PLAN

January 2004

Figure 2b



LEGEND:

NC71 ⊗ Approximate Boring Location

0 50 100m

Scale: 1:5,000

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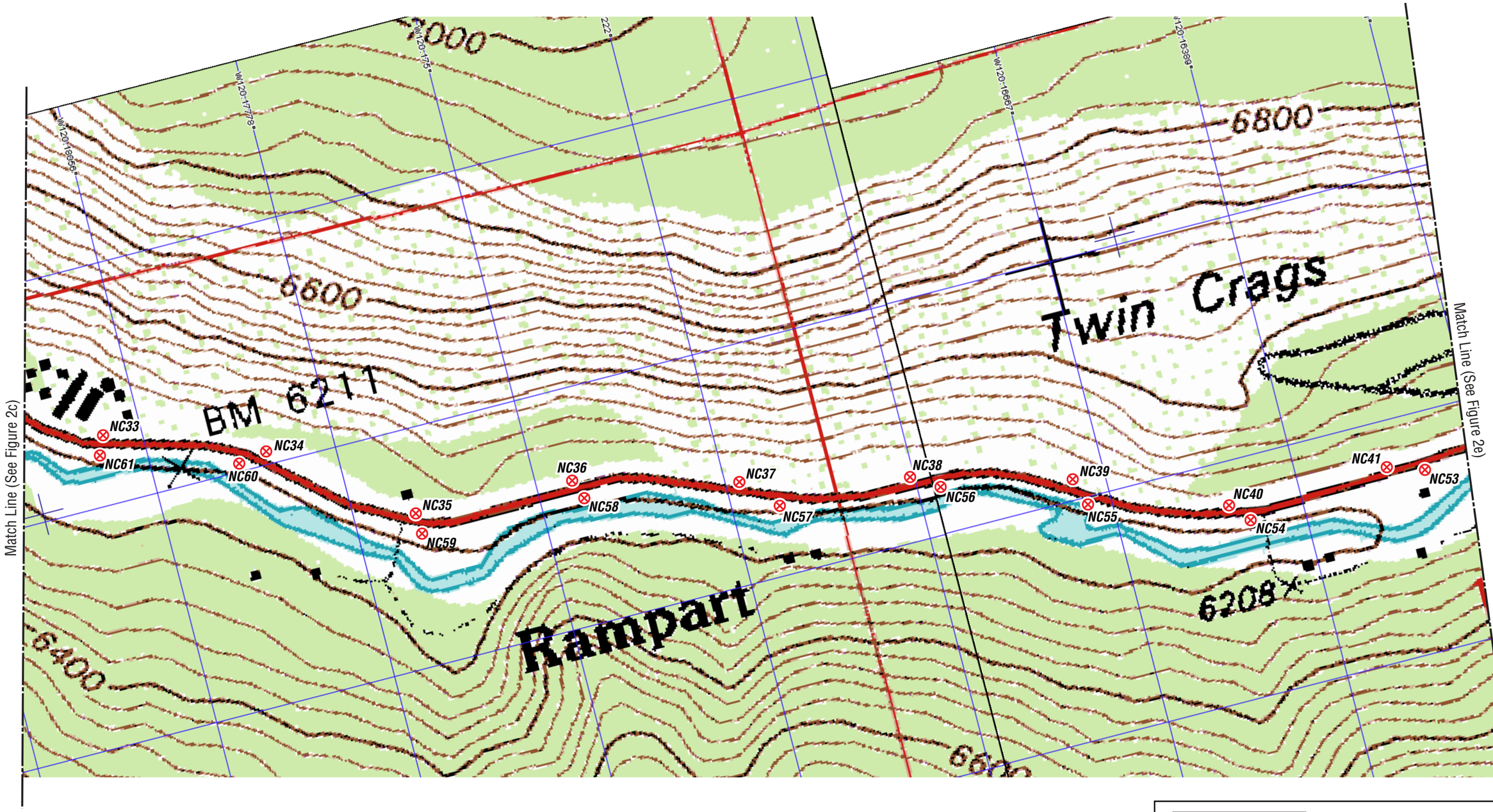
State Route 89 Squaw Valley to Tahoe City (North Canyon)		
Placer County, California	**SITE PLAN**	
GEOCON Proj. No. S8475-06-71		
Task Order No. 03-1A8400-DF	January 2004	Figure 2c



LEGEND:

NC71 ⊗ Approximate Boring Location

N

0 50 100m

Scale: 1:5,000

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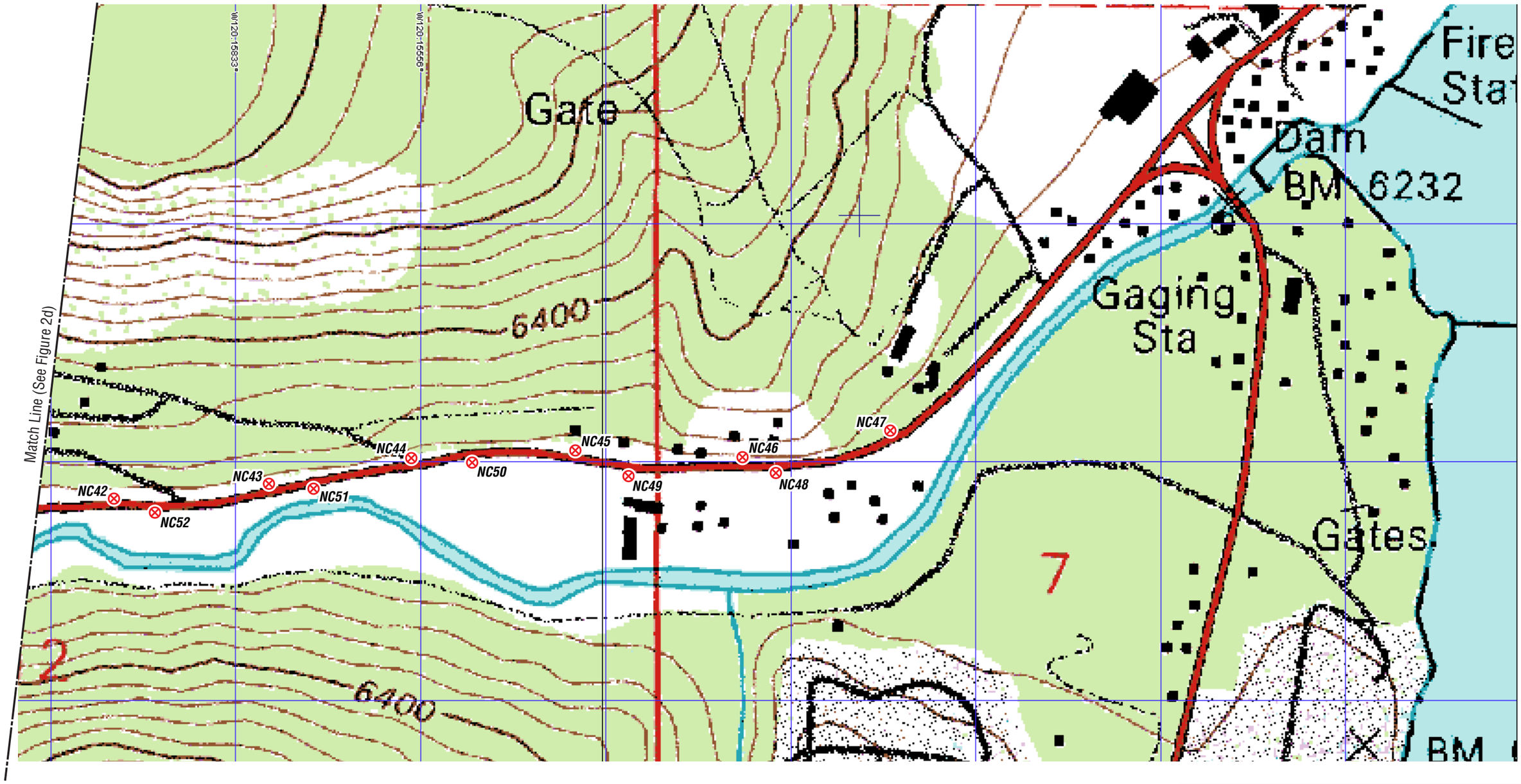
State Route 89 Squaw Valley to Tahoe City (North Canyon)

Placer County, California	**SITE PLAN**	
GEOCON Proj. No. S8475-06-71		
Task Order No. 03-1A8400-DF	January 2004	Figure 2d



LEGEND:

NC71 ⊗ Approximate Boring Location

N

0 50 100m

Scale: 1:5,000

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State Route 89 Squaw Valley to Tahoe City (North Canyon)		
Placer County, California	SITE PLAN	
GEOCON Proj. No. S8475-06-71		
Task Order No. 03-1A8400-DF	January 2004	Figure 2e

TABLE 1
SUMMARY OF ANALYTICAL DATA AND BORING COORDINATES
STATE ROUTE 89 SQUAW VALLEY TO TAHOE CITY (NORTH CANYON)

SAMPLE ID	SAMPLE DATE	LATITUDE	LONGITUDE	ELEVATION (meters)	TOTAL LEAD (mg/kg)	WET LEAD (mg/l)
NC1-0.15	7/29/2003	39.210998248	-120.197590829	1883.122	33.50	0.74
NC2-0.15	7/29/2003	39.209192129	-120.197059950	1891.275	33.50	0.87
NC3-0.3	7/29/2003	39.207389124	-120.197464042	1890.017	59.20	1.71
NC4-0.3	7/29/2003	39.205528499	-120.197999540	1887.238	106.00	1.16
NC5-0.15	7/29/2003	39.203758999	-120.198813146	1891.070	23.60	0.63
NC6-0.3	7/29/2003	39.201800262	-120.200001728	1893.507	83.40	3.00
NC7-0.3	7/29/2003	39.199450709	-120.200189273	1898.899	6.51	<0.05
NC8-0.3	7/29/2003	39.197561859	-120.198687459	1906.699	16.80	<0.05
NC9-0.15	7/29/2003	39.196400610	-120.196928800	1910.115	15.80	<0.05
NC10-0.3	7/29/2003	39.194420785	-120.195432546	1913.646	15.80	<0.05
NC10-0.6					9.93	<0.05
NC11-0.3	7/29/2003	39.192663257	-120.195156464	1917.839	3.33	<0.05
NC11-0.6					3.69	<0.05
NC12-0.15	7/29/2003	39.190833053	-120.195635932	1913.604	10.90	<0.05
NC13-0.15	7/29/2003	39.189405115	-120.195196012	1906.719	11.10	<0.05
NC14-0.3	7/29/2003	39.191213751	-120.195781056	1918.582	66.80	0.98
NC15-0.3	7/29/2003	39.192986670	-120.195236225	1916.049	20.60	0.70
NC15-0.45					29.90	0.99
NC16-0.15	7/29/2003	39.196090847	-120.196700573	1908.706	36.60	1.15
NC17-0.3	7/30/2003	39.197290041	-120.198596061	1907.449	8.09	<0.05
NC17-0.6					12.80	<0.05
NC18-0.3	7/30/2003	39.199977305	-120.200573448	1898.725	52.90	<0.05
NC18-0.45					27.10	<0.05
NC19-0.3	7/30/2003	39.201801288	-120.200154478	1896.097	8.75	<0.05
NC20-0.15	7/30/2003	39.203453740	-120.199234757	1891.137	44.80	0.89
NC21-0.3	7/30/2003	39.205213367	-120.198454639	1887.718	23.80	<0.05
NC22-0.15	7/30/2003	39.206963234	-120.197746445	1886.691	14.80	<0.05
NC23-0.15	7/30/2003	39.208715287	-120.197247517	1886.176	37.90	0.62

TABLE 1
SUMMARY OF ANALYTICAL DATA AND BORING COORDINATES
STATE ROUTE 89 SQUAW VALLEY TO TAHOE CITY (NORTH CANYON)

SAMPLE ID	SAMPLE DATE	LATITUDE	LONGITUDE	ELEVATION (meters)	TOTAL LEAD (mg/kg)	WET LEAD (mg/l)
NC24-0.3	7/30/2003	39.210527619	-120.197506924	1881.077	21.00	<0.05
NC25-0.3	7/30/2003	39.182080545	-120.193790756	1919.069	9.46	<0.05
NC25-0.45					9.46	2.62
NC26-0.3	7/30/2003	39.180551874	-120.192402691	1918.736	67.30	2.45
NC27-0.3	7/30/2003	39.179045259	-120.190998867	1918.782	89.00	2.67
NC27-0.45					34.10	0.82
NC28-0.3	7/30/2003	39.177576539	-120.189519401	1920.139	49.90	1.28
NC29-0.15	7/30/2003	39.175731776	-120.188461677	1926.393	4.70	<0.05
NC30-0.15	7/30/2003	39.173933548	-120.187960365	1922.375	30.60	1.04
NC30B-0.15	7/30/2003	39.172259539	-120.186934332	1917.142	23.40	<0.05
NC31-0.3	7/30/2003	39.170759059	-120.185527433	1918.870	21.80	<0.05
NC31-0.6					6.30	<0.05
NC32-0.3	7/30/2003	39.169424716	-120.183740903	1917.512	30.60	0.64
NC33-0.15	7/30/2003	39.167398642	-120.181030256	1919.383	7.38	<0.05
NC34-0.3	7/30/2003	39.166677625	-120.178752358	1918.635	59.30	0.79
NC34-0.45					28.90	1.03
NC35-0.3	7/30/2003	39.165598582	-120.176812090	1916.902	9.95	<0.05
NC36-0.15	7/30/2003	39.165565974	-120.174418454	1917.209	37.80	0.70
NC37-0.3	7/30/2003	39.165030531	-120.171955620	1920.338	41.70	1.35
NC37-0.45					18.70	<0.05
NC38-0.3	7/30/2003	39.164639544	-120.169481770	1924.469	19.50	<0.05
NC39-0.15	7/30/2003	39.164053576	-120.167160206	1920.409	35.40	0.96
NC40-0.3	7/30/2003	39.163333688	-120.164975040	1924.598	11.90	<0.05
NC41-0.3	7/30/2003	39.163307140	-120.162506866	1927.678	45.00	0.74
NC41-0.6					9.85	<0.05
NC42-0.3	7/30/2003	39.163446168	-120.160128121	1932.275	52.50	1.65
NC43-0.3	7/30/2003	39.163546205	-120.157821285	1925.541	30.80	1.15
NC43-0.45					67.20	1.85
NC44-0.3	7/30/2003	39.163941706	-120.155691681	1926.038	81.10	3.54
NC44-0.45					82.10	1.55

TABLE 1
SUMMARY OF ANALYTICAL DATA AND BORING COORDINATES
STATE ROUTE 89 SQUAW VALLEY TO TAHOE CITY (NORTH CANYON)

SAMPLE ID	SAMPLE DATE	LATITUDE	LONGITUDE	ELEVATION (meters)	TOTAL LEAD (mg/kg)	WET LEAD (mg/l)
NC45-0.3	7/30/2003	39.163949088	-120.153217487	1930.040	29.00	0.91
NC46-0.15	7/30/2003	39.163891880	-120.150708624	1927.842	54.10	1.34
NC47-0.3	7/30/2003	39.164192700	-120.148532822	1930.297	27.30	<0.05
NC47-0.45					35.40	0.63
NC48-0.3	7/30/2003	39.163795479	-120.150093255	1929.892	26.40	<0.05
NC48-0.6					70.00	3.06
NC49-0.3	7/30/2003	39.163761888	-120.152401333	1929.249	90.20	3.00
NC50-0.3	7/30/2003	39.163962062	-120.154786622	1929.133	27.20	0.93
NC50-0.6					49.60	1.63
NC51-0.3	7/30/2003	39.163582997	-120.157182356	1929.181	29.60	0.85
NC51-0.6					85.00	2.59
NC52-0.3	7/30/2003	39.163354065	-120.159532527	1925.773	26.10	0.814
NC52-0.6					31.60	0.86
NC53-0.3	7/30/2003	39.163233196	-120.161964158	1929.455	36.10	1.07
NC54-0.3	7/30/2003	39.163214022	-120.164692166	1924.678	15.80	<0.05
NC54-0.6					15.10	<0.05
NC55-0.3	7/30/2003	39.163812131	-120.166909075	1925.753	18.70	0.55
NC56-0.3	7/30/2003	39.164544257	-120.169074279	1922.568	66.50	2.23
NC57-0.15	7/30/2003	39.164739539	-120.171435235	1926.773	41.10	1.14
NC58-0.3	7/30/2003	39.165456749	-120.174309923	1919.414	33.10	1.26
NC59-0.15	7/30/2003	39.165464403	-120.176743428	1919.322	16.50	<0.05
NC60-0.3	7/30/2003	39.166740316	-120.179067081	1918.519	23.10	0.76
NC60-0.6					93.80	3.49
NC61-0.3	7/31/2003	39.167287647	-120.181071236	1918.199	19.70	<0.05
NC62-0.3	7/31/2003	39.168425526	-120.182861720	1918.717	15.60	0.67
NC62-0.45					37.40	1.25
NC63-0.3	7/31/2003	39.169848574	-120.184462709	1919.913	9.79	<0.05
NC63-0.45					6.00	<0.05
NC64-0.15	7/31/2003	39.171175886	-120.186226774	1922.054	34.20	1.01
NC65-0.15	7/31/2003	39.172788036	-120.187381111	1919.565	28.50	0.91
NC66-0.15	7/31/2003	39.174521575	-120.188335693	1920.726	36.80	0.79

TABLE 1
SUMMARY OF ANALYTICAL DATA AND BORING COORDINATES
STATE ROUTE 89 SQUAW VALLEY TO TAHOE CITY (NORTH CANYON)

SAMPLE ID	SAMPLE DATE	LATITUDE	LONGITUDE	ELEVATION (meters)	TOTAL LEAD (mg/kg)	WET LEAD (mg/l)
NC67-0.3	7/31/2003	39.176336058	-120.188908137	1920.028	54.80	1.65
NC67-0.45					47.30	1.70
NC68-0.3	7/31/2003	39.177963499	-120.189965800	1919.458	64.10	2.49
NC68-0.45					68.20	2.54
NC69-0.3	7/31/2003	39.179415365	-120.191470957	1918.418	106.00	4.32
NC69-0.6					53.40	1.64
NC70-0.3	7/31/2003	39.180893674	-120.192837688	1920.863	10.80	<0.05
NC70-0.45					3.78	<0.05
NC71-0.15	7/31/2003	39.182672529	-120.194236192	1922.435	6.60	<0.05

Notes: WET = Waste Extraction Test using an acid extract
mg/kg = Milligrams per kilogram
mg/l = Milligrams per liter
< = Less than the laboratory method detection limit
NC70-0.3
Sample depth in meters below surface grade
Boring Identification

APPENDIX A

Sparger Technology, Inc.
Environmental Laboratories

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

Mr. John Juhrend
Geocon Consultants, Inc.
11375 Sunrise Park Dr.
Suite 100
Rancho Cordova, CA 95742

Client	Geocon Consultants, Inc.
Workorder	15703 S8475-06-71 SR89 North Canyon
Received	08/01/03

The samples were received in EPA specified containers. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

Sparger Technology, Inc. ID Suffix Keys - These descriptors will follow the Sparger Technology, Inc. ID numbers and help identify the specific sample and clarify the report.

- DUP - Matrix Duplicate
- MS - Matrix Spike
- MSD - Matrix Spike Duplicate
- LCS - Lab Control Sample
- LCSD - Lab Control Sample Duplicate
- RPD - Relative Percent Difference
- QC - Additional Quality Control
- DJL - Results from a diluted sample
- ND - None Detected
- RL - Reporting Limit

Note: In an effort to conserve paper, the results are printed on both sides of the paper.

Ray James
Laboratory Director

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Sparger Technology, Inc.
Environmental Laboratories

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

Test Certificate of Analysis

Client ID Geocon Consultants, Inc.
Workorder # 15703 **Workorder ID** S8475-06-71 SR89 North Canyon

Parameter Lead
Method 6010B

Lab ID	Sample ID	Result	RL	Units	Collected	Analyzed	Matrix	Dilution
15703001	NC1-0.15	33.5	1.0	mg/Kg	07/29/03	08/08/03	Soil	1:1
15703002	NCO2-0.15	33.5	1.0	mg/Kg	07/29/03	08/08/03	Soil	1:1
15703003	NCO3-0.3	59.2	1.0	mg/Kg	07/29/03	08/08/03	Soil	1:1
15703004	NCO4-0.3	106	1.0	mg/Kg	07/29/03	08/08/03	Soil	1:1
15703005	NCO5-0.15	23.6	1.0	mg/Kg	07/29/03	08/08/03	Soil	1:1
15703006	NCO6-0.3	83.4	1.0	mg/Kg	07/29/03	08/08/03	Soil	1:1
15703007	NCO7-0.3	6.51	1.0	mg/Kg	07/29/03	08/08/03	Soil	1:1
15703008	NCO8-0.3	16.8	1.0	mg/Kg	07/29/03	08/08/03	Soil	1:1
15703009	NCO9-0.15	15.8	1.0	mg/Kg	07/29/03	08/08/03	Soil	1:1
15703010	NC10-0.3	15.8	1.0	mg/Kg	07/29/03	08/08/03	Soil	1:1
15703011	NC10-0.6	9.93	1.0	mg/Kg	07/29/03	08/08/03	Soil	1:1
15703012	NC11-0.3	3.33	1.0	mg/Kg	07/29/03	08/08/03	Soil	1:1
15703013	NC11-0.6	3.69	1.0	mg/Kg	07/29/03	08/08/03	Soil	1:1
15703014	NC12-0.15	10.9	1.0	mg/Kg	07/29/03	08/08/03	Soil	1:1
15703015	NC13-0.15	11.1	1.0	mg/Kg	07/29/03	08/08/03	Soil	1:1
15703016	NC14-0.3	66.8	1.0	mg/Kg	07/29/03	08/08/03	Soil	1:1
15703017	NC15-0.3	20.6	1.0	mg/Kg	07/29/03	08/08/03	Soil	1:1
15703018	NC15-0.45	29.9	1.0	mg/Kg	07/29/03	08/08/03	Soil	1:1
15703019	NC16-0.15	36.6	1.0	mg/Kg	07/29/03	08/08/03	Soil	1:1
15703020	NC17-0.3	8.09	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703021	NC17-0.6	12.8	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703022	NC18-0.3	52.9	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703023	NC18-0.45	27.1	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703024	NC19-0.3	8.75	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703025	NC20-0.15	44.8	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703026	NC21-0.3	23.8	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703027	NC22-0.15	14.8	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703028	NC23-0.15	37.9	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703029	NC24-0.3	21.0	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703030	NC25-0.3	9.46	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703031	NC25-0.45	9.46	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703032	NC26-0.3	67.3	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703033	NC27-0.3	89.0	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703034	NC27-0.45	34.1	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1

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Sparger Technology, Inc.
Environmental Laboratories

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

Test Certificate of Analysis

Client ID Geocon Consultants, Inc.
Workorder # 15703

Workorder ID S8475-06-71 SR89 North Canyon

Parameter Lead (continued)
Method 6010B

Lab ID	Sample ID	Result	RL	Units	Collected	Analyzed	Matrix	Dilution
15703035	NC28-0.3	49.9	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703036	NC29-0.15	4.70	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703037	NC30-0.15	30.6	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703038	NC31-0.3	21.8	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703039	NC31-0.6	6.30	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703040	NC32-0.3	30.6	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703041	NC33-0.15	7.38	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703042	NC34-0.3	59.3	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703043	NC34-0.45	28.9	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703044	NC35-0.3	9.95	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703045	NC36-0.15	37.8	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703046	NC37-0.3	41.7	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703047	NC37-0.45	18.7	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703048	NC38-0.3	19.5	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703049	NC39-0.15	35.4	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703050	NC40-0.3	11.9	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703051	NC41-0.3	45.0	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703052	NC41-0.6	9.85	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703053	NC42-0.3	52.5	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703054	NC43-0.3	30.8	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703055	NC43-0.45	67.2	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703056	NC44-0.3	81.1	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703057	NC44-0.45	82.1	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703058	NC45-0.3	29.0	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703059	NC46-0.15	54.1	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703060	NC47-0.3	27.3	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703061	NC47-0.45	35.4	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703062	NC48-0.3	26.4	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703063	NC48-0.6	70.0	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703064	NC49-0.3	90.2	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703065	NC50-0.3	27.2	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703066	NC50-0.6	49.6	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703067	NC51-0.3	29.6	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703068	NC51-0.6	85.0	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1

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Sparger Technology, Inc.
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Analytical Laboratory Division
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Test Certificate of Analysis

Client ID Geocon Consultants, Inc.
Workorder # 15703

Workorder ID S8475-06-71 SR89 North Canyon

Parameter Lead (continued)
Method 6010B

Lab ID	Sample ID	Result	RL	Units	Collected	Analyzed	Matrix	Dilution
15703069	NC52-0.3	26.1	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703070	NC52-0.6	31.6	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703071	NC53-0.3	36.1	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703072	NC54-0.3	15.8	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703073	NC54-0.6	15.1	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703074	NC55-0.3	18.7	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703075	NC56-0.3	66.5	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703076	NC57-0.15	41.1	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703077	NC58-0.3	33.1	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703078	NC59-0.15	16.5	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703079	NC60-0.3	23.1	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703080	NC60-0.6	93.8	1.0	mg/Kg	07/30/03	08/08/03	Soil	1:1
15703081	NC61-0.3	19.7	1.0	mg/Kg	07/31/03	08/08/03	Soil	1:1
15703082	NC62-0.3	15.6	1.0	mg/Kg	07/31/03	08/08/03	Soil	1:1
15703083	NC62-0.45	37.4	1.0	mg/Kg	07/31/03	08/08/03	Soil	1:1
15703084	NC63-0.3	9.79	1.0	mg/Kg	07/31/03	08/08/03	Soil	1:1
15703085	NC63-0.45	6.00	1.0	mg/Kg	07/31/03	08/08/03	Soil	1:1
15703086	NC64-0.15	34.2	1.0	mg/Kg	07/31/03	08/08/03	Soil	1:1
15703087	NC65-0.15	28.5	1.0	mg/Kg	07/31/03	08/08/03	Soil	1:1
15703088	NC66-0.15	36.8	1.0	mg/Kg	07/31/03	08/08/03	Soil	1:1
15703089	NC67-0.3	54.8	1.0	mg/Kg	07/31/03	08/08/03	Soil	1:1
15703090	NC67-0.45	47.3	1.0	mg/Kg	07/31/03	08/08/03	Soil	1:1
15703091	NC68-0.3	64.1	1.0	mg/Kg	07/31/03	08/08/03	Soil	1:1
15703092	NC68-0.45	68.2	1.0	mg/Kg	07/31/03	08/08/03	Soil	1:1
15703093	NC69-0.3	106	1.0	mg/Kg	07/31/03	08/08/03	Soil	1:1
15703094	NC69-0.6	53.4	1.0	mg/Kg	07/31/03	08/08/03	Soil	1:1
15703095	NC70-0.3	10.8	1.0	mg/Kg	07/31/03	08/08/03	Soil	1:1
15703096	NC70-0.45	3.78	1.0	mg/Kg	07/31/03	08/08/03	Soil	1:1
15703097	NC71-0.15	6.60	1.0	mg/Kg	07/31/03	08/08/03	Soil	1:1
15703098	NC30B-0.15	23.4	1.0	mg/Kg	07/31/03	08/08/03	Soil	1:1

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Analytical Laboratory Division
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Test Certificate of Analysis

Client ID Geocon Consultants, Inc.
Workorder # 15703

Workorder ID S8475-06-71 SR89 North Canyon

Parameter Lead
Method 6010B STLC Pb

Lab ID	Sample ID	Result	RL	Units	Collected	Analyzed	Matrix	Dilution
15703001	NC1-0.15	0.740	0.050	mg/L	07/29/03	08/08/03	Soil	1:1
15703002	NCO2-0.15	0.870	0.050	mg/L	07/29/03	08/08/03	Soil	1:1
15703003	NCO3-0.3	1.71	0.050	mg/L	07/29/03	08/08/03	Soil	1:1
15703004	NCO4-0.3	1.16	0.050	mg/L	07/29/03	08/08/03	Soil	1:1
15703005	NCO5-0.15	0.630	0.050	mg/L	07/29/03	08/08/03	Soil	1:1
15703006	NCO6-0.3	3.00	0.050	mg/L	07/29/03	08/08/03	Soil	1:1
15703007	NCO7-0.3	ND	0.050	mg/L	07/29/03	08/08/03	Soil	1:1
15703008	NCO8-0.3	ND	0.050	mg/L	07/29/03	08/08/03	Soil	1:1
15703009	NCO9-0.15	ND	0.050	mg/L	07/29/03	08/08/03	Soil	1:1
15703010	NC10-0.3	ND	0.050	mg/L	07/29/03	08/08/03	Soil	1:1
15703011	NC10-0.6	ND	0.050	mg/L	07/29/03	08/08/03	Soil	1:1
15703012	NC11-0.3	ND	0.050	mg/L	07/29/03	08/08/03	Soil	1:1
15703013	NC11-0.6	ND	0.050	mg/L	07/29/03	08/08/03	Soil	1:1
15703014	NC12-0.15	ND	0.050	mg/L	07/29/03	08/08/03	Soil	1:1
15703015	NC13-0.15	ND	0.050	mg/L	07/29/03	08/08/03	Soil	1:1
15703016	NC14-0.3	0.980	0.050	mg/L	07/29/03	08/08/03	Soil	1:1
15703017	NC15-0.3	0.700	0.050	mg/L	07/29/03	08/08/03	Soil	1:1
15703018	NC15-0.45	0.990	0.050	mg/L	07/29/03	08/08/03	Soil	1:1
15703019	NC16-0.15	1.15	0.050	mg/L	07/29/03	08/08/03	Soil	1:1
15703020	NC17-0.3	ND	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703021	NC17-0.6	ND	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703022	NC18-0.3	ND	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703023	NC18-0.45	ND	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703024	NC19-0.3	ND	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703025	NC20-0.15	0.890	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703026	NC21-0.3	ND	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703027	NC22-0.15	ND	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703028	NC23-0.15	0.620	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703029	NC24-0.3	ND	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703030	NC25-0.3	ND	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703031	NC25-0.45	2.62	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703032	NC26-0.3	2.45	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703033	NC27-0.3	2.67	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703034	NC27-0.45	0.820	0.050	mg/L	07/30/03	08/08/03	Soil	1:1

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Test Certificate of Analysis

Client ID Geocon Consultants, Inc.
Workorder # 15703

Workorder ID S8475-06-71 SR89 North Canyon

Parameter Lead (continued)
Method 6010B STLC Pb

Lab ID	Sample ID	Result	RL	Units	Collected	Analyzed	Matrix	Dilution
15703035	NC28-0.3	1.28	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703036	NC29-0.15	ND	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703037	NC30-0.15	1.04	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703038	NC31-0.3	ND	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703039	NC31-0.6	ND	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703040	NC32-0.3	0.640	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703041	NC33-0.15	ND	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703042	NC34-0.3	0.790	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703043	NC34-0.45	1.03	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703044	NC35-0.3	ND	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703045	NC36-0.15	0.700	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703046	NC37-0.3	1.35	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703047	NC37-0.45	ND	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703048	NC38-0.3	ND	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703049	NC39-0.15	0.960	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703050	NC40-0.3	ND	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703051	NC41-0.3	0.740	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703052	NC41-0.6	ND	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703053	NC42-0.3	1.65	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703054	NC43-0.3	1.15	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703055	NC43-0.45	1.85	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703056	NC44-0.3	3.54	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703057	NC44-0.45	1.55	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703058	NC45-0.3	0.910	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703059	NC46-0.15	1.34	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703060	NC47-0.3	ND	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703061	NC47-0.45	0.630	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703062	NC48-0.3	ND	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703063	NC48-0.6	3.06	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703064	NC49-0.3	3.00	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703065	NC50-0.3	0.930	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703066	NC50-0.6	1.63	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703067	NC51-0.3	0.850	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703068	NC51-0.6	2.59	0.050	mg/L	07/30/03	08/08/03	Soil	1:1

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Test Certificate of Analysis

Client ID Geocon Consultants, Inc.
Workorder # 15703

Workorder ID S8475-06-71 SR89 North Canyon

Parameter Lead (continued)
Method 6010B STLC Pb

Lab ID	Sample ID	Result	RL	Units	Collected	Analyzed	Matrix	Dilution
15703069	NC52-0.3	0.814	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703070	NC52-0.6	0.860	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703071	NC53-0.3	1.07	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703072	NC54-0.3	ND	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703073	NC54-0.6	ND	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703074	NC55-0.3	0.550	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703075	NC56-0.3	2.23	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703076	NC57-0.15	1.14	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703077	NC58-0.3	1.26	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703078	NC59-0.15	ND	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703079	NC60-0.3	0.760	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703080	NC60-0.6	3.49	0.050	mg/L	07/30/03	08/08/03	Soil	1:1
15703081	NC61-0.3	ND	0.050	mg/L	07/31/03	08/08/03	Soil	1:1
15703082	NC62-0.3	0.670	0.050	mg/L	07/31/03	08/08/03	Soil	1:1
15703083	NC62-0.45	1.25	0.050	mg/L	07/31/03	08/08/03	Soil	1:1
15703084	NC63-0.3	ND	0.050	mg/L	07/31/03	08/08/03	Soil	1:1
15703085	NC63-0.45	ND	0.050	mg/L	07/31/03	08/08/03	Soil	1:1
15703086	NC64-0.15	1.01	0.050	mg/L	07/31/03	08/08/03	Soil	1:1
15703087	NC65-0.15	0.910	0.050	mg/L	07/31/03	08/08/03	Soil	1:1
15703088	NC66-0.15	0.790	0.050	mg/L	07/31/03	08/08/03	Soil	1:1
15703089	NC67-0.3	1.65	0.050	mg/L	07/31/03	08/08/03	Soil	1:1
15703090	NC67-0.45	1.70	0.050	mg/L	07/31/03	08/08/03	Soil	1:1
15703091	NC68-0.3	2.49	0.050	mg/L	07/31/03	08/08/03	Soil	1:1
15703092	NC68-0.45	2.54	0.050	mg/L	07/31/03	08/08/03	Soil	1:1
15703093	NC69-0.3	4.32	0.050	mg/L	07/31/03	08/08/03	Soil	1:1
15703094	NC69-0.6	1.64	0.050	mg/L	07/31/03	08/08/03	Soil	1:1
15703095	NC70-0.3	ND	0.050	mg/L	07/31/03	08/08/03	Soil	1:1
15703096	NC70-0.45	ND	0.050	mg/L	07/31/03	08/08/03	Soil	1:1
15703097	NC71-0.15	ND	0.050	mg/L	07/31/03	08/08/03	Soil	1:1
15703098	NC30B-0.15	ND	0.050	mg/L	07/31/03	08/08/03	Soil	1:1

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Method Blank Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	56820
Sample ID	MB for HBN 192938 [ICPV/4530]
Matrix	Soil

Parameter	Method	Prep Date	Aualyzed	Result	RL	Uuits	Dilution
Lead	6010B	08/05/03	08/08/03	ND	1.0	mg/Kg	1:1

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Lab Control Sample Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	56821
Sample ID	LCS for HBN 192938 [ICPV/4530]
Matrix	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/05/03	08/08/03	46.7	1.0	mg/Kg	1:1

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Lab Control Sample Duplicate Report

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
Laboratory ID 56822
Sample ID LCSD for HBN 192938 [ICPV/4530
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/05/03	08/08/03	45.7	1.0	mg/Kg	1:1

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Duplicate Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	56823
Sample ID	DUP for HBN 192938 [ICPV/4530]
Matrix	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/05/03	08/08/03	50.8	1.0	mg/Kg	1:1

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Matrix Spike Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	56824
Sample ID	MS for HBN 192938 [ICPV/4530]
Matrix	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/05/03	08/08/03	83.0	1.0	mg/Kg	1:1

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Matrix Spike Duplicate Report

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
Laboratory ID 56825
Sample ID MSD for HBN 192938 [ICPV/4530]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/05/03	08/08/03	85.1	1.0	mg/Kg	1:1

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Method Blank Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	56911
Sample ID	MB for HBN 193004 [ICPV/4531]
Matrix	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/05/03	08/08/03	ND	1.0	mg/Kg	1:1

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Lab Control Sample Report

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
Laboratory ID 56912
Sample ID LCS for HBN 193004 [ICPV/4531]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/05/03	08/08/03	46.7	1.0	mg/Kg	1:1

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Lab Control Sample Duplicate Report

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
Laboratory ID 56913
Sample ID LCSD for HBN 193004 [ICPV/4531
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/05/03	08/08/03	45.7	1.0	mg/Kg	1:1

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Duplicate Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	56914
Sample ID	DUP for HBN 193004 [ICPV/4531]
Matrix	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/05/03	08/08/03	12.8	1.0	mg/Kg	1:1

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Matrix Spike Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	56915
Sample ID	MS for HBN 193004 [ICPV/4531]
Matrix	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/05/03	08/08/03	10.4	1.0	mg/Kg	1:1

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Matrix Spike Duplicate Report

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
Laboratory ID 56916
Sample ID MSD for HBN 193004 [ICPV/4531]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/05/03	08/08/03	56.2	1.0	mg/Kg	1:1

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Method Blank Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	56942
Sample ID	MB for HBN 193024 [ICPV/4532]
Matrix	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/05/03	08/08/03	ND	1.0	mg/Kg	1:1

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Lab Control Sample Report

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
Laboratory ID 56943
Sample ID LCS for HBN 193024 [ICPV/4532]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/05/03	08/08/03	46.7	1.0	mg/Kg	1:1

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Lab Control Sample Duplicate Report

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
Laboratory ID 56944
Sample ID LCSD for HBN 193024 [ICPV/4532
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/05/03	08/08/03	45.7	1.0	mg/Kg	1:1

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Duplicate Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	56945
Sample ID	DUP for HBN 193024 [ICPV/4532]
Matrix	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/05/03	08/08/03	7.53	1.0	mg/Kg	1:1

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Matrix Spike Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	56946
Sample ID	MS for HBN 193024 [ICPV/4532]
Matrix	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/05/03	08/08/03	52.5	1.0	mg/Kg	1:1

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Matrix Spike Duplicate Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	56947
Sample ID	MSD for HBN 193024 [ICPV/4532]
Matrix	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/05/03	08/08/03	52.5	1.0	mg/Kg	1:1

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Method Blank Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	56961
Sample ID	MB for HBN 193044 [ICPV/4533]
Matrix	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/08/03	08/08/03	ND	1.0	mg/Kg	1:1

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Lab Control Sample Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	56962
Sample ID	LCS for HBN 193044 [ICPV/4533]
Matrix	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/08/03	08/08/03	47.2	1.0	mg/Kg	1:1

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Lab Control Sample Duplicate Report

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
Laboratory ID 56963
Sample ID LCSD for HBN 193044 [ICPV/4533
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/08/03	08/08/03	47.7	1.0	mg/Kg	1:1

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Duplicate Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	56964
Sample ID	DUP for HBN 193044 [ICPV/4533]
Matrix	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/08/03	08/08/03	33.4	1.0	mg/Kg	1:1

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Matrix Spike Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	56965
Sample ID	MS for HBN 193044 [ICPV/4533]
Matrix	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/08/03	08/08/03	80.0	1.0	mg/Kg	1:1

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Matrix Spike Duplicate Report

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
Laboratory ID 56966
Sample ID MSD for HBN 193044 [ICPV/4533]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/08/03	08/08/03	73.1	1.0	mg/Kg	1:1

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Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	56979
Sample ID	MB for HBN 193055 [ICPV/4534]
Matrix	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/05/03	08/08/03	ND	1.0	mg/Kg	1:1

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Lab Control Sample Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	56980
Sample ID	LCS for HBN 193055 [ICPV/4534]
Matrix	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/05/03	08/08/03	47.2	1.0	mg/Kg	1:1

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Lab Control Sample Duplicate Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	56981
Sample ID	LCSD for HBN 193055 [ICPV/4534
Matrix	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/05/03	08/08/03	47.7	1.0	mg/Kg	1:1

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Duplicate Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	56982
Sample ID	DUP for HBN 193055 [ICPV/4534]
Matrix	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/05/03	08/08/03	25.4	1.0	mg/Kg	1:1

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Matrix Spike Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	56983
Sample ID	MS for HBN 193055 [ICPV/4534]
Matrix	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/05/03	08/08/03	62.6	1.0	mg/Kg	1:1

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Matrix Spike Duplicate Report

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
Laboratory ID 56984
Sample ID MSD for HBN 193055 [ICPV/4534]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	08/05/03	08/08/03	58.3	1.0	mg/Kg	1:1

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Method Blank Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	57015
Sample ID	MB for HBN 193077 [ICPV/4537]
Matrix	STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/06/03	08/08/03	ND	0.050	mg/L	1:1

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Lab Control Sample Report

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
Laboratory ID 57016
Sample ID LCS for HBN 193077 [ICPV/4537]
Matrix STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/06/03	08/08/03	2.27	0.050	mg/L	1:1

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Lab Control Sample Duplicate Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	57017
Sample ID	LCSD for HBN 193077 [ICPV/4537
Matrix	STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/06/03	08/08/03	2.32	0.050	mg/L	1:1

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Duplicate Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	57018
Sample ID	DUP for HBN 193077 [ICPV/4537]
Matrix	STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/06/03	08/08/03	0.750	0.050	mg/L	1:1

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Matrix Spike Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	57019
Sample ID	MS for HBN 193077 [ICPV/4537]
Matrix	STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/06/03	08/08/03	2.42	0.050	mg/L	1:1

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Matrix Spike Duplicate Report

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
Laboratory ID 57020
Sample ID MSD for HBN 193077 [ICPV/4537]
Matrix STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/06/03	08/08/03	2.44	0.050	mg/L	1:1

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Method Blank Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	57021
Sample ID	MB for HBN 193080 [ICPV/4538]
Matrix	STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/06/03	08/08/03	ND	0.050	mg/L	1:1

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Lab Control Sample Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	57022
Sample ID	LCS for HBN 193080 [ICPV/4538]
Matrix	STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/06/03	08/08/03	2.27	0.050	mg/L	1:1

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Lab Control Sample Duplicate Report

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
Laboratory ID 57023
Sample ID LCSD for HBN 193080 [ICPV/4538
Matrix STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/06/03	08/08/03	2.32	0.050	mg/L	1:1

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Duplicate Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	57024
Sample ID	DUP for HBN 193080 [ICPV/4538]
Matrix	STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/06/03	08/08/03	ND	0.050	mg/L	1:1

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Matrix Spike Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	57025
Sample ID	MS for HBN 193080 [ICPV/4538]
Matrix	STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/06/03	08/08/03	1.79	0.050	mg/L	1:1

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Matrix Spike Duplicate Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	57026
Sample ID	MSD for HBN 193080 [ICPV/4538]
Matrix	STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/06/03	08/08/03	1.82	0.050	mg/L	1:1

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Method Blank Report

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
Laboratory ID 57027
Sample ID MB for HBN 193083 [ICPV/4539]
Matrix STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/14/03	08/08/03	ND	0.050	mg/L	1:1

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Lab Control Sample Report

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
Laboratory ID 57028
Sample ID LCS for HBN 193083 [ICPV/4539]
Matrix STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/14/03	08/08/03	2.27	0.050	mg/L	1:1

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Lab Control Sample Duplicate Report

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
Laboratory ID 57029
Sample ID LCSD for HBN 193083 [ICPV/4539
Matrix STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/14/03	08/08/03	2.32	0.050	mg/L	1:1

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Duplicate Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	57030
Sample ID	DUP for HBN 193083 [ICPV/4539]
Matrix	STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/14/03	08/08/03	ND	0.050	mg/L	1:1

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Matrix Spike Report

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
Laboratory ID 57031
Sample ID MS for HBN 193083 [ICPV/4539]
Matrix STLC Leachate

Parameter	Method	Prep Date	Aualyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/14/03	08/08/03	1.72	0.050	mg/L	1:1

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Matrix Spike Duplicate Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	57032
Sample ID	MSD for HBN 193083 [ICPV/4539]
Matrix	STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/14/03	08/08/03	1.77	0.050	mg/L	1:1

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Method Blank Report

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
Laboratory ID 57033
Sample ID MB for HBN 193087 [ICPV/4540]
Matrix STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/06/03	08/08/03	ND	0.050	mg/L	1:1

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Lab Control Sample Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	57034
Sample ID	LCS for HBN 193087 [ICPV/4540]
Matrix	STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilutiou
Lead	6010B STLC Pb	08/06/03	08/08/03	2.27	0.050	mg/L	1:1

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Lab Control Sample Duplicate Report

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
Laboratory ID 57035
Sample ID LCSD for HBN 193087 [ICPV/4540
Matrix STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/06/03	08/08/03	2.32	0.050	mg/L	1:1

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Duplicate Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	57036
Sample ID	DUP for HBN 193087 [ICPV/4540]
Matrix	STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/06/03	08/08/03	0.660	0.050	mg/L	1:1

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Matrix Spike Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	57037
Sample ID	MS for HBN 193087 [ICPV/4540]
Matrix	STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilntion
Lead	6010B STLC Pb	08/06/03	08/08/03	2.43	0.050	mg/L	1:1

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Matrix Spike Duplicate Report

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
Laboratory ID 57038
Sample ID MSD for HBN 193087 [ICPV/4540]
Matrix STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/06/03	08/08/03	2.45	0.050	mg/L	1:1

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Method Blank Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	57074
Sample ID	MB for HBN 193192 [ICPV/4541]
Matrix	STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/14/03	08/08/03	ND	0.050	mg/L	1:1

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Lab Control Sample Report

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
Laboratory ID 57075
Sample ID LCS for HBN 193192 [ICPV/4541]
Matrix STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/14/03	08/08/03	2.27	0.050	mg/L	1:1

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Lab Control Sample Duplicate Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	57076
Sample ID	LCSD for HBN 193192 [ICPV/4541
Matrix	STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/14/03	08/08/03	2.32	0.050	mg/L	1:1

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Duplicate Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	57077
Sample ID	DUP for HBN 193192 [ICPV/4541]
Matrix	STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/14/03	08/08/03	ND	0.050	mg/L	1:1

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Matrix Spike Report

Client ID	Geocon Consultants, Inc.
Workorder ID	S8475-06-71 SR89 North Canyon
Laboratory ID	57078
Sample ID	MS for HBN 193192 [ICPV/4541]
Matrix	STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/14/03	08/08/03	1.95	0.050	mg/L	1:1

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Matrix Spike Duplicate Report

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
Laboratory ID 57079
Sample ID MSD for HBN 193192 [ICPV/4541]
Matrix STLC Leachate

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B STLC Pb	08/14/03	08/08/03	1.98	0.050	mg/L	1:1

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QC SUMMARY

Client ID	Geocon Consultants, Inc.		
Workorder ID	S8475-06-71 SR89 North Canyon		
QC Batch	ICPP 4559	**Original**	15703001
Matrix	Soil	**Sample**	Duplicate [56823]

Parameter	RPD	RPD Limits
Lead	41.0	(35)

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QC SUMMARY

Client ID	Geocon Consultants, Inc.		
Workorder ID	S8475-06-71 SR89 North Canyon		
QC Batch	ICPP 4560	**Original**	15703021
Matrix	Soil	**Sample**	Duplicate [56914]

Parameter	RPD	RPD Limits
Lead	0000	(35)

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QC SUMMARY

Client ID	Geocon Consultants, Inc.		
Workorder ID	S8475-06-71 SR89 North Canyon		
QC Batch	ICPP 4561	**Original**	15703041
Matrix	Soil	**Sample**	Duplicate [56945]

Parameter	RPD	RPD Limits
Lead	2.01	(35)

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QC SUMMARY

Client ID	Geocon Consultants, Inc.		
Workorder ID	S8475-06-71 SR89 North Canyon		
QC Batch	ICPP 4562	**Original**	15703061
Matrix	Soil	**Sample**	Duplicate [56964]

Parameter	RPD	RPD Limits
Lead	5.81	(35)

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QC SUMMARY

Client ID	Geocon Consultants, Inc.		
Workorder ID	S8475-06-71 SR89 North Canyon		
QC Batch	ICPP 4563	**Original**	15703081
Matrix	Soil	**Sample**	Duplicate [56982]

Parameter	RPD	RPD Limits
Lead	25.3	(35)

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QC SUMMARY

Client ID	Geocon Consultants, Inc.		
Workorder ID	S8475-06-71 SR89 North Canyon		
QC Batch	ICPP 4566	**Original**	15703001
Matrix	STLC Leachate	**Sample**	Duplicate [57018]

Parameter	RPD	RPD Limits
Lead	1.3	(35)

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QC SUMMARY

Client ID	Geocon Consultants, Inc.		
Workorder ID	S8475-06-71 SR89 North Canyon		
QC Batch	ICPP 4567	**Original**	15703021
Matrix	STLC Leachate	**Sample**	Duplicate [57024]

Parameter	RPD	RPD Limits
Lead	00	(35)

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QC SUMMARY

Client ID	Geocon Consultants, Inc.		
Workorder ID	S8475-06-71 SR89 North Canyon		
QC Batch	ICPP 4568	**Original**	15703041
Matrix	STLC Leachate	**Sample**	Duplicate [57030]

Parameter	RPD	RPD Limits
Lead	00	(35)

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QC SUMMARY

Client ID	Geocon Consultants, Inc.		
Workorder ID	S8475-06-71 SR89 North Canyon		
QC Batch	ICPP 4569	**Original**	15703061
Matrix	STLC Leachate	**Sample**	Duplicate [57036]

Parameter	RPD	RPD Limits
Lead	4.7	(35)

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QC SUMMARY

Client ID	Geocon Consultants, Inc.		
Workorder ID	S8475-06-71 SR89 North Canyon		
QC Batch	ICPP 4570	**Original**	15703081
Matrix	STLC Leachate	**Sample**	Duplicate [57077]

Parameter	RPD	RPD Limits
Lead	00	(35)

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QC SUMMARY

Client ID	Geocon Consultants, Inc.		
Workorder ID	S8475-06-71 SR89 North Canyon		
QC Batch	ICPP 4559	**Original**	15703001
Matrix	Soil	**Samples**	Matrix Spike [56824] Matrix Spike Duplicate [56825]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	99.0	103	(75-125)	3.96	(35 MAX)

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QC SUMMARY

Client ID	Geocon Consultants, Inc.		
Workorder ID	S8475-06-71 SR89 North Canyon		
QC Batch	ICPP 4560	**Original**	15703021
Matrix	Soil	**Samples**	Matrix Spike [56915] Matrix Spike Duplicate [56916]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	-4.8	86.8	(75-125)	223	(35 MAX)

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QC SUMMARY

Client ID	Geocon Consultants, Inc.		
Workorder ID	S8475-06-71 SR89 North Canyon		
QC Batch	ICPP 4561	**Original**	15703041
Matrix	Soil	**Samples**	Matrix Spike [56946] Matrix Spike Duplicate [56947]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	90.2	90.2	(75-125)	0000	(35 MAX)

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QC SUMMARY

Client ID	Geocon Consultants, Inc.		
Workorder ID	S8475-06-71 SR89 North Canyon		
QC Batch	ICPP 4562	**Original**	15703061
Matrix	Soil	**Samples**	Matrix Spike [56965] Matrix Spike Duplicate [56966]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	89.2	75.4	(75-125)	16.8	(35 MAX)

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QC SUMMARY

Client ID	Geocon Consultants, Inc.		
Workorder ID	S8475-06-71 SR89 North Canyon		
QC Batch	ICPP 4563	**Original**	15703081
Matrix	Soil	**Samples**	Matrix Spike [56983] Matrix Spike Duplicate [56984]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	85.8	77.2	(75-125)	10.6	(35 MAX)

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QC SUMMARY

Client ID	Geocon Consultants, Inc.		
Workorder ID	S8475-06-71 SR89 North Canyon		
QC Batch	ICPP 4566	**Original**	15703001
Matrix	STLC Leachate	**Samples**	Matrix Spike [57019] Matrix Spike Duplicate [57020]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	67	68	(60-125)	1.5	(35 MAX)

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QC SUMMARY

Client ID	Geocon Consultants, Inc.		
Workorder ID	S8475-06-71 SR89 North Canyon		
QC Batch	ICPP 4567	**Original**	15703021
Matrix	STLC Leachate	**Samples**	Matrix Spike [57025] Matrix Spike Duplicate [57026]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	72	73	(60-125)	1.4	(35 MAX)

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QC SUMMARY

Client ID	Geocon Consultants, Inc.		
Workorder ID	S8475-06-71 SR89 North Canyon		
QC Batch	ICPP 4568	**Original**	15703041
Matrix	STLC Leachate	**Samples**	Matrix Spike [57031] Matrix Spike Duplicate [57032]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	69	71	(60-125)	2.9	(35 MAX)

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QC SUMMARY

Client ID	Geocon Consultants, Inc.		
Workorder ID	S8475-06-71 SR89 North Canyon		
QC Batch	ICPP 4569	**Original**	15703061
Matrix	STLC Leachate	**Samples**	Matrix Spike [57037] Matrix Spike Duplicate [57038]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	72	73	(60-125)	1.4	(35 MAX)

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QC SUMMARY

Client ID	Geocon Consultants, Inc.		
Workorder ID	S8475-06-71 SR89 North Canyon		
QC Batch	ICPP 4570	**Original**	15703081
Matrix	STLC Leachate	**Samples**	Matrix Spike [57078] Matrix Spike Duplicate [57079]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	78	79	(60-125)	1.3	(35 MAX)

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QC SUMMARY

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
QC Batch ICPP 4559
Matrix Soil

Samples Lab Control Sample [56821]
Lab Control Sample Duplicate [56822]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	93.4	91.4	(80-120)	2.16	(20 MAX)

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QC SUMMARY

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
QC Batch ICPP 4560
Matrix Soil

Samples Lab Control Sample [56912]
Lab Control Sample Duplicate [56913]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	93.4	91.4	(80-120)	2.16	(20 MAX)

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QC SUMMARY

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
QC Batch ICPP 4561
Matrix Soil

Samples Lab Control Sample [56943]
Lab Control Sample Duplicate [56944]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	93.4	91.4	(80-120)	2.16	(20 MAX)

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QC SUMMARY

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
QC Batch ICPP 4562
Matrix Soil

Samples Lab Control Sample [56962]
Lab Control Sample Duplicate [56963]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	94.4	95.4	(80-120)	1.05	(20 MAX)

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QC SUMMARY

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
QC Batch ICPP 4563
Matrix Soil

Samples Lab Control Sample [56980]
Lab Control Sample Duplicate [56981]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	94.4	95.4	(80-120)	1.05	(20 MAX)

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QC SUMMARY

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
QC Batch ICPP 4566
Matrix STLC Leachate

Samples Lab Control Sample [57016]
Lab Control Sample Duplicate [57017]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	91	93	(80-120)	2.2	(20 MAX)

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QC SUMMARY

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
QC Batch ICPP 4567
Matrix STLC Leachate

Samples Lab Control Sample [57022]
Lab Control Sample Duplicate [57023]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	91	93	(80-120)	2.2	(20 MAX)

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QC SUMMARY

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
QC Batch ICPP 4568
Matrix STLC Leachate

Samples Lab Control Sample [57028]
Lab Control Sample Duplicate [57029]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	91	93	(80-120)	2.2	(20 MAX)

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QC SUMMARY

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
QC Batch ICPP 4569
Matrix STLC Leachate

Samples Lab Control Sample [57034]
Lab Control Sample Duplicate [57035]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	91	93	(80-120)	2.2	(20 MAX)

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QC SUMMARY

Client ID Geocon Consultants, Inc.
Workorder ID S8475-06-71 SR89 North Canyon
QC Batch ICPP 4570
Matrix STLC Leachate

Samples Lab Control Sample [57075]
Lab Control Sample Duplicate [57076]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	91	93	(80-120)	2.2	(20 MAX)

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WORKORDER DATA SHEET
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ID	15703	WO # 15703	S8475-06-71 SR89 North Canyon	STATUS WP
DESC	BFloor JR			

CREATED	08/01/03 10:05	PO S8475-06-71	QA	TYPE CM	ACODE REPORT_WO
CLIENT	Geocon Geocon Consultants, Inc.				
PROFILE	4510 MULTI Multi Page				

WORKORDER SAMPLES

1 **15703001** 15703001 NC1-0.15

WP	TYPE SAMPLE	MATRIX	Soil
COLLECTED	07/29/03 00:00	DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

2 **15703002** 15703002 NCO2-0.15

WP	TYPE SAMPLE	MATRIX	Soil
COLLECTED	07/29/03 00:00	DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

3 **15703003** 15703003 NCO3-0.3

WP	TYPE SAMPLE	MATRIX	Soil
COLLECTED	07/29/03 00:00	DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

4 **15703004** 15703004 NCO4-0.3

WP	TYPE SAMPLE	MATRIX	Soil
COLLECTED	07/29/03 00:00	DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

5 **15703005** 15703005 NCO5-0.15

WP	TYPE SAMPLE	MATRIX	Soil
COLLECTED	07/29/03 00:00	DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

WORKORDER DATA SHEET
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6	**15703006**	15703006	NCO6-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/29/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

7	**15703007**	15703007	NCO7-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/29/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

8	**15703008**	15703008	NCO8-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/29/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

9	**15703009**	15703009	NCO9-0.15		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/29/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

10	**15703010**	15703010	NC10-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/29/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

11	**15703011**	15703011	NC10-0.6		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/29/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

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12	**15703012**	15703012	NC11-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/29/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

13	**15703013**	15703013	NC11-0.6		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/29/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

14	**15703014**	15703014	NC12-0.15		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/29/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

15	**15703015**	15703015	NC13-0.15		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/29/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

16	**15703016**	15703016	NC14-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/29/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

17	**15703017**	15703017	NC15-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/29/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

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18	**15703018**	15703018	NC15-0.45		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/29/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

19	**15703019**	15703019	NC16-0.15		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/29/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

20	**15703020**	15703020	NC17-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

21	**15703021**	15703021	NC17-0.6		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

22	**15703022**	15703022	NC18-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

23	**15703023**	15703023	NC18-0.45		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

WORKORDER DATA SHEET
Aug 07, 2003 15:42

24	**15703024**	15703024	NC19-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

25	**15703025**	15703025	NC20-0.15		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

26	**15703026**	15703026	NC21-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

27	**15703027**	15703027	NC22-0.15		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

28	**15703028**	15703028	NC23-0.15		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

29	**15703029**	15703029	NC24-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

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30	**15703030**	15703030	NC25-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

31	**15703031**	15703031	NC25-0.45		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

32	**15703032**	15703032	NC26-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

33	**15703033**	15703033	NC27-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

34	**15703034**	15703034	NC27-0.45		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

35	**15703035**	15703035	NC28-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

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36	**15703036**	15703036	NC29-0.15		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

37	**15703037**	15703037	NC30-0.15		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

38	**15703038**	15703038	NC31-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

39	**15703039**	15703039	NC31-0.6		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

40	**15703040**	15703040	NC32-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

41	**15703041**	15703041	NC33-0.15		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

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42	**15703042**	15703042	NC34-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

43	**15703043**	15703043	NC34-0.45		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

44	**15703044**	15703044	NC35-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

45	**15703045**	15703045	NC36-0.15		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

46	**15703046**	15703046	NC37-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

47	**15703047**	15703047	NC37-0.45		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

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48	**15703048**	15703048	NC38-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

49	**15703049**	15703049	NC39-0.15		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

50	**15703050**	15703050	NC40-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

51	**15703051**	15703051	NC41-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

52	**15703052**	15703052	NC41-0.6		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

53	**15703053**	15703053	NC42-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

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54 **15703054** 15703054 NC43-0.3
WP TYPE SAMPLE MATRIX Soil
COLLECTED 07/30/03 00:00 DUE 08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

55 **15703055** 15703055 NC43-0.45
WP TYPE SAMPLE MATRIX Soil
COLLECTED 07/30/03 00:00 DUE 08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

56 **15703056** 15703056 NC44-0.3
WP TYPE SAMPLE MATRIX Soil
COLLECTED 07/30/03 00:00 DUE 08/14/03 17:00

Analyses		Turudays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

57 **15703057** 15703057 NC44-0.45
WP TYPE SAMPLE MATRIX Soil
COLLECTED 07/30/03 00:00 DUE 08/14/03 17:00

Aualyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

58 **15703058** 15703058 NC45-0.3
WP TYPE SAMPLE MATRIX Soil
COLLECTED 07/30/03 00:00 DUE 08/14/03 17:00

Analyses		Tnrndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

59 **15703059** 15703059 NC46-0.15
WP TYPE SAMPLE MATRIX Soil
COLLECTED 07/30/03 00:00 DUE 08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

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60	**15703060**	15703060	NC47-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

61	**15703061**	15703061	NC47-0.45		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

62	**15703062**	15703062	NC48-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

63	**15703063**	15703063	NC48-0.6		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

64	**15703064**	15703064	NC49-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

65	**15703065**	15703065	NC50-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

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66 **15703066** 15703066 NC50-0.6
WP TYPE SAMPLE MATRIX Soil
COLLECTED 07/30/03 00:00 DUE 08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

67 **15703067** 15703067 NC51-0.3
WP TYPE SAMPLE MATRIX Soil
COLLECTED 07/30/03 00:00 DUE 08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

68 **15703068** 15703068 NC51-0.6
WP TYPE SAMPLE MATRIX Soil
COLLECTED 07/30/03 00:00 DUE 08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

69 **15703069** 15703069 NC52-0.3
WP TYPE SAMPLE MATRIX Soil
COLLECTED 07/30/03 00:00 DUE 08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

70 **15703070** 15703070 NC52-0.6
WP TYPE SAMPLE MATRIX Soil
COLLECTED 07/30/03 00:00 DUE 08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

71 **15703071** 15703071 NC53-0.3
WP TYPE SAMPLE MATRIX Soil
COLLECTED 07/30/03 00:00 DUE 08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

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72	**15703072**	15703072	NC54-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

73	**15703073**	15703073	NC54-0.6		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

74	**15703074**	15703074	NC55-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

75	**15703075**	15703075	NC56-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

76	**15703076**	15703076	NC57-0.15		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

77	**15703077**	15703077	NC58-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

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78	**15703078**	15703078	NC59-0.15		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

79	**15703079**	15703079	NC60-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

80	**15703080**	15703080	NC60-0.6		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/30/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

81	**15703081**	15703081	NC61-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/31/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

82	**15703082**	15703082	NC62-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/31/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

83	**15703083**	15703083	NC62-0.45		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/31/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

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84	**15703084**	15703084	NC63-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/31/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

85	**15703085**	15703085	NC63-0.45		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/31/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

86	**15703086**	15703086	NC64-0.15		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/31/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

87	**15703087**	15703087	NC65-0.15		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/31/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

88	**15703088**	15703088	NC66-0.15		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/31/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

89	**15703089**	15703089	NC67-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/31/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

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90	**15703090**	15703090	NC67-0.45		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/31/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

91	**15703091**	15703091	NC68-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/31/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

92	**15703092**	15703092	NC68-0.45		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/31/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

93	**15703093**	15703093	NC69-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/31/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

94	**15703094**	15703094	NC69-0.6		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/31/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

95	**15703095**	15703095	NC70-0.3		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/31/03 00:00		DUE	08/14/03 17:00

Analyses		Turndays
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

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96	**15703096**	15703096	NC70-0.45		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/31/03 00:00		DUE	08/14/03 17:00

Analyses		**Turndays**
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

97	**15703097**	15703097	NC71-0.15		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/31/03 00:00		DUE	08/14/03 17:00

Analyses		**Turndays**
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

98	**15703098**	15703098	NC30B-0.15		
	WP	TYPE SAMPLE		MATRIX	Soil
	COLLECTED	07/31/03 00:00		DUE	08/14/03 17:00

Analyses		**Turndays**
6010S Pb	6010B Soil, Pb, Lead	10
6010C Pb	6010B STLC, Pb, Lead	10

SPARGER TECHNOLOGY, INC.
Analytical Laboratory
3050 Fite Circle, #112 Sacramento, CA 95827
Phone: (916) 362-8947
FAX: (916) 362-0947

CHAIN OF CUSTODY RECORD

C.O.C. No. 13188
Page 1 **of** 10
STAL Invoice Number: 15703

Company: Geocon Consultants Inc
Phone: 916-852-9118
Project Manager: John Johnson
FAX: 916-852-9132
Report Address: 11375 Sunrise Park Dr. Suite 100, Rancho Cordova, CA 95742
Billing Name & Address:
Project Name: State Route 89 North Canyon
Project/Job#: 58475-06-71
Project Location: SR89 Truckee River Canyon, Tahoe City CA
P.O.#:

ANALYSIS REQUEST

REMARKS: Caltrans QA/QC

Sampler's Name: Nate Manley

		All OK	None OK	Some OK
Cooler Temp.	°C	✓		
Sample Condition		✓		
pH				

WET(STLC)
TCLP

NO.	SAMPLE ID	Sampling Date	Sampling Time	40 mL VOA	Brass Sleeve	1 L amber bottle	250 mL Plastic	Other: Ziplock Bag	HCl/HNO3/ICE	None	Other:	Water	Soil	Air	Other:	BTEX (602/8020)503.1	BTEX/TPHgas (602/8020/8015)	TPHdiesel/TPHmotor oil/kerosene(8015)	EPA 601/8010/502.2/504	EPA 602/8020	EPA 608/8080 (Pesticides)/505/508	EPA 608/8080 (PCB'S)	EPA 624/8240/524.2	EPA 625/8270/525	Total Oil & Grease (5520)	Non-Polar O & G/TRPH (418.1)	Organic Lead	RCI	CAM-17 Metals	CAM-5 Metals (Cd, Cr, Pb, Ni, Zn)	Lead Total Lead EPA 6010	Lead WET Lead EPA 7000	Standard	Rush Services (72hr / 48hr / 24hr / 12hr)	Holiday/Weekend Rush
1	NC1-0.15	7/29	1355					X		X			X																		X	X	X		
2	NC02-0.15		1402																																
3	NC03-0.3		1407																																
4	NC04-0.3		1416																																
5	NC05-0.75		1427																																
6	NC06 0.3		1434																																
7	NC07 0.3		1445																																
8	NC08 0.3		1454																																
9	NC09 0.15		1502																																
10	NC10 0.3		1509																																

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Date: 7/31/03 Time: 1532	Date: 7/31/03 Time: 1532	Date: Time:	Date: Time:

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CHAIN OF CUSTODY RECORD

C.O.C. No. 2614

Page 2 **of** 10

STAL Invoice Number: 15703

Company: Geocon Consultants Inc Phone: 916-852-9118

Project Manager: John Johnson FAX: 916-852-9132

Report Address: See Page 1

Billing Name & Address:

Project Name: State Route 89 North Canyon Project/Job#: 58475-06-71

Project Location:

P.O.#:

ANALYSIS REQUEST

REMARKS: Caltrans QA/QC

Sampler's Name: Nate Manley

		All OK	None OK	Some OK
Cooler Temp.	°C	✓		
Sample Condition		✓		
pH				

WET(STLC)

TCLP

Total

TAT

NO.	SAMPLE ID	Date	Time	40 mL VOA	Brass Sleeve	1 L amber bottle	250 mL Plastic	Other: Ziplock Bag	HCl/HNO3/ICE	None	Other:	Water	Soil	Air	Other:	Total Lead EPA 6010	WET Lead EPA 7000	Standard	Rush Services (72hr / 48hr / 24hr / 12hr)	Holiday/Weekend Rush
~~1~~	~~NC 10-0.3~~	~~7/29~~	~~1509~~					X		X			X			X	X	X		
2	NC 10-0.6		1511																	
3	NC 11-0.3		1519																	
4	NC 11-0.6		1522																	
5	NC 12-0.15		1530																	
6	NC 13-0.15		1540																	
7	NC 14-0.3		1547																	
8	NC 15 0.3		1556																	
9	NC 15 0.45		1558																	
10	NC 16 0.15		1610																	

Relinquished by:	Received by:	Relinquished by:	Received by:
Nathan Manley	Jennifer Pilky		
Date: 7/31/03 Time: 1532	Date: 7/31/03 Time: 1532	Date: Time:	Date: Time:

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CHAIN OF CUSTODY RECORD

C.O.C. No. 13189
Page 3 **of** 10
STAL Invoice Number: 15703

Company: Geocon Consultants, Inc Phone: 916-852-9118
Project Manager: John Juhrend FAX: 916-852-9132
Report Address: See Page 1
Billing Name & Address:
Project Name: State Route 89 North Canyon Project/Job#: 58475-06-71
Project Location: P.O.#:

ANALYSIS REQUEST

REMARKS: Caltrans QA/QC

Sampler's Name: Nate Manley

		All OK	None OK	Some OK
Cooler Temp.	°C	✓		
Sample Condition		✓		
pH				

WET(STLC)
TCLP

NO.	SAMPLE ID	Sampling Date	Sampling Time	Container: 40 mL VOA	Brass Sleeve	1 L amber bottle	250 mL Plastic	Other: Ziplock Bag	Preservative Used: HCl/HNO3/ICE	None	Other:	Matrix: Water	Soil	Air	Other:	TCLP: BTEX (602/8020)503.1	BTEX/TPHgas (602/8020/8015)	TPHdiesel/TPHmotor oil/kerosene(8015)	EPA 601/8010/502.2/504	EPA 602/8020	EPA 608/8080 (Pesticides)/505/508	EPA 608/8080 (PCB'S)	EPA 624/8240/524.2	EPA 625/8270/525	Total Oil & Grease (5520)	Non-Polar O & G/TRPH (418.1)	Organic Lead	RCI		Total: CAM-17 Metals	CAM-5 Metals (Cd, Cr, Pb, Ni, Zn)	Lead Total/Lead EPA 6010	WET Lead EPA 7000	TAT: Standard	Rush Services (72hr / 48hr / 24hr / 12hr)	Holiday/Weekend Rush
1	NC17-0.3	7/30	0737					X		X			X																			X	X	X		
2	NC17-0.6	7/30	0740																																	
3	NC18-0.3		0749																																	
4	NC16-0.45		0754																																	
5	NC19-0.3		0806																																	
6	NC20-0.15		0813																																	
7	NC21-0.3		0824																																	
8	NC22-0.15		0832																																	
9	NC23-0.15		0840																																	
10	NC24-0.3		0849																																	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Nate Manley	7/31/03	1532	Jennifer Ryley	7/31/03	15:30
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CHAIN OF CUSTODY RECORD

C.O.C. No. 13190

Page 4 **of** 10

STAL Invoice Number: 15703

Company: Geocon Consultants, Inc Phone: 916-852-9118

Project Manager: John Johnson FAX: 916-852-9132

Report Address: See Page 1

Billing Name & Address:

Project Name: State Route 89 North Canyon Project/Job#: 58475-06-71

Project Location: P.O.#:

ANALYSIS REQUEST

REMARKS: Caltrans QA/QC

Sampler's Name: Nate Manley

		All OK	None OK	Some OK
Cooler Temp.	°C	✓		
Sample Condition		✓		
pH				

WET(STLC)

TCLP

NO.	SAMPLE ID	Sampling Date	Sampling Time	40 mL VOA	Brass Sleeve	1 L amber bottle	250 mL Plastic	Other: Ziplock Bag	HCl/HNO3/ICE	None	Other:	Water	Soil	Air	Other:	BTEX (602/8020)503.1	BTEX/TPHgas (602/8020/8015)	TPHdiesel/TPHmotor oil/kerosene(8015)	EPA 601/8010/502.2/504	EPA 602/8020	EPA 608/8080 (Pesticides)/505/508	EPA 608/8080 (PCB'S)	EPA 624/8240/524.2	EPA 625/8270/525	Total Oil & Grease (5520)	Non-Polar O & G/TRPH (418.1)	Organic Lead	RCI		CAM-17 Metals	CAM-5 Metals (Cd, Cr, Pb, Ni, Zn)	Lead Total Lead EPA 6010	Lead WET Lead EPA 7000	Standard	Rush Services (72hr / 48hr / 24hr / 12hr)	Holiday/Weekend Rush
1	NC25-0.3	7/30	0924					X		X			X																			X	X	X		
2	NC25-0.45	↓	0926					↓		↓			↓																			↓	↓	↓		
3	NC26-0.3	↓	0933					↓		↓			↓																			↓	↓	↓		
4	NC27-0.3	↓	0942					↓		↓			↓																			↓	↓	↓		
5	NC27-0.45	↓	0944					↓		↓			↓																			↓	↓	↓		
6	NC28-0.3	↓	0950					↓		↓			↓																			↓	↓	↓		
7	NC29-0.15	↓	1002					↓		↓			↓																			↓	↓	↓		
8	NC30-0.15	↓	1010					↓		↓			↓																			↓	↓	↓		
9	NC31-0.3	↓	1027					↓		↓			↓																			↓	↓	↓		
10	NC31-0.6		1030					↓		↓			↓																			↓	↓	↓		

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Phone: (916) 362-8947
FAX: (916) 362-0947

CHAIN OF CUSTODY RECORD

C.O.C. No. 13191
Page 5 **of** 10
STAL Invoice Number: 15203

any: Geocon Consultants, Inc Phone: 916-852-9118
t Manager: John Juhrend FAX: 916-852-9132
rt Address: See Page 1
Billing Name & Address:

Project Name:
Project/Job#:
Project Location:
P.O.#:

ANALYSIS REQUEST

REMARKS: Caltrans QA/QC

Sampler's Name: Nate Manley

		All OK	None OK	Some OK
Cooler Temp.	°C	✓		
Sample Condition		✓		
pH				

WET(STLC)
TCLP

NO.	SAMPLE ID	Sampling Date	Sampling Time	Container: 40 mL VOA	Brass Sleeve	1 L amber bottle	250 mL Plastic	Other: Ziplock Bag	Preservative Used: HCl/HNO3/ICE	None	Other:	Matrix: Water	Soil	Air	Other:	TCLP: BTEX (602/8020)503.1	BTEX/TPHgas (602/8020/8015)	TPHdiesel/TPHmotor oil/kerosene(8015)	EPA 601/8010/502.2/504	EPA 602/8020	EPA 608/8080 (Pesticides)/505/508	EPA 608/8080 (PCB'S)	EPA 624/8240/524.2	EPA 625/8270/525	Total Oil & Grease (5520)	Non-Polar O & G/TRPH (418.1)	Organic Lead	RCI	Total: CAM-17 Metals	CAM-5 Metals (Cd, Cr, Pb, Ni, Zn)	Lead Total Lead EPA 6010	Lead WET Lead EPA 7000	TAT: Standard	Rush Services (72hr / 48hr / 24hr / 12hr)	Holiday/Weekend Rush
1	NC32-0.3	7/30	1040					X		X			X																		X	X	X		
2	NC33-0.15		1049																																
3	NC34-0.3		1056																																
4	NC34-0.45		1059																																
5	~~NC35-0.15~~		~~1115~~																																
6	NC35-0.3		1107																																
7	NC36-0.15		1115																																
8	NC37-0.3		1126																																
9	NC37-0.45		1128																																
10	NC38-0.3		1137																																

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Date: 7/31/03 Time: 1532	Date: 7/31/03 Time: 1532	Date: Time:	Date: Time:

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Analytical Laboratory

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Phone: (916) 362-8947

FAX: (916) 362-0947

CHAIN OF CUSTODY RECORD

C.O.C. No. 2650

Page 6 **of** 10

STAL Invoice Number: 5703

Company: Geocon Consultants, Inc

Phone: 916-852-9118

Project Manager: John Schroud

FAX: 916-852-9132

Report Address: See Page 1

Billing Name & Address:

Project Name: State Route 89 North Canyon

Project/Job#: S8475-06-71

Project Location:

P.O.#:

ANALYSIS REQUEST

REMARKS: Caltrans QA/QC

Sampler's Name: Nate Marley

		All OK	None OK	Some OK
Cooler Temp.	°C	✓		
Sample Condition		✓		
pH				

WET(STLC)

TCLP

NO.	SAMPLE ID	Sampling Date	Sampling Time	Container: 40 mL VOA	Brass Sleeve	1 L amber bottle	250 mL Plastic	Other: Ziplock Bag	Preservative Used: HCl/HNO3/ICE	None	Other:	Matrix: Water	Soil	Air	Other:	TCLP: Total Lead EPA 6010	WET Lead EPA 7000	Total	Standard	Rush Services (72hr / 48hr / 24hr / 12hr)	Holiday/Weekend Rush
1	NC39-0.15	7/30	1145					X		X			X			X	X		X		
2	NC40-0.3		1154																		
3	NC41-0.3		1204																		
4	NC41-0.6		1206																		
5	NC42-0.3		1214																		
6	NC43-0.3		1324																		
7	NC43-0.45		1326																		
8	NC44-0.3		1333																		
9	NC44-0.45		1335																		
10	NC45-0.3		1341																		

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Date: 7/31/03 Time: 1532	Date: 7/31/03 Time: 15:30	Date: Time:	Date: Time:

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Analytical Laboratory

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Phone: (916) 362-8947

FAX: (916) 362-0947

CHAIN OF CUSTODY RECORD

C.O.C. No. 2631

Page 7 **of** 10

STAL Invoice Number: 15703

Company: Geocon Consultants, Inc Phone: 916-852-9118

Project Manager: John Tuhwand FAX: 916-852-9132

Report Address: See Page 1

Billing Name & Address:

Project Name: Santa Rosa 89 North Canyon

Project/Job#: 58475-06-71

Project Location:

P.O.#:

ANALYSIS REQUEST

REMARKS: Caltrans QA/QC

Sampler's Name: Nate Manley

		All OK	None OK	Some OK
Cooler Temp.	°C	✓		
Sample Condition		✓		
pH				

WET(STLC)

TCLP

NO.	SAMPLE ID	Sampling Date	Sampling Time	40 mL VOA	Brass Sleeve	1 L amber bottle	250 mL Plastic	Other: Ziplock Bag	HCl/HNO3/ICE	None	Other:	Water	Soil	Air	Other:	TCLP: Total Lead EPA 6010	TCLP: WET Lead EPA 7000	Standard	Rush Services (72hr / 48hr / 24hr / 12hr)	Holiday/Weekend Rush
1	NC46-0.15	7/31/03	1351					X		X			X			X	X	X		
2	NC47-0.3		1357																	
3	NC47-0.45		1358																	
4	NC48-0.3		1406																	
5	NC48-0.6		1408																	
6	NC49-0.3		1416																	
7	NC50-0.3		1422																	
8	NC50-0.6		1423																	
9	NC51-0.3		1435																	
10	NC51-0.6		1437																	

Relinquished by:	Received by:	Relinquished by:	Received by:
Date: 7/31/03 Time: 1532	Date: Time:	Date: Time:	Date: Time:

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Phone: (916) 362-8947
FAX: (916) 362-0947

CHAIN OF CUSTODY RECORD

C.O.C. No. 2630
Page 8 **of** 10
STAL Invoice Number: 15703

Company: Geocon Consultants Inc Phone: 916-852-9118
Project Manager: John Johnson FAX: 916-852-9132
Report Address: See Page 1
Billing Name & Address:

Project Name: State Route 89 North Canyon Project/Job#: 53475-06-71
Project Location: P.O.#:

ANALYSIS REQUEST

REMARKS: Caltrans QA/QC

Sampler's Name: Nate Manley

		All OK	None OK	Some OK
Cooler Temp.	°C	✓		
Sample Condition		✓		
pH				

WET(STLC)
TCLP

NO.	SAMPLE ID	Sampling Date	Sampling Time	40 mL VOA	Brass Sleeve	1 L amber bottle	250 mL Plastic	Other: Ziplock Bag	HCl/HNO3/ICE	None	Other:	Water	Soil	Air	Other:	Total Lead EPA 6010	WET Lead EPA 7420	Standard	Rush Services (72hr / 48hr / 24hr / 12hr)	Holiday/Weekend Rush
1	NC 52-0.3	7/30	1443					X		X			X			X	X	X		
2	NC 52-0.6	7/30	1445																	
3	NC 53-0.3	7/30	1455																	
4	NC 54-0.3	7/30	1501																	
5	NC 54-0.6	7/30	1503																	
6	NC 55-0.3	7/30	1511																	
7	NC 56-0.3	7/30	1526																	
8	NC 57-0.15	7/30	1536																	
9	NC 58-0.3	7/30	1544																	
10	NC 59-0.15	7/30	1551																	

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Date: 7/31/03 Time: 1532	Date: 7/31/03 Time: 15:32	Date: Time:	Date: Time:

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Analytical Laboratory

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Phone: (916) 362-8947

FAX: (916) 362-0947

CHAIN OF CUSTODY RECORD

C.O.C. No. 2629

Page 9 **of** 10

STAL Invoice Number: 15703

Company: Geocon Consultants Inc Phone: 916-852-9118

Project Manager: John Johnson FAX: 916-852-9132

Report Address: See Page 1

Billing Name & Address:

Project Name: State Route 89 North Canyon

Project/Job#: S8475-06-71

Project Location:

P.O.#:

ANALYSIS REQUEST

REMARKS: Caltrans QA/QC

Sampler's Name: Nate Manley

		All OK	None OK	Some OK
Cooler Temp.	°C	✓		
Sample Condition		✓		
pH				

WET(STLC)

TCLP

NO.	SAMPLE ID	Sampling Date	Sampling Time	Container: 40 mL VOA	Brass Sleeve	1 L amber bottle	250 mL Plastic	Other: Ziploc Bag	Preservative Used: HCl/HNO3/ICE	None	Other:	Matrix: Water	Soil	Air	Other:	TCLP: Total Lead EPA 6010	WET Lead EPA 7000	Total	TAT: Standard	Rush Services (72hr / 48hr / 24hr / 12hr)	Holiday/Weekend Rush
1	NC60-0.3	7/30	1554					X		X			X			X	X		X		
2	NC60-0.6	7/30	1601																		
3	NC61-0.3	7/31	0742																		
4	NC62-0.3	7/31	0755																		
5	NC62-0.45	7/31	0800																		
6	NC63-0.3		0808																		
7	NC63-0.45		0810																		
8	NC64-0.15		0820																		
9	NC65-0.15		0829																		
10	NC66-0.15		0838																		

Relinquished by:	Received by:	Relinquished by:	Received by:
Date: 7/31/03 Time: 1532	Date: 7/31/03 Time: 5:32	Date: Time:	Date: Time:

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Analytical Laboratory

3050 Fite Circle, #112 Sacramento, CA 95827

Phone: (916) 362-8947

FAX: (916) 362-0947

CHAIN OF CUSTODY RECORD

C.O.C. No. 2626

Page 10 **of** 10

STAL Invoice Number: 15703

Company: Geocon Consultants Inc Phone: 916-852-9118

Project Manager: John Tuhrend FAX: 916-852-9132

Report Address: See Page 1

Billing Name & Address:

Project Name: State Route 89 North Canyon

Project/Job#: 58475-06-71

Project Location:

P.O.#:

ANALYSIS REQUEST

REMARKS: Caltrans QA/QC

Sampler's Name: Nate Manley

		All OK	None OK	Some OK
Cooler Temp.	°C	✓		
Sample Condition		✓		
pH				

WET(STLC)

TCLP

TCLP

Total

TAT

NO.	SAMPLE ID	Date	Time	40 mL VOA	Brass Sleeve	1 L amber bottle	250 mL Plastic	Other: Ziplock Bag	HCl/HNO3/ICE	None	Other:	Water	Soil	Air	Other:	Total Lead EPA 6010	WET Lead EPA 7000	Standard	Rush Services (72hr / 48hr / 24hr / 12hr)	Holiday/Weekend Rush
1	NC67-0.3	7/31	0842					X		X			X			X	X	X		
2	NC67-0.45		0846																	
3	NC68-0.3		0856																	
4	NC68-0.45		0858																	
5	NC69-0.3		0904																	
6	NC69-0.6		0905																	
7	NC70-0.3		0912																	
8	NC70-0.45		0918																	
9	NC71-0.15		0924																	
10	NC30B-0.15		1019																	

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APPENDIX B

DESCRIPTION OF DATA SET

SR-89 Squaw Valley to Tahoe City (North Canyon) - 0.15 m samples

DATA SET STATISTICS

Number of Samples	23
Arithmetic Mean	27
Standard Deviation (x)	14
Bootstrap Estimate of Population Mean	27
Bootstrap Estimate of Standard Error	3

	90%UCL	95%UCL
Standard Bootstrap	31	32

DESCRIPTION OF DATA SET

SR-89 Squaw Valley to Tahoe City (North Canyon) - 0.3 m samples

DATA SET STATISTICS

Number of Samples	49
Arithmetic Mean	38
Standard Deviation (x)	28
Bootstrap Estimate of Population Mean	37
Bootstrap Estimate of Standard Error	4

	90%UCL	95%UCL
Standard Bootstrap	42	44

DESCRIPTION OF DATA SET

SR-89 Squaw Valley to Tahoe City (North Canyon) - 0.45 m samples

DATA SET STATISTICS

Number of Samples	14
Arithmetic Mean	35
Standard Deviation (x)	24
Bootstrap Estimate of Population Mean	36
Bootstrap Estimate of Standard Error	6

	90%UCL	95%UCL
Standard Bootstrap	44	46

DESCRIPTION OF DATA SET

SR-89 Squaw Valley to Tahoe City (North Canyon) - 0.6 m samples

DATA SET STATISTICS

Number of Samples	12
Arithmetic Mean	37
Standard Deviation (x)	33
Bootstrap Estimate of Population Mean	37
Bootstrap Estimate of Standard Error	9

	90%UCL	95%UCL
Standard Bootstrap	48	51

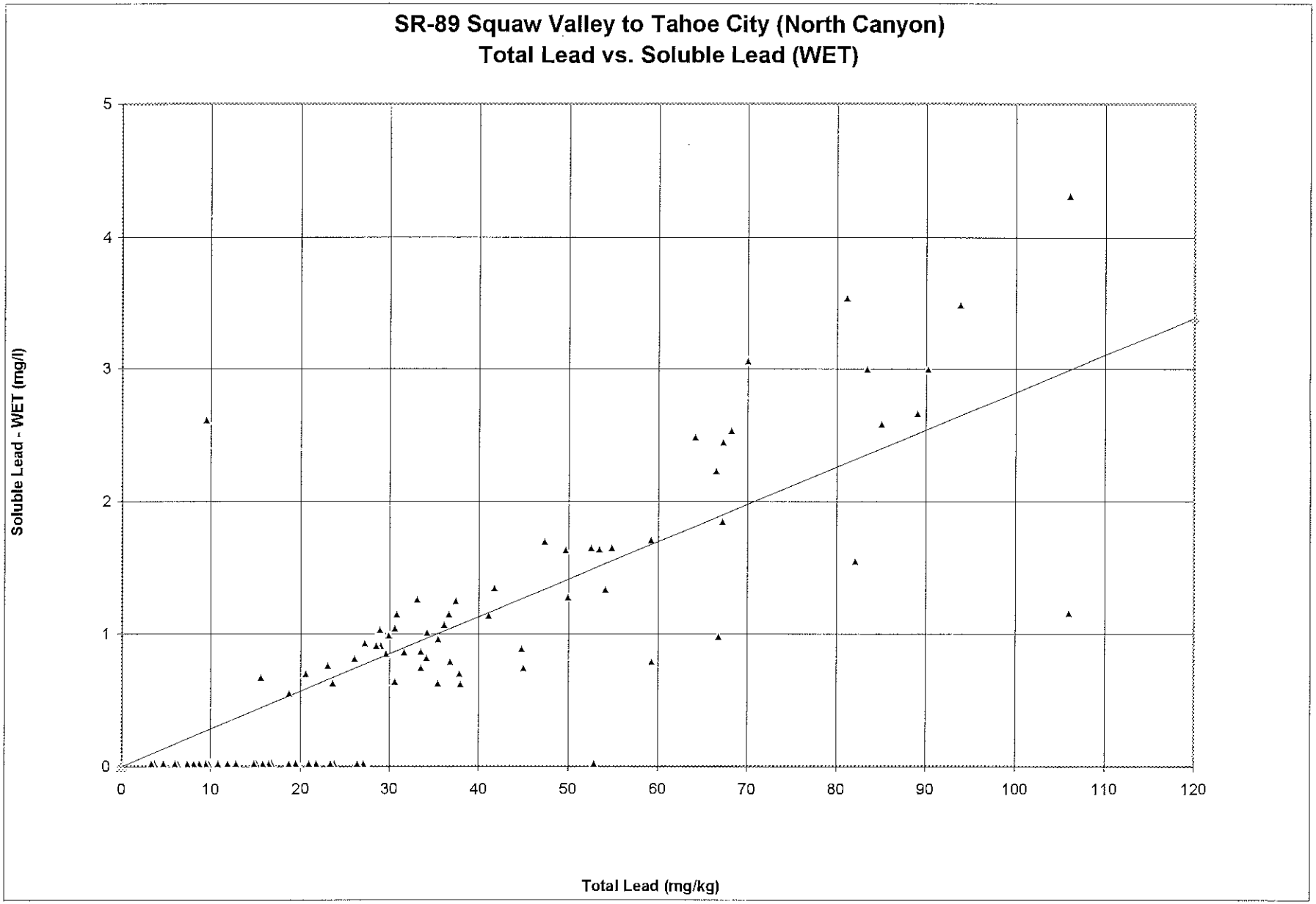
Project Name: State Route 89 Squaw Valley to Tahoe City (North Canyon)
Project Number: S8475-06-71
Task Order Number: 03-1A8400-DF

Regression Analysis Results for Total Lead vs. Soluble Lead (WET)

Regression Output:

Constant *(b)*	0
Slope *(m)*	0.0283
Correlation *(r)*	0.834
Number of *(x, y)* Observations	98
Total Lead Mean	35
Total Lead Standard Error	3
Total Lead Standard Deviation	25
Soluble Lead (WET) Mean	1
Soluble Lead (WET) Standard Error	0.1
Soluble Lead (WET) Standard Deviation	1

Regression Line: $y = m(x) + b$, where x = total lead and y = soluble lead (WET)


SR-89 Squaw Valley to Tahoe City (North Canyon)
Total Lead vs. Soluble Lead (WET)
Soluble Lead - WET (mg/l)
Total Lead (mg/kg)
0
1
2
3
4
5
0
10
20
30
40
50
60
70
80
90
100
110
120