

AERIALY DEPOSITED LEAD ASSESSMENT

Silva Valley Parkway and US-50

El Dorado County, California

Prepared by:

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February 2012

Prepared for:

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Geotechnical ▪ Construction Services ▪ Forensics

BCI File No. 556.3
February 29, 2012

Derek Minnema
Mark Thomas & Co
7300 Folsom Blvd., Suite 203
Sacramento, CA 95826

Subject: Aerially Deposited Lead Assessment
Silva Valley Parkway Interchange at US-50
EA 03-1E2901
El Dorado County, California

Dear Mr. Minnema,

Blackburn Consulting (BCI) has prepared this Aerially Deposited Lead (ADL) Assessment for the Silva Valley Parkway Interchange project in El Dorado County, California.

Thank you for including BCI on your team for this important project. Please call if you have questions or require additional information.

Sincerely,

BLACKBURN CONSULTING

A handwritten signature in black ink, appearing to read "David Buck".

David Buck, C.E.G.
Senior Project Manager

A handwritten signature in black ink, appearing to read "Jeff S. Patton".

Jeff S. Patton, P.E.
Principal Engineer

Aerially Deposited Lead Assessment
Silva Valley Parkway Interchange

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Geocon 2008 ADL Report – (on CD)

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Analytical Laboratory Reports – (on CD)

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INTRODUCTION

Blackburn Consulting (BCI) prepared this aerially deposited lead (ADL) assessment for the Silva Valley Parkway Interchange at US-50 in El Dorado County, California. The purpose of the assessment is to evaluate whether impacts due to ADL are sufficient to require additional testing and/or mitigation recommendations for construction.

El Dorado County will construct the project. However, because the proposed interchange improvements affect Caltrans-owned right-of-way (ROW), Caltrans requires an ADL investigation.

Project Description

El Dorado County proposes to construct a new Silva Valley Parkway Interchange on US 50 between El Dorado Hills Blvd/Latrobe Road Interchange and Bass Lake Road Interchange primarily east of the existing Clarksville Undercrossing at Silva Valley Parkway. The project extends from Post-Mile (PM) 1.06 to 2.90. Figures 1 and 2 show overviews of the project limits.

This report covers ADL testing of the eastbound and westbound shoulders of US 50 within the project limits.

BACKGROUND

Potential Lead Soil Impacts

US 50 through El Dorado County, extending east-west, is a divided freeway, constructed in 1965. Ongoing testing by Caltrans has indicated that ADL exists along the shoulders of pre-1987 constructed highways, freeways and other heavily traveled roads, due to emissions from vehicles powered by internal-combustion, leaded-gasoline fueled engines. Caltrans states that total lead concentrations in soils adjacent to these roads typically range from 50 to 3,000 milligrams per kilogram (mg/kg). At sites where the shoulder subgrade has not been disturbed, the presence of ADL is generally limited to the upper 24-inches of the unpaved shoulder and median areas.

Previous ADL Investigation

BCI was supplied with a copy of a site investigation report (Geocon Consultants, Inc. March 2008) which included ADL sampling of the US-50 median within the project limits. A copy of the report is included in Appendix A.

Current ADL Sampling Events

BCI performed two rounds of soil sampling for this ADL assessment. The first round was completed concurrent with our geotechnical boring program from July through September 2010. Results of the first round of sampling were reviewed in a meeting with Caltrans on December 2, 2010. Lead concentrations in samples from some areas of the project exceeded regulatory thresholds; therefore it was determined that additional soil sampling would be required to help

define the lateral and vertical extent of these areas (notes from the meeting are included in Appendix B). BCI prepared a workplan for additional sampling for Caltrans' review and approval and implemented additional sampling in November 2011 in accordance with the approved workplan. Approximate sample locations are shown on Figures 2A through 2E.

SCOPE

BCI completed the following tasks to prepare this assessment report:

- Prepared, revised and obtained Caltrans approval of our ADL sampling Workplans
- Coordinated with Underground Service Alert to locate underground utilities
- Obtained a Caltrans encroachment permit and implemented the required notification and traffic control measures during sample collection
- Collected 88 soil samples from 32 locations spaced approximately 300 to 500-feet apart along the north and south bound shoulders of US-50
- Submitted the soil samples to a California-certified analytical laboratory to perform analytical testing
- Reviewed analytical results, consulted with Caltrans, and prepared a workplan for an expanded phase of soil sampling and analytical testing to better define ADL distribution
- Collected 43 additional soil samples from 19 locations based on the Caltrans approved workplan. Four of the locations were situated in the immediate vicinity of previous sample ADL-28A to further characterize this area (see Figure 2E)
- Performed statistical analysis of the analytical data set
- Prepared this report

SAMPLING SUMMARY

Sample Collection

- Approximate sample locations are plotted on Figures 2A through 2E. GPS coordinates for each sample location are included in Appendix A.
- Depending upon soil/rock conditions, we collected up to 3 discrete samples from each location utilizing a drill rig with split spoon sampling equipment fitted with 2-inch diameter stainless steel liners or from a 3-inch diameter hand auger. Samples were obtained from 0 to 6-inches, 12 to 18-inches, and 24 to 30-inches below the ground surface (bgs). Sampling equipment was cleaned between each boring location by washing with an Alconox solution followed by rinsing with potable water and a second rinse using deionized water.
- Following retrieval, the soil samples were transferred into Ziploc resealable plastic bags and homogenized within the bag.
- The bags were labeled, placed in a cooled ice chest, and delivered to a California certified analytical laboratory under chain-of-custody documentation
- Borings were backfilled with excess cuttings. Wash and rinse water was discharged to the ground surface at the boring locations.

Soil Description

The soil profile encountered over the project alignment consists of silty fine sand with weathered rock fragments in areas of native soil. In fill areas, we encountered silty sand intermixed with large gravel to boulder size rock.

Sample Analyses and Results

2010 Sampling Event

BCI submitted 88 soil samples to Excelchem for total lead analysis, using EPA Test Method 6010B. Total lead results ranged from below the detection limit (1.0 mg/kg) to a high of 2,100 mg/kg. Three of the 88 sample results exceed the lead TTLC (1,000 mg/kg). These are samples ADL-16A (2,100 mg/kg), ADL-26A(1,510 mg/kg), and ADL-28A (1,540 mg/kg). Twenty-five samples have total lead in excess of 50 mg/kg. The 50 mg/kg threshold indicates a sample having the potential to exceed the Soluble Threshold Limit Concentration (STLC) of 5 milligrams per liter (mg/l).¹ Consequently, all 25 of the samples with total lead exceeding 50 mg/kg were submitted for soluble lead extraction using the Waste Extraction Test (WET) procedure. The extract was analyzed by EPA Test Method 6010B. In addition, the three samples with total lead exceeding the Total Threshold Limit Concentration (TTLC)² of 1,000 mg/kg were further analyzed using the Toxicity Characteristic Leaching Potential (TCLP)³ procedure.

The WET results range from below the detection limit of 0.2 mg/l to 59.8 mg/l. Eleven of the 25 WET samples exceeded the lead STLC of 5.0 mg/l. One of the 3 TCLP samples (ADL-28A; 7.4 mg/l) exceeded the TCLP federal hazardous waste regulatory threshold of 5.0 mg/l.

Upon review of the WET and TCLP results, BCI selected 19 samples for further solubility analysis using a variation on the WET procedure which uses distilled water as the extractant (WET-DI). These additional solubility tests were required based on the initial soluble lead results to further determine soil management parameters. WET-DI results ranged from below the detection limit of 0.01 mg/l to 0.109 mg/l. These results are well below the regulatory threshold value of 1.5 mg/l for WET-DI results (see Caltrans “Aerially Deposited Lead Soil Management” chart shown in Table 3).

2011 Sampling Event

BCI submitted 43 soil samples to Sunstar Labs for total lead analysis. Total lead results range from below the detection limit (3.0 mg/kg) to a high of 480 mg/kg (ADL-36A). Fourteen of these samples have total lead in excess of 50 mg/kg.

¹ The STLC is a California regulatory level defining hazardous waste based on solubility of a sample constituent. Solubility is determined using a test known as the WET (Waste Extraction Test)

² The TTLC is a California regulatory level defining hazardous waste based on total concentration of a sample constituent.

³ The TCLP is the solubility test procedure used to define a Federal hazardous waste.

All samples having total lead concentrations exceeding 50 mg/kg were submitted for soluble lead extraction using the WET procedure. The WET results range from below the 0.1 mg/l detection limit to 2.6 mg/l (ADL-36A).

Sample locations ADL-43, ADL-44, ADL-45, and ADL-46 were situated in the immediate vicinity (on or within 10-feet laterally) of previous sample location ADL-28. The 0-6-inches sample (ADL-28A) obtained previously from this location had relatively high total lead (1,540 mg/kg) and TCLP result of 7.4 mg/l. Results of the additional sampling indicate significantly lower total lead, ranging from 90 to 360 mg/kg for the 0 to 6-inches soil horizon. Soluble lead (WET) test results for these samples ranged from 0.34 to 1.9 mg/l. TCLP testing was not required due to the relatively low total lead results. Results of the additional testing confirm that the elevated total and soluble lead present in sample ADL-28A is of limited lateral and vertical extent.

General

In addition to lead testing, soil pH testing was performed on randomly selected samples using EPA Method 9045. Results of pH testing for 14 randomly selected soil samples ranged from 6.06 to 8.1 with an average pH of 6.9.

The analytical laboratories performed Quality Assurance/Quality Control (QA/QC) procedures for each method of analysis. Laboratory QA/QC procedures include: 1) Method Blanks, 2) Duplicate Samples, and 3) Spiked Samples.

Analytical results are summarized in Appendix C.

Copies of the laboratory reports and chain-of-custody documents are included in Appendix D.

STATISTICAL ANALYSIS

BCI performed statistical analysis of the ADL sample data using ProUCL 4.0 software to calculate the sample mean (average) as well the 95% Upper Confidence Limit (UCL) on the mean. UCLs were calculated using standard bootstrap methodology for nonparametric data distribution.

Total Lead

We analyzed groups of data based on sample depth as well as the sample population as a whole. Table 1 summarizes the total lead results for soil samples from 0 to 6-inches bgs, 12 to 18-inches bgs, and 24 to 30-inches bgs. The 0 to 30-inches bgs interval represents the entire sample population (all soil depths).

Based on the mean and UCL values shown in Table 1, the majority of lead impact is located in the 0 to 6-inches bgs interval, with a significant decline at the 12 to 18-inches bgs interval. Total lead concentrations continue to decline in the deeper (24 to 30-inches bgs) interval. The 95% UCL for total lead is well below the TTLC of 1000 mg/kg for all intervals.

TABLE 1

Total Lead Statistical Summary by Soil Depth Interval				
Depth Interval (inches bgs)	Data Points	Total Lead Results(mg/kg)		
		Range	Mean	95% UCL
0 – 6	51	<1.0 to 2100	201	294
12– 18	48	<1.0 to 650	67	101
24 – 30	32	<1.0 to 140	21	32
0 – 18	99	<1.0 to 2100	136	187
0 – 30	131	<1.0 to 2100	106	146

Soluble Lead

Samples submitted for WET testing had total lead concentrations greater than 50 mg/kg (10 times the STLC of 5.0 mg/l). All but three of the WET lead tests were derived from the 0 to 6-inches bgs and 12 to 18-inches bgs intervals. The WET results range from below the detection limit of 0.1 mg/l to 59.8 mg/l with an average of 6.1 mg/l. Because WET tests were performed only on samples exceeding the 50 mg/kg total lead threshold, this average is expected to be significantly biased toward higher concentrations than would be achieved if all soil samples were tested for soluble lead. An estimate of the expected overall WET lead solubility is predicted statistically in the next section.

TCLP results ranged from 1.9 mg/l (ADL-26A) to 7.4 mg/l (ADL-28A), with an average value of 3.7 mg/l. We did not perform UCL statistical analysis of the TCLP data due to the small sample population.

We did not perform UCL statistical analysis of the DI WET results because the levels were significantly below thresholds that would have a bearing on soil management decisions.

Predicted WET Lead Solubility

Lead solubility (WET) testing was limited to samples with total lead exceeding 50 mg/kg. This tends to introduce an upward bias in solubility results. We used linear regression analysis to attempt to predict the WET solubility of unbiased sample populations. We used Excel software to compare the total lead and corresponding WET lead results to perform the regression analysis. A correlation coefficient (r) for the data set is calculated to be 0.83. A value of “r” greater than 0.8 indicates an acceptable correlation exists between the total and WET data for use in the regression analysis. The regression equation is determined to be:

$$y = 0.020 (x)$$

Where:

- y = Soluble (WET) lead concentrations in mg/l
- x = Total Lead concentrations in mg/kg

We used the 95% UCL values for total lead in the regression formula to calculate the predicted WET solubility for various sample groups. The following Table 2 summarizes the calculation of predicted WET solubility results for various soil depth intervals over the entire length of the ADL assessment:

TABLE 2

Predicted WET Lead Solubility by Soil Depth Interval			
Depth Interval (inches bgs)	Total Lead Results (mg/kg)		Predicted WET Solubility(mg/l)
	Mean	95% UCL	95% UCL
0 – 6	201	294	5.9
12 – 18	67	101	2.0
24 – 30	21	32	0.64
0 – 18	136	187	3.7
0 – 30	106	146	2.9

Applicability of the information from the various table categories above will depend on subgrade preparation requirements for the project.

CONCLUSIONS AND RECOMMENDATIONS

Waste Disposal/Soil Reuse

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, subsection 66261.24. Federal criteria to classify a waste as “Resource Conservation and Recovery Act (RCRA) Hazardous Waste” are contained in Chapter 40 of the Code of Federal Regulations (40 CFR), Section 261.

For a waste containing lead, the waste is classified as California Hazardous when: 1) the total lead content exceeds the TTLC (1000 mg/kg); or 2) the soluble lead content exceeds the STL (5.0 mg/l) based on the WET analysis. The RCRA Hazardous Waste threshold for lead is 5.0 mg/l based on the TCLP test procedure.

Management of lead-impacted soil on projects within Caltrans Right of Way (ROW) is governed by the statewide variance for reuse of lead-contaminated soil issued by the State Department of Toxic Substances Control (DTSC). The variance is included in Appendix E. A summary of Caltrans’ soil management and variance criteria is included in Table 3.

Based on our review and analysis of the lead testing data and the results of the statistical analyses, we conclude that all soil excavated within the project boundaries may either be reused without restriction within Caltrans ROW (Lead Compliance Plan required) or managed within Caltrans ROW under the provisions of the DTSC variance.

The need for application of the variance depends on how soil is managed during construction. Assuming that a minimum 0 to 18-inches bgs soil profile will be managed as a unit (not

segregated by depth), the site soil can be classified as Soil Type X (Caltrans-defined soil type; see Table 3), the variance would not apply and the soil could be used without restrictions within the ROW:

- Soil Type X – “Non –hazardous Waste. Notify and require Lead Compliance Plan for worker Safety.”

However, if construction segregates soil, material generated from the upper (0 to 6-inches) soil horizon and managed independently would be classified as follows and would require invoking the DTSC variance:

- Soil Type Y1 – “Hazardous Waste. Variance applies - cover with minimum of 1 foot of clean soil.” This applies to project soil with 95% UCL for WET lead > 5.0 mg/l. This designation is expected to apply only to the 0 to 6-inch soil horizon if managed as an independent unit. Invoking the DTSC variance would require special figures and compliance notes to be included in project engineering plans.

If off-site disposal of excess soil is required for the project, there is an additional soil type from Table 3 which would need to be considered:

- Soil Type Z2 – “Hazardous Waste – Surplus. Dispose at Class 1 disposal site.” This applies to surplus project soil with 95% UCL for WET lead > 5.0 mg/l. This designation is expected to apply only to the 0 to 6-inch soil horizon if managed as an independent unit and disposed off-site.

Any excess soil should be disposed as specified to meet landfill-acceptance criteria specific to lead-impacted soil. Prior to transport to the facility, the contractor should consult with the landfill operator to determine specific waste acceptance and testing criteria. We recommend that the Contractor conduct additional testing of stockpiled soil to determine final disposal requirements. We anticipate that, after additional soil testing, the excess materials may be disposed at either a Class 1 Hazardous Waste or a Class 2 Designated Waste landfill.

The project soil pH averages 6.9 (essentially neutral) and ranges from slightly acidic to slightly basic, conditions that do not enhance lead leaching potential. The pH conditions do not impose any special soil management requirements.

TABLE 3

AERIALY DEPOSITED LEAD SOIL MANAGEMENT			
Soluble Lead (mg/l)	Total Lead (mg/kg)	Soil Type	Handling
CALIFORNIA TESTING			
STLC (WET) < 5.0	TTLc < 1000	X	Non-hazardous Waste - Notify and require Lead Compliance Plan for worker safety.
	1000 — 1411 and DI WET < 1.5 mg/l	Y1	Hazardous Waste, Variance applies - cover with minimum 1 foot of clean soil.*
	1411 — 3397 and DI WET < 150 mg/l	Y2	Hazardous Waste, Variance applies - cover with pavement structure. *
	1000 — 3397 but Surplus	Z2	Hazardous Waste - Surplus. Dispose at Class 1 disposal site.
	> 3397 or 1000 — 3397 & DI WET > 150 mg/l	Z2	Hazardous Waste - not reusable under Variance. Dispose at Class 1 disposal site.
STLC (WET) > 5.0	TTLc < 1411 and DI WET < 1.5 mg/l	Y1	Hazardous Waste, Variance applies - cover with minimum of 1 foot of clean soil.*
	1411 — 3397 and DI WET < 150 mg/l	Y2	Hazardous Waste, Variance applies - cover with pavement structure.*
	< 3397 and DI WET < 150 mg/l but Surplus	Z2	Hazardous Waste - Surplus. Dispose at Class I disposal site.
	> 3397 or DI WET > 150 mg/l	Z2	Hazardous Waste - not reusable under Variance. Dispose at Class 1 disposal site.
FEDERAL TESTING			
TCLP > 5.0 mg/l	N/A	Z3	RCRA Hazardous Waste - Dispose at Class 1 disposal site as a RCRA waste regardless of TTLc and STLC results.

*Note: For hazardous waste levels of lead – if pH is less than 5.5 soil must be placed under a pavement structure. If pH is less than 5.0 variance can not be used and the soil must be disposed as Z-2 material.

Risk to Human Health

Based on the current and proposed land use for the project and surrounding areas, it is appropriate to compare the total lead values to the California Human Health Screening Levels (CHHSL) for lead. The total lead CHHSL for a commercial/industrial exposure scenario is 320 mg/kg. Total lead concentrations above the CHHSL do not automatically trigger a response action or suggest that a significant risk to human health exists. If the CHHSL is exceeded, it may be appropriate to evaluate potential risks posed by site contaminants.

Eight of the total 131 ADL samples exceed the commercial/industrial CHHSL for lead. However the average values and 95% UCLs for the various soil depth intervals are all significantly less than the CHHSL for commercial/industrial exposure scenario. The tested area is subject to excavation and reuse as embankment material within the Caltrans ROW in accordance with the DTSC variance. Based on the results of our ADL assessment, we conclude that lead-impacted soil within the median area does not pose a significant health risk to site workers.

Health and Safety Requirements

We recommend that the Contractor conduct all grading operations with the full awareness that lead-impacted soil is present within the surface and subgrade of the project. We recommend that the County provide the Contractor with a copy of our report.

We also recommend that the grading Contractor conduct his fieldwork in compliance with Title 8 CCR, Section 5192, which includes an appropriate project-specific worker Health & Safety Plan (HASP) and a project-specific Hazardous Waste Operations and Emergency Response Plan.

LIMITATIONS

BCI performed these services in accordance with generally accepted environmental engineering principles and practices currently used in Northern California. We do not warranty our services.

Our scope does not include evaluation of other hazardous materials or a determination of their potential presence on the site.

This report is not a comprehensive site characterization and shall not be so construed. The findings presented in this report are predicated on the results of limited sampling and laboratory analyses. In addition, the obtained information is not intended to address potential impacts related to sources other than those specified herein. Therefore, we deem the report conclusive only with respect to the information presented.

Figures

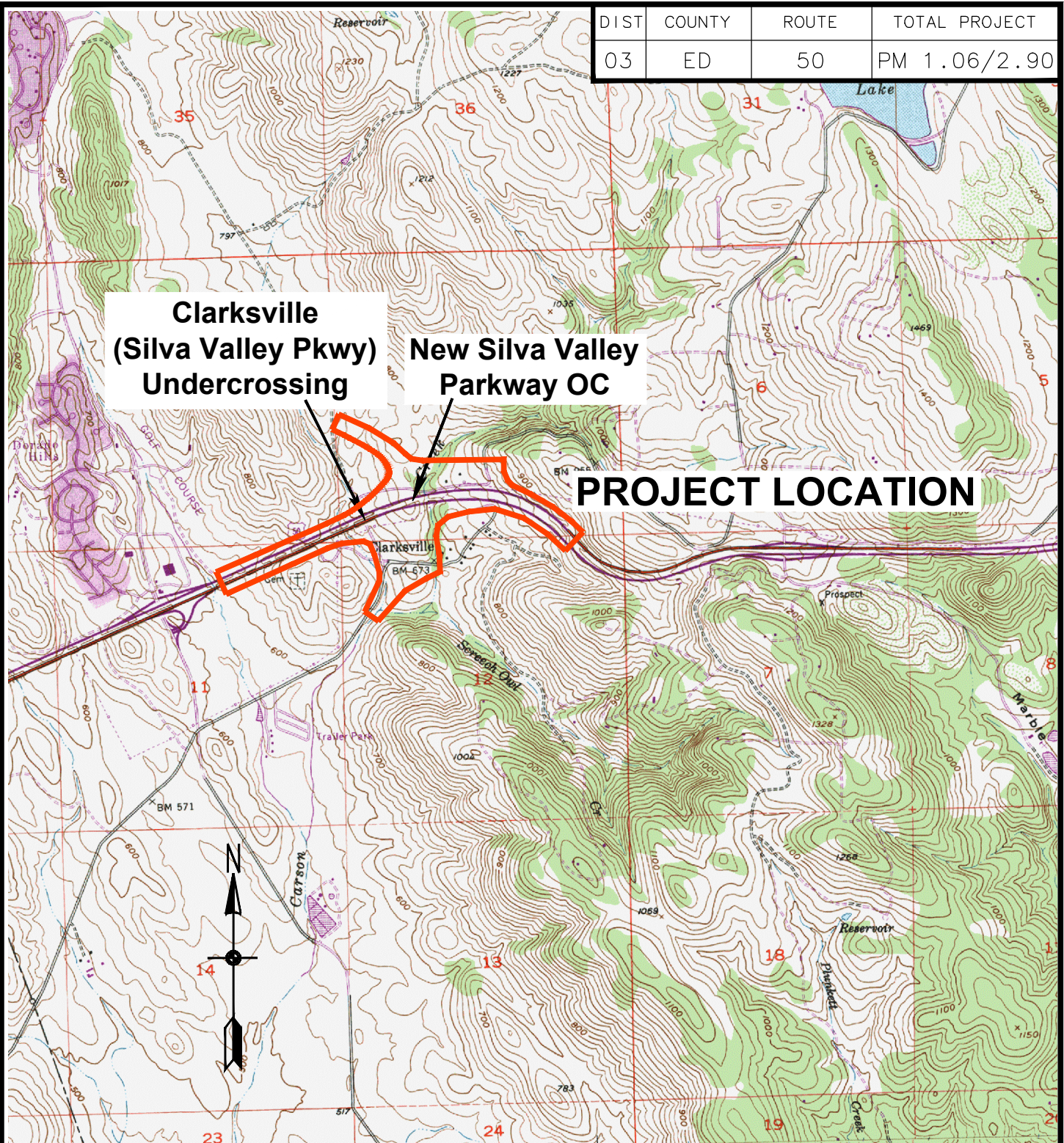
Figure 1 – Vicinity Map

Figure 2 – Project Map

Figure 2A through 2E – ADL Sampling Location Map



DIST	COUNTY	ROUTE	TOTAL PROJECT
03	ED	50	PM 1.06/2.90



**Clarksville
(Silva Valley Pkwy)
Undercrossing**

**New Silva Valley
Parkway OC**

PROJECT LOCATION

Source: MAPTECH Terrain Navigator Pro, v. 7.01, USGS
topographic map, 7.5 minute quadrangle, 1:24000, Clarksville
1953 (revised 1980).

SCALE: 1"=0.5 Miles



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VICINITY MAP
Silva Valley Parkway Interchange
EA 03-1E290
El Dorado County, California

File No. 556.3

February 2012

Figure 1

DIST	COUNTY	ROUTE	TOTAL PROJECT
03	ED	50	PM 1.06/2.90



1/30/2012 556.3 Silva Valley Parkway ADL Sampling Locations Figure 2.dwg

Source: US 50/Silva Valley Pkwy Interchange
Geometric Approval Drawing, dated 5-24-10 and
1-30-12 by Mark Thomas & Company, Inc.



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PROJECT MAP - ADL EVALUATION
SILVA VALLEY PARKWAY INTERCHANGE
El Dorado County, California

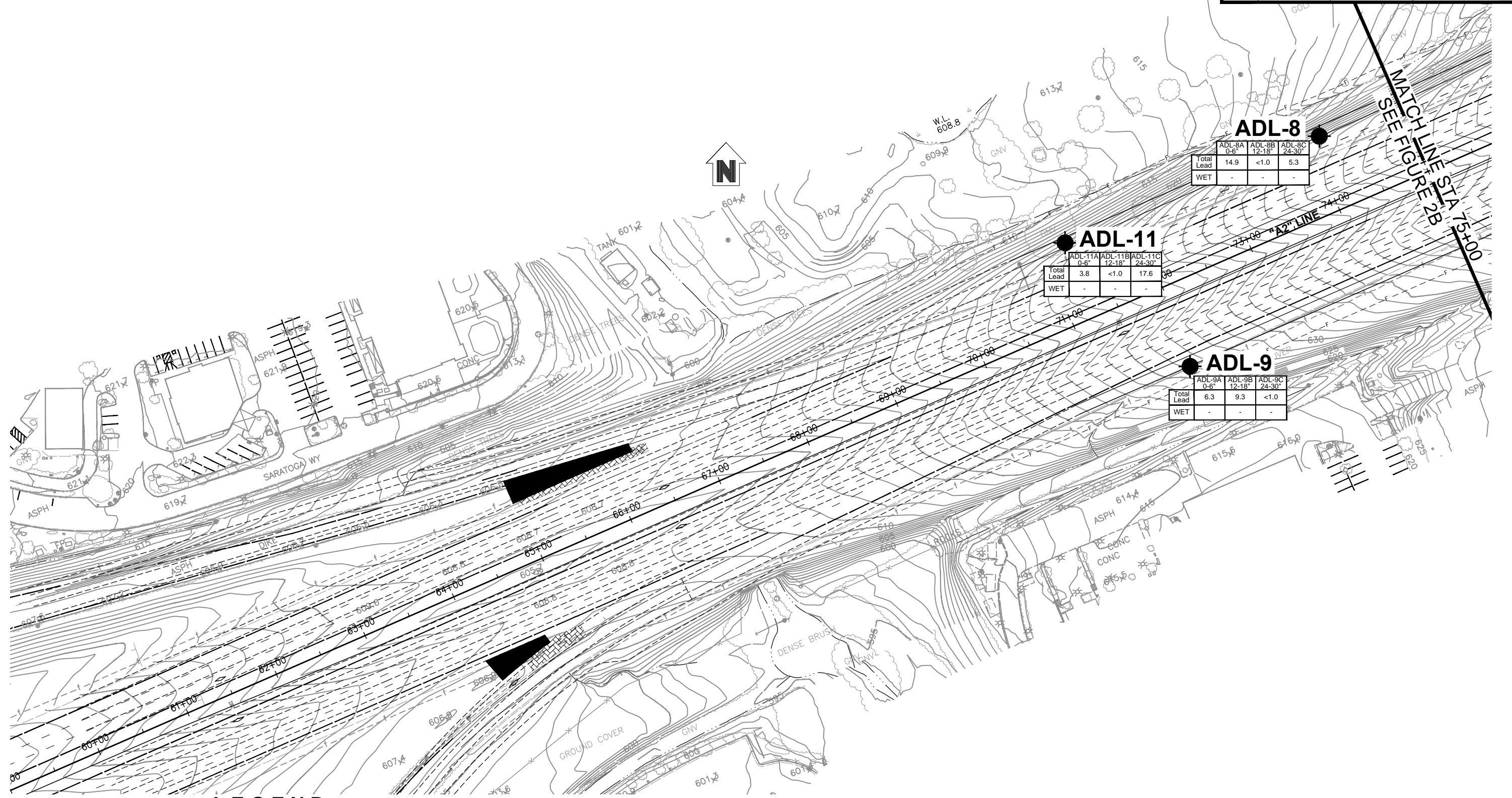
SCALE: 1"=800'

File No. 556.3

February 2012

Figure 2

DIST	COUNTY	ROUTE	TOTAL PROJECT
03	ED	50	PM 1.06/2.90



ADL-8

	ADL-8A 0-6"	ADL-8B 12-18"	ADL-8C 24-30"
Total Lead	14.9	<1.0	5.3
WET	-	-	-

ADL-11

	ADL-11A 0-6"	ADL-11B 12-18"	ADL-11C 24-30"
Total Lead	3.8	<1.0	17.6
WET	-	-	-

ADL-9

	ADL-9A 0-6"	ADL-9B 12-18"	ADL-9C 24-30"
Total Lead	6.3	9.3	<1.0
WET	-	-	-

LEGEND

- ADL-1** Approximate ADL Sample Location (2010)
- ADL-33** Approximate ADL Sample Location (Nov. 2011)

	ADL-50A 0-6"	ADL-50B 12-18"	ADL-50C 24-30"
Total Lead	160	7.7	NS
WET	1.5	-	-

Total Lead results in milligrams per kilogram (mg/kg)
WET results in milligrams per liter (mg/L)
NS = No Sample collected

Source: US 50/Silva Valley Pkwy Interchange Geometric Approval
Drawing, dated 5-24-10 and 1-30-12 by Mark Thomas & Company, Inc.

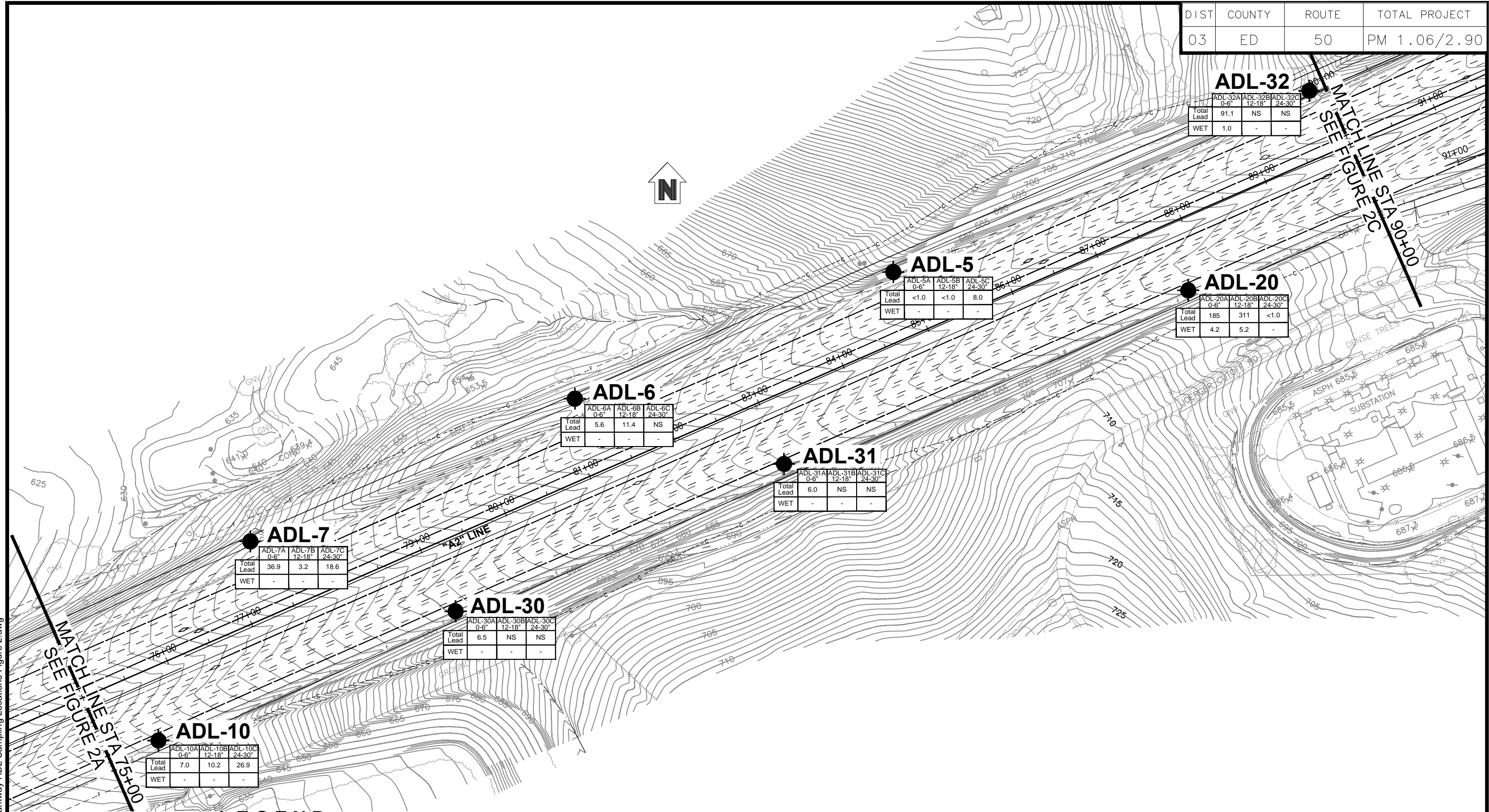
SCALE: 1"=100'

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ADL SAMPLING LOCATION MAP
SILVA VALLEY PARKWAY INTERCHANGE
"A2" LINE, STA 59+00 to 75+00
El Dorado County, California

File No. 556.3
February 2012
Figure 2A

DIST	COUNTY	ROUTE	TOTAL PROJECT
03	ED	50	PM 1.06/2.90



LEGEND

- ADL-1** Approximate ADL Sample Location (2010)
- ADL-33** Approximate ADL Sample Location (Nov. 2011)

	ADL-50A 0-6"	ADL-50B 12-18"	ADL-50C 24-30"
Total Lead	160	7.7	NS
WET	1.5	-	-

Total Lead results in milligrams per kilogram (mg/kg)
WET results in milligrams per liter (mg/L)
NS = No Sample collected

Source: US 50/Silva Valley Pkwy Interchange Geometric Approval
Drawing, dated 5-24-10 and 1-30-12 by Mark Thomas & Company, Inc.

SCALE: 1"=100'

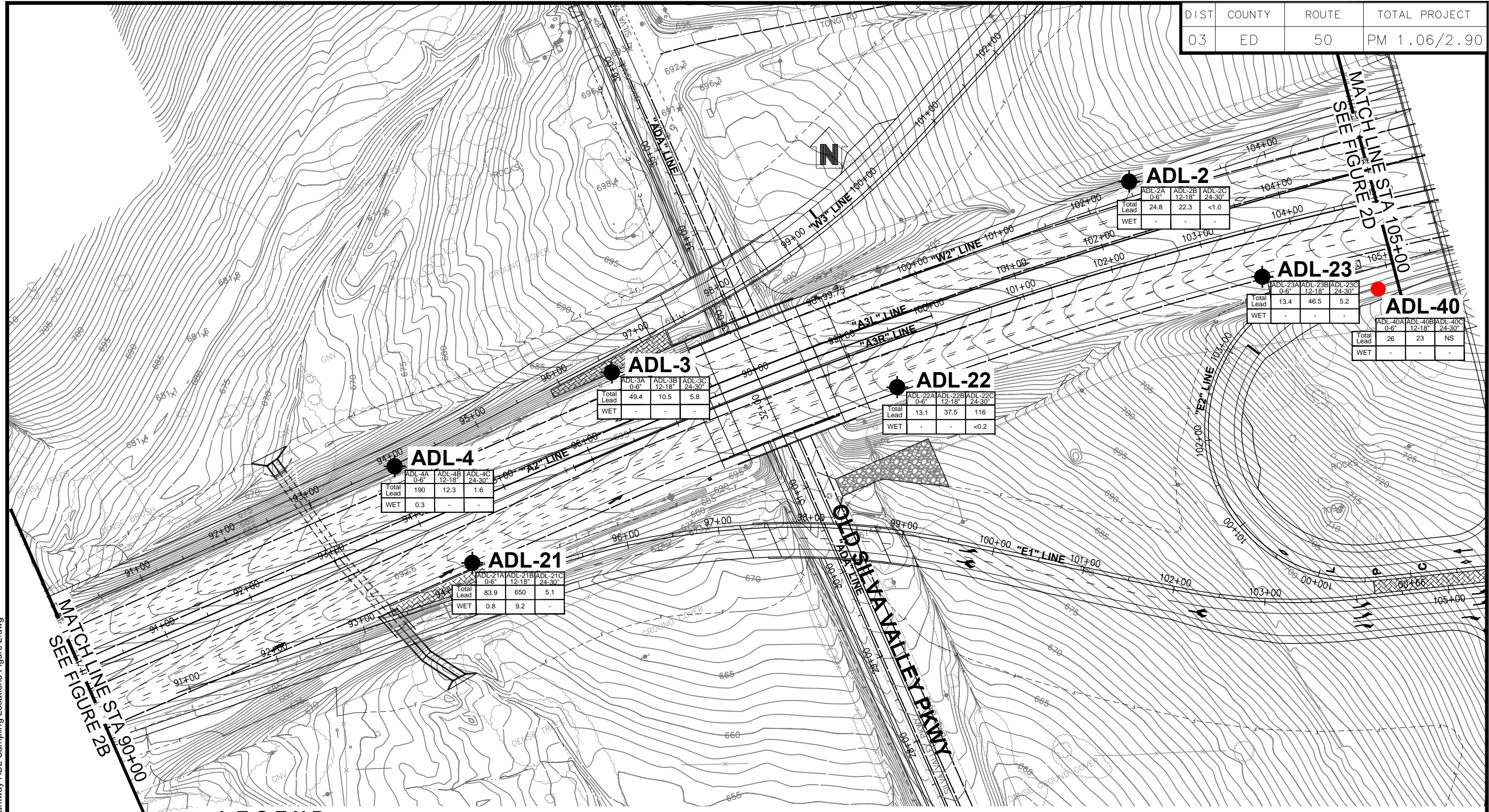
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ADL SAMPLING LOCATION MAP
SILVA VALLEY PARKWAY INTERCHANGE
"A2" LINE, STA 75+00 to 90+00
El Dorado County, California

File No. 556.3
February 2012
Figure 2B

1/30/2012 556.3 Silva Valley Parkway ADL Sampling Locations Figure 2.dwg

DIST	COUNTY	ROUTE	TOTAL PROJECT
03	ED	50	PM 1.06/2.90



1/30/2012, 556.3 Silva Valley Parkway ADL Sampling Locations Figure 2.dwg

LEGEND

- ADL-1** Approximate ADL Sample Location (2010)
- ADL-33** Approximate ADL Sample Location (Nov. 2011)

	ADL-50A 0-6"	ADL-50B 12-18"	ADL-50C 24-30"
Total Lead	160	7.7	NS
WET	1.5	-	-

Total Lead results in milligrams per kilogram (mg/kg)
WET results in milligrams per liter (mg/L)
NS = No Sample collected

Source: US 50/Silva Valley Pkwy Interchange Geometric Approval
Drawing, dated 5-24-10 and 1-30-12 by Mark Thomas & Company, Inc.

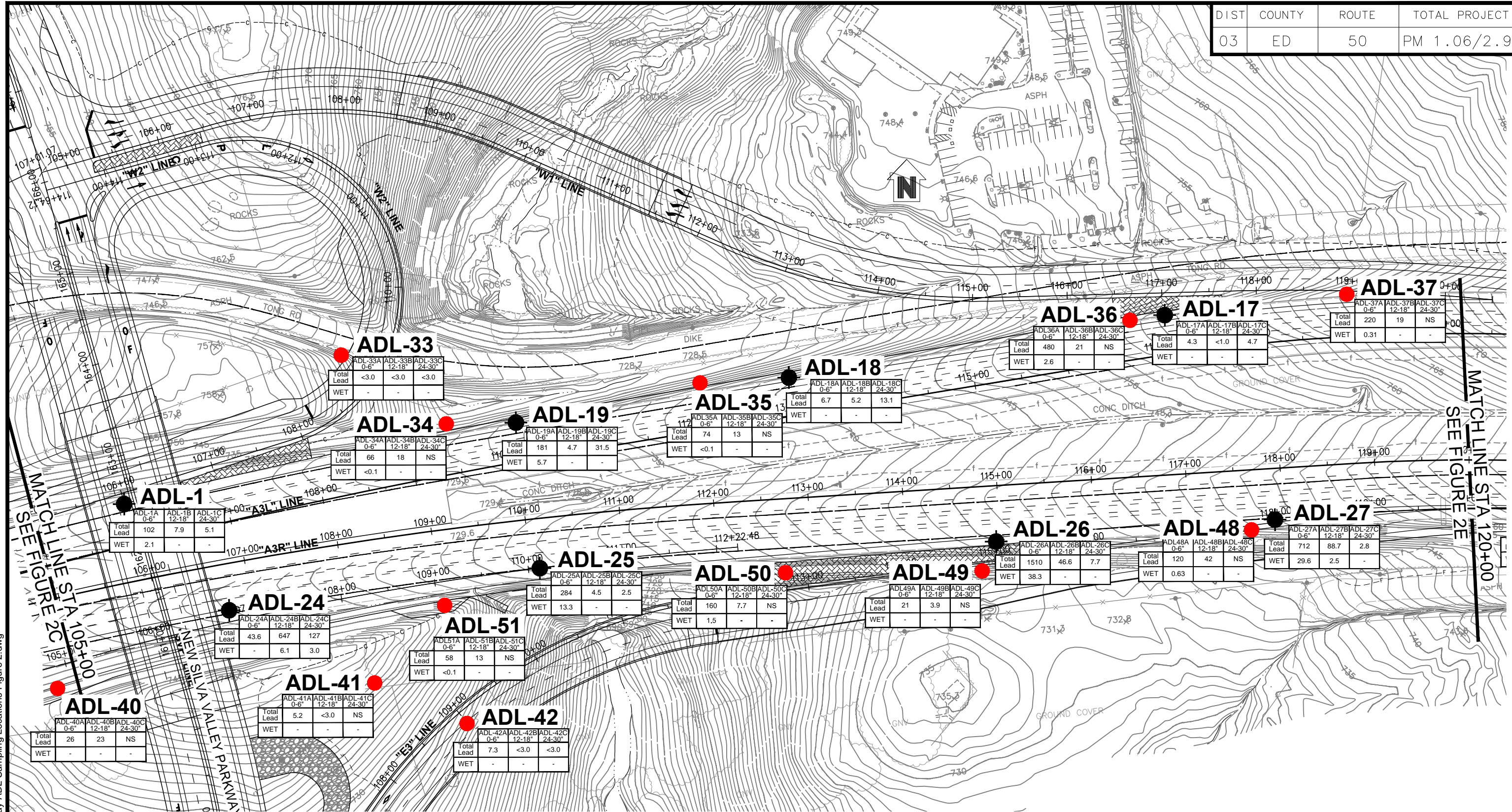
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ADL SAMPLING LOCATION MAP
SILVA VALLEY PARKWAY INTERCHANGE
"A2", "A2L", "A2R" LINES, STA 90+00 to 105+00
El Dorado County, California

SCALE: 1"=100'

File No. 556.3
February 2012
Figure 2C

DIST	COUNTY	ROUTE	TOTAL PROJECT
03	ED	50	PM 1.06/2.90



LEGEND

- ADL-1** ● Approximate ADL Sample Location (2010)
 - ADL-33** ● Approximate ADL Sample Location (Nov. 2011)
- | | | | |
|------------|-----|-----|----|
| Total Lead | 160 | 7.7 | NS |
| WET | 1.5 | - | - |
- Total Lead results in milligrams per kilogram (mg/kg)
WET results in milligrams per liter (mg/L)
NS = No Sample collected

Source: US 50/Silva Valley Pkwy Interchange Geometric Approval
Drawing, dated 5-24-10 and 1-30-12 by Mark Thomas & Company, Inc.

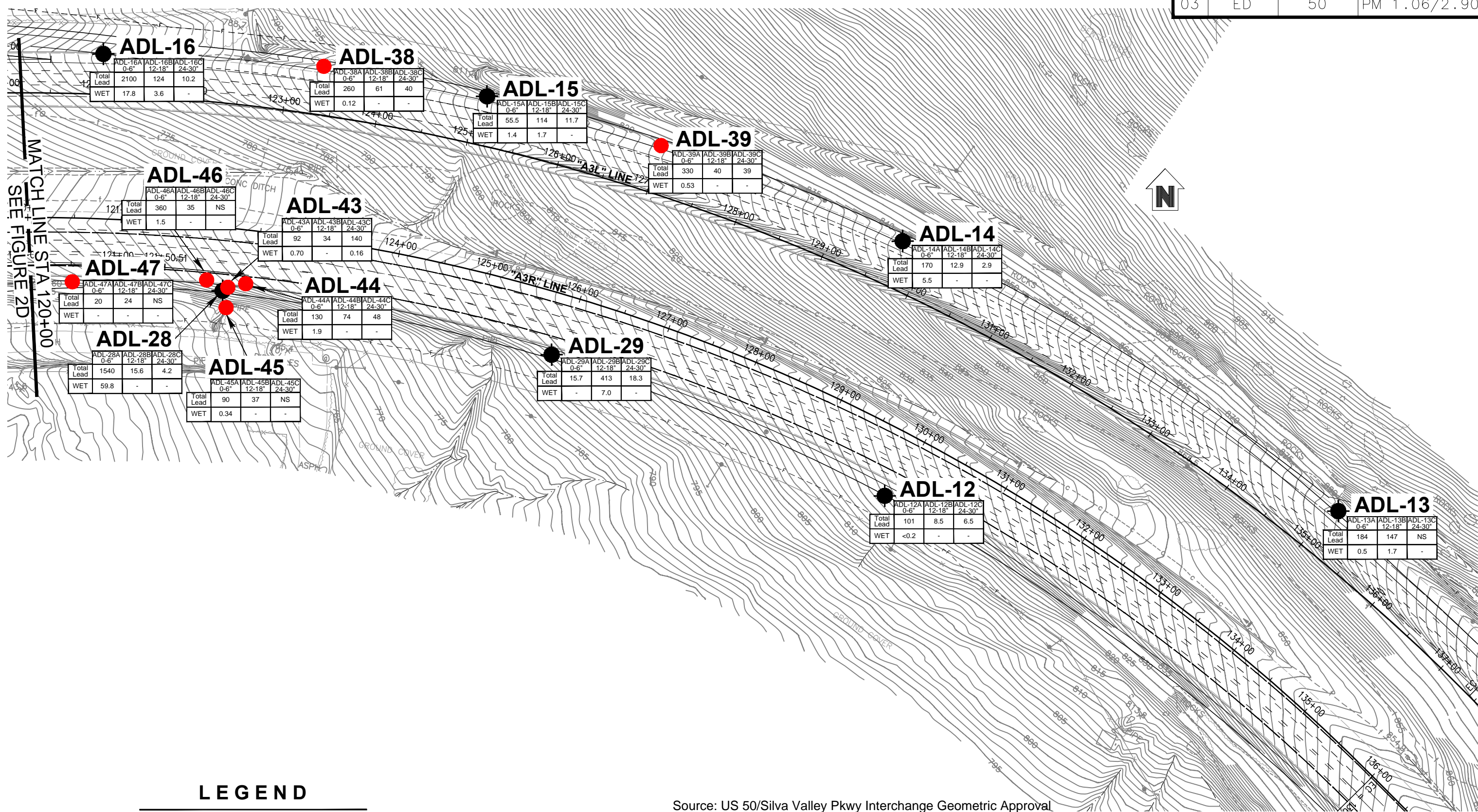
SCALE: 1"=100'

11521 Blocker Drive, Ste 110
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ADL SAMPLING LOCATION MAP
SILVA VALLEY PARKWAY INTERCHANGE
"A2L", "A2R" LINES, STA 105+00 to 120+00
El Dorado County, California

File No. 556.3
February 2012
Figure 2D

1/30/2012 556.3 Silva Valley Parkway ADL Sampling Locations Figure 2.dwg



MATCH LINE STA 120+00 SEE FIGURE 2D

LEGEND

- ADL-1** Approximate ADL Sample Location (2010)
- ADL-33** Approximate ADL Sample Location (Nov. 2011)

	ADL-50A 0-6"	ADL-50B 12-18"	ADL-50C 24-30"
Total Lead	160	7.7	NS
WET	1.5	-	-

Total Lead results in milligrams per kilogram (mg/kg)
WET results in milligrams per liter (mg/L)
NS = No Sample collected

Source: US 50/Silva Valley Pkwy Interchange Geometric Approval Drawing, dated 5-24-10 and 1-30-12 by Mark Thomas & Company, Inc.

SCALE: 1"=100'

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ADL SAMPLING LOCATION MAP
SILVA VALLEY PARKWAY INTERCHANGE
"A2" LINE, STA 120+00 to 137+00
El Dorado County, California

File No. 556.3
February 2012
Figure 2E

Appendix A

Geocon 2008 ADL Report – (on CD)





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

**Highway 50 Site Investigation
Post Mile 0.16 to 2.90
El Dorado County, California**

PREPARED FOR:

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



PREPARED BY:

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



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

MARCH 2008



Project No. S9300-06-22
March 10, 2008

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

Subject: HIGHWAY 50 SITE INVESTIGATION, POST MILE 0.16/2.90
EL DORADO COUNTY, CALIFORNIA
CONTRACT NO. 03A1368
TASK ORDER NO. 22, EA 03-3A7111
AERIALY DEPOSITED LEAD, NATURALLY OCCURRING ASBESTOS, AND
LEAD-CONTAINING PAINT SITE INVESTIGATION AND BRIDGE SURVEY
REPORT

Dear Mr. Chadha:

In accordance with California Department of Transportation (Caltrans) Contract No. 03A1368, Task Order No. 22, and Expenditure Authorization 03-3A7111, we have performed environmental engineering services at the project site. The Site consists of the Highway 50 median in El Dorado County, California, from Post Mile 0.16 to 2.90. The accompanying report summarizes the services performed including a geological reconnaissance, the excavation of 37 direct-push borings and three hand-auger borings for the collection of samples for aerially deposited lead (ADL) and naturally occurring asbestos (NOA) analyses; the collection of two traffic stripe paint chip samples for lead and chromium analysis; and surveys of bridges for asbestos-containing materials and lead-based paint.

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

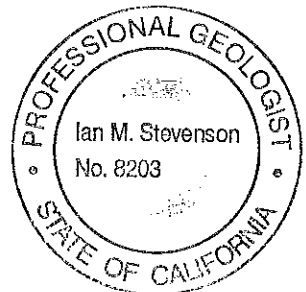
Please contact us if you have any questions concerning the contents of this report or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.

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

Ian M. Stevenson, PG
Project Geologist



IMS:DWB:jaj

(5 + 2CD) Addressee

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

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

1.0 INTRODUCTION

This Aerially Deposited Lead (ADL), Naturally Occurring Asbestos (NOA), and Lead Containing Paint (LCP) Site Investigation and Bridge Survey Report was prepared under California Department of Transportation (Caltrans) Contract No. 03A1368, Task Order (TO) No. 22, and Expenditure Authorization (EA) 03-3A7111.

1.1 Project Description and Proposed Improvements

The project area consists of the center median along Highway 50 (ED-50) (the Site) from approximately 0.16 miles east of the Sacramento/El Dorado County line to approximately 0.45 miles west of the Bass Lake Road overcrossing, approximate Post Mile (PM) 0.16 to 2.90, in El Dorado County, California. The approximate project location is depicted on the attached Vicinity Map, Figure 1. The Site and major roadway features are depicted on the Site Plans, Figures 2-1 and 2-2. Proposed improvements include the extension of the high occupancy vehicle (HOV) lanes east from the El Dorado Hills Boulevard/Latrobe Road undercrossing to near Bass Lake Road.

1.2 General Objectives

The construction of an HOV lane and associated bridge and shoulder improvements along ED-50 will require the disturbance of soil, rock outcrops, and existing pavement at the Site. The purpose of the scope of services outlined in TO No. 22 was to evaluate the Site for potential impacts due to ADL from motor vehicle exhaust in the surface and near surface soils, evaluate the Site for the presence of naturally occurring asbestos derived from serpentine and ultramafic rock within and adjacent to the project boundaries, and evaluate the yellow median traffic stripe paint for lead and chromium content. The investigative results will be used by Caltrans to inform the construction contractor if lead or NOA impacted soils, or lead or chromium containing traffic stripe paint are present within the project boundaries for health, safety and disposal purposes. An asbestos-containing materials (ACM) investigation was previously conducted under Caltrans Contract No. 43A0012 and TO 03-3A7100-CR at the Latrobe Road and Clarksville Road under crossings. The February 2000, *Highway 50 Bridge Sites, Asbestos and Lead-Based Paint Survey Report*, is presented in Appendix A.

2.0 BACKGROUND

The Site is comprised of the existing right-of-way along approximately 2.74 miles of ED-50. Caltrans has proposed to construct an HOV lane from approximately the El Dorado Hills Boulevard/Latrobe Road undercrossing, to PM 2.90, west of the Bass Lake Road undercrossing. Caltrans requested assessment of the Site to provide data regarding the presence of ADL, asbestos, and LCP within the proposed roadway improvement areas.

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

2.1 Potential Lead Soil Impacts

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

For waste containing metals, the waste is classified as California hazardous when: 1) the total metal content exceeds the respective Total Threshold Limit Concentration (TTLC); or 2) the soluble metal content exceeds the respective Soluble Threshold Limit Concentration (STLC) based on the standard Waste Extraction Test (WET). A waste may have the potential of exceeding the STLC when the waste’s total metal content is greater than or equal to ten times the respective STLC value, since the WET uses a 1:10 dilution ratio. Hence, when a total metal is detected at a concentration greater than or equal to ten times the respective STLC, and assuming that 100 percent of the total metals are soluble, soluble metal analysis is required. However, if sufficient data is available to perform a statistical evaluation of the probability that the metals content of a waste material will not exceed ten times the STLC, WET analysis is not required on the individual samples used to characterize that waste material. A material is classified as RCRA hazardous, or Federal hazardous, when the soluble metal content exceeds the Federal regulatory level based on the Toxicity Characteristic Leaching Procedure.

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

The Department of Toxic Substances Control (DTSC) regulates and interprets hazardous waste laws in California. DTSC generally considers excavated or transported materials that exhibit “hazardous waste” characteristics to be a “waste” requiring proper management, treatment and disposal. Soil that contains lead above hazardous waste thresholds and is left in place would not be necessarily classified by DTSC as a “waste.” The DTSC has provided site-specific determinations that “movement of wastes within an area of contamination does not constitute “land disposal” and, thus, does not trigger hazardous waste disposal requirements.” Therefore, lead-impacted soil that is scarified in-place, moisture-conditioned and recompactd during roadway improvement activities might not be

considered a “waste.” DTSC should be consulted to confirm waste classification. It is noted that in addition to DTSC regulations, health and safety requirements and other local agency requirements may also apply to the handling and disposal of lead-impacted soil.

2.2 Naturally Occurring Asbestos

The California Air Resources Board (CARB) has mitigation practices for construction, grading, quarrying, and surface mining operations that may disturb natural occurrences of asbestos outlined in Title 17 CCR, Section 93105. NOA potentially poses a health hazard when it becomes an airborne particulate. The roadway improvement activities proposed on the Site could disturb NOA-containing rock and soil, thereby potentially creating an airborne asbestos hazard. Mitigation practices can reduce the risk of exposure to asbestos-containing dust. The primary mitigation practice used for controlling exposure to potentially asbestos-containing dust is the implementation of engineering controls including wetting the materials being disturbed. If engineering controls do not adequately control exposure to potentially asbestos-containing dust, the use of personal protective equipment including wearing an approved high efficiency particulate air filter equipped respirator is required during construction activities. Asbestos dust control methods similar to those in Title 17 CCR, Section 93105 are outlined in Title 17 CCR, Section 93106 for airborne asbestos in road surfacing applications. Using surfacing material with 0.25% or more asbestos material is not permitted and wetting of the material or the application of a surface sealant is recommended to minimize disturbance of the asbestos material. Onsite reuse or disposal of NOA-containing materials is allowed by 17 CCR 93106 and 17 CCR 93105 if it is buried under at least 0.25 feet (ft) of material that contains less than 0.25% NOA.

2.3 Lead-Containing Paint

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

3.0 SCOPE OF SERVICES

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

3.1 Pre-field Activities

- Conducted a Task Order Meeting on November 20, 2007, to discuss the TO scope of services. Caltrans Quality Assurance (QA) Manager Rajive Chadha and Geocon field manager Ian Stevenson attended the meeting. The purpose of the Task Order Meeting was to identify and observe the project boundaries and conditions and mark the project limits with white paint.
- Prepared a Health and Safety Plan dated November 21, 2007, to provide guidelines on the use of personal protective equipment and the health and safety procedures implemented during the field activities.
- Prepared a Workplan dated November 26, 2007, which describes the requested scope of services and quality assurance/quality control (QA/QC) sampling and laboratory procedures.
- Reviewed existing geological maps and studies of the Site and surrounding areas for information on the potential presence of NOA.
- Provided 48-hour notification to Underground Service Alert prior to job site mobilization.
- Retained the services of Creek Environmental Laboratories, Inc. (Creek), a Caltrans-approved and California-certified analytical laboratory, to perform the chemical analyses of samples.
- Retained the services of EMSL Inc., a Caltrans-approved and California-certified analytical laboratory, to perform the asbestos analyses of samples.

3.2 Field Activities

A preliminary geological reconnaissance was performed on November 20, 2007, by Ian Stevenson, a California, Professional Geologist (PG No. 8203) with experience in the assessment of NOA.

On November 26 and 27, 2007, we collected 107 soil samples for lead analysis from 37 direct-push borings and 3 hand-auger borings; 71 soil samples for asbestos analysis were collected from the direct push and hand auger borings; one rock chip sample for asbestos analysis; and 2 traffic stripe paint samples for LCP analysis were collected from the yellow median stripe.

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

The sample locations were selected in the field by the Geocon field supervisor and Caltrans QA Manager. The locations of the borings were determined using a differential global positioning system (GPS) capable of providing a horizontal position with an error of no more than 3.3 ft. The approximate boring locations are depicted on Figures 2-1 and 2-2.

4.0 INVESTIGATIVE METHODS

4.1 ADL Investigation

We collected 107 soil samples for lead analysis from 37 direct-push borings (B1 through B15 and B21 through B42) and 3 hand-auger borings (B43 through B45) advanced on the Site. We advanced 15

direct-push borings and three hand-auger borings along the unpaved median of westbound ED-50 and 22 direct-push borings along the unpaved median of eastbound ED-50.

The position in latitude and longitude of each boring, as determined using the GPS, is identified on the Summary of Boring and Traffic Stripe Paint Sample Coordinates, Table 1. A Summary of Lead and Soil pH Analytical Results is presented in Table 2. The approximate soil boring locations are depicted on Figures 2-1 and 2-2.

The soil borings were advanced to an approximate maximum depth of 3.0 ft, using a direct-push rig or hand-auger. We collected the soil samples for lead analysis at general depths of 0.0 to 1.0 foot, 1.0 to 2.0 ft and 2.0 to 3.0 ft.

Borings were spaced at approximately 650 foot intervals along the unpaved median of ED-50. Borings were alternately drilled near the edge of pavement and approximately 15 ft into the median. Samples were generally composited by the laboratory four at a time by depth and proximity to edge of pavement.

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

4.2 NOA Investigation

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

Seventy-one soil samples were collected for asbestos analysis from 37 direct-push and three hand-auger borings from general depths of 0 to 1 foot and 2 to 3 ft. The samples for NOA analysis were collected from fifteen direct-push borings and three hand-auger borings advanced along the unpaved median of westbound ED-50, and 22 direct-push borings advanced along the unpaved median of eastbound ED-50. Samples were generally collected in groups to be composited by the laboratory by depth and approximate PM range. One rock chip sample was also collected from bedrock material in the median near Bass Lake Road. The results of asbestos analysis for six composite samples and one rock chip sample are presented in Table 3, Summary of Asbestos Analytical Results.

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

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

4.3 Lead-Containing Paint Investigation

Two paint samples for lead and chromium analysis were collected from the yellow traffic stripe. One paint sample was collected from the east bound median stripe and one paint sample from the westbound median stripe. Samples were chipped from the pavement with a hammer and placed in a Ziploc[®] re-sealable plastic bag, labeled with sample identification, and the date and time of collection. Samples were delivered to Creek for analysis under COC protocol. Lead and chromium results are presented in Table 4, Summary of Traffic Stripe Paint Sample Analytical Results – Lead and Chromium.

4.4 Traffic Control

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

4.5 Quality Assurance/Quality Control Procedures

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

4.6 Laboratory Analyses

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

4.6.1 Aerially Deposited Lead Samples

The soil samples for lead analysis were analyzed by Creek on a 10-day turn-around-time (TAT) basis for the following analysis:

- One hundred and seven soil samples were analyzed as 33 composite samples for total lead following the United States Environmental Protection Agency (EPA) Test Method 6010B.
- Three randomly selected soil samples were analyzed for soil pH using EPA Test Method 9045.
- Four samples were analyzed for soluble (WET) lead following EPA Test Method 6020.

4.6.2 Naturally Occurring Asbestos Samples

Seventy-one samples and one rock chip sample were submitted to EMSL for asbestos fiber analysis by CARB Method 435 on a five-day or six to 10-day TAT basis. The CARB 435 preparation includes milling the sample to a -200 mesh size which also homogenizes the sample. EMSL analyzed the samples as follows:

- Seventy-one samples were analyzed as six composite samples by the polarized light microscopy (PLM) method for asbestos by CARB Method 435 (CARB 435). The analytical sensitivity of the PLM analysis was 0.25% by area.
- One of the composite samples submitted for PLM analysis was also analyzed for asbestos by the transmission electron microscopy method, EPA Test Method 600/R-93/116 (TEM), also referred to as the qualitative bulk fiber analysis "Point Count" Method. Caltrans requested a maximum lower detection limit for the TEM analysis of 0.25%; the analytical sensitivity of the TEM analysis was 0.01% by weight.
- One rock chip sample was analyzed by PLM for asbestos by CARB 435. The analytical sensitivity of the PLM analysis was 0.25% by area.

4.6.3 Lead-Containing Paint Samples

Two yellow median traffic stripe paint samples were analyzed by Creek on a 10-day TAT for total lead and chromium following EPA Test Method 6010B.

4.6.4 Laboratory QA/QC Procedures

QA/QC procedures were performed as applicable for each method of analysis with specificity for each analyte listed in the test method's QA/QC. QA/QC measures for the various metals analyses included the following:

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

5.0 FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS

5.1 Site Geology

We reviewed the California Geological Survey's (CGS) *Geologic Map of the Sacramento Quadrangle* (CGS 1987) prior to beginning the field work to gather information regarding the potential presence of NOA on the Site. The depicted geologic materials on or adjacent to the Site as shown on the *Sacramento Quadrangle* are primarily Jurassic Copper Hill Volcanics and Jurassic Metavolcanics. Minor Jurassic slates of the Salt Spring Slate formation are also mapped at the Site.

The El Dorado County Asbestos Review Areas Map was also reviewed. The area from White Rock/Latrobe Road to approximately 0.1 mile east of Silva Valley Parkway is within a *Quarter Mile Buffer Zone for More Likely to Contain Asbestos or Fault Line* area. The remainder of the Site is not mapped as an area likely to contain NOA.

Ian Stevenson performed a NOA assessment of the lithology of outcrops visible within the Caltrans right-of-way. The observed geology is consistent with that depicted on the *Sacramento Quadrangle*. One rock chip sample collected from bedrock within the median near Bass Lake Road consisted of metavolcanics. Visible outcrops on the shoulder and within the remainder of the median of ED-50 were observed to primarily consist of metavolcanics.

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

5.2 ADL Soil Analytical Results

A summary of the soil analytical results are presented in Table 2. The laboratory reports and COC documentation are presented in Appendix B.

Total lead was detected in 27 of the 33 composite soil samples analyzed at concentrations ranging from 1.3 to 150 milligrams per kilogram (mg/kg). Four of the 33 composite soil samples had reported total lead concentrations greater than or equal to 50 mg/kg (ten times the STLC value for lead of 5.0 mg/l).

WET soluble lead was reported for each of the four composite soil samples analyzed at concentrations ranging from 2.2 to 9.6 mg/l. Two of the four soil samples had soluble (WET) lead concentrations greater than or equal to the STLC value for lead of 5.0 mg/l.

Soil pH values ranged from 7.0 to 7.1.

5.3 Statistical Evaluation for Lead Detected in Soil Samples

Statistical methods were applied to the total lead data to evaluate the upper confidence limits (UCLs) of the true means of the total lead concentrations for each sampling depth. 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 a site. The UCLs therefore account for uncertainties due to limited sampling data. As data become less limited at a site, uncertainties decrease and the UCLs move closer to the true mean.

Non-parametric bootstrap techniques used to calculate the UCLs are discussed in the previously referenced EPA document and in *An Introduction to the Bootstrap*. For those samples in which total lead was not detected at concentrations exceeding the laboratory method detection limit, a value equal to one-half of the detection limit was used in the UCL calculation. The average total lead concentration for the composite soil samples is 26.2 mg/kg. The average soluble (WET) lead concentration for the four composite soil samples is 5.6 mg/l. The bootstrap results are included in Appendix C. The calculated UCLs and statistical results are summarized in the table below:

SAMPLE INTERVAL (ft)	90% TOTAL LEAD UCL (mg/kg)	95% TOTAL LEAD UCL (mg/kg)	TOTAL LEAD MEAN (mg/kg)	MINIMUM VALUE (mg/kg)	MAXIMUM VALUE (mg/kg)
0 to 1.0	63.3	67.4	47.5	14	140
1.0 to 2.0	19.9	21.1	15.6	0.5	33

2.0 to 3.0	32.2	36.2	15.6	0.5	150
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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. 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 four (x , y) data points (i.e., soil samples analyzed for both total lead [x] and soluble [WET] lead [y]) and equaled 0.8. 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. 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 $y = 0.0505(x)$, 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 90% UCLs calculated in Section 5.3.2. Regression analysis results and a scatter plot depicting the four (x , y) data points along with the regression line are included in Appendix C. The 90% UCL-predicted WET soluble lead concentrations are summarized in Table 5.

5.4 NOA Results

Six composite soil samples and one rock chip sample were analyzed by EMSL for asbestos by the PLM method using the CARB 435 sample preparation method. One composite soil sample was further analyzed by EMSL for asbestos by the TEM method and the CARB 435 sample preparation method. A summary of asbestos analytical results is presented on Table 3. A copy of the NOA laboratory reports and COC documentation are presented in Appendix B.

Five of the six soil samples submitted for asbestos analysis were reported to contain asbestos below the CARB regulatory action limit of 0.25%. Four samples were reported to contain <0.25% tremolite

asbestos by the PLM method. One sample reported as non detect by PLM was also analyzed by TEM and reported to contain <0.01 chrysotile asbestos. The rock chip sample analyzed for asbestos was reported as non-detect by the PLM method.

5.5 Lead-Containing Paint Sample Analytical Results

Two paint chip samples were collected from the yellow median traffic stripe within the project boundaries. Paint chip samples were analyzed for total lead and chromium. The analytical results of the LCP samples are summarized on Table 4. Laboratory reports and chain-of-custody documentation are presented in Appendix B.

Total lead and chromium were detected in both samples submitted for analysis. Total lead was reported at 4.6 and 450 mg/kg, less than the California hazardous waste threshold (TTLC) for lead of 1,000 mg/kg. Total chromium was reported at 4.1 and 180 mg/kg, less than the California hazardous waste threshold (TTLC) for lead of 2,500 mg/kg. Since the samples were only collected for screening purposes, WET analysis was not performed.

5.6 Asbestos Containing Materials – Review of Results from Previous Investigation

The Latrobe Road and Clarksville Road undercrossings were investigated for ACMs under previous Caltrans Contract Number 43A0012 and TO 03-3A7100. Six guardrail shim samples and five joint filler samples were collected from the Latrobe Road undercrossing. Six guardrail shim samples and four joint filler samples were collected from the Clarksville Road undercrossing. The guardrail shim samples collected from the Latrobe Road and Clarksville were reported to contain 70% chrysotile asbestos by EPA Test Method 600/m4-82-020, PLM. Joint filler samples were reported as non-detect for asbestos by EPA Test Method 600/m4-82-020, PLM. The February 2000, *Highway 50 Bridge Sites, Asbestos and Lead-Based Paint Survey Report*, is presented in Appendix A.

5.7 Review of Laboratory QA/QC

We reviewed the Creek analytical laboratory QA/QC provided with the laboratory reports. The Creek Laboratory Quality Control Results show that matrix spike recoveries are below recovery limits for samples 07-C15340, 07-C15375, and 07-C15394. The relative percent difference (RPD) for sample 07-C15376 is also above the RPD limit. The data show acceptable surrogate recoveries and non-detect results for the method blanks and acceptable recoveries for the LCS. Based on this limited data review, no additional qualifications of the data presented herein are necessary, and the data are of sufficient quality for the purposes of this report.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Aerially Deposited Lead

Waste classifications are evaluated based on the 90% UCL of the lead content for the relevant excavation depths; this has historically been considered sufficient to satisfy a good faith effort by the EPA as discussed in SW-846. Risk assessment characterization is based on the 95% UCL of the lead content in the waste for the relevant depths; this is in accordance with the Risk Assessment Guidance for Superfund (RAGS) Volume 1 documentation for Exposure Assessment.

The following table summarizes the predicted soluble (WET) lead concentrations and the waste classification for excavated soil within this highway segment based on the calculated total lead UCLs and the relationship between total and soluble (WET) lead. The soluble (WET) lead calculations are summarized in Table 5.

Excavation Depth	90% UCL Total Lead (mg/kg)	90% UCL Predicted WET Lead (mg/l)	95% UCL Total Lead (mg/kg)	Waste Classification
0 to 1.0 ft	63.3	3.2	67.4	<i>Non-hazardous</i>
<i>Underlying soil (1.0 to 3.0 ft)</i>	<i>26.1</i>	<i>1.3</i>	<i>28.7</i>	<i>Non-hazardous</i>

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

Based on the above table, soil generated from excavations to depths between 0.0 and 3.0 ft would not be classified as a California hazardous waste since the 90% UCL-predicted soluble (WET) lead concentrations are less than the STLC for lead of 5.0 mg/l. Consequently, excavated soil could be reused or disposed of as non-hazardous soil with respect to lead content.

6.2 Yellow Traffic Stripe Paint Waste Classification/Disposal

The yellow traffic paint stripe was sampled per Caltrans' request since it may be removed from the underlying asphalt concrete by grinding or sand blasting, which would create a paint waste stream. The highest reported levels of total lead and total chromium for the yellow traffic stripe paint samples were 450 mg/kg and 180 mg/kg, respectively. Lead and chromium are present in the traffic stripe paint and the removal operation may result in the generation of a regulated waste. Prior to disposal, the paint waste stream should be resampled to confirm waste classification in accordance with specific disposal facility acceptance criteria since the total lead and chromium concentrations cannot be predicted and the paint samples were not analyzed for WET soluble lead and chromium.

6.2.1 Worker Protection

Per Caltrans requirements, the contractor(s) should prepare a project-specific Lead Compliance Plan (CCR Title 8, Section 1532.1, the "Lead in Construction" standard) to minimize worker exposure to lead-impacted soil. The plan should include protocols for environmental and personnel monitoring, requirements for personal protective equipment, and other health and safety protocols and procedures for the handling of lead-impacted soil.

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

6.3 Naturally Occurring Asbestos

The observed geology of the Site is indicative of a geologic environment where NOA minerals are likely to occur. Five of the six composite soil samples submitted for asbestos analysis were reported to contain tremolite and chrysotile asbestos below the regulatory limit of 0.25% by PLM or TEM. Although laboratory results are reported at less than 0.25% they are the result of composite samples and may not represent the asbestos content at specific locations. To minimize the aerial dispersion of NOA the use of engineering controls as described in Title 17 of the California Code of Regulations (CCR) Section 93105 will be required at the Site. Additionally, Caltrans requires the use of engineering controls including dust control/wet suppression for worker protection to minimize aerial dispersion of NOA fibers in planned work areas during excavation and grading activities at sites where NOA is present. However, since the average percent asbestos is less than 0.25% based on CARB 435 testing, soils generated from the site during construction may be reused onsite without restriction. Construction/maintenance activities involving these asbestos-containing materials may fall under regulatory jurisdiction of the California Division of the Occupational Safety and Health Administration (Cal-OSHA) under CCR Title 8 Section 5208. Since NOA was detected on the Site, Caltrans requires the use of engineering controls including dust control/wet suppression for worker protection to minimize aerial dispersion of NOA fibers in planned work areas during excavation and grading activities.

6.3.1 Asbestos Risk to Human Health

Currently, regulatory exposure limits and health hazard data are not available for NOA in soils. Federal regulations governing asbestos define it as the asbestiform variety of the amphibole minerals actinolite, amosite, anthophyllite, crocidolite, and tremolite, and the asbestiform variety of serpentine, chrysotile. Asbestos fibers occurring in industrial materials are considered by the National Institute for Occupational Safety and Health as potential occupational carcinogens. Prudence is recommended, therefore, in dealing with soils containing NOA. Engineering controls such as wet suppression should be utilized to minimize aerial dispersion of NOA fibers in planned work areas during excavation and construction activities. Under Title 8 Section 5208 of the CCR, disturbance of asbestos-containing materials requires wet working methods and possible respiratory protection and air monitoring. The CARB has established protocols outlined in Title 17, Section 93105 for the implementation of worker health, safety and monitoring plans for excavation, grading and transport of NOA-containing soils. The excavation contractor should consult Title 17, Section 93105 and contact Cal-OSHA to establish the appropriate regulatory protocol and actions necessary for excavation and/or disturbance of asbestos-containing soils.

6.4 Asbestos Containing Materials

The results of the ACM survey for the Latrobe Road and Clarkesville Road bridges is presented in the February 2000, *Highway 50 Bridge Sites, Asbestos and Lead-Based Paint Survey Report*, Appendix A. The guardrail shim samples collected from the Latrobe Road and Clarksville Road undercrossings were reported to contain 70% chrysotile asbestos. Guardrail shims are classified as Category I ACM (nonfriable/nonhazardous material) – asbestos-containing packings, gaskets, resilient floor coverings, and asphalt roofing products. National Emissions Standards for Hazardous Air Pollutants regulations do not require that the Category I material identified during our survey be removed prior to demolition or treated as hazardous waste. However, the disturbance of the material is still covered by the Cal-OSHA asbestos standard. We recommend that a licensed demolition contractor registered with Cal-OSHA for asbestos-related work (or a licensed and certified asbestos abatement contractor) perform demolition activities if the asbestos-containing sheet packing identified during our survey is left in-place during demolition. Contractors are responsible for segregating and characterizing waste streams prior to disposal, and for informing a receiving landfill of the contractor's intent to dispose of asbestos-containing waste.

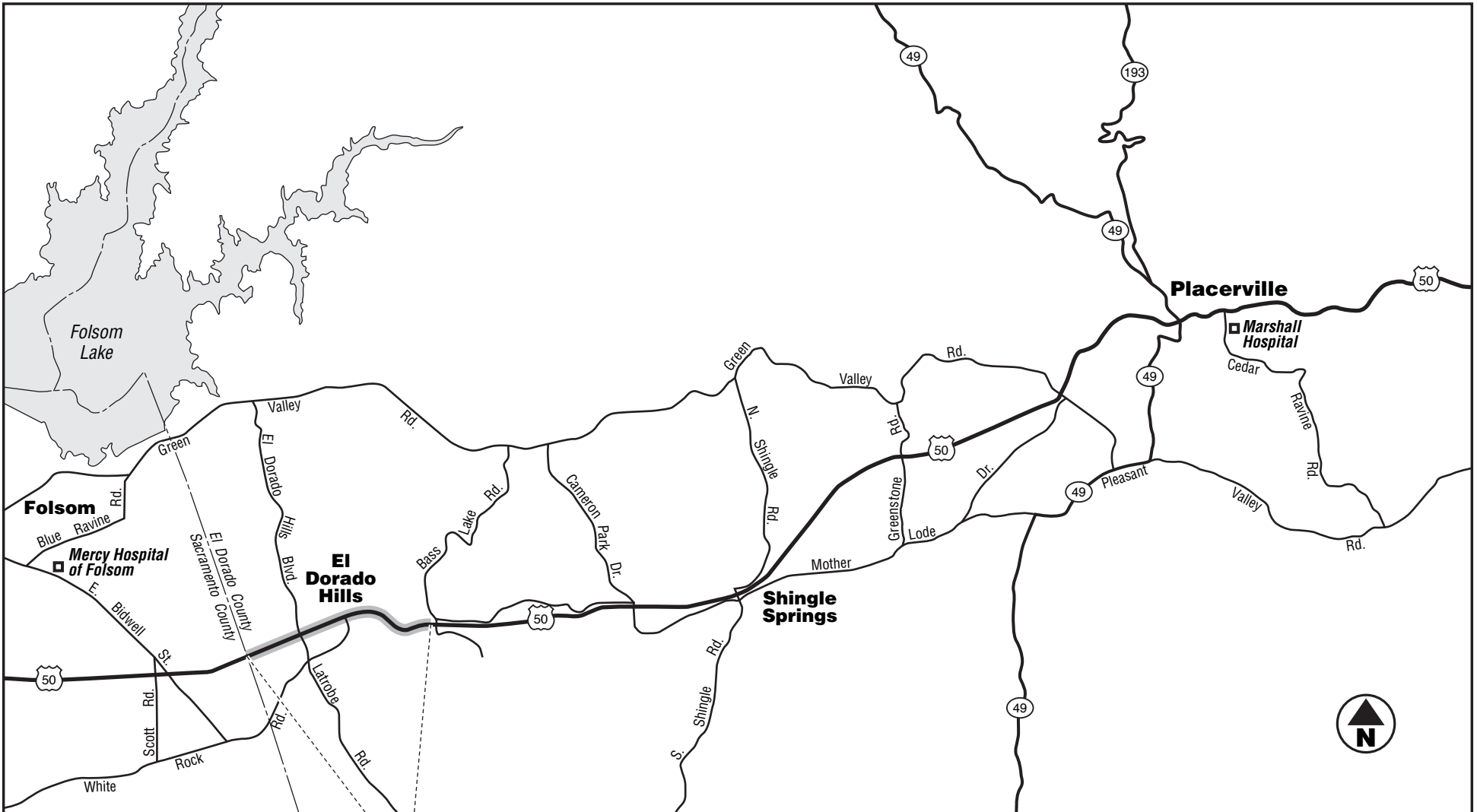
We also recommend the notification of contractors (that will be conducting renovation, demolition, or related activities) of the presence of asbestos in their areas (i.e., provide the contractor[s] with a copy of this report and a list of asbestos removed by asbestos abatement contractor[s] during subsequent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

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

7.0 REPORT LIMITATIONS


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

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



PROJECT LIMITS



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



LEGEND:

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

PC4 ▲ Approximate Paint Chip Sample Location



GEOCON

CONSULTANTS, INC.

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

El Dorado County,
California

SITE PLAN

GEOCON Proj. No. S9300-06-22

Task Order No. 22

March 2008

Figure 2-1



LEGEND:

- B1** ⊗ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Direct-Push)
- B43** ◻ Approximate Naturally Occurring Asbestos & Aerially Deposited Lead Sample Location (Hand-Auger)
- PC4** ▲ Approximate Paint Chip Sample Location
- NOA183** ● Approximate Naturally Occurring Asbestos Rock Chip Sample Location



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

TABLE 1
 SUMMARY OF SOIL BORING AND TRAFFIC STRIPE PAINT SAMPLE COORDINATES
 CALTRANS TASK ORDER NO. 22
 HIGHWAY 50 POST MILE 0.16 TO 2.90
 EL DORADO COUNTY, CALIFORNIA

BORING I.D.	LATITUDE	LONGITUDE
B1	38.653301420	-121.069279195
B2	38.654055065	-121.066956914
B3	38.654787741	-121.064797787
B4	38.655499187	-121.062619232
B5	38.656265961	-121.060352595
B6	38.656987568	-121.058126946
B7	38.657663254	-121.055948284
B8	38.658049369	-121.053441673
B9	38.658270229	-121.050987400
B10	38.658255877	-121.048595566
B11	38.657660308	-121.046264391
B12	38.656546274	-121.044362522
B13	38.655160561	-121.042595164
B14	38.654351898	-121.040570380
B15	38.654184993	-121.038123432
B21	38.658616753	-121.048638175
B22	38.658562884	-121.051043491
B23	38.658289127	-121.053308451
B24	38.657838424	-121.055700901
B25	38.657165575	-121.058049971
B26	38.656471597	-121.060182527
B27	38.655699526	-121.062491212
B28	38.655006696	-121.064630261
B29	38.654254611	-121.066835462
B30	38.653513728	-121.069108545
B31	38.652656030	-121.071448611
B32	38.651952861	-121.073607201
B33	38.651238059	-121.075750505
B34	38.650537220	-121.077877206
B35	38.649753334	-121.080228595
B36	38.647549196	-121.086666701
B37	38.648406297	-121.084113818
B38	38.649112637	-121.081991848
B39	38.649885928	-121.079643362
B40	38.650584374	-121.077536819
B41	38.651362116	-121.075225478
B42	38.652088882	-121.073026862
B43	38.657964657	-121.046081051
B44	38.656766290	-121.043974731
B45	38.655271051	-121.041920246
PC 1	38.654787741	-121.064797787
PC 4	38.656549034	-121.059977372

TABLE 2
 SUMMARY OF LEAD AND SOIL pH ANALYTICAL RESULTS
 CALTRANS TASK ORDER NO. 22
 HIGHWAY 50 POST MILE 0.16 TO 2.90
 EL DORADO COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE DATE	TOTAL LEAD (mg/kg)	SOLUBLE (WET) LEAD (mg/l)	SOIL pH
B1,3,5,7-0	11/26/2007	110	2.6	---
B1,3,7-1	11/26/2007	<1.0	---	---
B1,3,7-2	11/26/2007	2.3	---	---
B2,4,6,8-0	11/26/2007	32	---	---
B2,4,6,8-1	11/26/2007	<1.0	---	7.1
B2,4,6,8-2	11/26/2007	<1.0	---	---
B9,11,13,15-0	11/26/2007	27	---	---
B9,11,13,15-1	11/26/2007	17	---	---
B9,11,13,15-2	11/26/2007	9.3	---	---
B10,12,14-0	11/26/2007	73	2.2	---
B10,12,14-1	11/26/2007	9.7	---	---
B12,14-2	11/26/2007	150	9.6	---
B21,23,25,27-0	11/26/2007	16	---	---
B21,23,25,27-1	11/26/2007	3.9	---	---
B21,23,25,27-2	11/26/2007	1.3	---	7.0
B22,24,26,28-0	11/26/2007	31	---	---
B22,26,28-1	11/26/2007	33	---	---
B22,28-2	11/26/2007	4.1	---	---
B29,31,33,35-0	11/26/2007	19	---	---
B29,31,35-1	11/26/2007	23	---	---
B31,35-2	11/26/2007	1.4	---	---
B30,32,34-0	11/26/2007	36	---	7.0
B30,32,34-1	11/26/2007	23	---	---
B30,32-2	11/26/2007	<1.0	---	---
B36,37,38,39-0	11/26/2007	24	---	---
B36,37,38,39-1	11/26/2007	32	---	---
B36,37,38,39-2	11/26/2007	1.3	---	---
B40,41,42-0	11/26/2007	14	---	---
B40,41,42-1	11/26/2007	20	---	---
B40,41,42-2	11/26/2007	<1.0	---	---
B43,44,45-0	11/26/2007	140	8.0	---
B43,44,45-1	11/26/2007	8.9	---	---
B43-2	11/26/2007	<1.0	---	---

Notes: B1,3,5,7-0 - Composite sample identification consisting of discrete soil samples collected from borings B1, B3, B5, and B7 at 0.0 foot depth
 WET = Waste Extraction Test
 mg/kg = Milligrams per kilogram
 mg/l = Milligrams per liter
 --- = Not analyzed
 <1.0 = Less than the laboratory method reporting limit

TABLE 3
 SUMMARY OF ASBESTOS ANALYTICAL RESULTS
 CALTRANS TASK ORDER NO. 22
 HIGHWAY 50 POST MILE 0.16 TO 2.90
 EL DORADO COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE LOCATION	SAMPLE TYPE	ANALYTICAL METHOD	ASBESTOS %	ASBESTOS TYPE
NOA 1	NOA31-0, NOA32-0, NOA33-0, NOA34-0, NOA35-0, NOA36-0, NOA37-0, NOA38-0, NOA39-0, NOA40-0, NOA41-0, NOA42-0	COMPOSITE	PLM	<0.25	TREMOLITE
NOA 2	NOA31-2, NOA32-2, NOA35-2, NOA36-2, NOA37-2, NOA38-2, NOA39-2, NOA40-2, NOA41-2, NOA42-2	COMPOSITE	PLM	<0.25	TREMOLITE
NOA 3	NOA1-0, NOA2-0, NOA3-0, NOA4-0, NOA5-0, NOA6-0, NOA7-0, NOA24-0, NOA25-0, NOA26-0, NOA27-0, NOA28-0, NOA29-0, NOA30-0	COMPOSITE	PLM	<0.25	TREMOLITE
NOA 4	NOA1-2, NOA2-2, NOA3-2, NOA4-2, NOA6-2, NOA7-2, NOA25-2, NOA27-2, NOA28-2, NOA30-2	COMPOSITE	PLM	ND	ND
NOA 5	NOA8-0, NOA9-0, NOA10-0, NOA11-0, NOA12-0, NOA13-0, NOA14-0, NOA15-0, NOA21-0, NOA22-0, NOA23-0, NOA43-0, NOA44-0, NOA45-0	COMPOSITE	PLM	<0.25	TREMOLITE
NOA 6	NOA8-2, NOA9-2, NOA11-2, NOA12-2, NOA13-2, NOA14-2, NOA15-2, NOA21-2, NOA22-2, NOA23-2, NOA43-2	COMPOSITE	PLM/TEM	ND/<0.01	ND/CHRYSOPILE
NOA 183	BEDROCK OUTCROP IN MEDIAN NEAR BASS LAKE ROAD	ROCK CHIP	PLM	ND	ND

Notes:

- PLM = Polarized Light Microscopy
- TEM = Transmission Electron Microscopy
- ND = None Detected
- <0.25/<0.01 = Less than the laboratory method reporting limit (PLM/TEM)

TABLE 4
SUMMARY OF TRAFFIC STRIPE PAINT SAMPLE ANALYTICAL RESULTS - LEAD AND CHROMIUM
CALTRANS TASK ORDER NO. 22
HIGHWAY 50 POST MILE 0.16 TO 2.90
EL DORADO COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE DATE	TOTAL LEAD (mg/kg)	CHROMIUM (mg/kg)
PC 1	11/26/2007	4.6	4.1
PC 4	11/27/2007	450	180

Notes: PC 1 = Yellow traffic stripe paint sample identification
mg/kg = Milligrams per kilogram

TABLE 5
 SUMMARY OF STATISTICAL ANALYSIS
 CALTRANS TASK ORDER NO. 22
 HIGHWAY 50 POST MILE 0.16 to 2.90
 EL DORADO COUNTY, CALIFORNIA

Total Lead UCLs (mg/kg)

Sample Interval	90% UCL	95% UCL
0 to 1.0 ft	63.3	67.4
1.0 to 2.0 ft	19.9	21.1
2.0 to 3.0 ft	32.2	36.2

Excavation Scenarios

Excavation Depth	90% UCL		95% UCL	
	Total Lead (mg/kg)	Soluble (WET) Lead * (mg/l)	Total Lead	(mg/kg)
0 to 1.0 ft	63.3	3.2	67.4	
<i>Underlying Soil (1.0 to 3.0 ft)</i>	26.1	1.3	28.7	
0 to 2.0 ft	41.6	2.1	44.3	
<i>Underlying Soil (2.0 to 3.0 ft)</i>	32.2	1.6	36.2	
0 to 3.0 ft	38.5	1.9	41.6	

Notes:

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

mg/kg = milligrams per kilogram

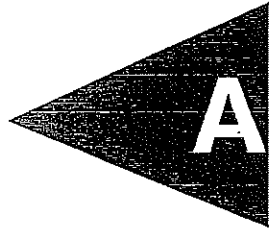
mg/l = milligrams per liter

* = Soluble (WET) lead concentrations were predicted using slope of the regression line,

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

Regression Line Slope: $y = 0.0505 x$

APPENDIX





Project No. S8225-06-76
February 3, 2000

Ms. Alicia Beyer
California Department of Transportation
District 3
North Region Hazardous Waste Office
Post Office Box 911
Marysville, California 95901

Subject: HIGHWAY 50 BRIDGE SITES
LATROBE ROAD UC PM 0.9
CLARKSVILLE ROAD UC PM 1.7
BASS LAKE ROAD UC PM 3.23
CAMERON PARK UC PM 6.57
EL DORADO COUNTY, CALIFORNIA
CONTRACT NO. 43A0012
TASK ORDER NO. 03-3A7100-CR
ASBESTOS AND LEAD-BASED PAINT SURVEY REPORT

Dear Ms. Beyer:

In accordance with California Department of Transportation (Caltrans) Contract No. 43A0012 and Task Order (TO) No. 03-3A7100-CR, Geocon Environmental Consultants, Inc. is pleased to submit this Asbestos and Lead-Based Paint Survey Report for the subject bridge sites. This report summarizes the services performed by Geocon's subcontracted asbestos consultant, HB&T Environmental Inc., including a survey for asbestos containing materials (ACMs) and lead-based paint.

PROJECT LOCATIONS AND PROPOSED IMPROVEMENTS

The project includes four bridges along Highway 50 in El Dorado County, California. The bridges include both eastbound and westbound undercrossing (UC) structures at Latrobe Road (Br. 25.71 R/L), Clarksville Road (Br. 25.72 R/L), Bass Lake Road (Br. 25-73 R/L), and Cameron Park (Br. 25-84 R/L). The approximate bridge locations are depicted on the attached Project Location Map, Figure 1.

Proposed construction will consist of widening the subject bridges approximately 4.9 meters to the inside in both westbound and eastbound directions. Construction will include removing and replacing joint seals, assemblies, guardrail bridge railings as required. The proposed work will be within the existing pavement limits and will be done from the top of the bridge. The approximate bridge structure boundaries are depicted on the attached Site Plans, Figures 2 through 5.

PURPOSE AND PROJECT SCOPE

The purpose of the scope of work included in the TO Workplan prepared by Geocon dated November 15, 1999 was to survey the bridge structures to determine the potential presence and quantity of ACMs and lead-based paint within the proposed construction areas. Outlined below is a summary of the scope of services performed pursuant to the subject TO No. 03-3A7100-CR.

Pre-Field Activities

- Conducted a TO meeting via telephone on November 2, 1999 with Ms. Alicia Beyer with Caltrans, Mr. John Juhrend with Geocon, and Mr. Tim Hoppe with HB&T to review the proposed scope of work. The project Completion Schedule and Notice To Proceed were subsequently signed by the Caltrans and Geocon project managers.
- Prepared an *Asbestos Survey Workplan* dated November 15, 1999, describing the requested scope of services, quality assurance/quality control (QA/QC), and sampling and laboratory procedures.
- Prepared a *Health and Safety Plan* dated November 12, 1999 to provide guidelines on the use of personal protective equipment and the health and safety procedures to be implemented during the survey activities.
- Retained the services of HB&T, a California licensed and Caltrans approved subcontractor to perform the asbestos surveys and analytical testing services. Mr. Tim Hoppe, a current Asbestos Hazard Emergency Response Act Certified Asbestos Consultant and California Department of Health Services certified lead-based paint sampler, performed the bridge surveys.

Field Activities

Forty-one (at least 10 from each bridge) material samples were obtained from the bridge structures on December 3, 6 and 7, 1999. The samples were obtained from the joint seals, joint filler material and guardrail bearing-pad shims using a core drill. Painted bridge components were not observed during the bridge surveys and therefore paint chip samples were not obtained. QA/QC procedures were provided during the asbestos survey activities including providing chain-of-custody documentation for each sample transferred to the laboratory. The approximate sample locations are depicted on the attached Site Plans, Figures 2 through 5.

Laboratory Analyses and Results

The bridge material samples were analyzed for asbestos type and content per Environmental Protection Agency Test Method 600/m4-82-020, polarized light microscopy. Caltrans requested standard ten-day turn-around-time laboratory analyses for bridge material samples collected pursuant to the subject TO No. 03-3A7100-CR.

Asbestos was detected in 18 guardrail bearing-pad shim samples (six per bridge) obtained from the Latrobe Road UC, Clarksville Road UC and Bass Lake Road UC at a concentration of 70% per sample. Asbestos was detected in five guardrail bearing-pad shim samples, and two sheet packing samples obtained from the Cameron Park UC at a concentration of 70% per sample. Asbestos was not detected in the remaining samples from these bridges. Copies of the laboratory reports and chain-of custody documentation are attached.

CONCLUSIONS AND RECOMMENDATIONS

The existing guardrail bearing-pad shims at the Latrobe Road UC, Clarksville Road UC, Bass Lake Road UC and Cameron Park UC, will require removal and disposal by a licensed and certified asbestos abatement contractor in conjunction with the planned bridge renovation work. In addition, sheet packing observed at the Cameron Park UC will also require abatement. For preliminary planning purposes only, the asbestos content, ACM present condition, estimated quantity and approximate abatement costs for each bridge are shown below.

TABLE 1
SUMMARY OF ACM DATA

Location and Type	Sample Numbers	Asbestos Content	Present Condition	Estimated Quantity (Square Meters, Square Feet)	Estimated Abatement Cost
Latrobe Road UC Guardrail Shim	1-A, 1-B, 3-B, 4-B, 5-B, 6-B	70% Chrysotile	Fair, Non- Friable, Category II	0.37 (3.9)	\$1,200
Clarksville Road UC Guardrail Shim	1-B, 2-B, 3-B, 4-B, 5-B, 6-B	70% Chrysotile	Fair, Non- Friable, Category II	0.52 (5.6)	\$1,200
Bass Lake Road UC Guardrail Shim	5-B, 6-B, 7-B, 8-B, 9-B, 10-B	70% Chrysotile	Fair, Non- Friable, Category II	0.68 (7.3)	\$1,200
Cameron Park UC Sheet Packing	2-B, 5-B	70% Chrysotile	Fair, Non- Friable, Category II	3.0 (32)	\$1,500
Cameron Park UC Guardrail Shim	4-B, 8-B, 9-B, 10-B, 11-B	70% Chrysotile	Fair, Non- Friable, Category II	0.7 (7.5)	\$1,200

The cost estimates shown above are based on one mobilization to each bridge site, the prior removal of guardrail by others, and include permit fees.

LIMITATIONS

The bridge surveys were conducted in conformance with generally accepted standards of practice for identifying and evaluating ACM in structures. However, ACM may exist in areas of the structure not sampled in conjunction with this TO.

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 ENVIRONMENTAL CONSULTANTS, INC.



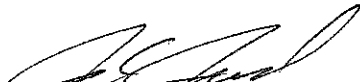
Timothy C. Hoppe
CAC No. 92-0106
DHS Lead Cert. No. 3968



William M. Kenney, PE
Project Engineer



Reviewed by:

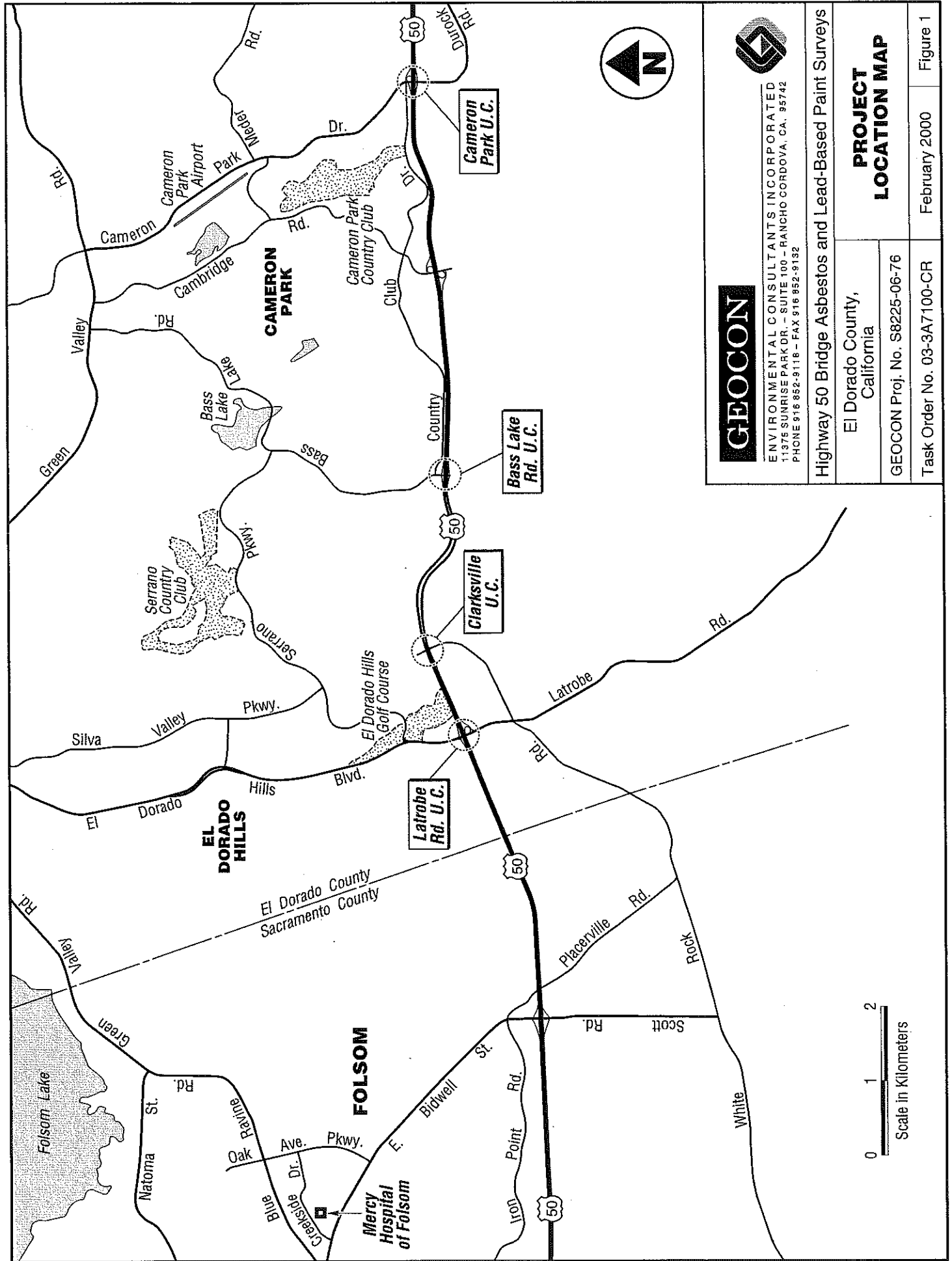


John E. Juhrend, PE, CEG
Project Manager

JEJ:sd

- (5) Addressee
- (1) HB&T, Mr. Tim Hoppe

Attachments: Figure 1, Project Location Map
Figure 2, Latrobe Road UC Site Plan
Figure 3, Clarksville Road UC Site Plan
Figure 4, Bass Lake Road UC Site Plan
Figure 5, Cameron Park UC Site Plan
Table 1, Summary of Asbestos Analytical Data
Laboratory Test Results and Chain of Custody



GEOCON

ENVIRONMENTAL CONSULTANTS INCORPORATED
 11375 SUNRISE PARK DR. - SUITE 100 - RANCHO CORDOVA, CA. 95742
 PHONE 916 852-9116 - FAX 916 852-9132

Highway 50 Bridge Asbestos and Lead-Based Paint Surveys

El Dorado County,
 California

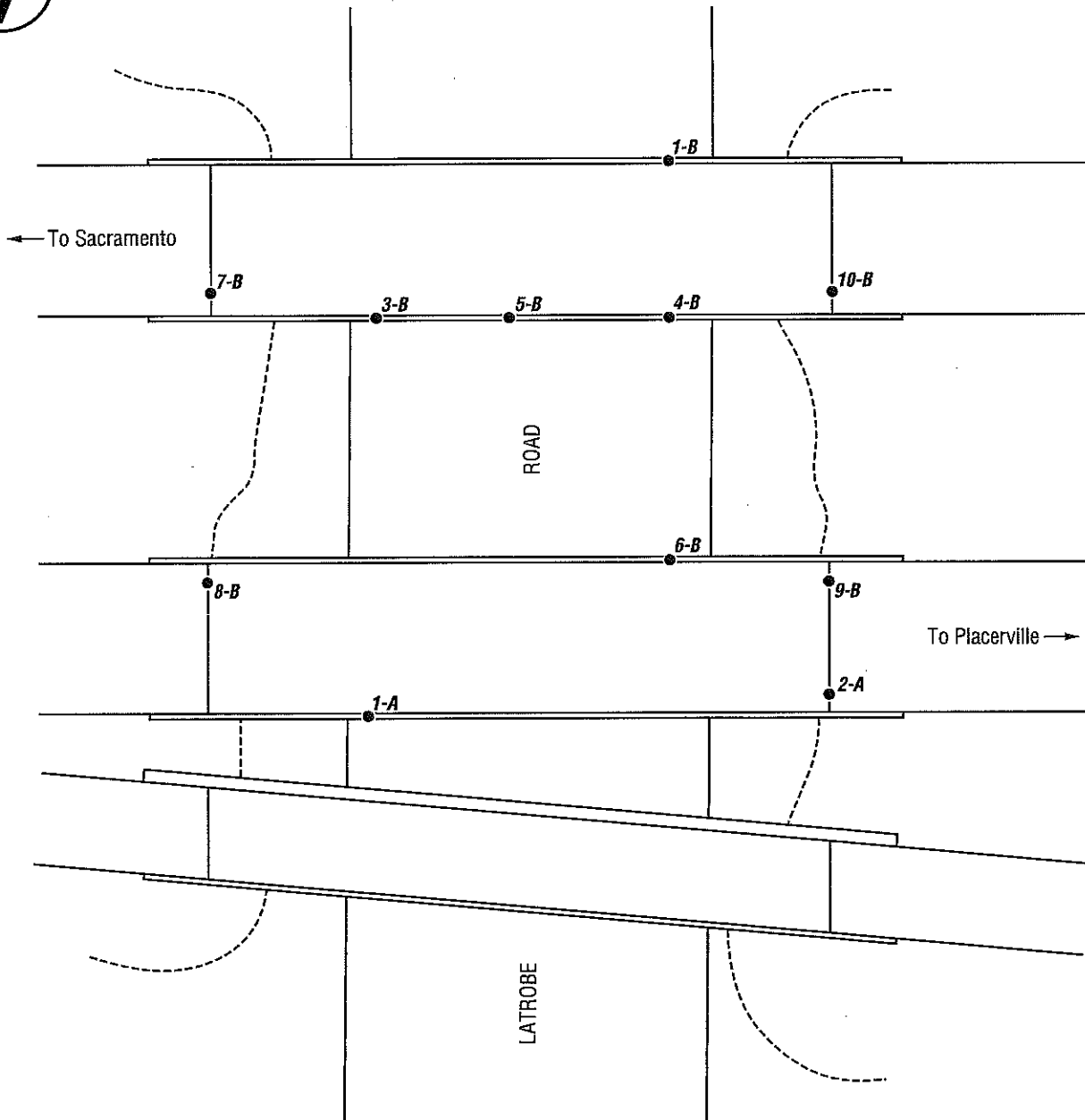
**PROJECT
 LOCATION MAP**

GEOCON Proj. No. S8225-06-76

Task Order No. 03-3A7100-CR

February 2000

Figure 1



0 5 10m
Scale: 1:500

LEGEND:

1-B ● Approximate Sample Location

GEOCON

ENVIRONMENTAL CONSULTANTS INCORPORATED
11375 SUNRISE PARK DR. - SUITE 100 - RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 - FAX 916 852-9132



Highway 50 Bridge Asbestos and Lead-Based Paint Surveys

El Dorado County,
California

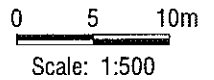
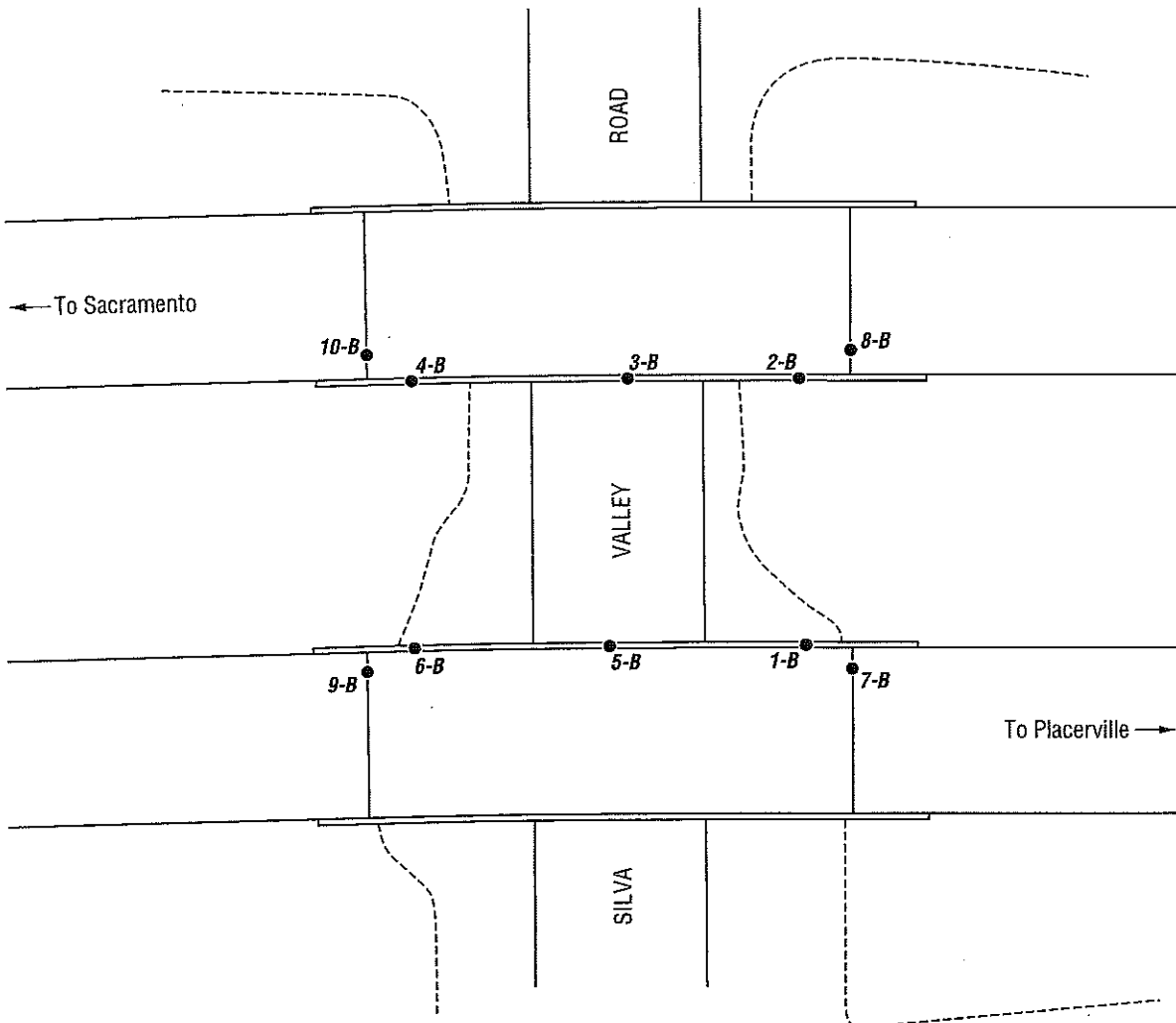
**Latrobe Road
Undercrossing
SITE PLAN**

GEOCON Proj. No. S8225-06-76

Task Order No. 03-3A7100-CR

February 2000

Figure 2



LEGEND:

1-B ● Approximate Sample Location

GEOCON

ENVIRONMENTAL CONSULTANTS INCORPORATED
11375 SUNRISE PARK DR. - SUITE 100 - RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 - FAX 916 852-9132



Highway 50 Bridge Asbestos and Lead-Based Paint Surveys

El Dorado County,
California

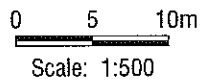
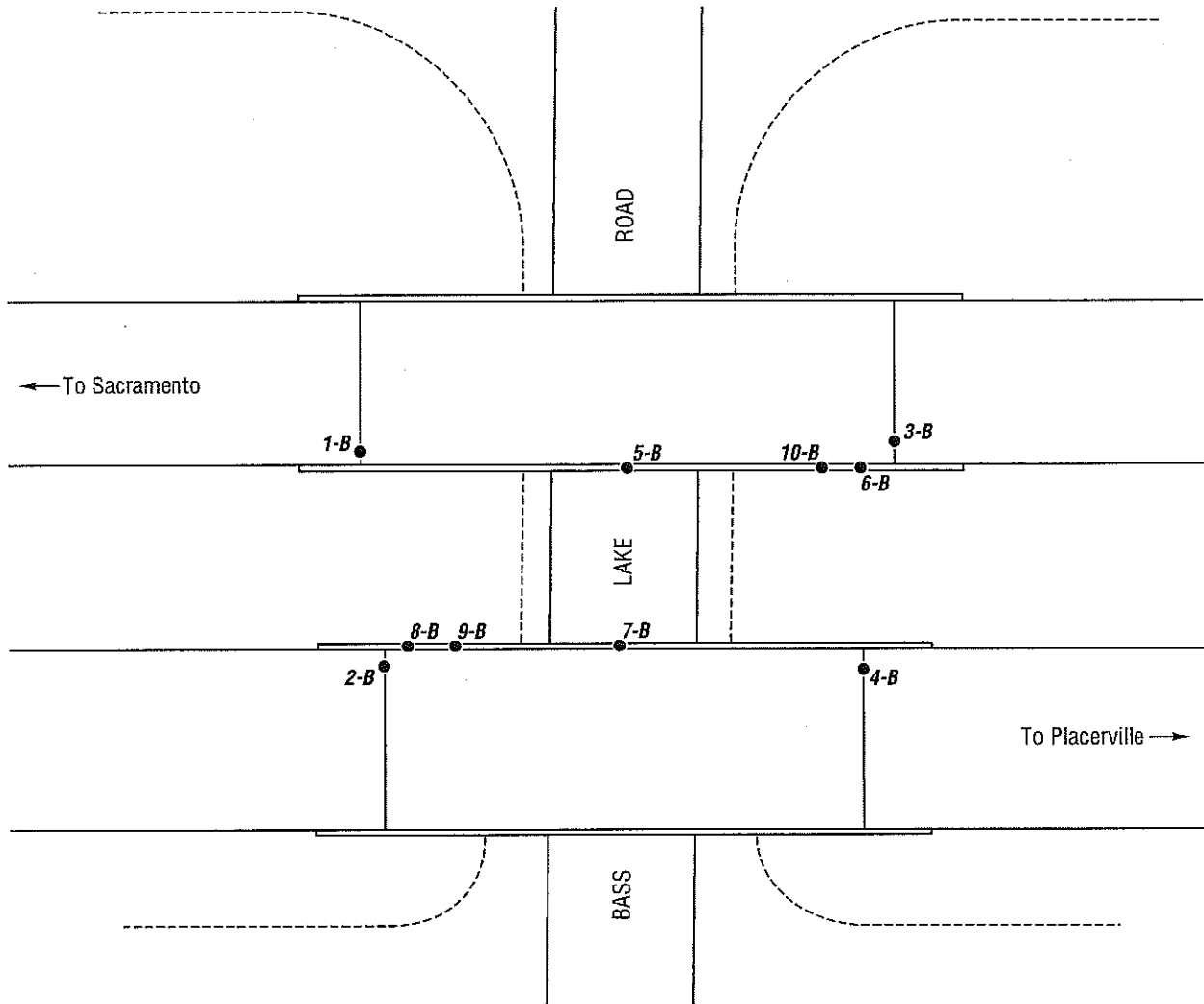
**Clarksville
Undercrossing
SITE PLAN**

GEOCON Proj. No. S8225-06-76

Task Order No. 03-3A7100-CR

February 2000

Figure 3



LEGEND:

5-B ● Approximate Sample Location

GEOCON

ENVIRONMENTAL CONSULTANTS INCORPORATED
11375 SUNRISE PARK DR. - SUITE 100 - RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 - FAX 916 852-9132



Highway 50 Bridge Asbestos and Lead-Based Paint Surveys

El Dorado County,
California

**Bass Lake Road
Undercrossing**

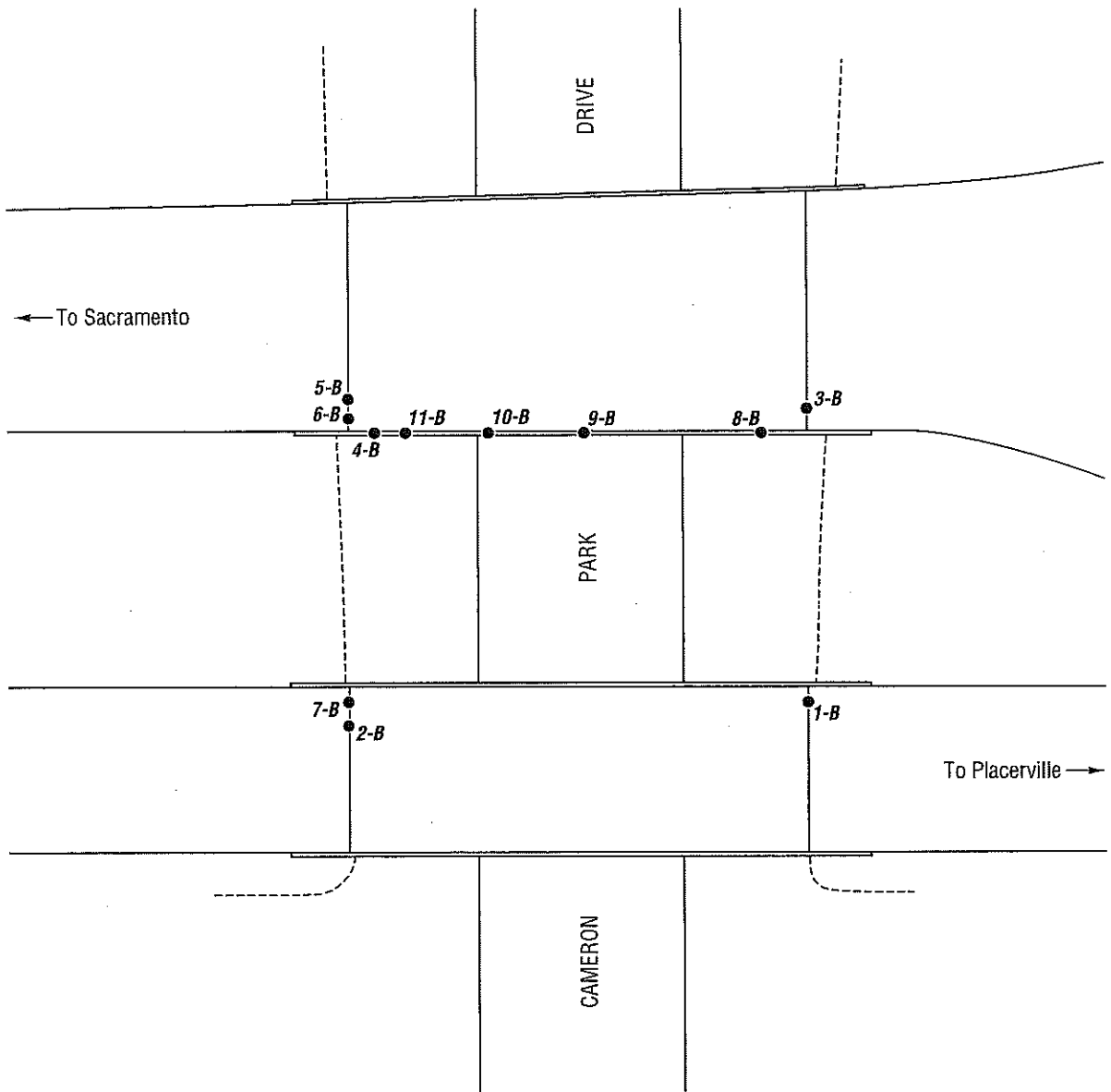
GEOCON Proj. No. S8225-06-76

SITE PLAN

Task Order No. 03-3A7100-CR

February 2000

Figure 4



0 5 10m
Scale: 1:500

LEGEND:

2-B ● Approximate Sample Location

GEOCON

ENVIRONMENTAL CONSULTANTS INCORPORATED
11375 SUNRISE PARK DR. - SUITE 100 - RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 - FAX 916 852-9132



Highway 50 Bridge Asbestos and Lead-Based Paint Surveys

El Dorado County,
California

**Cameron Park
Undercrossing**

GEOCON Proj. No. S8225-06-76

SITE PLAN

Task Order No. 03-3A7100-CR

February 2000

Figure 5

TABLE 1
 SUMMARY OF ASBESTOS ANALYTICAL DATA
 HIGHWAY 50 BRIDGE SITES
 EL DORADO COUNTY, CALIFORNIA

SAMPLE I.D.	STRUCTURE	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS (%)
1-A	LATROBE RD. UC	S.W. GUARDRAIL, SOUTH BRIDGE	GUARDRAIL SHIM, GRAY	70
1-B	LATROBE RD. UC	N.E. GUARDRAIL, NORTH BRIDGE	GUARDRAIL SHIM, GRAY	70
2-A	LATROBE RD. UC	SOUTH BRIDGE BETWEEN SLABS	BROWN/BLACK JOINT FILLER	ND
3-B	LATROBE RD. UC	WEST END, WESTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
4-B	LATROBE RD. UC	EAST END, WESTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
5-B	LATROBE RD. UC	MIDDLE, WESTBOUND SIDE INSIDE	GUARDRAIL SHIM, GRAY	70
6-B	LATROBE RD. UC	EAST END, EASTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
7-B	LATROBE RD. UC	WEST END, WESTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
8-B	LATROBE RD. UC	WEST END, EASTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
9-B	LATROBE RD. UC	EAST END, EASTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
10-B	LATROBE RD. UC	EAST END, WESTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
1-B	CLARKSVILLE RD. UC	EAST END, EASTBOUND SIDE INSIDE	GUARDRAIL SHIM, GRAY	70
2-B	CLARKSVILLE RD. UC	EAST END, WESTBOUND SIDE INSIDE	GUARDRAIL SHIM, GRAY	70
3-B	CLARKSVILLE RD. UC	MIDDLE, WESTBOUND SIDE INSIDE	GUARDRAIL SHIM, GRAY	70
4-B	CLARKSVILLE RD. UC	WEST END, WESTBOUND SIDE INSIDE	GUARDRAIL SHIM, GRAY	70
5-B	CLARKSVILLE RD. UC	MIDDLE, EASTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
6-B	CLARKSVILLE RD. UC	WEST END, EASTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
7-B	CLARKSVILLE RD. UC	EAST END, EASTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
8-B	CLARKSVILLE RD. UC	EAST END, WESTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
9-B	CLARKSVILLE RD. UC	WEST END, EASTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
10-B	CLARKSVILLE RD. UC	WEST END, WESTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
1-B	BASS LAKE RD. UC	WEST END, WESTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
2-B	BASS LAKE RD. UC	WEST END, EASTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
3-B	BASS LAKE RD. UC	EAST END, WESTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
4-B	BASS LAKE RD. UC	EAST END, EASTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
5-B	BASS LAKE RD. UC	MIDDLE, WESTBOUND SIDE INSIDE	GUARDRAIL SHIM, GRAY	70
6-B	BASS LAKE RD. UC	EAST END, WESTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70

TABLE 1
 SUMMARY OF ASBESTOS ANALYTICAL DATA
 HIGHWAY 50 BRIDGE SITES
 EL DORADO COUNTY, CALIFORNIA

SAMPLE ID.	STRUCTURE	SAMPLE LOCATION	MATERIAL DESCRIPTION	ASBESTOS (%)
7-B	BASS LAKE RD. UC	MIDDLE, EASTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
8-B	BASS LAKE RD. UC	WEST END, EASTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
9-B	BASS LAKE RD. UC	WEST END, EASTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
10-B	BASS LAKE RD. UC	EAST END, WESTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
1-B	CAMERON PARK UC	EAST END, EASTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
2-B	CAMERON PARK UC	UNDER BRIDGE @ ABUTMENT, WEST END, E.B.	GRAY SHEET PACKING	70
3-B	CAMERON PARK UC	EAST END, WESTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
4-B	CAMERON PARK UC	WEST END, WESTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY "UPPER"	70
5-B	CAMERON PARK UC	UNDER BRIDGE @ ABUTMENT, WEST END, W.B.	GRAY SHEET PACKING	70
6-B	CAMERON PARK UC	WEST END, WESTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
7-B	CAMERON PARK UC	WEST END, EASTBOUND SIDE, INSIDE	BROWN JOINT FILLER	ND
8-B	CAMERON PARK UC	EAST END, WESTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
9-B	CAMERON PARK UC	MIDDLE, WESTBOUND SIDE INSIDE	GUARDRAIL SHIM, GRAY	70
10-B	CAMERON PARK UC	MIDDLE WEST, WESTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70
11-B	CAMERON PARK UC	WEST END, WESTBOUND SIDE, INSIDE	GUARDRAIL SHIM, GRAY	70

Notes: ND = Not detected



Polarized Light Microscopy
Asbestos Analysis Report

2033 Heritage Park Drive
Oklahoma City, OK 73120
Ph. (405) 755-7272
Fax (405) 755-2058

QuanTEM Set ID: 9912P103074
Date Received: December 8, 1999

Client: HB&T Environmental, Inc.
Account Number: A103

Analyzed By: Joe Melton
Methodology: EPA 600/M4-82-020

Project: El Dorado County, CA
Project Location: Cameron Park U.C.
Project No.: 3215.99

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos	Non-Asbestos Fiber	Other
1	1-B	homogeneous	brown joint filler, E-end, E-bd. inside	asbestos not present	cellulose 10%	
2	2-B	homogeneous	gray sheet packing, under, EB W-end	asbestos present chrysotile 70%	N/A	
3	3-B	homogeneous	brown joint filler, E-end, W-bd. inside	asbestos not present	N/A	
4	4-B	homogeneous	gray rail im"upper"W-end, E-inside	asbestos present chrysotile 70%	N/A	
5	5-B	homogeneous	gray sheet packing, under, WB W-end	asbestos present chrysotile 70%	N/A	
6	6-B	homogeneous	brown joint filler, W-end, W-bd. inside	asbestos not present	cellulose 10%	
7	7-B	homogeneous	brown joint filler, W-end, E-bd. inside	asbestos not present	cellulose 10%	
8	8-B	homogeneous	gray guard rail shim, E-end, W-bd. inside	asbestos present chrysotile 70%	N/A	


Reviewed and Approved

December 8, 1999

Date

Note: Structures denoted as being "<5µ" refer to the structures whose length is from 0.5µm to 4.9µm.
QuanTEM is a NVLAP-accredited TEM and PLM laboratory (Lab Code 101959). This report relates only to the specific items tested.
NVLAP accreditation applies only to AHERA analysis [40 CFR Ch. I (1-1-87 ed.) Part 763, Appendix A to Subparts E and F].
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Polarized Light Microscopy Asbestos Analysis Report

2033 Heritage Park Drive
Oklahoma City, OK 73120
Ph. (405) 755-7272
Fax (405) 755-2058

QuanTEM Set ID: 9912P103074
Date Received: December 8, 1999

Client: HB&T Environmental, Inc.
Account Number: A103

Analyzed By: Joe Melton
Methodology: EPA 600/M4-82-020

Project: El Dorado County, CA
Project Location: Cameron Park U.C.
Project No.: 3215.99

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos	Non-Asbestos Fiber	Other
9	9-B	homogeneous	gray guard rail shim,middle,W-bd. inside	asbestos present chrysotile 70%	N/A	
10	10-B	homogeneous	gray guard rail shim,middle W,W-bd. inside	asbestos present chrysotile 70%	N/A	
11	11-B	homogeneous	gray guard rail shim,W-endW-bd. inside	asbestos present chrysotile 70%	N/A	


Reviewed and Approved

December 8, 1999

Date

Note: Structures denoted as being "<5µ" refer to the structures whose length is from 0.5µm to 4.9µm.
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9912P103074



Asbestos Chain-of-Custody Form

2033 Heritage Park Drive, Oklahoma City, OK 73120
(800) 822-1650 (405) 755-7272 Fax (405) 755-2058

Company Name: HB&T Environmental, Inc. Project: El Dorado County
Project Location: Cameron Park U.C. Project Number: 3215.99
 Analytical Services Requested

Sample ID Number	To Be Analyzed	Color / Description	Volume / Area (if applicable)	Comments
1-B		Brown Joint filler	East end	East bound side inside
2-B		Gray sheet packing	Under bridge at abutment	E.B. West end
3-B		Brown Joint filler	East end	West bound side inside
4-B		Gray Guardrail Shim Upper	West end	West bound side inside
5-B		Gray sheet packing	Under bridge at abutment	W.B. West end
6-B		Brown Joint filler	West end	West bound side inside
7-B		Brown Joint filler	West end	West bound side inside
8-B		Gray Guardrail Shim	East end	West bound side inside
9-B		"	Middle	West bound inside
10-B		"	Middle West	West bound inside
11-B		"	West end	West bound inside

TEM

<input type="checkbox"/> Air - AHERA clearance*
<input type="checkbox"/> Air - TEM
<input type="checkbox"/> Air - NIOSH 7402
<input type="checkbox"/> Bulk - Qualitative (Yes / No) (EPA 8000R-920116)
<input type="checkbox"/> Bulk - Quantitative (weight %) (Chattahoochee)
<input type="checkbox"/> Dust - Qualitative (Yes / No)
<input type="checkbox"/> Dust - Quantitative (fibers / sq. cm) (ASTM D5756)
<input type="checkbox"/> Drinking Water (EPA 100.2)
<input type="checkbox"/> Waste Water (EPA 800/A-83-043)
<input type="checkbox"/> Other

* AHERA clearance samples must consist of 5 inside, 5 outside, and 3 blank samples collected on 0.45 micron 25mm MCE filters with a minimum volume of 660 L

PLM

<input checked="" type="checkbox"/> Bulk Analyte (EPA 8000R-920116)
<input type="checkbox"/> Qualitative Point Counting
<input type="checkbox"/> Other

PCM

<input type="checkbox"/> NIOSH 7400
<input type="checkbox"/> Other

Received By: [Signature] Time/Date: 12-7-99 5:00 pm
 Received By: FedEx Time/Date: Brandy Peltz 12.8.99
 Received By: [Signature] Time/Date: 09:33

Report results to: _____
 Telephone number: _____
 Fax Number: _____
 Turnaround: 24hr
 Date Due: _____
 Time Due: _____

Saturday FedEx Shipping: (Use for FedEx only)
4220 N. Santa Fe Ave., Oklahoma City, OK 73105
(Mark package **HOLD FOR PICKUP**)



Polarized Light Microscopy
Asbestos Analysis Report

2033 Heritage Park Drive
Oklahoma City, OK 73120
Ph. (405) 755-7272
Fax (405) 755-2058

QuanTEM Set ID: 9912P103071
Date Received: December 8, 1999

Client: HB&T Environmental, Inc.
Account Number: A103

Analyzed By: Allen Clark
Methodology: EPA 600/M4-82-020

Project: El Dorado County, CA
Project Location: Bass Lake Rd. U.C.
Project No.: 3215.99

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos	Non-Asbestos Fiber	Other
1	1-B	homogeneous	brown joint filler, W-end, W-bd. inside	asbestos not present	N/A	
2	2-B	homogeneous	brown joint filler, W-end, E-bd. inside	asbestos not present	N/A	
3	3-B	homogeneous	brown joint filler, E-end, W-bd. inside	asbestos not present	N/A	
4	4-B	homogeneous	brown joint filler, E-end, E-bd. inside	asbestos not present	N/A	
5	5-B	homogeneous	gray guard rail shim, middle-W bd. side	asbestos present chrysotile 70%	N/A	
6	6-B	homogeneous	gray guard rail shim, E-end, W-bd. inside	asbestos present chrysotile 70%	N/A	
7	7-B	homogeneous	gray guard rail shim, middle, E-bd inside	asbestos present chrysotile 70%	N/A	
8	8-B	homogeneous	gray guard rail shim, W-end, E-bd inside	asbestos present chrysotile 70%	N/A	
9	9-B	homogeneous	gray guard rail shim, W-end, E-bd inside	asbestos present chrysotile 70%	N/A	

Allen Clark

Reviewed and Approved

December 8, 1999

Date

Note: Structures denoted as being "<5µ" refer to the structures whose length is from 0.5µm to 4.9µm.
QuanTEM is a NVLAP-accredited TEM and PLM laboratory (Lab Code 101959). This report relates only to the specific items tested.
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Polarized Light Microscopy Asbestos Analysis Report

2033 Heritage Park Drive
Oklahoma City, OK 73120
Ph. (405) 755-7272
Fax (405) 755-2058

QuanTEM Set ID: 9912P103071
Date Received: December 8, 1999

Client: HB&T Environmental, Inc.
Account Number: A103

Analyzed By: Allen Clark
Methodology: EPA 600/M4-82-020

Project: El Dorado County, CA
Project Location: Bass Lake Rd. U.C.
Project No.: 3215.99

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos	Non-Asbestos Fiber	Other
10	10-B	homogeneous	gray guard rail shim, E-end, W-bd inside	asbestos present chrysotile 70%	N/A	

Allen Clark

Reviewed and Approved

December 8, 1999

Date

Note: Structures denoted as being "<5µ" refer to the structures whose length is from 0.5µm to 4.9µm.
QuanTEM is a NVLAP-accredited TEM and PLM laboratory (Lab Code 101959). This report relates only to the specific items tested.
NVLAP accreditation applies only to AHERA analysis [40 CFR Ch. I (1-1-87 ed.) Part 763, Appendix A to Subparts E and F].
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991210507H

Page 1 of 1



Asbestos Chain-of-Custody Form

2033 Heritage Park Drive, Oklahoma City, OK 73120
(800) 822-1660 (405) 755-7272 Fax (405) 755-2058

Company Name: HB&T Environmental, Inc. Project: El Dorado County, CA
Project Location: Bess Lake Rd. U.C. Project Number: 3715.99
 Analytical Services Requested

Sample ID Number	To Be Analyzed	Color / Description	Volume / Area (if applicable)	Comments
1-B		Brown joint filler	West end	Westbound Inside
2-B		Brown joint filler	West end	Eastbound Inside
3-B		"	East end	Westbound inside
4-B		"	East end	Eastbound inside
5-B		Grey guard rail Shim	Middle	Westbound inside
6-B		"	East end	Westbound inside
7-B		"	Middle	Eastbound inside
8-B		"	West end	Eastbound inside
9-B		"	West end	Eastbound inside
10-B		"	East end	Westbound inside

TEM

<input type="checkbox"/> AF - AHERA clearance*
<input type="checkbox"/> Air - TEM
<input type="checkbox"/> Air - NIOSH 7402
<input type="checkbox"/> Bulk - Qualitative (Yes / No) (EPA 800/R-92/116)
<input type="checkbox"/> Bulk - Quantitative (weight %) (Chalchal)
<input type="checkbox"/> Dust - Qualitative (Yes / No)
<input type="checkbox"/> Dust - Quantitative (fibers / sq. cm) (ASTM D5756)
<input type="checkbox"/> Drinking Water (EPA 100.2)
<input type="checkbox"/> Waste Water (EPA 800/A-83-043)
<input type="checkbox"/> Other

* AHERA clearance samples must consist of 8 inside, 8 outside, and 3 blank samples collected on 0.45 micron 36mm MCE filters with a minimum volume of 660 L.

PLM

<input checked="" type="checkbox"/> Bulk Analyte (EPA 800/R-92/116)
<input type="checkbox"/> Quantitative Point Counting
<input type="checkbox"/> Other

PCM

<input type="checkbox"/> NIOSH 7400
<input type="checkbox"/> Other

Report results to: _____
Telephone number: _____
Fax Number: _____

Turnout: 24 hr
Dial Out: _____
Time Due: _____

Requisitioned By: _____
Time Date: 12-7-99 Via FedEx Received By: Brenda Peltz Time Date: 01/30/2001
Requisitioned By: _____
Time Date: 5:00 pm Received By: _____ Time Date: _____

Saturday FedEx Shipping: (Use for FedEx only)
4220 N. Santa Fe Ave., Oklahoma City, OK 73105
(Mark package **HOLD FOR PICKUP**)



Polarized Light Microscopy Asbestos Analysis Report

2033 Heritage Park Drive
Oklahoma City, OK 73120
Ph. (405) 755-7272
Fax (405) 755-2058

QuanTEM Set ID: 9912P103073
Date Received: December 8, 1999

Client: HB&T Environmental, Inc.
Account Number: A103

Analyzed By: Joe Melton
Methodology: EPA 600/M4-82-020

Project: El Dorado County, CA
Project Location: Clarksville Rd. U.C.
Project No.: 3215.99

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos	Non-Asbestos Fiber	Other
1	1-B	homogeneous	gray guardrail shim, E-end, E-bd. inside	asbestos present chrysotile 70%	N/A	
2	2-B	homogeneous	gray guardrail shim, E-end, W-bd. inside	asbestos present chrysotile 70%	N/A	
3	3-B	homogeneous	gray guardrail shim, middle, W-bd. inside	asbestos present chrysotile 70%	N/A	
4	4-B	homogeneous	gray guard rail shim, W-end, W-bd. inside	asbestos present chrysotile 70%	N/A	
5	5-B	homogeneous	gray guard rail shim, middle, E-bd. inside	asbestos present chrysotile 70%	N/A	
6	6-B	homogeneous	gray guard rail shim, W-end, E-bd. inside	asbestos present chrysotile 70%	N/A	
7	7-B	homogeneous	brown joint filler, E-end, E-bd. inside	asbestos not present	cellulose 10%	
8	8-B	homogeneous	brown joint filler, E-end, W-bd. inside	asbestos not present	cellulose 10%	


Reviewed and Approved

December 8, 1999

Date

Note: Structures denoted as being "<math><5\mu</math>" refer to the structures whose length is from 0.5 μm to 4.9 μm .
QuanTEM is a NVLAP-accredited TEM and PLM laboratory (Lab Code 101959). This report relates only to the specific items tested.
NVLAP accreditation applies only to AHERA analysis (40 CFR Ch. I (1-1-87 ed.) Part 763, Appendix A to Subparts E and F).
This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.
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2033 Heritage Park Drive
 Oklahoma City, OK 73120
 Ph. (405) 755-7272
 Fax (405) 755-2058

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Set ID: 9912P103073
 Date Received: December 8, 1999

Client: HB&T Environmental, Inc.
 Account Number: A103

Analyzed By: Joe Melton
 Methodology: EPA 600/M4-82-020

Project: El Dorado County, CA
 Project Location: Clarksville Rd. U.C.
 Project No.: 3215.99

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos	Non-Asbestos Fiber	Other
9	9-B	homogeneous	brown joint filler, W-end, E-bd. inside	asbestos not present	cellulose 10%	
10	10-B	homogeneous	brown joint filler, W-end, W-bd. inside	asbestos not present	cellulose 10%	


 Reviewed and Approved

December 8, 1999

Date

Note: Structures denoted as being "<math><5\mu</math>" refer to the structures whose length is from 0.5 μm to 4.9 μm .
 QuanTEM is a NVLAP-accredited TEM and PLM laboratory (Lab Code 101959). This report relates only to the specific items tested.
 NVLAP accreditation applies only to AHERA analysis [40 CFR Ch. I (1-1-87 ed.) Part 763, Appendix A to Subparts E and F].
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Polarized Light Microscopy Asbestos Analysis Report

2033 Heritage Park Drive
Oklahoma City, OK 73120
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Fax (405) 755-2058

Quantem Set ID: 9912P103072
Date Received: December 8, 1999

Client: HB&T Environmental, Inc.
Account Number: A103

Analyzed By: Joe Melton
Methodology: EPA 600/M4-82-020

Project: El Dorado County, CA
Project Location: Latrobe Rd. U.C
Project No.: 3215.99

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos	Non-Asbestos Fiber	Other
1	1-A	homogeneous	gray pad, SW guard rail, S bridge	asbestos present chrysotile 70%	N/A	
2	1-B	homogeneous	gray pad, NE guard rail, S bridge	asbestos present chrysotile 70%	N/A	
3	2-A	homogeneous	brown/black joint filler, S bridge	asbestos not present	cellulose 10%	
4	3-B	homogeneous	gray guardrail shim, W-end, W-bd. inside	asbestos present chrysotile 70%	N/A	
5	4-B	homogeneous	gray guardrail shim, E-end, W-bd. inside	asbestos present chrysotile 70%	N/A	
6	5-B	homogeneous	gray guardrail shim, middle, W-bd. inside	asbestos present chrysotile 70%	N/A	
7	6-B	homogeneous	gray guardrail shim, E-end, E-bd. inside	asbestos present chrysotile 70%	N/A	
8	7-B	homogeneous	brown joint filler, W-end, W-bd. inside	asbestos not present	cellulose 10%	
9	8-B	homogeneous	brown joint filler, W-end, E-bd. inside	asbestos not present	cellulose 10%	
10	9-B	homogeneous	brown joint filler, E-end, E-bd. inside	asbestos not present	cellulose 10%	


Reviewed and Approved

December 8, 1999

Date

Note: Structures denoted as being "<math><5\mu</math>" refer to the structures whose length is from 0.5 μm to 4.9 μm .
Quantem is a NVLAP-accredited TEM and PLM laboratory (Lab Code 101959). This report relates only to the specific items tested.
NVLAP accreditation applies only to AHERA analysis [40 CFR Ch. I (1-1-87 ed.) Part 763, Appendix A to Subparts E and F].
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Asbestos Chain-of-Custody Form

2033 Heritage Park Drive, Oklahoma City, OK 73120
(800) 822-1650 (405) 755-7272 Fax (405) 755-2058

41118710002

Page 1 of 1

Analytical Service Requested

Company Name: HBT Environmental Project: El Dorado County, CA
 Project Location: Latrobe Rd. U.C. Project Number: 32LS99

TEM

✓	Air - AHERA clearance*
	Air - TEM
	Air - NIOSH 7402
	Bulk - Qualitative (Yes / No) (EPA 600/R-93/118)
	Bulk - Quantitative (weight %) (Chalfield)
	Dust - Qualitative (Yes / No)
	Dust - Quantitative (fibers / cc. cm.) (ASTM D5756)
	Drinking Water (EPA 100.2)
	Waste Water (EPA 600/4-83-043)
	Other

* AHERA clearance samples must consist of 5 inside, 5 outside, and 3 blank samples collected on 0.45 micron 25mm MCE filters with a minimum volume of 660 L.

PLM

✓	Bulk Analysis (EPA 600/R-93/118)
	Quantitative Point Counting
	Other

PCM

	NIOSH 7400
	Other

Sample ID Number	To Be Analyzed	Color / Description	Volume / Area (if applicable)	Comments
1-A		Grey pad between metal & concrete	5mL	guardrail of South bridge
1-B		"	"	NE. side of North bridge
2-A		Brown/black joint filler	South bridge between slabs	
3-B		Grey guardrail Shim	West end	Westbound Side Inside
4-B		"	East end	Westbound Side Inside
5-B		"	Middle	Westbound Side Inside
6-B		"	East end	Eastbound Side Inside
7-B		Brown joint filler	West end	Westbound Side Inside
8-B		Brown joint filler	West end	Eastbound Side Inside
9-B		Brown joint filler	East end	Eastbound Side Inside
10-B		Brown joint filler	East end	Westbound Side Inside

Report results to: _____
 Telephone number: _____
 Fax Number: _____

Turnaround: 24 hr
 Date Due: _____
 Time Due: _____

Relinquished By: [Signature] Time/Date: 12-7-99
 Relinquished By: [Signature] Time/Date: 5:00 pm

Received By: FedEx Brandon Peltz Time/Date: 09:30
 Received By: [Signature] Time/Date: 12:29 99

Saturday FedEx Shipping: (Use for FedEx only)
 4220 N. Santa Fe Ave., Oklahoma City, OK 73105
 (Mark package "HOLD FOR PICKUP")



Polarized Light Microscopy
Asbestos Analysis Report

2033 Heritage Park Drive
Oklahoma City, OK 73120
Ph. (405) 755-7272
Fax (405) 755-2058

Quantem Set ID: 9912P103072
Date Received: December 8, 1999

Client: HB&T Environmental, Inc.
Account Number: A103

Analyzed By: Joe Melton
Methodology: EPA 600/M4-82-020

Project: El Dorado County, CA
Project Location: Latrobe Rd. U.C
Project No.: 3215.99

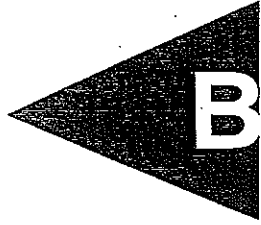
Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos	Non-Asbestos Fiber	Other
11	10-B	homogeneous	brown joint filler, E-end, W-bd. inside	asbestos not present	cellulose 10%	

Reviewed and Approved

December 8, 1999
Date

Note: Structures denoted as being "<5µ" refer to the structures whose length is from 0.5µm to 4.9µm. Quantem is a NVLAP-accredited TEM and PLM laboratory (Lab Code 101959). This report relates only to the specific items tested. NVLAP accreditation applies only to AHERA analysis [40 CFR Ch. I (1-1-87 ed.) Part 763, Appendix A to Subparts E and F]. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This report shall not be reproduced except in full, without the written approval of the laboratory.

APPENDIX





CREEK ENVIRONMENTAL LABORATORIES, INC.

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Page 1

Ian Stevenson
Geocon Consultants
3160 Gold Valley Drive #800
Rancho Cordova, CA 95742

Log Number: 07-C15312
Order: O6247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B1,3,5,7-0	Ian Stevenson	11/26/07a		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	110	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2382

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng



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Log Number: 07-C15313
Order: O6247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B1,3,7-1	Ian Stevenson	11/26/07@		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	Not Detected	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2382

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Lab Director, Michael Ng



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Log Number: 07-C15314
Order: O6247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B1,3,7-2	Ian Stevenson	11/26/07@		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	2.3	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2382

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15315
Order: O6247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B2,4,6,8-0	Ian Stevenson	11/26/07a		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	32	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2382

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15316
Order: O6247
Project: Highway 50 SI/S9300-06-22
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B2,4,6,8-1	Ian Stevenson	11/26/07@		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
pH	7.1	0.1	1	pH units	EPA 9045	12/12/07		2447
Lead	Not Detected	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2382

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15317
Order: 06247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B2,4,6,8-2	Ian Stevenson	11/26/07a		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	Not Detected	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2382

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Page 7

Ian Stevenson
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Log Number: 07-C15318
Order: O6247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B9,11,13,15-0	Ian Stevenson	11/26/07@		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	27	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2382

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15319
Order: 06247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B9,11,13,15-1	Ian Stevenson	11/26/07a		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	17	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2382

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15320
Order: O6247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B9,11,13,15-2	Ian Stevenson	11/26/07@		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	9.3	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2382

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15321
Order: O6247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time			Matrix				
B10,12,14-0	Ian Stevenson	11/26/07@			Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch	
Lead	73	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2382	

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15322
Order: 06247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B10,12,14-1	Ian Stevenson	11/26/07@		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	9.7	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2385

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15323
Order: 06247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B12,14-2	Ian Stevenson	11/26/07@		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	150	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2385

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Rancho Cordova, CA 95742

Log Number: 07-C15324
Order: O6247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B21,23,25,27-0	Ian Stevenson	11/26/07@		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	16	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2385

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Lab Director, Michael Ng



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Rancho Cordova, CA 95742

Log Number: 07-C15325
Order: 06247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix					
B21,23,25,27-1	Ian Stevenson	11/26/07@	Solid					
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	3.9	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2385

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng



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Ian Stevenson
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Rancho Cordova, CA 95742

Log Number: 07-C15326
Order: O6247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B21,23,25,27-2	Ian Stevenson	11/26/07a		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
pH	7.0	0.1	1	pH units	EPA 9045	12/12/07		2447
Lead	1.3	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2385

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng



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Log Number: 07-C15327
Order: O6247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B22,24,26,28-0	Ian Stevenson	11/26/07a		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	31	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2385

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng



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Log Number: 07-C15328
Order: 06247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B22,26,28-1	Ian Stevenson	11/26/07a		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	33	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2385

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng



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Log Number: 07-C15329
Order: O6247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B22,28-2	Ian Stevenson	11/26/07@		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	4.1	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2385

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15330
Order: O6247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix					
B29,31,33,35-0	Ian Stevenson	11/26/07@	Solid					
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	19	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2385

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15331
Order: 06247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix
B29,31,35-1	Ian Stevenson	11/26/07@		Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	23	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2385

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15332
Order: 06247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix					
B31,35-2	Ian Stevenson	11/26/07@	Solid					
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	1.4	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2387

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Lab Director, Michael Ng



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Log Number: 07-C15333
Order: O6247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B30,32,34-0	Ian Stevenson	11/26/07a		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
pH	7.0	0.1	1	pH units	EPA 9045	12/12/07		2447
Lead	36	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2387

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15334
Order: O6247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B30,32,34-1	Ian Stevenson	11/26/07@		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	23	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2387

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15335
Order: O6247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B30,32-2	Ian Stevenson	11/26/07a		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	Not Detected	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2387

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15336
Order: O6247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B36,37,38,39-0	Ian Stevenson	11/26/07@		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	24	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2387

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15337
Order: O6247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B36,37,38,39-1	Ian Stevenson	11/26/07a		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	32	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2387

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15338
Order: O6247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B36,37,38,39-2	Ian Stevenson	11/26/07a		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	1.3	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2387

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15339
Order: O6247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B40,41,42-0	Ian Stevenson	11/26/07a		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	14	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2387

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15340
Order: O6247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B40,41,42-1	Ian Stevenson	11/26/07a		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	20	1	2	mg/Kg	EPA 6020	12/13/07	12/11/07	2510

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15341
Order: O6247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B40,41,42-2	Ian Stevenson	11/26/07@		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	Not Detected	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2387

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15342
Order: 06247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B43,44,45-0	Ian Stevenson	11/26/07a		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	140	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2389

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15343
Order: O6247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B43,44,45-1	Ian Stevenson	11/26/07a		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	8.9	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2389

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15344
Order: O6247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B43-2	Ian Stevenson	11/26/07@		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead	Not Detected	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2389

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15345
Order: 06247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
PC-1 (Paint Chip)	Ian Stevenson	11/26/07@		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Chromium	4.1	1	2	mg/Kg	EPA 6020	12/12/07	12/11/07	2515
Lead	4.6	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2389

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Log Number: 07-C15346
Order: 06247
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 11/29/07
Printed: 12/13/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
PC-4 (Paint Chip)	Ian Stevenson	11/27/07@		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Chromium	180	1	2	mg/Kg	EPA 6020	12/12/07	12/11/07	2515
Lead	450	1	2	mg/Kg	EPA 6020	12/06/07	12/05/07	2389

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Lab Director, Michael Ng



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Quality Control Results

Page 36

Order No.: 06247

Laboratory Reagent Blank

Analyte	Method	Results	Units	Batch
Lead	EPA 6020	< 1	mg/Kg	2382
Lead	EPA 6020	< 1	mg/Kg	2385
Lead	EPA 6020	< 1	mg/Kg	2387
Lead	EPA 6020	< 1	mg/Kg	2389
Lead	EPA 6020	< 1	mg/Kg	2510
Lead	EPA 6020	< 1	mg/Kg	2510
Lead	EPA 6020	< 1	mg/Kg	2510
Lead	EPA 6020	< 1	mg/Kg	2510
Lead	EPA 6020	< 1	mg/Kg	2510

Laboratory Known Analysis (LCS)

Analyte	Method	Recovery	Spike Amount	Units	Recovery Limits	Batch
pH	EPA 9045	100%	7.0	pH units	90 - 110	2447
Chromium	EPA 6020	94%	73	mg/Kg	60 - 140	2515
Lead	EPA 6020	92%	130	mg/Kg	60 - 140	2382
Lead	EPA 6020	94%	130	mg/Kg	60 - 140	2510

Matrix Spike/Matrix Spike Duplicates

Analyte	Method	MS	MSD	Matrix	Spike	Units	Recovery Limits	RPD	Batch
		Rec.	Rec.	Sample	Amount			Limit	
Chromium	EPA 6020	95%	95%	07-C15424	50	mg/Kg	60 - 140	30	2515
Lead	EPA 6020	78%		07-C15320	50	mg/Kg	60 - 140	30	2385
Lead	EPA 6020	86%		07-C15330	50	mg/Kg	60 - 140	30	2385
Lead	EPA 6020	51%		07-C15340	50	mg/Kg	60 - 140	30	2389
Lead	EPA 6020	70%		07-C15350	50	mg/Kg	60 - 140	30	2389
Lead	EPA 6020	51%		07-C15375	50	mg/Kg	60 - 140	30	2510
Lead	EPA 6020	82%		07-C15386	50	mg/Kg	60 - 140	30	2510
Lead	EPA 6020	31%		07-C15394	50	mg/Kg	60 - 140	30	2510
Lead	EPA 6020	59%		07-C15340	50	mg/Kg	60 - 140	30	2510

Sample Duplicate

Analyte	Method	Sample ID	Sample	Sample	RPD	Units	RPD Limit	Batch
			Value	Duplicate				
pH	EPA 9045	07-C15360	6.9	6.9	0	pH units	10.	2447
Lead	EPA 6020	07-C15321	73	62	16	mg/Kg	30.	2382
Lead	EPA 6020	07-C15331	23	18	25	mg/Kg	30.	2385
Lead	EPA 6020	07-C15341	< 1	< 1	0	mg/Kg	30.	2387
Lead	EPA 6020	07-C15351	2.1	1.6	27	mg/Kg	30.	2389
Lead	EPA 6020	07-C15376	46	32	37	mg/Kg	30.	2510
Lead	EPA 6020	07-C15385	< 1	< 1	0	mg/Kg	30.	2510
Lead	EPA 6020	07-C15393	32	32	2	mg/Kg	30.	2510

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Order # 06247

10F 4

5 days

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Client Name Geocon Consultants		Contact - Ian Stevenson		Phone 916-852-9118		Due Date: 24Hr 48Hr Other <u>Normal TAT</u>	
Address 3160 Gold Valley Drive #800 Project Name/Number Highway 50 SI/S9300-06-22		City Rancho Cordova		State CA		Cell 916-869-4308 Beeper Copies To:	
Bill to: (if different from above)		Address		City		State Zip	
Sampler Name (Print) Ian Stevenson		Comments: Phase I		Matrix Key: DW = Drinking Water AQ = Aqueous SL = Soil/Solid			

Sample Description	Date/Time Sampled	Analysis	# of Matrix Bottles	Preservative / Type Bottles	Creek Lab Sample #
B1, 3, 5, 7 - 0	11/26/07	Total Lead 6010B	4	None - 5 bag	15312
B1, 3, 7 - 1			3		15313
B1, 3, 7 - 2			3		15314
B2, 4, 6, 8 - 0			3		15315
B2, 4, 6, 8 - 1		Total Lead 6010B, pH	4		15316
B2, 4, 6, 8 - 2		Total Lead 6010B	4		15317
B9, 11, 13, 15 - 0			4		15318
B9, 11, 13, 15 - 1			4		15319
B9, 11, 13, 15 - 2			4		15320

RELINQUISHED BY		RECEIVED BY	
(Sign)	(Print)	(Sign)	(Print)
<i>[Signature]</i>	Ian Stevenson Geocon	<i>[Signature]</i>	Creek Environmental Laboratories, Inc.
FOR LAB USE ONLY: Shipping Method: Client/ Lab/ Courier:		Sample Conditions: Temp: <u>56</u> Intact: <u>YN</u> Custody Sealed: <u>YN</u>	
REMARKS Composite samples per lwr 1/24/07 Geo Method 6020 cking but report all of 1 mg/kg			

Creek Environmental Laboratories, Inc.

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Order # 06247

20 of 4 3 days

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Client Name Geocon Consultants		Contact - Ian Stevenson		Phone 916-852-9118		Due Date: 24Hr 48Hr Other (Normal TAT)	
Address 3160 Gold Valley Drive #800 Project Name/Number Highway 50 S/S9300-06-22		City Rancho Cordova		State CA CA		Cell 916-869-4308 Beeper Copies To:	
Bill to: (if different from above)		Address		City		State Zip	
Sampler Name (Print) Ian Stevenson		Comments: Phase I		Matrix Key: DW = Drinking Water AQ = Aqueous SL = Soil/Solid			

Sample Description	Date/Time Sampled	Analysis	# of Matrix Bottles	Preservative / Type Bottles	Creek Lab Sample #
B10, 12, 14 - 0	11/26/07	Total Lead 6010B	3	none bags	153221
B10, 12, 14 - 1		Total Lead 6010B	3		153222
B10, 12, 14 - 2			2		153223
B21, 23, 25, 27 - 0			4		153224
B21, 23, 25, 27 - 1			4		153225
B21, 23, 25 - 27 - 2		Total Lead 6010B, pH	4		153226
B22, 24, 26, 28 - 0		Total Lead 6010B	4		153227
B22, 26, 28 - 1			3		153228
B22, 28 - 2			2		153229

RELINQUISHED BY (Sign)	DATE/TIME (Sign)	RECEIVED BY (Sign)	DATE/TIME (Print)	RELINQUISHED BY (Print)	DATE/TIME (Print)	RECEIVED BY (Print)	RELINQUISHED BY (Organization)	DATE/TIME (Print)	RECEIVED BY (Organization)
<i>Ian Stevenson</i>	11/29/07 11/30	<i>Ian Stevenson</i>	11/29/07 11/30	<i>Ian Stevenson</i>	11/29/07 11/30	<i>Ian Stevenson</i>	Creek Environmental Laboratories, Inc.	11/29/07 11/30	Creek Environmental Laboratories, Inc.
FOR LAB USE ONLY: Shipping Method: Client/ Lab/ Courier: <i>(Signature)</i>		Sample Conditions: Temp: 78 Intact: Y/N		Custody Sealed: Y/N					
REMARKS									

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Order # 06247

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30F 9

5 day

Client Name Geocon Consultants		Contact - Ian Stevenson		Phone 916-852-9118		Due Date: 24Hr 48Hr Other <u>Normal TAT</u>	
Address 3160 Gold Valley Drive #800 Project Name/Number Highway 50 SI/S9300-06-22		City Rancho Cordova		State CA CA		Cell 916-869-4308 Beeper Copies To:	
Bill to: (if different from above)		Address		City		State Zip	

Sampler Name (Print) Ian Stevenson
 Comments: Phase I
 Matrix Key: DW = Drinking Water
 AQ = Aqueous SL = Soil/Solid

Sample Description	Date/Time Sampled	Analysis	Matrix Bottles	Preservative / Type Bottles	Creek Lab Sample #
B29, 31, 33, 35-0	11/26/07	Total Lead <u>6010B</u>	S 4	none bag 51E	15330
B29, 31, 35-1			S 3		15331
B31, 35-2			S 2		15332
B30, 32, 34-0		Total Lead <u>6010B, pH</u>	S 3		15333
B30, 32, 34-1		Total Lead <u>6010B</u>	S 3		15334
B30, 32-2			S 2		15335
B36, 37, 38, 39-0			S 4		15336
B36, 37, 38, 39-1			S 4		15337
B36, 37, 38, 39-2			S 4		15338

RELINQUISHED BY		RECEIVED BY	
(Sign)	(Print)	(Sign)	(Print)
<u>[Signature]</u>	Ian Stevenson	<u>[Signature]</u>	Creek Environmental Laboratories, Inc.
FOR LAB USE ONLY: Shipping Method: Client/ Lab/ Courier:		Sample Conditions: Temp: <u>50°F</u> Intact: <u>Y/N</u> Custody Sealed: <u>Y/N</u>	
REMARKS			

Creek Environmental Laboratories, Inc.

Chain-of-Custody

141 Suburban Road, Suite C-5, San Luis Obispo, CA 93401 phone (805) 545-9838 fax (805) 545-0107 www.creeklabs.com sales@creeklabs.com

Order # 06247

#0F4 5 day

Please Print in Pen

Client Name Geocon Consultants		Contact - Ian Stevenson		Phone 916-852-9118		Due Date: 24Hr 48Hr Other <u>Normal/TAT</u>	
Address 3160 Gold Valley Drive #800 Rancho Cordova Project Name/Number Highway 50 SI/S9300-06-22		State CA CA Zip 95742		Fax 916-852-9132		Cell 916-869-4308 Beeper Copies To:	
Bill to: (if different from above)		Address		City		State Zip	
Sampler Name (Print) Ian Stevenson		Comments: Phase 1		Matrix Key: DW = Drinking Water AQ = Aqueous SL = Soil/Solid			

Sample Description	Date/Time Sampled	Analysis	Matrix Bottles	Preservative / Type Bottles	Creek Lab Sample #
B40, 41, 42 - 0		Total Lead 6010B	S 3	none - bags	15339
B40, 41, 42 - 1			S 3		15340
B40, 41, 42 - 2			S 3		15341
B43, 44, 45 - 0			S 3		15342
B43, 44, 45 - 1			S 3		15343
B43 - 2			S 1		15344
PC-1 (Paint chip)	1/26/0946	Total Lead / Chromium 6010B	S		15345
PC-4 (Paint chip)	1/27/1012		S		15346

RELINQUISHED BY		DATE/TIME		RECEIVED BY	
(Sign)	(Print)	(Sign)	(Print)	(Sign)	(Organization)
<i>[Signature]</i>	Tan Stevenson	<i>[Signature]</i>	11/29/07	<i>[Signature]</i>	Creek Environmental Laboratories, Inc.
FOR LAB USE ONLY: Shipping Method: Client/ Lab/ Courier:		Temp: 26 Intact Y/N		Custody Sealed: Y(N)	
REMARKS					



CREEK ENVIRONMENTAL LABORATORIES, INC.

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Ian Stevenson
Geocon Consultants
3160 Gold Valley Drive #800
Rancho Cordova, CA 95742

Log Number: 07-C16193
Order: 06615
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 12/17/07
Printed: 12/31/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B1,3,5,7-0 (15312)		11/26/07@		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead, STLC extract	2.6	0.04	1	mg/L	EPA 6020	12/27/07	12/26/07	3024

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng



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Ian Stevenson
Geocon Consultants
3160 Gold Valley Drive #800
Rancho Cordova, CA 95742

Log Number: 07-C16194
Order: 06615
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 12/17/07
Printed: 12/31/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix					
B10,12,14-0 (15321)		11/26/07a	Solid					
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead, STLC extract	2.2	0.04	1	mg/L	EPA 6020	12/27/07	12/26/07	3024

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Lab Director, Michael Ng



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Ian Stevenson
Geocon Consultants
3160 Gold Valley Drive #800
Rancho Cordova, CA 95742

Log Number: 07-C16195
Order: O6615
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 12/17/07
Printed: 12/31/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B12,14-2 (15323)		11/26/07@		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead, STLC extract	9.6	0.04	1	mg/L	EPA 6020	12/27/07	12/26/07	3024

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng



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Rancho Cordova, CA 95742

Log Number: 07-C16196
Order: 06615
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 12/17/07
Printed: 12/31/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B43,44,45-0 (15342)		11/26/07@		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead, STLC extract	8.0	0.04	1	mg/L	EPA 6020	12/27/07	12/26/07	3024

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Lab Director, Michael Ng



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3160 Gold Valley Drive #800
Rancho Cordova, CA 95742

Log Number: 07-C16197
Order: 06615
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 12/17/07
Printed: 12/31/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix
B50,52,54,56-0 (15352)		11/27/07a	Solid

Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead, STLC extract	2.2	0.04	1	mg/L	EPA 6020	12/27/07	12/26/07	3024

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

Lab Director, Michael Ng



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Log Number: 07-C16198
Order: 06615
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 12/17/07
Printed: 12/31/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix					
B59,61,63,65-0 (15361)		11/27/07a	Solid					
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead, STLC extract	6.0	0.04	1	mg/L	EPA 6020	12/27/07	12/26/07	3024

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Lab Director, Michael Ng



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Log Number: 07-C16199
Order: 06615
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 12/17/07
Printed: 12/31/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time	Matrix					
B66,68,70,72-0 (15364)		11/27/07@	Solid					
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead, STLC extract	5.0	0.04	1	mg/L	EPA 6020	12/27/07	12/26/07	3024

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

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Lab Director, Michael Ng



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Rancho Cordova, CA 95742

Log Number: 07-C16200
Order: 06615
Project: HWY 50 SI/S9300-06-22 Phase 1
Received: 12/17/07
Printed: 12/31/07

REPORT OF ANALYTICAL RESULTS

Sample Description	Sampled By	Sampled Date @ Time		Matrix				
B-93,95,97,99-0 (15387)		11/27/07a		Solid				
Analyte	Result	DLR	Dilution Factor	Units	Method	Date Analyzed	Date Prepared	Batch
Lead, STLC extract	2.9	0.04	1	mg/L	EPA 6020	12/27/07	12/26/07	3024

DLR = Detection Limit for Reporting. Results of "Not Detected" are below DLR.

CREEK ENVIRONMENTAL LABORATORIES

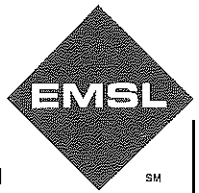
Lab Director, Michael Ng



EMSL Analytical, Inc

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Attn: **Ian Stevenson**
Geocon Consultants
3160 Gold Valley Dr.
Suite 800
Rancho Cordova, CA 95742

Customer ID: GECN80
Customer PO: S9300-06-22
Received: 11/30/07 9:00 AM
EMSL Order: 090707082

Fax: (916) 852-9132 Phone: (916) 852-9118
Project: **S9300-06-22, Highway 50 SI**


EMSL Proj: 03A1368
Analysis Date: 12/7/2007
Report Date: 12/7/2007

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

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
NOA1 COMPOSITE: NOA31-0,32-0,33- 0,34-0,35-0,36-0.. 090707082-0001	37-0,38-0,39-0,40- 0,41-0,42-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Tremolite
NOA2 COMPOSITE: NOA31-2,32-2,35- 2,36-2,37-2,38-2.. 090707082-0002	39-2,40-2,41-2,42-2	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Tremolite
NOA3 COMPOSITE: NOA1-0,2-0,3-0,4- 0,5-0,6-0,7-0.. 090707082-0003	24-0,25-0,26-0,27- 0,28-0,29-0,30-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Tremolite
NOA4 COMPOSITE: NOA1-2,2-2,3-2,4- 2,6-2,7-2 090707082-0004	25-2,27-2,28-2,30-2	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA5 COMPOSITE: NOA8-0,9-0,10- 0,11-0,12-0,13-0 090707082-0005	14-0,15-0,21-0,22- 0,23-0,43-0,44-0,45-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Tremolite

Analyst(s)

Nonette Patron (6)


Baojia Ke, Laboratory Manager
or other approved signatory

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Attn: **Ian Stevenson**
Geocon Consultants
3160 Gold Valley Dr.
Suite 800
Rancho Cordova, CA 95742

Customer ID: GECN80
Customer PO: S9300-06-22
Received: 11/30/07 9:00 AM
EMSL Order: 090707082

Fax: (916) 852-9132 Phone: (916) 852-9118
Project: **S9300-06-22, Highway 50 SI**


EMSL Proj: 03A1368
Analysis Date: 12/7/2007
Report Date: 12/7/2007

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

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
NOA6	15-2,21-2,22-2,23-	Brown		100.00% Non-fibrous (other)	None Detected
COMPOSITE:	2,43-2	Non-Fibrous			
NOA8-2,9-2,11- 2,12-2,13-2,14-2 090707082-0006		Homogeneous			

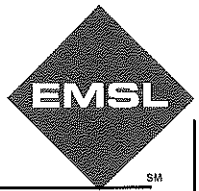
Analyst(s)

Nonette Patron (6)



Baojia Ke, Laboratory Manager
or other approved signatory

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EMSL Analytical, Inc.

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Client: Geocon Consultants
3160 Gold Valley Drive
Suite 800
Rancho Cordova, CA 95742

EMSL Reference: 090707082

Attention: Ian Stevenson
Fax: (916) 852-9132 **Phone:** (916) 852-9118
Project: S9300-06-22, Highway 50 SI

Date Received: 11/30/07
Date Analyzed: 12/07/07
Date Reported: 12/07/07

Asbestos Analysis of Soil Samples via Modified EPA 600/R-93/116 Method Utilizing Analytical Electron Microscopy (Section 2.5.5.2) with CARB 435 Prep (Milling) Level C for 0.01% Target Analytical Sensitivity

<i>Client Sample ID</i>	<i>EMSL Sample ID</i>	<i>Asbestos Type(s)</i>	<i># of Asbestos Structures Detected</i>	<i>Analytical Sensitivity %</i>	<i>Asbestos Weight %</i>	<i>Comments</i>
NOA6 COMPOSIT E: NOA8- 2,9-2,11- 2,12-2,13- 2,14-2	090707082-0006	Chrysotile	6	0.01	< 0.01	

Approved EMSL Signatory

EMSL maintains liability limited to cost of analysis. This method requires the laboratory to analyze the sample until the first fiber found compromises 5% of the total mass. Due to the size and mass of different asbestos fibers, the analytical sensitivity will vary between samples and may prevent the laboratory from achieving the target sensitivity on all samples. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL is not responsible for sample collection activities or analytical method limitations. Interpretation and use of results are the responsibility of the client.



Chain of Custody

Asbestos Lab Services

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 San Leandro,
 CA 94577
 Phone: (510) 895-3675 (888) 455-3675
 Fax: (510) 895-3680
<http://www.emsl.com>

Please print all information legibly.

Company:	Geocon Consultants	Bill To:	Geocon Consultants
Address1:	3160 Gold Valley Drive #800	Address1:	3160 Gold Valley Drive #800
Address2:		Address2:	
City, State:	Rancho Cordova, CA	City, State:	Rancho Cordova, CA
Zip/Post Code:	95754	Zip/Post Code:	95754
Country:		Country:	
Contact Name:	Ian Stevenson	Attn:	Ian Stevenson
Phone:	916-852-9118	Phone:	916-852-9118
Fax:	916-852-9132	Fax:	916-852-9132
Email:	stevenson@geoconinc.com	Email:	stevenson@geoconinc.com
EMSL Rep:		P.O. Number:	
Project Name/Number: <i>Highway 50 SI 59300-06-22</i>			

MATRIX			TURNAROUND			
<input type="checkbox"/> Air	<input checked="" type="checkbox"/> Soil	<input type="checkbox"/> Micro-Vac	<input type="checkbox"/> 3 Hours	<input type="checkbox"/> 6 Hours	<input type="checkbox"/> Same Day or 12 Hours*	<input type="checkbox"/> 24 Hours (1 day)
<input type="checkbox"/> Bulk	<input type="checkbox"/> Drinking Water		<input type="checkbox"/> 48 Hours (2 days)	<input type="checkbox"/> 72 Hours (3 days)	<input type="checkbox"/> 96 Hours (4 days)	<input checked="" type="checkbox"/> 120 Hours (5 days)
<input type="checkbox"/> Wipe	<input type="checkbox"/> Wastewater		<input type="checkbox"/> 144+ hours (6-10 days)			

TEM AIR, 3 hours, 6 hours, Please call ahead to schedule. There is a premium charge for 3-hour tat, please call 1-800-220-3675 for price prior to sending samples. You will be asked to sign an authorization form for this service.

*12 hours (must arrive by 11:00a.m. Mon -Fri.), Please Refer to Price Quote

<p>PCM - Air</p> <input type="checkbox"/> NIOSH 7400(A) Issue 2: August 1994 <input type="checkbox"/> OSHA w/TWA <input type="checkbox"/> Other:	<p>TEM Air</p> <input type="checkbox"/> AHERA 40 CFR, Part 763 Subpart E <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II	<p>TEM WATER</p> <input type="checkbox"/> EPA 100.1 <input type="checkbox"/> EPA 100.2 <input type="checkbox"/> NYS 198.2
<p>PLM - Bulk</p> <input type="checkbox"/> EPA 600/R-93/116 <input type="checkbox"/> EPA Point Count <input type="checkbox"/> NY Stratified Point Count <input type="checkbox"/> PLM NOB (Gravimetric) NYS 198.1 <input type="checkbox"/> NIOSH 9002: <input type="checkbox"/> EMSL Standard Addition:	<p>TEM BULK</p> <input type="checkbox"/> Drop Mount (Qualitative) <input type="checkbox"/> Chatfield SOP - 1988-02 <input type="checkbox"/> TEM NOB (Gravimetric) NYS 198.4 <input type="checkbox"/> EMSL Standard Addition:	<p>TEM Microvac/Wipe</p> <input type="checkbox"/> ASTM D 5755-95 (quantative method) <input type="checkbox"/> Wipe Qualitative
<p>SEM Air or Bulk</p> <input type="checkbox"/> Qualitative <input type="checkbox"/> Quantitative	<p>PLM Soil</p> <input type="checkbox"/> EPA Protocol Qualitative <input type="checkbox"/> EPA Protocol Quantitative <input type="checkbox"/> EMSL MSD 9000 Method fibers/gram	<p>XRD</p> <input type="checkbox"/> Asbestos <input type="checkbox"/> Silica NIOSH 7500
<p>OTHER</p> <input checked="" type="checkbox"/> <i>CARB 435</i>		

Boys CURBS

See following pages for Level

90707082



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Asbestos Lab Services

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 Suite 230
 2235 Polvorosa Ave
 San Leandro,
 CA 94577
 Phone: (510) 895-
 3675 (888) 455-3675
 Fax: (510) 895-3680
<http://www.emsl.com>

Please print all information legibly.

Client Sample # (s) NOA1 - NOA6
 Relinquished: [Signature] Date: 11/28/07
 Received: UPS Date: _____
 Relinquished: [Signature] Date: 11/30
 Received: _____ Date: _____

Total Samples #: 6
 Time: 1230
 Time: _____
 Time: 9am UPS
 Time: _____

Composite As Indicated.

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
1 NOA 1	NOA31-0, NOA32-0, NOA33-0	
	NOA34-0, NOA35-0, NOA36-0	
	NOA37-0, NOA38-0, NOA39-0	
	NOA40-0, NOA41-0, NOA42-0	
2 NOA 2	NOA31-2, NOA32-2, NOA35-2,	
	NOA36-2, NOA37-2, NOA38-2,	
	NOA39-2, NOA40-2, NOA41-2,	
	NOA42-2	
3 NOA 3	NOA1-0, NOA2-0, NOA3-0, NOA4-0	
	NOA5-0, NOA6-0, NOA7-0, NOA24-0	
	NOA25-0, NOA26-0, NOA27-0, NOA28-0	
	NOA29-0, NOA30-0	

Level
A

19
A/B

A

90707082



Chain of Custody

Asbestos Lab Services

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 San Leandro,
 CA 94577
 Phone: (510) 895-
 3675 (888) 455-3675
 Fax: (510) 895-3680
<http://www.emsl.com>

Please print all information legibly.

Client Sample # (s) NOA1 - NOA6
 Relinquished: [Signature] Date: 11/28/07
 Received: UPS Date: _____
 Relinquished: [Signature] Date: 11/30
 Received: _____ Date: _____

Total Samples #: 6
 Time: 1230
 Time: _____
 Time: 9am UPS
 Time: _____

Composite As Indicated

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)	Level
4 NOA 4	NOA1-2, NOA2-2, NOA3-2, NOA4-2, NOA6-2, NOA7-2, NOA25-2, NOA27-2, NOA28-2, NOA30-2		A
5 NOA 5	NOA8-0, NOA9-0, NOA10-0, NOA11-0, NOA12-0, NOA13-0, NOA14-0, NOA15-0, NOA21-0 NOA22-0, NOA23-0, NOA43-0 NOA44-0, NOA45-0		A
6 NOA 6	NOA8-2, NOA9-2, NOA11-2, NOA2-2 NOA13-2, NOA14-2, NOA15-2, NOA21-2 NOA22-2, NOA23-2, NOA43-2		A/c



EMSL Analytical, Inc

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

Attn: **Ian Stevenson**
Geocon Consultants
3160 Gold Valley Dr.
Suite 800
Rancho Cordova, CA 95742

Customer ID: GECN80
Customer PO: S9300-06-22
Received: 01/22/08 11:30 AM
EMSL Order: 090800637

Fax: (916) 852-9132 Phone: (916) 852-9118
Project: **S9300-06-22, Highway 50 SI, Phase 2**


EMSL Proj: S9300-06-**
Analysis Date: 2/4/2008
Report Date: 2/4/2008

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

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
NOA1 COMPOSITE <i>090800637-0001</i>	NOA16-0, 17-0, 18-0, 19-0, 20-0, 182-0, 181-0	Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA2 COMPOSITE <i>090800637-0002</i>	NOA18-2, 20-2, 182- 2, 181-2	Yellow Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA3 COMPOSITE <i>090800637-0003</i>	NOA50-0, 51-0, 52-0, 177-0, 178-0, 179-0, 180-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA4 COMPOSITE <i>090800637-0004</i>	NOA50-2, 51-2, 52-2, 177-2, 178-2, 179-2, 180-2	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA5 COMPOSITE <i>090800637-0005</i>	NOA53-0, 54-0, 55-0, 56-0, 174-0, 175-0, 176-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA6 COMPOSITE <i>090800637-0006</i>	NOA55-2, 176-2	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA7 COMPOSITE <i>090800637-0007</i>	NOA57-0, 58-0, 59-0, 60-0, 61-0, 170-0, 171-0, 172	Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA8 COMPOSITE <i>090800637-0008</i>	NOA57-2, 58-2, 170- 2, 171-2, 172-2, 173-2	Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected

Analyst(s)

Jason McGriff (11)
Yulia Grozman (8)


Baojia Ke, Laboratory Manager
or other approved signatory

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EMSL Analytical, Inc

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

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

Attn: **Ian Stevenson**
Geocon Consultants
3160 Gold Valley Dr.
Suite 800
Rancho Cordova, CA 95742

Customer ID: GECN80
Customer PO: S9300-06-22
Received: 01/22/08 11:30 AM
EMSL Order: 090800637

Fax: (916) 852-9132 Phone: (916) 852-9118
Project: **S9300-06-22, Highway 50 SI, Phase 2**

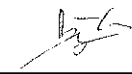
EMSL Proj: S9300-06-**
Analysis Date: 2/4/2008
Report Date: 2/4/2008

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

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
NOA9 COMPOSITE <i>090800637-0009</i>	NOA62-0, 63-0, 64-0, 167-0, 168-0, 169-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA10 COMPOSITE <i>090800637-0010</i>	NOA62-2, 63-2, 64-2, 167-2, 168-2, 169-2	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA11 COMPOSITE <i>090800637-0011</i>	NOA65-0, 66-0, 67-0, 68-0, 162-0, 163-0, 164-0. 16	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA12 COMPOSITE <i>090800637-0012</i>	NOA66-2, 67-2, 68-2, 162-2, 163-2, 164-2, 165-2. 1	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA13 COMPOSITE <i>090800637-0013</i>	NOA69-0, 70-0, 71-0, 72-0, 154-0, 155- 0. 160-0. 161-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA14 COMPOSITE <i>090800637-0014</i>	NOA69-2, 70-2, 71-2, 72-2, 154-2, 155-2, 161-2	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA15 COMPOSITE <i>090800637-0015</i>	NOA73-0, 74-0, 75-0, 76-0, 151-0, 152-0, 153-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA16 COMPOSITE <i>090800637-0016</i>	NOA73-2, 74-2, 75-2, 76-2, 151-2, 153-2	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected

Analyst(s)

Jason McGriff (11)
Yulia Grozman (8)


Baojia Ke, Laboratory Manager
or other approved signatory

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Customer ID: GECN80
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EMSL Order: 090800637

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Project: **S9300-06-22, Highway 50 SI, Phase 2**

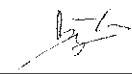
EMSL Proj: S9300-06-**
Analysis Date: 2/4/2008
Report Date: 2/4/2008

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

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
NOA17 COMPOSITE 090800637-0017	NOA77-0, 78-0, 79-0, 80-0, 147-0, 148- 0.149-0.150-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA18 COMPOSITE 090800637-0018	NOA72-2, 78-2, 79-2, 80-2, 147-2, 148- 2.149-2.150-2	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA19 COMPOSITE 090800637-0019	NOA81-0, 82-0, 83-0, 84-0, 142-0, 143-0, 144- 0.146-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA20 COMPOSITE 090800637-0020	NOA81-2, 82-2, 83-2, 84-2, 192-2, 193- 2.144-2.146-2	Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA21 COMPOSITE 090800637-0021	NOA85-0, 86-0, 87-0, 88-0, 138-0, 139- 0.140-0.141-0	Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA22 COMPOSITE 090800637-0022	NOA-85-2, 86-2, 87- 2, 88-2, 182-2, 138- 2.140-2.141-2	Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA23 COMPOSITE 090800637-0023	NOA89-0, 90-0, 91-0, 134-0, 135-0, 136-0, 137-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA24 COMPOSITE 090800637-0024	NOA89-2, 91-2, 134- 2, 136-2, 137-2	Yellow Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile

Analyst(s)

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Yulia Grozman (8)


Baojia Ke, Laboratory Manager
or other approved signatory

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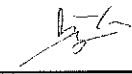
EMSL Proj: S9300-06-**
Analysis Date: 2/4/2008
Report Date: 2/4/2008

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

Sample	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
NOA25 COMPOSITE 090800637-0025	NOA46-0, 47-0, 48-0, 49-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA26 COMPOSITE 090800637-0026	NOA46-2, 47-2, 48-2, 49-2	Yellow Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA27 COMPOSITE 090800637-0027	NOA187-0, 188-0, 189-0, 190-0	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA28 COMPOSITE 090800637-0028	NOA187-2, 188-2, 189-2, 190-2	Gray Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA183 090800637-0029	Rock chip	Grayish Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected

Analyst(s)

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Yulia Grozman (8)


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or other approved signatory

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Chain of Custody

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 Fax: (510) 895-3680
<http://www.emsl.com>

Please print all information legibly.

Company:	Geocon Consultants	Bill To:	Geocon Consultants
Address1:	3160 Gold Valley Drive #800	Address1:	3160 Gold Valley Drive #800
Address2:		Address2:	
City, State:	Rancho Cordova, CA	City, State:	Rancho Cordova, CA
Zip/Post Code:	95754	Zip/Post Code:	95754
Country:		Country:	
Contact Name:	Ian Stevenson	Attn:	Ian Stevenson
Phone:	916-852-9118	Phone:	916-852-9118
Fax:	916-852-9132	Fax:	916-852-9132
Email:	stevenson@geoconinc.com	Email:	stevenson@geoconinc.com
EMSL Rep:		P.O. Number:	
Project Name/Number: Highway 50 SI 59300-06-22 Phase 2			

MATRIX			TURNAROUND			
<input type="checkbox"/> Air	<input checked="" type="checkbox"/> Soil	<input type="checkbox"/> Micro-Vac	<input type="checkbox"/> 3 Hours	<input type="checkbox"/> 6 Hours	<input type="checkbox"/> Same Day or 12 Hours*	<input type="checkbox"/> 24 Hours (1 day)
<input type="checkbox"/> Bulk	<input type="checkbox"/> Drinking Water		<input type="checkbox"/> 48 Hours (2 days)	<input type="checkbox"/> 72 Hours (3 days)	<input type="checkbox"/> 96 Hours (4 days)	<input type="checkbox"/> 120 Hours (5 days)
<input type="checkbox"/> Wipe	<input type="checkbox"/> Wastewater		<input checked="" type="checkbox"/> 144+ hours (6-10 days)			

TEM AIR, 3 hours, 6 hours, Please call ahead to schedule. There is a premium charge for 3-hour tat, please call 1-800-220-3675 for price prior to sending samples. You will be asked to sign an authorization form for this service.

*12 hours (must arrive by 11:00a.m. Mon -Fri), Please Refer to Price Quote

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<p>PCM - Air</p> <input type="checkbox"/> NIOSH 7400(A) Issue 2: August 1994 <input type="checkbox"/> OSHA w/TWA <input type="checkbox"/> Other:	<p>TEM Air</p> <input type="checkbox"/> AHERA 40 CFR, Part 763 Subpart E <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II	<p>TEM WATER</p> <input type="checkbox"/> EPA 100.1 <input type="checkbox"/> EPA 100.2 <input type="checkbox"/> NYS 198.2
<p>PLM - Bulk</p> <input type="checkbox"/> EPA 600/R-93/116 <input type="checkbox"/> EPA Point Count <input type="checkbox"/> NY Stratified Point Count <input type="checkbox"/> PLM NOB (Gravimetric) NYS 198.1 <input type="checkbox"/> NIOSH 9002: <input type="checkbox"/> EMSL Standard Addition:	<p>TEM BULK</p> <input type="checkbox"/> Drop Mount (Qualitative) <input type="checkbox"/> Chatfield SOP - 1988-02 <input type="checkbox"/> TEM NOB (Gravimetric) NYS 198.4 <input type="checkbox"/> EMSL Standard Addition:	<p>TEM Microvac/Wipe</p> <input type="checkbox"/> ASTM D 5755-95 (quantative method) <input type="checkbox"/> Wipe Qualitative
<p>SEM Air or Bulk</p> <input type="checkbox"/> Qualitative <input type="checkbox"/> Quantitative	<p>PLM Soil</p> <input type="checkbox"/> EPA Protocol Qualitative <input type="checkbox"/> EPA Protocol Quantitative <input type="checkbox"/> EMSL MSD 9000 Method fibers/gram	<p>XRD</p> <input type="checkbox"/> Asbestos <input type="checkbox"/> Silica NIOSH 7500
<p>Received at EMSL Analytical, Inc. San Leandro, CA (888) 455-3675</p>		
<p>OTHER</p> <input checked="" type="checkbox"/> CARB 435		

By: *[Signature]*
 Date: 1/26/07 @ 11:30am

See following pages for level.

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Phase 2 Chain of Custody

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Fax: (510) 895-3680
<http://www.emsl.com>

Please print all information legibly.

Client Sample # (s) NOA 134-183, NOA 191-194, NOA 187-190

Total Samples #: 29 (185)

Relinquished: [Signature] Date: 1/22/08

Time: 0934

Received: [Signature] Date: 1/22/08

Time: 11:30am P/U

Relinquished: _____ Date: _____

Time: _____

Received: _____ Date: _____

Time: _____

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)	Level
NOA 1	NOA 16-0, NOA 17-0, NOA 18-0, NOA 19-0, NOA 20-0, NOA 182-0, NOA 183-0		A
NOA 2	NOA 18-2, NOA 20-2, NOA 182-2, NOA 181-2		A
NOA 3	NOA 50-0, NOA 51-0, NOA 52-0 NOA 177-0, NOA 178-0, NOA 179-0, NOA 180-0		A
NOA 4	NOA 50-2, NOA 51-2, NOA 52-2 NOA 177-2, NOA 178-2, NOA 179-2, NOA 180-2		A
NOA 5	NOA 53-0, NOA 54-0, NOA 55-0 NOA 56-0, NOA 174-0, NOA 175-0 NOA 176-0		A

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Fax: (510) 895-3680
<http://www.emsl.com>

Please print all information legibly.

Client Sample # (s) NOA 134-183, NOA 187-194

Total Samples #: 29/185

Relinquished: [Signature] Date: 1/22/08

Time: 0934

Received: [Signature] Date: 1/22/08

Time: 11:30 am

Relinquished: _____ Date: _____

Time: _____

Received: _____ Date: _____

Time: _____

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)	Level
NOA 6	NOA 55-2, NOA 176-2		A
NOA 7	NOA 57-0, NOA 58-0, NOA 59-0 NOA 60-0, NOA 61-0, NOA 170-0 NOA 171-0, NOA 172-0, NOA 173-0		A
NOA 8	NOA 57-2, NOA 58-2, NOA 170-2 NOA 171-2, NOA 172-2, NOA 173-2		A
NOA 9	NOA 62-0, NOA 63-0, NOA 64-0 NOA 167-0, NOA 168-0, NOA 169-0		A
NOA 10	NOA 62-2, NOA 63-2, NOA 64-2 NOA 167-2, NOA 168-2, NOA 169-2		A

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3567



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 Fax: (510) 895-3680
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Please print all information legibly.

Client Sample # (s) NOA 134-153, NOA 187-194

Total Samples #: 29/185

Relinquished: [Signature] Date: 1/22/08

Time: 0834

Received: [Signature] Date: 1/22/08

Time: 11:30 am PW

Relinquished: _____ Date: _____

Time: _____

Received: _____ Date: _____

Time: _____

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
NOA 11	NOA 65-0, NOA 66-0, NOA 67-0	
	NOA 68-0, NOA 162-0, NOA 163-0,	
	NOA 164-0, NOA 165-0, NOA 166-0	
NOA 12	NOA 66-2, NOA 67-2, NOA 68-2,	
	NOA 162-2, NOA 163-2, NOA 164-2	
	NOA 165-2, NOA 166-2	
NOA 13	NOA 69-0, NOA 70-0, NOA 71-0	
	NOA 72-0, NOA 154-2, NOA 155-0	
	NOA 160-0, NOA 161-0	
NOA 14	NOA 69-2, NOA 70-2, NOA 71-2, NOA 72-2	
	NOA 154-2, NOA 155-2, NOA 161-2	

level
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Client Sample # (s) NOA 134, 183, NOA 187 - 194

Total Samples #: 29/185

Relinquished: [Signature] Date: 1/22/08

Time: 0934

Received: [Signature] Date: 1/22/08

Time: 11:30am PLW

Relinquished: _____ Date: _____

Time: _____

Received: _____ Date: _____

Time: _____

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)	Level
NOA 15	NOA 73-0, NOA 74-0, NOA 75-0		A
	NOA 76-0, NOA 151-0, NOA 162-0		
	NOA 153-0		
NOA 16	NOA 73-2, NOA 74-2, NOA 75-2		A
	NOA 76-2, NOA 151-2, NOA 153-2		
NOA 17	NOA 77-0, NOA 78-0, NOA 79-0		A
	NOA 80-0, NOA 147-0, NOA 148-0		
	NOA 149-0, NOA 150-0		
NOA 18	NOA 77-2, NOA 78-2, NOA 79-2		A
	NOA 80-2, NOA 147-2, NOA 148-2		
	NOA 149-2, NOA 150-2		

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Client Sample # (s) NDA 134-183, NDA 187 - 194

Total Samples #: 29/185

Relinquished: [Signature] Date: 1/22/08

Time: 0934

Received: [Signature] Date: 1/22/09

Time: 11:30am P/U

Relinquished: _____ Date: _____

Time: _____

Received: _____ Date: _____

Time: _____

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
NDA 19	NDA 81-0, NDA 82-0, NDA 83-0	
	NDA 84-0, NDA 142-0, NDA 143-0	
	NDA 144-0, NDA 145-0, NDA 146-0	
NDA 20	NDA 81-2, NDA 82-2, NDA 83-2	
	NDA 84-2, NDA 142-2, NDA 143-2	
	NDA 144-2, NDA 145-2, NDA 146-2	
NDA 21	NDA 85-0, NDA 86-0, NDA 87-0	
	NDA 88-0, NDA 138-0, NDA 139-0	
	NDA 140-0, NDA 141-0	
NDA 22	NDA 85-2, NDA 86-2, NDA 87-2, NDA 88-2	
	NDA 138-2, NDA 139-2, NDA 140-2, NDA 141-2	

Lead
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<http://www.emsl.com>

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Client Sample # (s) NOA134-183, NOA187 - 194

Total Samples #: 29/185

Relinquished: [Signature] Date: 1/22/08

Time: 0934

Received: [Signature] Date: 1/22/08

Time: 1130am PLU

Relinquished: _____ Date: _____

Time: _____

Received: _____ Date: _____

Time: _____

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)	Level
NOA 23	NOA 89-0, NOA 90-0, NOA 91-0		A
	NOA 134-0, NOA 135-0, NOA 136-0		
	NOA 137-0		
NOA 24	NOA 89-2, NOA 91-2, NOA 134-2,		A
	NOA 136-2, NOA 137-2		
NOA 25	NOA 46-0, NOA 47-0, NOA 48-0		A
	NOA 49-0		
NOA 26	NOA 46-2, NOA 47-2, NOA 48-2		A
	NOA 49-2		

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Client Sample # (s) NOA 184-183, NOA 187 - 184

Total Samples #: 21/185

Relinquished: [Signature] Date: 1/22/08

Time: 0934

Received: [Signature] Date: 1/22/08

Time: 11:30am PLU

Relinquished: _____ Date: _____

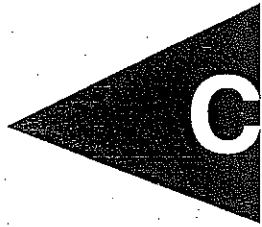
Time: _____

Received: _____ Date: _____

Time: _____

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)	Level
NOA 27	NOA 187-0, NOA 188-0, NOA 189-0		A
	NOA 190-0		
NOA 28	NOA 187-2, NOA 188-2, NOA 189-2		A
	NOA 190-2		
NOA 183	Rock chip 1/16/08 1200		A

APPENDIX



DESCRIPTION OF DATA SET

Project Name: Highway 50 Site Investigation PM 0.16 to 2.9
Project No.: S9300-06-22
Sample Depth: 0.0 ft

DATA SET STATISTICS

Number of Valid Samples	11
Number of Unique Samples	11
Minimum	14
Maximum	140
Mean	47.45454545
Median	31
Standard Deviation	42.0199087
Variance	1765.672727
Coefficient of Variation	0.885477003
Skewness	1.534095394
Mean of log data	3.5678
Standard Deviation of log data	0.763582571

90% Non-parametric UCLs

Standard Bootstrap UCL 63.25181789

95% Non-parametric UCLs

Standard Bootstrap UCL 67.43784671

DESCRIPTION OF DATA SET

Project Name: Highway 50 Site Investigation PM 0.16 to 2.9
Project No.: S9300-06-22
Sample Depth: 1.0 ft

DATA SET STATISTICS

Number of Valid Samples	11
Number of Unique Samples	9
Minimum	0.5
Maximum	33
Mean	15.59090909
Median	17
Standard Deviation	11.726760
Variance	137.516909
Coefficient of Variation	0.752154
Skewness	0.122871
Mean of log data	2.135912
Standard Deviation of log data	1.532065

90% Non-parametric UCLs

Standard Bootstrap UCL 19.87158985

95% Non-parametric UCLs

Standard Bootstrap UCL 21.10698716

DESCRIPTION OF DATA SET

Project Name: Highway 50 Site Investigation PM 0.16 to 2.9
Project No.: S9300-06-22
Sample Depth: 2.0 ft

DATA SET STATISTICS

Number of Valid Samples	11
Number of Unique Samples	7
Minimum	0.5
Maximum	150
Mean	15.60909091
Median	1.3
Standard Deviation	44.648459
Variance	1993.484909
Coefficient of Variation	2.860414
Skewness	3.296433
Mean of log data	0.688469
Standard Deviation of log data	1.724032

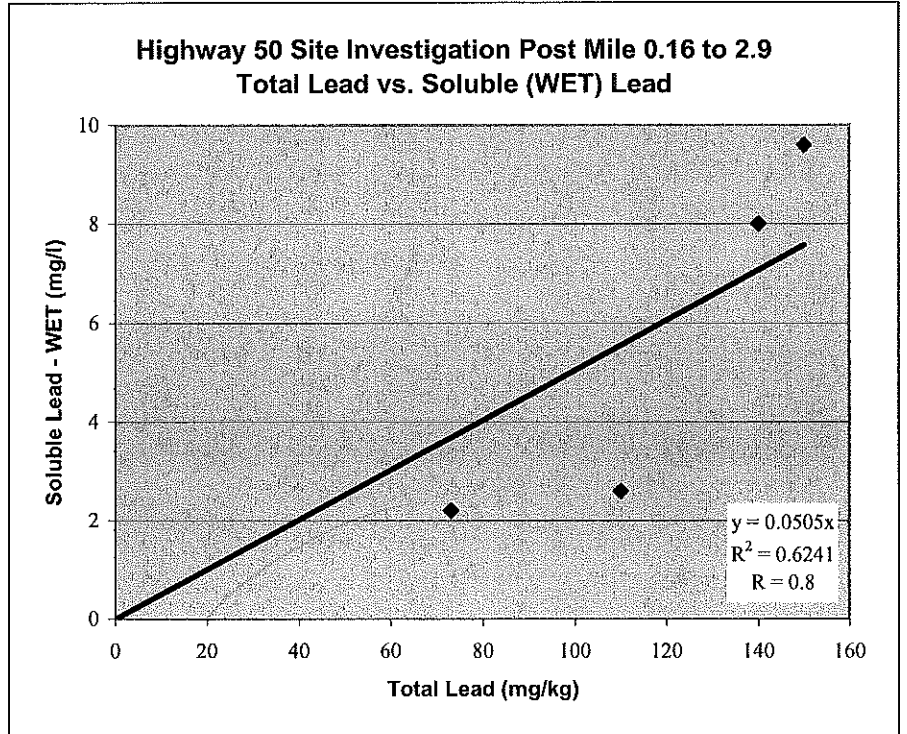
90% Non-parametric UCLs

Standard Bootstrap UCL 32.15017033

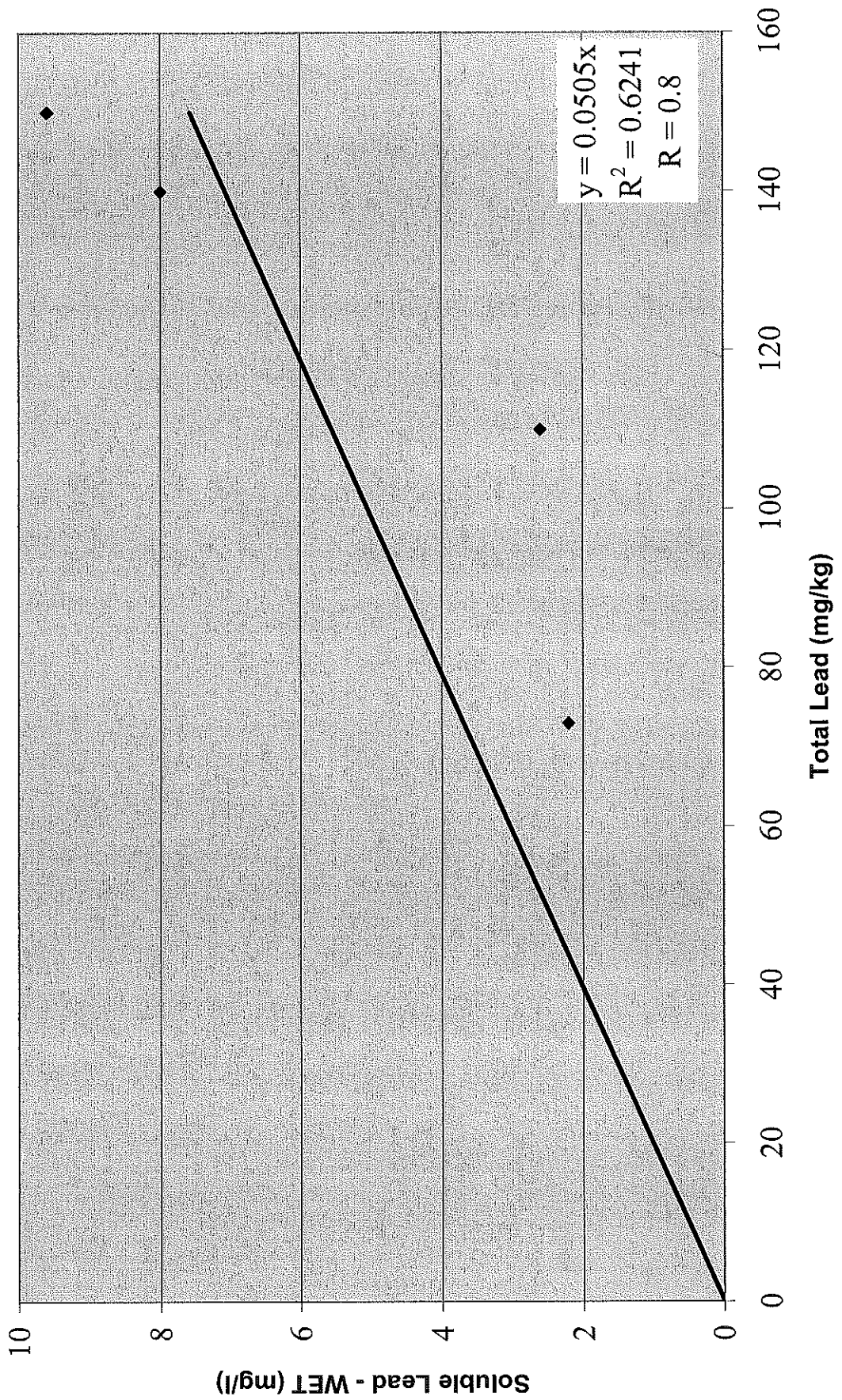
95% Non-parametric UCLs

Standard Bootstrap UCL 36.22642172

Sample ID	Total Lead	WET Lead
B10,12,14-0	73	2.2
B1,3,5,7-0	110	2.6
B43,44,45-0	140	8.0
B12,14-2	150	9.6



**Highway 50 Site Investigation Post Mile 0.16 to 2.9
Total Lead vs. Soluble (WET) Lead**



Appendix B

Caltrans Meeting Notes



Silva Valley ADL Meeting Notes
12/2/10

Present: Derek Minnema – MTCO
Mark Melani – Caltrans District 3
Jeff Patton – BCI
Dave Buck – BCI

This meeting was held to review ADL data from the Silva Valley project and determine a course of action in view of the following findings:

- Samples from the project area west of the proposed Silva Valley Overcrossing have generally low levels of lead and soil from this area should not have restrictions for use on the project except for a lead compliance plan.
- Eight sample locations from the area east of the proposed Silva Valley Overcrossing have total lead and/or soluble lead results above the hazardous waste thresholds (1000 mg/kg total; 5mg/l soluble). ADL variance will most likely need to be invoked for use of this soil on the project. Caltrans needs additional assessment in this area to provide adequate data to invoke the ADL soil management variance.
- One sample (ADL-28A) exceeded the federal threshold for hazardous waste based on TCLP result over 5mg/l. Since this would require Class 1 disposal as a RCRA waste, Mark recommended this location be resampled as well as bracketed by 3 step-out samples located about 10 feet away from the original in a triangular pattern. It may turn out that ADL-28A is an anomaly due to inclusion of foreign material (such as lead based paint particle or a localized spill) and does not indicate a significant soil management issue.

Approximately 20 proposed additional sample locations were marked on the plans. Four of these involve resampling and step-out samples at the ADL-28 location. The remainder of the locations are spread throughout the proposed zone of soil disturbance in the general area of the 8 original sample locations with elevated lead.

Samples will be obtained from three depths at each proposed location (the same procedure as used in the original sampling). The sample depths should be kept the same as the originals if we want to be able to combine data for statistical purposes.

Field investigation will also include a limited assessment of soil/rock properties. Specifically if the sampled material is composed largely of rock fragments it may be more accurate to model the total and soluble lead concentrations based on a mass correction that assumes rock fragments are not a significant source of soluble lead.

Statistical analysis of the data will be performed based on the existing and new data. It may be possible to designate some of the data points as outliers in the final analysis.

A brief workplan will be prepared for Caltrans review prior to starting field work.

BCI will prepare a cost proposal for the additional work for presentation to MTCO and the County.

Appendix C

Summary of Analytical Results



Summary of ADL Analytical Results

Boring	GPS Location Data (NAD 83)*		Total lead (mg/kg)			Soluble Lead (WET) (mg/L)			Soluble Lead (WET-DI) (mg/L)			TCLP (mg/l) A 0"-6" bgs	pH		
	Latitude	Longitude	A 0"-6" bgs	B 12"-18" bgs	C 24"-30" bgs	A 0"-6" bgs	B 12"-18" bgs	C 24"-30" bgs	A 0"-6" bgs	B 12"-18" bgs	C 24"-30" bgs		A 0"-6" bgs	B 12"-18" bgs	C 24"-30" bgs
ADL-1	38.6582	-121.0546	102	7.9	5.1	2.1	-	-	<0.010	-	-	-	-	-	-
ADL-2	38.6580	-121.0559	24.8	22.3	<1.0	-	-	-	-	-	-	-	-	-	-
ADL-3	38.6574	-121.0577	49.4	10.5	5.8	-	-	-	-	-	-	-	-	-	-
ADL-4	38.6571	-121.0587	190	12.3	1.6	0.3	-	-	<0.010	-	-	-	-	-	-
ADL-5	38.6561	-121.0615	ND	<1.0	8.0	-	-	-	-	-	-	-	-	-	-
ADL-6	38.6558	-121.0626	5.6	11.4	NS	-	-	-	-	-	-	-	-	-	-
ADL-7	38.6554	-121.0637	36.9	3.2	18.6	-	-	-	-	-	-	-	-	-	-
ADL-8	38.6551	-121.0648	14.9	<1.0	5.3	-	-	-	-	-	-	-	-	-	-
ADL-9	38.6545	-121.0653	6.3	9.3	<1.0	-	-	-	-	-	-	-	-	-	-
ADL-10	38.6548	-121.0642	7.0	10.2	26.9	-	-	-	-	-	-	-	-	-	-
ADL-11	38.6547	-121.0659	3.8	<1.0	17.6	-	-	-	-	-	-	-	-	-	-
ADL-12	38.6575	-121.0463	101	8.5	6.5	<0.2	-	-	-	-	-	-	-	-	-
ADL-13	38.6574	-121.0446	184	147	NS	0.5	1.7	-	0.021	<0.010	-	-	6.29	-	-
ADL-14	38.6582	-121.0462	170	12.9	2.9	5.5	-	-	<0.010	-	-	-	-	-	-
ADL-15	38.6587	-121.0478	55.5	114	11.7	1.4	1.7	-	-	<0.010	-	-	-	6.34	-
ADL-16	38.6588	-121.0491	2100	124	10.2	17.8	3.6	-	<0.010	<0.010	-	2.0	-	-	-
ADL-17	38.6587	-121.0506	4.3	<1.0	4.7	-	-	-	-	-	-	-	7.43	-	-
ADL-18	38.6586	-121.0522	6.7	5.2	13.1	-	-	-	-	-	-	-	-	-	-
ADL-19	38.6584	-121.0531	181	4.7	31.5	5.7	-	-	<0.010	-	-	-	-	7.45	-
ADL-20	38.6562	-121.0601	185	311	<1.0	4.2	5.2	-	-	<0.010	-	-	-	7.26	-
ADL-21	38.6569	-121.0582	83.9	650	5.1	0.8	9.2	-	-	0.016	-	-	-	-	-
ADL-22	38.6574	-121.0565	13.1	37.5	116	-	-	<0.2	-	-	<0.010	-	-	-	-
ADL-23	38.6577	-121.0551	13.4	46.5	5.2	-	-	-	-	-	-	-	6.86	-	-
ADL-24	38.6578	-121.0541	43.6	647	127	-	6.1	3.0	-	<0.010	<0.010	-	-	-	-
ADL-25	38.6580	-121.0529	284	4.5	2.5	13.3	-	-	0.065	-	-	-	-	7.53	-
ADL-26	38.6581	-121.0512	1510	46.6	7.7	38.3	-	-	0.109	-	-	1.9	-	-	-
ADL-27	38.6581	-121.0501	712	88.7	2.8	29.6	2.5	-	0.049	-	-	-	6.06	-	-
ADL-28	38.6581	-121.0487	1540	15.6	4.2	59.8	-	-	0.074	-	-	7.4	-	-	-
ADL-29	38.6578	-121.0474	15.7	413	18.3	-	7.0	-	-	0.011	-	-	6.65	-	-
ADL-30	38.6552	-121.0631	6.5	NS	NS	-	-	-	-	-	-	-	-	-	-
ADL-31	38.6556	-121.0618	6.0	NS	NS	-	-	-	-	-	-	-	-	-	-
ADL-32	38.6567	-121.0598	91.1	NS	NS	1.0	-	-	-	-	-	-	-	-	-

Summary of ADL Analytical Results

Boring	GPS Location Data (NAD 83)*		Total lead (mg/kg)			Soluble Lead (WET) (mg/L)			Soluble Lead (WET-DI) (mg/L)			TCLP (mg/l)	pH		
	Latitude	Longitude	A 0"-6" bgs	B 12"-18" bgs	C 24"-30" bgs	A 0"-6" bgs	B 12"-18" bgs	C 24"-30" bgs	A 0"-6" bgs	B 12"-18" bgs	C 24"-30" bgs	A 0"-6" bgs	A 0"-6" bgs	B 12"-18" bgs	C 24"-30" bgs
ADL-33	38.6586	-121.0539	<3.0	<3.0	<3.0	-	-	-	-	-	-	-	-	-	-
ADL-34	38.6584	-121.0536	66	18	NS	<0.1	-	-	-	-	-	-	6.6	-	-
ADL-35	38.6585	-121.0526	74	13	NS	<0.1	-	-	-	-	-	-	-	-	-
ADL-36	38.6587	-121.0507	480	21	NS	2.6	-	-	-	-	-	-	-	-	-
ADL-37	38.6588	-121.0500	220	19	NS	0.31	-	-	-	-	-	-	-	-	-
ADL-38	38.6588	-121.0485	260	61	40	0.12	-	-	-	-	-	-	-	-	-
ADL-39	38.6585	-121.0471	330	40	39	0.53	-	-	-	-	-	-	-	-	-
ADL-40	38.6577	-121.0548	26	23	NS	-	-	-	-	-	-	-	-	-	-
ADL-41	38.6577	-121.0536	5.2	<3.0	NS	-	-	-	-	-	-	-	-	8.1	-
ADL-42	38.6576	-121.0533	7.3	<3.0	<3.0	-	-	-	-	-	-	-	-	-	-
ADL-43	38.6581	-121.0487	92	34	140	0.70	-	0.16	-	-	-	-	-	-	-
ADL-44	38.6591	-121.0487	130	74	48	1.9	-	-	-	-	-	-	-	-	-
ADL-45	38.6581	-121.0487	90	37	NS	0.34	-	-	-	-	-	-	-	7.1	-
ADL-46	38.6581	-121.0488	360	35	NS	1.5	-	-	-	-	-	-	-	-	-
ADL-47	38.6581	-121.0494	20	24	NS	-	-	-	-	-	-	-	6.7	-	-
ADL-48	38.6581	-121.0503	120	42	NS	0.63	-	-	-	-	-	-	-	-	-
ADL-49	38.6580	-121.0514	21	3.9	NS	-	-	-	-	-	-	-	-	-	-
ADL-50	38.6580	-121.0520	160	7.7	NS	1.5	-	-	-	-	-	-	6.2	-	-
ADL-51	38.6579	-121.0533	58	13	NS	<0.1	-	-	-	-	-	-	-	-	-

Notes: **Bold** = total lead exceeds 50mg/kg (10 times the STLC of 5mg/L)
Italics = WET lead/TCLP lead greater than STLC (5 mg/l)
 NS = no sample collected due to hard rock conditions
 Blank cells (-) indicate sample not tested for this parameter
 bgs = below ground surface.
 *GPS data obtained using Magellan Meridian equipment

Appendix D

Analytical Laboratory Reports (on CD)



EXCELCHEM
Environmental Labs

1135 W Sunset Boulevard
Suite A
Rocklin, CA 95765
Phone# 916-543-4445
Fax# 916-543-4449



ELAP Certificate No. : 2119

03 August 2010

Dave Buck

Blackburn

11521 Blocker Dr, Suite 110

Auburn, CA 95603

RE: Silva Valley

Workorder number:1007107

Enclosed are the results of analyses for samples received by the laboratory on 07/21/10 11:15. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

John Somers, Lab Director

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 10034
Project Manager: Dave Buck

Date Reported:
08/03/10 13:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL-1A	1007107-01	Soil	07/19/10 14:05	07/21/10 11:15
ADL-1B	1007107-02	Soil	07/19/10 14:20	07/21/10 11:15
ADL-1C	1007107-03	Soil	07/19/10 14:25	07/21/10 11:15
ADL-2A	1007107-04	Soil	07/19/10 14:40	07/21/10 11:15
ADL-2B	1007107-05	Soil	07/19/10 14:45	07/21/10 11:15
ADL-2C	1007107-06	Soil	07/19/10 14:50	07/21/10 11:15
ADL-3A	1007107-07	Soil	07/19/10 15:15	07/21/10 11:15
ADL-3B	1007107-08	Soil	07/19/10 15:20	07/21/10 11:15
ADL-3C	1007107-09	Soil	07/19/10 15:25	07/21/10 11:15
ADL-4A	1007107-10	Soil	07/19/10 16:10	07/21/10 11:15
ADL-4B	1007107-11	Soil	07/19/10 16:15	07/21/10 11:15
ADL-4C	1007107-12	Soil	07/19/10 16:20	07/21/10 11:15

Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 10034
Project Manager: Dave Buck

Date Reported:
08/03/10 13:30

ADL-1A
1007107-01 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

METALS BY 6000/7000 SERIES

Lead	102	1.0	mg/kg	ATG0212	07/29/10	07/30/10	EPA 6010B	
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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 10034
Project Manager: Dave Buck

Date Reported:
08/03/10 13:30

ADL-1B
1007107-02 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	7.9	1.0	mg/kg	ATG0212	07/29/10	07/30/10	EPA 6010B	
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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 10034
Project Manager: Dave Buck

Date Reported:
08/03/10 13:30

ADL-1C
1007107-03 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	5.1	1.0	mg/kg	ATG0212	07/29/10	07/30/10	EPA 6010B	
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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 10034
Project Manager: Dave Buck

Date Reported:
08/03/10 13:30

ADL-2A
1007107-04 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

METALS BY 6000/7000 SERIES

Lead	24.8	1.0	mg/kg	ATG0212	07/29/10	07/30/10	EPA 6010B	
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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 10034
Project Manager: Dave Buck

Date Reported:
08/03/10 13:30

ADL-2B
1007107-05 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	22.3	1.0	mg/kg	ATG0212	07/29/10	07/30/10	EPA 6010B	
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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 10034
Project Manager: Dave Buck

Date Reported:
08/03/10 13:30

**ADL-2C
1007107-06 (Soil)**

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	ND	1.0	mg/kg	ATG0212	07/29/10	07/30/10	EPA 6010B	
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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 10034
Project Manager: Dave Buck

Date Reported:
08/03/10 13:30

ADL-3A
1007107-07 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

METALS BY 6000/7000 SERIES

Lead	49.4	1.0	mg/kg	ATG0212	07/29/10	07/30/10	EPA 6010B	
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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 10034
Project Manager: Dave Buck

Date Reported:
08/03/10 13:30

**ADL-3B
1007107-08 (Soil)**

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

METALS BY 6000/7000 SERIES

Lead	10.5	1.0	mg/kg	ATG0212	07/29/10	07/30/10	EPA 6010B	
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Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 10034
Project Manager: Dave Buck

Date Reported:
08/03/10 13:30

ADL-3C
1007107-09 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	5.8	1.0	mg/kg	ATG0212	07/29/10	07/30/10	EPA 6010B	
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Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 10034
Project Manager: Dave Buck

Date Reported:
08/03/10 13:30

ADL-4A
1007107-10 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

METALS BY 6000/7000 SERIES

Lead	190	1.0	mg/kg	ATG0212	07/29/10	07/30/10	EPA 6010B	
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Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 10034
Project Manager: Dave Buck

Date Reported:
08/03/10 13:30

ADL-4B
1007107-11 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

METALS BY 6000/7000 SERIES

Lead	12.3	1.0	mg/kg	ATG0212	07/29/10	07/30/10	EPA 6010B	
------	------	-----	-------	---------	----------	----------	-----------	--

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 10034
Project Manager: Dave Buck

Date Reported:
08/03/10 13:30

ADL-4C
1007107-12 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	1.6	1.0	mg/kg	ATG0212	07/29/10	07/30/10	EPA 6010B	
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Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 10034
Project Manager: Dave Buck

Date Reported:
08/03/10 13:30

METALS BY 6000/7000 SERIES - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch ATG0212 - EPA 6010B

Blank (ATG0212-BLK1)

Prepared: 07/29/10 Analyzed: 07/30/10

Lead	ND	1.0	mg/kg							
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LCS (ATG0212-BS1)

Prepared: 07/29/10 Analyzed: 07/30/10

Lead	101	1.0	mg/kg	100	101	80-120				
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LCS Dup (ATG0212-BSD1)

Prepared: 07/29/10 Analyzed: 07/30/10

Lead	101	1.0	mg/kg	100	101	80-120	0.329	25		
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Matrix Spike (ATG0212-MS1)

Source: 1007057-01

Prepared: 07/29/10 Analyzed: 07/30/10

Lead	93.9	1.0	mg/kg	100	2.61	91.3	75-125			
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Matrix Spike Dup (ATG0212-MSD1)

Source: 1007057-01

Prepared: 07/29/10 Analyzed: 07/30/10

Lead	86.4	1.0	mg/kg	100	2.61	83.8	75-125	8.35	25	
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Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 10034
Project Manager: Dave Buck

Date Reported:
08/03/10 13:30

Notes and Definitions

ND Analyte not detected at reporting limit.

NR Not reported

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Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 10034
Project Manager: Dave Buck

Date Reported:
08/03/10 13:30

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST		Page <u> 1 </u> of <u> 1 </u>	
Excelchem Environmental Labs 1135 W. Sunset Blvd., Unit A Rocklin, Ca. 95765 Ph: 916-543-4445 Fax: 916-543-4449 Project Manager: David Buck Company/Address: Blackburn Consulting 11521 Blocker Dr. Suite 110 Auburn, CA 95603 Project Number: 10034 Project Location: Hwy 50 @ Silva Valley		Electronic Data Deliverables Request: Email Address: daveb@blackburnconsulting.com Requested PAT: 12hr/24hr/48hr/72hr/1wk Lab Use ONLY	
Project Name: Silva Valley Sample Signature: <i>[Signature]</i>		Wet: <input type="checkbox"/> Total: <input checked="" type="checkbox"/> Metals = Pb Tpmg/BTEX/5 Oxygenates (8260B) Lead Scavengers DCA/EDB (8260B) 5 Oxygenates (8260B) Methanol (8015M) Ethanol (8260) MTBE (8020/8260B) circle the method VOC Full List (8260B) Semi VOC Full List (8270C) Chlorinated Hydrocarbons (8151) Organophosphorous Pesticide (8141) Pesticides (808/8081A) - PCBs (8082) Total Oil & Grease (SM-18th 5520)1864 TPH as Oil (8015m) TPH as Diesel (8015m) BTEX - TPH as Gasoline (602/8021/8015)	
Method of Preservation: <input checked="" type="checkbox"/> Matrix <input type="checkbox"/> AIR <input type="checkbox"/> SOIL <input type="checkbox"/> WATER <input type="checkbox"/> NonAcid/Other		Container: <input checked="" type="checkbox"/> PLASTIC ZIPLOC <input type="checkbox"/> 1L GLASS <input type="checkbox"/> SLEEVE <input type="checkbox"/> VOA Tedlar or Summa Canister Number	
Sampling: Date Time ADL-1A 7/19/10 05 -1B 2:00 -1C 2:35 -2A 2:40 2B 2:45 2C 2:50 3A 3:15 3B 3:20 3C 3:25 4A 4:10 4B 4:15 4C 4:20		Relinquished by: <i>[Signature]</i> Relinquished by: <i>[Signature]</i>	
Date Time Received by: 7/21/10 10:29am <i>[Signature]</i>		Date Time Received by Laboratory: 7/21/10 11:15 <i>[Signature]</i>	
Remarks/Condition of Sample:		Bill To:	

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 10034
Project Manager: Dave Buck

Date Reported:
08/03/10 13:30

Sample Integrity

WORK ORDER 1007107

Date Received: 7/21/10

Section 1 - Sample Arrival Info.

Sample Transport: ONTRAC UPS USPS Walk-In EXCELCHEM Courier Fed-Ex Other: _____
 Transported In: Ice Chest Box Hand
 Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: ice
 Has chilling process begun? Y N Samples Received: Chilled to Touch / Ambient / On Ice
 Temperature of Samples (°C): 0 Ice Chest Temperature(s) (°C): -2
 Was temperature In Range?: Y N

Section 2 - Bottle/Analysis Info.

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?	<input checked="" type="checkbox"/>			
Did all bottle labels agree with COC?	<input checked="" type="checkbox"/>			
Were correct containers used for the tests requested?	<input checked="" type="checkbox"/>			
Were correct preservations used for the tests requested?			<input checked="" type="checkbox"/>	
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>			
Were bubbles present in VOA Vials?: (Volatile Methods Only)			<input checked="" type="checkbox"/>	

Section 3 - COC Info.

	Completed		Info From Container	Completed		Comments
	Yes	No		Yes	No	
Was COC Received	<input checked="" type="checkbox"/>		Analysis Requested	<input checked="" type="checkbox"/>		
Date Sampled	<input checked="" type="checkbox"/>		Samples arrived within holding time	<input checked="" type="checkbox"/>		
Time Sampled	<input checked="" type="checkbox"/>		Any hold times less than 72 hrs		<input checked="" type="checkbox"/>	
Sample ID	<input checked="" type="checkbox"/>		Client Name	<input checked="" type="checkbox"/>		
Rush TAT		<input checked="" type="checkbox"/>	Address/Telephone #	<input checked="" type="checkbox"/>		

Section 4 - Comments / Discrepancies

Was Client notified of discrepancies: Yes No N/A Notified by: _____

Explanations / Comments: _____

Samples Labeled by: ay
 Labels reviewed by: [Signature]
 Bin #s: 3-13
 COC Scanned/Attached by: ay

Form completed by: [Signature] Date/Time: 7/21/10 11:15

[Signature]

EXCELCHEM
Environmental Labs

1135 W Sunset Boulevard
Suite A
Rocklin, CA 95765
Phone# 916-543-4445
Fax# 916-543-4449



ELAP Certificate No. : 2119

03 September 2010

Dave Buck

Blackburn

11521 Blocker Dr, Suite 110

Auburn, CA 95603

RE: Silva Valley

Workorder number:1008143

Enclosed are the results of analyses for samples received by the laboratory on 08/25/10 10:50. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

John Somers, Lab Director

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL-5 A	1008143-01	Soil	08/23/10 13:21	08/25/10 10:50
ADL-5 B	1008143-02	Soil	08/23/10 13:27	08/25/10 10:50
ADL-5 C	1008143-03	Soil	08/23/10 13:29	08/25/10 10:50
ADL-6 A	1008143-04	Soil	08/23/10 13:44	08/25/10 10:50
ADL-6 B	1008143-05	Soil	08/23/10 13:51	08/25/10 10:50
ADL-7 A	1008143-06	Soil	08/23/10 14:15	08/25/10 10:50
ADL-7 B	1008143-07	Soil	08/23/10 14:23	08/25/10 10:50
ADL-7 C	1008143-08	Soil	08/23/10 14:25	08/25/10 10:50
ADL-8 A	1008143-09	Soil	08/23/10 14:38	08/25/10 10:50
ADL-8 B	1008143-10	Soil	08/23/10 14:44	08/25/10 10:50
ADL-8 C	1008143-11	Soil	08/23/10 14:46	08/25/10 10:50
ADL-9 A	1008143-12	Soil	08/24/10 08:57	08/25/10 10:50
ADL-9 B	1008143-13	Soil	08/24/10 09:04	08/25/10 10:50
ADL-9 C	1008143-14	Soil	08/24/10 09:06	08/25/10 10:50
ADL-10 A	1008143-15	Soil	08/24/10 09:28	08/25/10 10:50
ADL-10 B	1008143-16	Soil	08/24/10 09:32	08/25/10 10:50
ADL-10 C	1008143-17	Soil	08/24/10 09:34	08/25/10 10:50
ADL-11 A	1008143-18	Soil	08/24/10 14:31	08/25/10 10:50
ADL-11 B	1008143-19	Soil	08/24/10 14:42	08/25/10 10:50
ADL-11 C	1008143-20	Soil	08/24/10 14:43	08/25/10 10:50

Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

ADL-5 A
1008143-01 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	ND	1.0	mg/kg	ATI0012	08/26/10	09/01/10	EPA 6010B	
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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

ADL-5 B
1008143-02 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	ND	1.0	mg/kg	ATI0012	08/26/10	09/01/10	EPA 6010B	
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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

ADL-5 C
1008143-03 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	8.0	1.0	mg/kg	AT10012	08/26/10	09/01/10	EPA 6010B	
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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

ADL-6 A
1008143-04 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	5.6	1.0	mg/kg	AT10012	08/26/10	09/01/10	EPA 6010B	
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Laboratory Representative

Excelchem Environmental Labs

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11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

ADL-6 B
1008143-05 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	11.4	1.0	mg/kg	AT10012	08/26/10	09/01/10	EPA 6010B	
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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

ADL-7 A
1008143-06 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	36.9	1.0	mg/kg	AT10012	08/26/10	09/01/10	EPA 6010B	
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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

ADL-7 B
1008143-07 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	3.2	1.0	mg/kg	AT10012	08/26/10	09/01/10	EPA 6010B	
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Laboratory Representative

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11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

ADL-7 C
1008143-08 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	18.6	1.0	mg/kg	AT10012	08/26/10	09/01/10	EPA 6010B	
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Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

ADL-8 A
1008143-09 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	14.9	1.0	mg/kg	ATI0012	08/26/10	09/01/10	EPA 6010B	
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Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

ADL-8 B
1008143-10 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	ND	1.0	mg/kg	ATI0012	08/26/10	09/01/10	EPA 6010B	
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Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

ADL-8 C
1008143-11 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	5.3	1.0	mg/kg	AT10012	08/26/10	09/01/10	EPA 6010B	
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Blackburn
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Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

ADL-9 A
1008143-12 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	6.3	1.0	mg/kg	AT10012	08/26/10	09/01/10	EPA 6010B	
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Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

ADL-9 B
1008143-13 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	9.3	1.0	mg/kg	AT10012	08/26/10	09/01/10	EPA 6010B	
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Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

ADL-9 C
1008143-14 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	ND	1.0	mg/kg	ATI0012	08/26/10	09/01/10	EPA 6010B	
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Blackburn
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Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

ADL-10 A
1008143-15 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	7.0	1.0	mg/kg	AT10012	08/26/10	09/01/10	EPA 6010B	
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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

ADL-10 B
1008143-16 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	10.2	1.0	mg/kg	AT10012	08/26/10	09/01/10	EPA 6010B	
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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

ADL-10 C
1008143-17 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	26.9	1.0	mg/kg	AT10012	08/26/10	09/01/10	EPA 6010B	
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Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

ADL-11 A
1008143-18 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	3.8	1.0	mg/kg	AT10012	08/26/10	09/01/10	EPA 6010B	
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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

ADL-11 B
1008143-19 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	ND	1.0	mg/kg	ATI0012	08/26/10	09/01/10	EPA 6010B	
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Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

ADL-11 C
1008143-20 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	17.6	1.0	mg/kg	AT10012	08/26/10	09/01/10	EPA 6010B	
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Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

METALS BY 6000/7000 SERIES - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch ATI0012 - EPA 6010B

Blank (ATI0012-BLK1)

Prepared: 08/26/10 Analyzed: 09/01/10

Lead	ND	1.0	mg/kg							
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LCS (ATI0012-BS1)

Prepared: 08/26/10 Analyzed: 09/01/10

Lead	96.2	1.0	mg/kg	100		96.2	80-120			
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LCS Dup (ATI0012-BSD1)

Prepared: 08/26/10 Analyzed: 09/01/10

Lead	97.0	1.0	mg/kg	100		97.0	80-120	0.776	25	
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Matrix Spike (ATI0012-MS1)

Source: 1008143-02

Prepared: 08/26/10 Analyzed: 09/01/10

Lead	109	1.0	mg/kg	100	ND	109	75-125			
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Matrix Spike Dup (ATI0012-MSD1)

Source: 1008143-02

Prepared: 08/26/10 Analyzed: 09/01/10

Lead	97.6	1.0	mg/kg	100	ND	97.6	75-125	11.3	25	
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Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603


Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

Notes and Definitions

ND Analyte not detected at reporting limit.
NR Not reported

Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

Excelchem Environmental Labs		1155 W. Sunset Blvd., Unit A Reddin, Ca. 95765 Ph: 916-543-4445 Fax: 916-543-4449								
Project Manager: Dave Buck		Phone #: 530-887-1494								
Company Address: Blackburn Consulting 11521 Blocker Dr, Suite 110 Auburn, CA 95603		Fax #: 530-887-1445								
Project Number/ID: 556.2/10043		Project Name: Silva Valley Interchange								
Project Location: El Dorado Hills, CA		Sampler Signature: <i>[Signature]</i>								
Sample ID	Date	Time	Container			Method of Preservation			Matrix	
			VOA	TL GLASS	PLASTIC	ICF	HNO3	None/Other		SOIL
ADL-9 A	9/24	8:57	X			X				
B		9:04								
C		9:06								
ADL-10 A		9:28								
B		9:32								
C		9:34								
ADL-11 A		2:31								
B		2:42								
C		2:43								
Retrieved by: <i>[Signature]</i>		Date	Time	Received by: <i>[Signature]</i>		Remarks/Condition of Sample:				
Retrieved by: <i>[Signature]</i>		9/25/10	9:50	8/25/10		Bill To:				
		8/25/10	10:50	<i>[Signature]</i>						

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST		Page 2 of 2	
Electronic Data Deliverables Request: <i>data@blackburnconsulting.com</i>		Email Address:	
Requested TAT: 12hr/24hr/48hr/72hr/1wk		Requested TAT: <i>12</i>	
Requested TAT: <i>12</i>		Requested TAT: <i>13</i>	
Requested TAT: <i>14</i>		Requested TAT: <i>15</i>	
Requested TAT: <i>16</i>		Requested TAT: <i>17</i>	
Requested TAT: <i>18</i>		Requested TAT: <i>19</i>	
Requested TAT: <i>20</i>		Requested TAT: <i>20</i>	
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Requested TAT: <i>32</i>		Requested TAT: <i>32</i>	
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Requested TAT: <i>97</i>		Requested TAT: <i>97</i>	
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Requested TAT: <i>100</i>		Requested TAT: <i>100</i>	

Excelchem Environmental Lab.

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[Signature]

Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2/10043
Project Manager: Dave Buck

Date Reported:
09/03/10 12:22

Sample Integrity

WORK ORDER 1008143

Date Received: 8/25/10

Section 1 - Sample Arrival Info.

Sample Transport: ONTRAC UPS USPS Walk-In EXCELCHEM Courier Fed-Ex Other: _____

Transported In: Ice Chest Box Hand ..

Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: Ice

Has chilling process begun? Y N Samples Received: Chilled to Touch / Ambient / On Ice

Temperature of Samples (°C): 1 Ice Chest Temperature(s) (°C): 0

Was temperature In Range?: Y N

Section 2 - Bottle/Analysis Info.

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?	<input checked="" type="checkbox"/>			
Did all bottle labels agree with COC?	<input checked="" type="checkbox"/>			
Were correct containers used for the tests requested?	<input checked="" type="checkbox"/>			
Were correct preservations used for the tests requested?			<input checked="" type="checkbox"/>	
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>			
Were bubbles present in VOA Vials?: (Volatile Methods Only)			<input checked="" type="checkbox"/>	

Section 3 - COC Info.

	Completed		Info From Container	Completed		Comments
	Yes	No		Yes	No	
Was COC Received	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Date Sampled	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Time Sampled	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	
Sample ID	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Rush TAT		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
Analysis Requested				<input checked="" type="checkbox"/>		
Samples arrived within holding time				<input checked="" type="checkbox"/>		
Any hold times less than 72 hrs					<input checked="" type="checkbox"/>	
Client Name				<input checked="" type="checkbox"/>		
Address/Telephone #				<input checked="" type="checkbox"/>		

Section 4 - Comments / Discrepancies

Was Client notified of discrepancies: Yes No N/A Notified by: _____

Explanations / Comments:

Samples Labeled by: CK
Labels reviewed by: FF
Bin #: 5-3
COC Scanned/Attached by: CK

Form completed by: [Signature] Date/Time: 8/25/10 10:45

[Signature]

EXCELCHEM
Environmental Labs

1135 W Sunset Boulevard
Suite A
Rocklin, CA 95765
Phone# 916-543-4445
Fax# 916-543-4449



ELAP Certificate No. : 2119

01 October 2010

Dave Buck

Blackburn

11521 Blocker Dr, Suite 110

Auburn, CA 95603

RE: Silva Valley

Workorder number:1009096

Enclosed are the results of analyses for samples received by the laboratory on 09/16/10 10:30. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

John Somers, Lab Director

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL-12A	1009096-01	Soil	09/13/10 01:38	09/16/10 10:30
ADL-12B	1009096-02	Soil	09/13/10 01:40	09/16/10 10:30
ADL-12C	1009096-03	Soil	09/13/10 01:45	09/16/10 10:30
ADL-13A	1009096-04	Soil	09/14/10 20:47	09/16/10 10:30
ADL-13B	1009096-05	Soil	09/14/10 21:00	09/16/10 10:30
ADL-14A	1009096-06	Soil	09/14/10 21:24	09/16/10 10:30
ADL-14B	1009096-07	Soil	09/14/10 21:35	09/16/10 10:30
ADL-14C	1009096-08	Soil	09/14/10 21:37	09/16/10 10:30
ADL-15A	1009096-09	Soil	09/14/10 22:33	09/16/10 10:30
ADL-15B	1009096-10	Soil	09/14/10 22:41	09/16/10 10:30
ADL-15C	1009096-11	Soil	09/14/10 22:43	09/16/10 10:30
ADL-16A	1009096-12	Soil	09/14/10 23:26	09/16/10 10:30
ADL-16B	1009096-13	Soil	09/14/10 23:35	09/16/10 10:30
ADL-16C	1009096-14	Soil	09/14/10 23:37	09/16/10 10:30
ADL-17A	1009096-15	Soil	09/15/10 00:05	09/16/10 10:30
ADL-17B	1009096-16	Soil	09/15/10 00:13	09/16/10 10:30
ADL-17C	1009096-17	Soil	09/15/10 00:15	09/16/10 10:30
ADL-18A	1009096-18	Soil	09/15/10 00:23	09/16/10 10:30
ADL-18B	1009096-19	Soil	09/15/10 00:33	09/16/10 10:30
ADL-18C	1009096-20	Soil	09/15/10 00:35	09/16/10 10:30
ADL-19A	1009096-21	Soil	09/15/10 00:43	09/16/10 10:30
ADL-19B	1009096-22	Soil	09/15/10 00:48	09/16/10 10:30
ADL-19C	1009096-23	Soil	09/15/10 00:50	09/16/10 10:30

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

ADL-12A
1009096-01 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	101	1.0	mg/kg	ATI0214	09/25/10	09/25/10	EPA 6010B	
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Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

ADL-12B
1009096-02 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	8.5	1.0	mg/kg	AT10214	09/25/10	09/25/10	EPA 6010B	
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Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

**ADL-12C
1009096-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	6.5	1.0	mg/kg	ATI0214	09/25/10	09/25/10	EPA 6010B	
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Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

ADL-13A
1009096-04 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	184	1.0	mg/kg	ATI0214	09/25/10	09/25/10	EPA 6010B	
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Wet Chemistry

pH	6.29	0.100	pH Units	ATI0131	09/16/10	09/17/10	EPA 9045	
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Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

ADL-13B
1009096-05 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	147	1.0	mg/kg	AT10214	09/25/10	09/25/10	EPA 6010B	
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Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

ADL-14A
1009096-06 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	170	1.0	mg/kg	AT10214	09/25/10	09/25/10	EPA 6010B	
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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

ADL-14B
1009096-07 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	12.9	1.0	mg/kg	ATI0214	09/25/10	09/25/10	EPA 6010B	
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Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

ADL-14C
1009096-08 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	2.9	1.0	mg/kg	ATI0214	09/25/10	09/25/10	EPA 6010B	
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Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

ADL-15A
1009096-09 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	55.5	1.0	mg/kg	ATI0214	09/25/10	09/25/10	EPA 6010B	
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Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

ADL-15B
1009096-10 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	114	1.0	mg/kg	ATI0214	09/25/10	09/25/10	EPA 6010B	
------	-----	-----	-------	---------	----------	----------	-----------	--

Wet Chemistry

pH	6.34	0.100	pH Units	ATI0131	09/16/10	09/17/10	EPA 9045	
----	------	-------	----------	---------	----------	----------	----------	--

Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

**ADL-15C
1009096-11 (Soil)**

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

METALS BY 6000/7000 SERIES

Lead	11.7	1.0	mg/kg	ATI0214	09/25/10	09/25/10	EPA 6010B	
------	------	-----	-------	---------	----------	----------	-----------	--

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

ADL-16A
1009096-12 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

METALS BY 6000/7000 SERIES

Lead	2100	1.0	mg/kg	AT10214	09/25/10	09/25/10	EPA 6010B	
------	------	-----	-------	---------	----------	----------	-----------	--

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

ADL-16B
1009096-13 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

METALS BY 6000/7000 SERIES

Lead	124	1.0	mg/kg	ATI0214	09/25/10	09/25/10	EPA 6010B	
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Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

ADL-16C 1009096-14 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

METALS BY 6000/7000 SERIES

Lead	10.2	1.0	mg/kg	ATI0214	09/25/10	09/27/10	EPA 6010B	
------	------	-----	-------	---------	----------	----------	-----------	--

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn 11521 Blocker Dr, Suite 110 Auburn, CA 95603	Project: Project Number: Project Manager:	Silva Valley P.O.#10043 Dave Buck	Date Reported: 10/01/10 14:55
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**ADL-17A
1009096-15 (Soil)**

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

METALS BY 6000/7000 SERIES

Lead	4.3	1.0	mg/kg	ATI0214	09/25/10	09/27/10	EPA 6010B	
Wet Chemistry								
pH	7.43	0.100	pH Units	ATI0131	09/16/10	09/17/10	EPA 9045	

Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

ADL-17B
1009096-16 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

METALS BY 6000/7000 SERIES

Lead	ND	1.0	mg/kg	ATI0214	09/25/10	09/27/10	EPA 6010B	
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Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

ADL-17C
1009096-17 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

METALS BY 6000/7000 SERIES

Lead	4.7	1.0	mg/kg	AT10214	09/25/10	09/27/10	EPA 6010B	
------	-----	-----	-------	---------	----------	----------	-----------	--

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

ADL-18A
1009096-18 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

METALS BY 6000/7000 SERIES

Lead	6.7	1.0	mg/kg	AT10214	09/25/10	09/27/10	EPA 6010B	
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Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

ADL-18B
1009096-19 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

METALS BY 6000/7000 SERIES

Lead	5.2	1.0	mg/kg	AT10214	09/25/10	09/27/10	EPA 6010B	
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Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

**ADL-18C
1009096-20 (Soil)**

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

METALS BY 6000/7000 SERIES

Lead	13.1	1.0	mg/kg	AT10214	09/25/10	09/27/10	EPA 6010B	
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Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

ADL-19A
1009096-21 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

METALS BY 6000/7000 SERIES

Lead	181	1.0	mg/kg	AT10211	09/22/10	09/25/10	EPA 6010B	
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Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

ADL-19B
1009096-22 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

METALS BY 6000/7000 SERIES

Lead	4.7	1.0	mg/kg	ATI0211	09/22/10	09/25/10	EPA 6010B	
------	-----	-----	-------	---------	----------	----------	-----------	--

Wet Chemistry

pH	7.45	0.100	pH Units	ATI0131	09/16/10	09/17/10	EPA 9045	
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Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

**ADL-19C
1009096-23 (Soil)**

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	31.5	1.0	mg/kg	AT10211	09/22/10	09/25/10	EPA 6010B	
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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

METALS BY 6000/7000 SERIES - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch ATI0211 - EPA 6010B

Blank (ATI0211-BLK1)										
					Prepared: 09/22/10 Analyzed: 09/24/10					
Lead	ND	1.0	mg/kg							
LCS (ATI0211-BS1)										
					Prepared: 09/22/10 Analyzed: 09/24/10					
Lead	104	1.0	mg/kg	100		104	80-120			
LCS Dup (ATI0211-BSD1)										
					Prepared: 09/22/10 Analyzed: 09/24/10					
Lead	104	1.0	mg/kg	100		104	80-120	0.293	25	
Matrix Spike (ATI0211-MS1)										
		Source: 1009120-01			Prepared: 09/22/10 Analyzed: 09/24/10					
Lead	107	1.0	mg/kg	100	8.62	98.8	75-125			
Matrix Spike Dup (ATI0211-MSD1)										
		Source: 1009120-01			Prepared: 09/22/10 Analyzed: 09/24/10					
Lead	103	1.0	mg/kg	100	8.62	94.3	75-125	4.35	25	

Batch ATI0214 - EPA 6010B

Blank (ATI0214-BLK1)										
					Prepared: 09/25/10 Analyzed: 09/27/10					
Lead	ND	1.0	mg/kg							
LCS (ATI0214-BS1)										
					Prepared: 09/25/10 Analyzed: 09/27/10					
Lead	92.9	1.0	mg/kg	100		92.9	80-120			
LCS Dup (ATI0214-BSD1)										
					Prepared: 09/25/10 Analyzed: 09/27/10					
Lead	88.3	1.0	mg/kg	100		88.3	80-120	5.13	25	
Matrix Spike (ATI0214-MS1)										
		Source: 1009096-01			Prepared: 09/25/10 Analyzed: 09/30/10					
Lead	178	1.0	mg/kg	100	101	77.1	75-125			

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn 11521 Blocker Dr, Suite 110 Auburn, CA 95603	Project: Project Number: Project Manager:	Silva Valley P.O.#10043 Dave Buck	Date Reported: 10/01/10 14:55
--	---	---	----------------------------------


METALS BY 6000/7000 SERIES - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch ATI0214 - EPA 6010B

Matrix Spike Dup (ATI0214-MSD1)		Source: 1009096-01		Prepared: 09/25/10	Analyzed: 09/27/10					
Lead	201	1.0	mg/kg	100	101	100	75-125	12.1	25	

Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

Blackburn 11521 Blocker Dr, Suite 110 Auburn, CA 95603	Project: Project Number: Project Manager:	Silva Valley P.O.#10043 Dave Buck	Date Reported: 10/01/10 14:55
--	---	---	----------------------------------


Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch ATI0131 - EPA 9045

Duplicate (ATI0131-DUP1)	Source: 1009096-10	Prepared: 09/16/10	Analyzed: 09/17/10			
pH	6.42	0.100	pH Units	6.34	1.25	20

Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603


Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

Notes and Definitions

ND Analyte not detected at reporting limit.
NR Not reported

Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

Excelchem Environmental Labs		1135 W. Sunset Blvd., Unit A Rocklin, Ca. 95765 Ph: 916-543-4445 Fax: 916-543-4449		CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST			
Project Manager: Dave Buck		Phone #: 530-887-1494		Electronic Data Deliverables Request: <i>daveb@blackburnconsulting.com</i>			
Company Address: BCI 11521 Blocker Dr. # 110 Auburn, CA 95603		Fax #:		Email Address:			
Project Number/P.O.#: PO.# 10043		Project Name: Silva Valley		Page 1 of 2			
Project Location: El Dorado Hills		Sample Signature: <i>Kate Pina</i>		Requested TAT: 12hr/24hr/48hr/72hr/1wk			
Sample ID	Date	Time	Sampling	Container		Matrix	Remarks/Condition of Sample:
				Method of Preservation	Canister Number		
ADL-12 A	9/13	1:38		PLASTIC		AIR	
" B		1:40		TL GLASS		SOIL	
" C		1:45		SLEEVE		WATER	
ADL-13 A	9/14	8:47 AM		VOA		None/Other	
" B		9:00				ICE	
ADL-14 A		9:24 AM				HNO3	
" B		9:54 AM				HCl	
" C		9:57 AM				Fecl3 or Summa	
ADL-15 A		10:33 AM					
" B		10:31 AM					
" C		10:35 AM					
Relinquished by: <i>Kate Pina</i>		Date:	Time:	Received by:		Date:	
				<i>S. Pina</i>		9/16/10 10:30	
Relinquished by:		Date:	Time:	Received by Laboratory:		Date:	
		Bill To:					

Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST		ANALYSIS REQUEST															
1135 W. Sunset Blvd., Unit A Redlin, Ca. 95765 Ph: 916-543-4445 Fax: 916-543-4419 Project Manager: <u>Dave Buck</u> Company/Address: <u>BCI</u> Project Number/P.O.#: <u>P.O. 10043</u> Project Location: <u>El Dorado Hills</u>		Project Name: <u>Silva Valley</u> Sampler Signature: <u>[Signature]</u> Electronic Data Deliverables Request: <u>daveb@blackburnconsulting.com</u> Email Address:															
Phone #: <u>530-887-1494</u> Fax #:		Bin: <u>516</u> Lab Date: <u>10/23/10</u> Work Order #: <u>1009016</u> Requested TAT: 12hr/24hr/48hr/72hr/1wk LAB USE ONLY:															
Sample ID	Date Time	Sampling	Container			Method of Preservation		Matrix									
			SLEAVE	TL GLASS	PLASTIC	Tedar or Summa	Cannister Number		HCl	HNO3	ICE	None/Other	WATER	SOIL	AIR		
ADL-16 A	9/14	11:16 AM			X												
" B	"	11:35															
" C	"	11:37															
ADL-17 A	9/15	12:05															
" B	"	12:13															
" C	"	12:15															
ADL-18 A		12:23															
" B		12:53															
" C		12:35															
ADL-19 A		12:43															
" B		12:48															
" C		12:50															
Requisitioned by: <u>[Signature]</u>		Date: <u>9/16/10</u>		Time: <u>10:30</u>		Received by: <u>[Signature]</u>		Remarks/Condition of Sample:									
Relinquished by: <u>[Signature]</u>		Date:		Time:		Received by Laboratory:		Bill To:									

Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: P.O.#10043
Project Manager: Dave Buck

Date Reported:
10/01/10 14:55

Sample Integrity

WORK ORDER 1009096

Date Received: 9/16/10

Section 1 - Sample Arrival Info.

Sample Transport: ONTRAC UPS USPS Walk-In EXCELCHEM Courier Fed-Ex Other: _____

Transported In: Ice Chest Box Hand

Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: N/A

Has chilling process begun? Y N Samples Received: Chilled to Touch / Ambient C

Temperature of Samples (°C): 16 Ice Chest Temperature(s) (°C): 3

Was temperature In Range?: Y N

Section 2 - Bottle/Analysis Info.

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?			<input checked="" type="checkbox"/>	
Did all bottle labels agree with COC?	<input checked="" type="checkbox"/>			<u>Bags not bottles</u>
Were correct containers used for the tests requested?	<input checked="" type="checkbox"/>			
Were correct preservations used for the tests requested?			<input checked="" type="checkbox"/>	
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>			
Were bubbles present in VOA Vials?: (Volatile Methods Only)			<input checked="" type="checkbox"/>	

Section 3 - COC Info.

	Completed		Info From Container	Completed		Comments
	Yes	No		Yes	No	
Was COC Received	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Date Sampled	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Time Sampled	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	
Sample ID	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Rush TAT		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
Analysis Requested				<input checked="" type="checkbox"/>		
Samples arrived within holding time					<input checked="" type="checkbox"/>	
Any hold times less than 72 hrs					<input checked="" type="checkbox"/>	
Client Name				<input checked="" type="checkbox"/>		
Address/Telephone #				<input checked="" type="checkbox"/>		

Section 4 - Comments / Discrepancies

Was Client notified of discrepancies: Yes No N/A Notified by: _____

Explanations / Comments:

Samples Labeled by: SA
Labels reviewed by: SA
Bin #: 516
COC Scanned/Attached by: _____

Form completed by: S. [Signature] Date/Time: 9/16/10



EXCELCHEM
Environmental Labs

1135 W Sunset Boulevard
Suite A
Rocklin, CA 95765
Phone# 916-543-4445
Fax# 916-543-4449



ELAP Certificate No. : 2119

01 October 2010

Dave Buck

Blackburn

11521 Blocker Dr, Suite 110

Auburn, CA 95603

RE: Silva Valley

Workorder number:1009133

Enclosed are the results of analyses for samples received by the laboratory on 09/22/10 09:31. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

John Somers, Lab Director

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL-20A	1009133-01	Soil	09/21/10 00:27	09/22/10 09:31
ADL-20B	1009133-02	Soil	09/21/10 00:30	09/22/10 09:31
ADL-20C	1009133-03	Soil	09/21/10 00:40	09/22/10 09:31
ADL-21A	1009133-04	Soil	09/21/10 01:59	09/22/10 09:31
ADL-21B	1009133-05	Soil	09/21/10 02:03	09/22/10 09:31
ADL-21C	1009133-06	Soil	09/21/10 02:05	09/22/10 09:31
ADL-22A	1009133-07	Soil	09/21/10 02:15	09/22/10 09:31
ADL-22B	1009133-08	Soil	09/21/10 02:21	09/22/10 09:31
ADL-22C	1009133-09	Soil	09/21/10 02:23	09/22/10 09:31
ADL-23A	1009133-10	Soil	09/21/10 02:34	09/22/10 09:31
ADL-23B	1009133-11	Soil	09/21/10 02:45	09/22/10 09:31
ADL-23C	1009133-12	Soil	09/21/10 02:47	09/22/10 09:31
ADL-24A	1009133-13	Soil	09/21/10 02:58	09/22/10 09:31
ADL-24B	1009133-14	Soil	09/21/10 03:03	09/22/10 09:31
ADL-24C	1009133-15	Soil	09/21/10 03:05	09/22/10 09:31
ADL-25A	1009133-16	Soil	09/21/10 03:19	09/22/10 09:31
ADL-25B	1009133-17	Soil	09/21/10 03:33	09/22/10 09:31
ADL-25C	1009133-18	Soil	09/21/10 03:35	09/22/10 09:31
ADL-26A	1009133-19	Soil	09/21/10 04:38	09/22/10 09:31
ADL-26B	1009133-20	Soil	09/21/10 04:45	09/22/10 09:31
ADL-26C	1009133-21	Soil	09/21/10 04:47	09/22/10 09:31
ADL-27A	1009133-22	Soil	09/21/10 04:54	09/22/10 09:31
ADL-27B	1009133-23	Soil	09/21/10 05:00	09/22/10 09:31
ADL-27C	1009133-24	Soil	09/21/10 05:02	09/22/10 09:31
ADL-28A	1009133-25	Soil	09/21/10 05:11	09/22/10 09:31
ADL-28B	1009133-26	Soil	09/21/10 05:25	09/22/10 09:31
ADL-28C	1009133-27	Soil	09/21/10 05:27	09/22/10 09:31
ADL-29A	1009133-28	Soil	09/21/10 05:43	09/22/10 09:31
ADL-29B	1009133-29	Soil	09/21/10 05:48	09/22/10 09:31

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Laboratory Representative


Excelchem Environmental Labs

Blackburn 11521 Blocker Dr, Suite 110 Auburn, CA 95603	Project: Project Number: Project Manager:	Silva Valley 556.3 Dave Buck	Date Reported: 10/01/10 15:57
--	---	------------------------------------	----------------------------------

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL-29C	1009133-30	Soil	09/21/10 05:50	09/22/10 09:31

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Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

ADL-20A
1009133-01 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	185	1.0	mg/kg	AT10215	09/24/10	09/25/10	EPA 6010B	
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--	--	----------------------------------

**ADL-20B
1009133-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
METALS BY 6000/7000 SERIES								
Lead	311	1.0	mg/kg	ATI0215	09/24/10	09/25/10	EPA 6010B	
Wet Chemistry								
pH	7.26	0.100	pH Units	ATI0219	09/27/10	09/27/10	EPA 9045	

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Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

**ADL-20C
1009133-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	ND	1.0	mg/kg	ATI0215	09/24/10	09/27/10	EPA 6010B	
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Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

ADL-21A
1009133-04 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	83.9	1.0	mg/kg	AT10215	09/24/10	09/27/10	EPA 6010B	
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Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

ADL-21B
1009133-05 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	650	1.0	mg/kg	AT10215	09/24/10	09/27/10	EPA 6010B	
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Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

**ADL-21C
1009133-06 (Soil)**

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	5.1	1.0	mg/kg	AT10215	09/24/10	09/27/10	EPA 6010B	
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Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

ADL-22A
1009133-07 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	13.1	1.0	mg/kg	AT10215	09/24/10	09/27/10	EPA 6010B	
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Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

ADL-22B
1009133-08 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	37.5	1.0	mg/kg	AT10215	09/24/10	09/27/10	EPA 6010B	
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Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

ADL-22C
1009133-09 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	116	1.0	mg/kg	AT10215	09/24/10	09/27/10	EPA 6010B	
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Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

ADL-23A
1009133-10 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	13.4	1.0	mg/kg	ATI0215	09/24/10	09/25/10	EPA 6010B	
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Wet Chemistry

pH	6.86	0.100	pH Units	ATI0219	09/27/10	09/27/10	EPA 9045	
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Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

ADL-23B
1009133-11 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	465	1.0	mg/kg	AT10215	09/24/10	09/25/10	EPA 6010B	
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Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

ADL-23C
1009133-12 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	5.2	1.0	mg/kg	AT10215	09/24/10	09/25/10	EPA 6010B	
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Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

ADL-24A
1009133-13 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	43.6	1.0	mg/kg	AT10215	09/24/10	09/25/10	EPA 6010B	
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Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

ADL-24B
1009133-14 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	647	1.0	mg/kg	AT10215	09/24/10	09/25/10	EPA 6010B	
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Date Reported:
10/01/10 15:57

ADL-24C
1009133-15 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	127	1.0	mg/kg	AT10215	09/24/10	09/25/10	EPA 6010B	
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Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

ADL-25A
1009133-16 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	284	1.0	mg/kg	AT10215	09/24/10	09/25/10	EPA 6010B	
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Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

**ADL-25B
1009133-17 (Soil)**

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	4.5	1.0	mg/kg	ATI0215	09/24/10	09/25/10	EPA 6010B	
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Wet Chemistry

pH	7.53	0.100	pH Units	ATI0219	09/27/10	09/27/10	EPA 9045	
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Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

**ADL-25C
1009133-18 (Soil)**

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	2.5	1.0	mg/kg	AT10215	09/24/10	09/25/10	EPA 6010B	
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Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

ADL-26A
1009133-19 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	1510	1.0	mg/kg	AT10215	09/24/10	09/25/10	EPA 6010B	
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Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

ADL-26B
1009133-20 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	46.6	1.0	mg/kg	AT10215	09/24/10	09/25/10	EPA 6010B	
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Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

ADL-26C
1009133-21 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	7.7	1.0	mg/kg	AT10216	09/24/10	09/25/10	EPA 6010B	
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Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

ADL-27A
1009133-22 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	712	1.0	mg/kg	AT10216	09/24/10	09/25/10	EPA 6010B	
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Date Reported:
10/01/10 15:57

ADL-27B
1009133-23 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	88.7	1.0	mg/kg	AT10216	09/24/10	09/25/10	EPA 6010B	
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Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

ADL-27C
1009133-24 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	2.8	1.0	mg/kg	AT10216	09/24/10	09/25/10	EPA 6010B	
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Date Reported:
10/01/10 15:57

ADL-28A
1009133-25 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	1540	1.0	mg/kg	AT10216	09/24/10	09/25/10	EPA 6010B	
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Date Reported:
10/01/10 15:57

ADL-28B
1009133-26 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	15.6	1.0	mg/kg	AT10216	09/24/10	09/25/10	EPA 6010B	
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Project Manager: Dave Buck

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ADL-28C
1009133-27 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	4.2	1.0	mg/kg	AT10216	09/24/10	09/25/10	EPA 6010B	
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Date Reported:
10/01/10 15:57

**ADL-29A
1009133-28 (Soil)**

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	15.7	1.0	mg/kg	ATI0216	09/24/10	09/25/10	EPA 6010B	
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Wet Chemistry

pH	6.65	0.100	pH Units	ATI0219	09/27/10	09/27/10	EPA 9045	
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Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

ADL-29B
1009133-29 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	413	1.0	mg/kg	AT10216	09/24/10	09/25/10	EPA 6010B	
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Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

ADL-29C
1009133-30 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	18.3	1.0	mg/kg	AT10216	09/24/10	09/25/10	EPA 6010B	
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Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

METALS BY 6000/7000 SERIES - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch ATI0215 - EPA 6010B

Blank (ATI0215-BLK1)

Prepared: 09/24/10 Analyzed: 10/01/10

Lead	ND	1.0	mg/kg							
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LCS (ATI0215-BS1)

Prepared: 09/24/10 Analyzed: 09/25/10

Lead	95.3	1.0	mg/kg	100	95.3	80-120				
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LCS Dup (ATI0215-BSD1)

Prepared: 09/24/10 Analyzed: 09/25/10

Lead	103	1.0	mg/kg	100	103	80-120	7.26	25		
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Matrix Spike (ATI0215-MS1)

Source: 1009133-01

Prepared: 09/24/10 Analyzed: 09/29/10

Lead	291	1.0	mg/kg	100	185	106	75-125			
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Matrix Spike Dup (ATI0215-MSD1)

Source: 1009133-01

Prepared: 09/24/10 Analyzed: 09/30/10

Lead	306	1.0	mg/kg	100	185	122	75-125	5.07	25	
------	-----	-----	-------	-----	-----	-----	--------	------	----	--

Batch ATI0216 - EPA 6010B

Blank (ATI0216-BLK1)

Prepared: 09/24/10 Analyzed: 09/27/10

Lead	ND	1.0	mg/kg							
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LCS (ATI0216-BS1)

Prepared: 09/24/10 Analyzed: 09/27/10

Lead	98.5	1.0	mg/kg	100	98.5	80-120				
------	------	-----	-------	-----	------	--------	--	--	--	--

LCS Dup (ATI0216-BSD1)

Prepared: 09/24/10 Analyzed: 09/27/10

Lead	101	1.0	mg/kg	100	101	80-120	2.99	25		
------	-----	-----	-------	-----	-----	--------	------	----	--	--

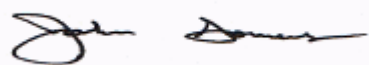
Matrix Spike (ATI0216-MS1)

Source: 1009133-21

Prepared: 09/24/10 Analyzed: 09/29/10

Lead	105	1.0	mg/kg	100	7.66	96.9	75-125			
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Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Excelchem Environmental Labs

Blackburn 11521 Blocker Dr, Suite 110 Auburn, CA 95603	Project: Project Number: Project Manager:	Silva Valley 556.3 Dave Buck	Date Reported: 10/01/10 15:57
--	---	------------------------------------	----------------------------------


METALS BY 6000/7000 SERIES - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch ATI0216 - EPA 6010B

Matrix Spike Dup (ATI0216-MSD1)		Source: 1009133-21		Prepared: 09/24/10		Analyzed: 09/29/10				
Lead	105	1.0	mg/kg	100	7.66	97.1	75-125	0.127	25	

Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

Blackburn 11521 Blocker Dr, Suite 110 Auburn, CA 95603	Project: Project Number: Project Manager:	Silva Valley 556.3 Dave Buck	Date Reported: 10/01/10 15:57
--	---	------------------------------------	----------------------------------

Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch ATI0219 - EPA 9045


Duplicate (ATI0219-DUP1)

Source: 1009133-02

Prepared & Analyzed: 09/27/10

pH	7.10	0.100	pH Units		7.26			2.23	20	
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Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603


Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

Notes and Definitions

ND Analyte not detected at reporting limit.
NR Not reported

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST			Electronic Data Deliverables Request:		Email Address:																					
1135 W. Sunset Blvd., Unit A Rocklin, Ca. 95765 Ph: 916-543-4445 Fax: 916-543-4449			Phone #: 530-887-1494		daveb@blackburnconsulting.com																					
Project Manager: Dave Buck			Company/Address: Blackburn Consulting (BC)		Electronic Data Deliverables Request:																					
11521 Blocker Dr. #110 Auburn, CA 95603			Project Number/P.O#: 556.3		daveb@blackburnconsulting.com																					
Project Location: El Dorado Hills			Project Name: Silva Valley		Page 1 of 3																					
Sampler Signature: [Signature]			Requested TAT: 12hr/24hr/48hr/72hr/1wk		LAB USE ONLY																					
Sample ID	Sampling	Date	Time	Container	Method of Preservation	Matrix	BTEX - TPH as Gasoline (802/802.1/8015)	TPH as Diesel (8015m)	TPH as Oil (8015m)	Total Oil & Grease (SM-12th 5520)164	Pesticides (603/603A) - PCBs (6082)	Organophosphorus Pesticide (8143)	Chlorinated Herbicides (8151)	Semi VOC Full List (8270C)	VOC Full List (8260B)	MTBE (8020/8260B) circle the method	Methanol (8015M) Ethanol (8260)	5 Oxygenates (8260B)	Lead Scavengers DCNECB (8260B)	Tph/TEX/5 Oxygenates (8260B)	Metals = Pb	Metals =	Nitrate, Nitrite, Ammonia, Kjeldahl	Chloride, Sulfate, pH, Conductance	Requested TAT:	Bt#
ADL-20	A	9/21/10	12:07	PLASTIC	None/Other	SOIL																				01
	B		2:30																							02
	C		12:40																							03
ADL-21	A	1:59																								04
	B		2:03																							05
	C		2:05																							06
ADL-22	A	2:15																								07
	B		2:21																							08
	C		2:23																							09
ADL-23	A	2:34																								10
	B		2:45																							11
	C		2:47																							12
Retinquished by: [Signature]							Date	Time	Received by: [Signature]				Remarks/Condition of Sample:													
Retinquished by: [Signature]							9/21/10	9:31	S-B																	
							Date	Time	Received by Laboratory:				Bill To:													

Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

Excelchem Environmental Labs		1135 W. Sunset Blvd, Unit A Rocklin, Ca. 95765 Ph: 916-543-4445 Fx: 916-543-4449					
Project Manager: Dave Buck		Phone #: 530-887-1494					
Company/Address: BCI		Fax #:					
Project Number/Client: 556.3 / P.O.# 10043		Project Name: Silva Valley					
Project Location: El Dorado Hills		Sampler/Signature: <i>[Signature]</i>					
Sample ID	Sampling Date Time (AM)	Container	Method of Preservation				
			None/Other	WATER	SOIL		
Sample ID	Date	Time	HCl	HNO3	ICE	Matrix	
							PLASTIC
ADL-24 A	9/21	2:58					
B		3:03					
C		3:05					
ADL-25 A		3:19					
B		3:33					
C		3:35					
ADL-26 A		4:26					
B		4:45					
C		4:47					
ADL-27 A		4:54					
B		5:00					
C		5:02					

Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>
Date: 9/21/10	Date: 9/31/10
Time: 5:02	Time: 2:30

Relinquished by: <i>[Signature]</i>	Received by Laboratory:
Date:	Date:
Time:	Time:

Electronic Data Deliverables Request:	
Requested TAT: 12hr/24hr/48hr/72hr/WK	Requested TAT: PH
Requested TAT: PH	

ANALYSIS REQUEST	
Metals =	Pg
Metals =	
Metals =	
Triph/BTEX's Oxygenates (8260B)	
Lead Scavengers DCA/EDB (8260B)	
5 Oxygenates (8260B)	
Methanol (8015M) Ethanol (8260)	
MTBE (8020/8260B) circle the method	
VOC Full list (8260B)	
Semi VOC Full list (8270C)	
Chlorinated Herbicides (8151)	
Organophosphorus Pesticide (8141)	
Pesticides (602/8081A) - PCBs (8082)	
Total Oil & Grease (SM-18th 5520) 1664	
TPH as Oil (8015M)	
TPH as Diesel (8015M)	
BTEX - TPH as Gasoline (602/8021/8015)	

Requested TAT: 12hr/24hr/48hr/72hr/WK	LAB USE ONLY
13	
14	
15	
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18	
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23	
24	

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST		ANALYSIS REQUEST																				
<p>1135 W. Sunset Blvd., Unit A Redlin, Ca. 95765 Ph: 916-543-4445 Fax: 916-543-4449</p> <p>Project Manager: Dave Buck Company/Address: BCI</p>		<p>Project Name: Silva Valley Signature: [Signature]</p> <p>Project Number/P.O.#: 556.3 / P.O.# 10043 Project Location: El Dorado Hills</p>																				
<p>Electronic Data Deliverables Request: dave@blackburnconsulting.com</p>		<p>Requested TAT: 12hr/24hr/48hr/72hr (TWK) Lab Use ONLY:</p>																				
<p>Phone # 510-887-1494 Fax #</p>		<p>Requested TAT: 25, 26, 27, 28, 29, 30</p>																				
Sample ID	Date	Time	Sampling	Container			Method of Preservation			Matrix												
				VOA	TL GLASS	PLASTIC	HCI	HNO3	ICE		None/Other	WATER	SOIL	AIR								
ADL-28 A	9/21	5:11	(AM)	X			X															
B		5:25																				
C		5:27																				
ADL-29 A		5:43																				
B		5:48																				
C		5:50																				
				Carrier Number			Tedlar or Summa			Matrix			Date		Time		Retinquired by:		Retinquired by:		Remarks/Condition of Sample:	
				PLASTIC			PLASTIC			None/Other			9/21/10		9:31		[Signature]		[Signature]			
				SLEEVE			None/Other			None/Other			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				TL GLASS			None/Other			None/Other			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				VOA			None/Other			None/Other			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				HCl			None/Other			None/Other			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				HNO3			None/Other			None/Other			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				Ice			None/Other			None/Other			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				None/Other			None/Other			None/Other			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				Water			None/Other			None/Other			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				Soil			None/Other			None/Other			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				Air			None/Other			None/Other			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				Metal =			Metal =			Metal =			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				Metal =			Metal =			Metal =			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				Metal =			Metal =			Metal =			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				TPH as Diesel (8015m)			TPH as Diesel (8015m)			TPH as Diesel (8015m)			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				TPH as Oil (8015m)			TPH as Oil (8015m)			TPH as Oil (8015m)			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				Total Oil & Grease (SM-18m 5520) 1664			Total Oil & Grease (SM-18m 5520) 1664			Total Oil & Grease (SM-18m 5520) 1664			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				Pesticides (608/8081A) - PCBs (8082)			Pesticides (608/8081A) - PCBs (8082)			Pesticides (608/8081A) - PCBs (8082)			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				Organophosphorous Pesticide (8141)			Organophosphorous Pesticide (8141)			Organophosphorous Pesticide (8141)			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				Chlorinated Herbicides (8151)			Chlorinated Herbicides (8151)			Chlorinated Herbicides (8151)			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				Semi VOC Full List (8270C)			Semi VOC Full List (8270C)			Semi VOC Full List (8270C)			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				VOC Full List (8260B)			VOC Full List (8260B)			VOC Full List (8260B)			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				MTBE (8020/8260B) circle the method			MTBE (8020/8260B) circle the method			MTBE (8020/8260B) circle the method			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				Methanol (8015M) Ethanol (8260)			Methanol (8015M) Ethanol (8260)			Methanol (8015M) Ethanol (8260)			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				5 Oxygenates (8260B)			5 Oxygenates (8260B)			5 Oxygenates (8260B)			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				Lead Scavengers DCA/EDB (8260B)			Lead Scavengers DCA/EDB (8260B)			Lead Scavengers DCA/EDB (8260B)			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				Tmg/BTEX/5 Oxygenates (8260B)			Tmg/BTEX/5 Oxygenates (8260B)			Tmg/BTEX/5 Oxygenates (8260B)			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				Metals =			Metals =			Metals =			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				Metals =			Metals =			Metals =			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				Metals =			Metals =			Metals =			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				Nitrate, Nitrite, Ammonia, Kjeldahl			Nitrate, Nitrite, Ammonia, Kjeldahl			Nitrate, Nitrite, Ammonia, Kjeldahl			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				Chloride, Sulfate, Sulfide, ph, conductance			Chloride, Sulfate, Sulfide, ph, conductance			Chloride, Sulfate, Sulfide, ph, conductance			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				Requested TAT: 25, 26, 27, 28, 29, 30			Requested TAT: 25, 26, 27, 28, 29, 30			Requested TAT: 25, 26, 27, 28, 29, 30			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	
				LAB USE ONLY:			LAB USE ONLY:			LAB USE ONLY:			Date		Time		Received by Laboratory:		Received by Laboratory:		Bill To:	

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/01/10 15:57

Sample Integrity

WORK ORDER 1009133

Date Received: 9/22/10

Section 1 - Sample Arrival Info.

Sample Transport: ONTRAC UPS USPS Walk-In EXCELCHEM Courier Fed-Ex Other: _____
 Transported In: Ice Chest Box Hand
 Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: N/A
 Has chilling process begun? Y N Samples Received: Chilled to Touch / Ambient / On
 Temperature of Samples (°C): 7 Ice Chest Temperature(s) (°C): 2
 Was temperature In Range?: Y N

Section 2 - Bottle/Analysis Info.

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?			<input checked="" type="checkbox"/>	<u>1095</u>
Did all bottle labels agree with COC?	<input checked="" type="checkbox"/>			
Were correct containers used for the tests requested?	<input checked="" type="checkbox"/>			
Were correct preservations used for the tests requested?			<input checked="" type="checkbox"/>	
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>			
Were bubbles present in VOA Vials?: (Volatile Methods Only)			<input checked="" type="checkbox"/>	

Section 3 - COC Info.

	Completed		Info From Container	Completed		Comments
	Yes	No		Yes	No	
Was COC Received	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Date Sampled	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Time Sampled	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	
Sample ID	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Rush TAT		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
Analysis Requested				<input checked="" type="checkbox"/>		
Samples arrived within holding time				<input checked="" type="checkbox"/>		
Any hold times less than 72 hrs					<input checked="" type="checkbox"/>	
Client Name				<input checked="" type="checkbox"/>		
Address/Telephone #				<input checked="" type="checkbox"/>		

Section 4 - Comments / Discrepancies

Was Client notified of discrepancies: Yes No (N/A) Notified by: _____
 Explanations / Comments:

Samples Labeled by: SA
 Labels reviewed by: ASB
 Bin #: 527
 COC Scanned/Attached by: S

Form completed by: [Signature] Date/Time: 9/22/10 11:57

[Signature]

EXCELCHEM
Environmental Labs

1135 W Sunset Boulevard
Suite A
Rocklin, CA 95765
Phone# 916-543-4445
Fax# 916-543-4449



ELAP Certificate No. : 2119

04 October 2010

Dave Buck

Blackburn

11521 Blocker Dr, Suite 110

Auburn, CA 95603

RE: Silva Valley

Workorder number:1009175

Enclosed are the results of analyses for samples received by the laboratory on 09/28/10 12:30. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

John Somers, Lab Director

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/04/10 15:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL-30A	1009175-01	Soil	09/24/10 11:30	09/28/10 12:30
ADL-31A	1009175-02	Soil	09/24/10 12:00	09/28/10 12:30
ADL-32A	1009175-03	Soil	09/24/10 12:20	09/28/10 12:30

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/04/10 15:44

ADL-30A
1009175-01 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	6.5	1.0	mg/kg	ATJ0008	09/29/10	10/01/10	EPA 6010B	
------	-----	-----	-------	---------	----------	----------	-----------	--

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/04/10 15:44

ADL-31A
1009175-02 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	6.0	1.0	mg/kg	ATJ0008	09/29/10	10/01/10	EPA 6010B	
------	-----	-----	-------	---------	----------	----------	-----------	--

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/04/10 15:44

ADL-32A
1009175-03 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Lead	91.1	1.0	mg/kg	ATJ0008	09/29/10	10/01/10	EPA 6010B	
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Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn 11521 Blocker Dr, Suite 110 Auburn, CA 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Date Reported: 10/04/10 15:44
--	--	----------------------------------

METALS BY 6000/7000 SERIES - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch ATJ0008 - EPA 6010B

Blank (ATJ0008-BLK1)

Prepared: 09/29/10 Analyzed: 10/01/10

Lead	ND	1.0	mg/kg	
------	----	-----	-------	--

LCS (ATJ0008-BS1)

Prepared: 09/29/10 Analyzed: 10/01/10

Lead	101	1.0	mg/kg	100	101	80-120
------	-----	-----	-------	-----	-----	--------

LCS Dup (ATJ0008-BSD1)

Prepared: 09/29/10 Analyzed: 10/01/10

Lead	102	1.0	mg/kg	100	102	80-120	1.40	25
------	-----	-----	-------	-----	-----	--------	------	----

Matrix Spike (ATJ0008-MS1)

Source: 1009175-01

Prepared: 09/29/10 Analyzed: 10/01/10

Lead	101	1.0	mg/kg	100	6.55	94.3	75-125
------	-----	-----	-------	-----	------	------	--------


Matrix Spike Dup (ATJ0008-MSD1)

Source: 1009175-01

Prepared: 09/29/10 Analyzed: 10/01/10

Lead	90.6	1.0	mg/kg	100	6.55	84.0	75-125	10.7	25
------	------	-----	-------	-----	------	------	--------	------	----

Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/04/10 15:44

Notes and Definitions

ND Analyte not detected at reporting limit.
NR Not reported

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Date Reported:
10/04/10 15:44

WORK ORDER 1009175

Date Received: 9-28

Section 1 - Sample Arrival Info.

Sample Transport: ONTRAC UPS USPS Walk-In EXCELCHEM Courier Fed-Ex Other: _____

Transported In: Ice Chest Box Hand

Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: N/A

Has chilling process begun? (Y) N

Temperature of Samples (°C): :6 Samples Received: Chilled to Touch / Ambient (Y) Or

Ice Chest Temperature(s) (°C): 5

Was temperature In Range?: (Y) N

Section 2 - Bottle/Analysis Info.

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?	<input checked="" type="checkbox"/>			
Did all bottle labels agree with COC?	<input checked="" type="checkbox"/>			
Were correct containers used for the tests requested?	<input checked="" type="checkbox"/>			
Were correct preservations used for the tests requested?	<input checked="" type="checkbox"/>			
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>			
Were bubbles present in VOA Vials?: (Volatile Methods Only)	<input checked="" type="checkbox"/>			

Section 3 - COC Info.

	Completed		Info From Container	Completed		Comments
	Yes	No		Yes	No	
Was COC Received	<input checked="" type="checkbox"/>					
Date Sampled	<input checked="" type="checkbox"/>					
Time Sampled	<input checked="" type="checkbox"/>					
Sample ID	<input checked="" type="checkbox"/>					
Rush TAT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Analysis Requested				<input checked="" type="checkbox"/>		
Samples arrived within holding time				<input checked="" type="checkbox"/>		
Any hold times less than 72 hrs					<input checked="" type="checkbox"/>	
Client Name				<input checked="" type="checkbox"/>		
Address/Telephone #				<input checked="" type="checkbox"/>		

Section 4 - Comments / Discrepancies

Was Client notified of discrepancies: Yes No (N/A) Notified by: _____

Explanations / Comments:

Samples Labeled by: RS
Labels reviewed by: FP
Bin #: 526
COC Scanned/Attached by: RS

Form completed by: [Signature] Date/Time: 9/28/10 13:01

[Signature]

EXCELCHEM
Environmental Labs

1135 W Sunset Boulevard
Suite A
Rocklin, CA 95765
Phone# 916-543-4445
Fax# 916-543-4449



ELAP Certificate No. : 2119

19 October 2010

Dave Buck

Blackburn

11521 Blocker Dr, Suite 110

Auburn, CA 95603

RE: Silva Valley

Workorder number:1010027

Enclosed are the results of analyses for samples received by the laboratory on 10/05/10 16:24. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

John Somers, Lab Director

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL-1A	1010027-01	Soil	07/19/10 14:05	10/05/10 16:24
ADL-4A	1010027-02	Soil	07/19/10 16:10	10/05/10 16:24
ADL-12A	1010027-03	Soil	09/13/10 01:38	10/05/10 16:24
ADL-13A	1010027-04	Soil	09/14/10 20:47	10/05/10 16:24
ADL-13B	1010027-05	Soil	09/14/10 21:00	10/05/10 16:24
ADL-14A	1010027-06	Soil	09/14/10 21:24	10/05/10 16:24
ADL-15A	1010027-07	Soil	09/14/10 22:33	10/05/10 16:24
ADL-15B	1010027-08	Soil	09/14/10 22:41	10/05/10 16:24
ADL-16A	1010027-09	Soil	09/14/10 23:26	10/05/10 16:24
ADL-16B	1010027-10	Soil	09/14/10 23:35	10/05/10 16:24
ADL-19A	1010027-11	Soil	09/15/10 12:43	10/05/10 16:24
ADL-20A	1010027-12	Soil	09/21/10 00:27	10/05/10 16:24
ADL-20B	1010027-13	Soil	09/21/10 00:38	10/05/10 16:24
ADL-21A	1010027-14	Soil	09/21/10 01:59	10/05/10 16:24
ADL-21B	1010027-15	Soil	09/21/10 02:03	10/05/10 16:24
ADL-22C	1010027-16	Soil	09/21/10 02:23	10/05/10 16:24
ADL-24B	1010027-17	Soil	09/21/10 03:03	10/05/10 16:24
ADL-24C	1010027-18	Soil	09/21/10 03:05	10/05/10 16:24
ADL-25A	1010027-19	Soil	09/21/10 03:19	10/05/10 16:24
ADL-26A	1010027-20	Soil	09/21/10 04:38	10/05/10 16:24
ADL-27A	1010027-21	Soil	09/21/10 04:54	10/05/10 16:24
ADL-27B	1010027-22	Soil	09/21/10 05:00	10/05/10 16:24
ADL-28A	1010027-23	Soil	09/21/10 05:11	10/05/10 16:24
ADL-29B	1010027-24	Soil	09/21/10 05:48	10/05/10 16:24
ADL-32A	1010027-25	Soil	09/24/10 12:20	10/05/10 16:24

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ADL-1A
1010027-01 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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STLC analysis

Lead	2.1	0.2	mg/L	ATJ0148	10/15/10	10/19/10	EPA 6010B	
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Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ADL-4A
1010027-02 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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STLC analysis

Lead	0.3	0.2	mg/L	ATJ0148	10/15/10	10/19/10	EPA 6010B	
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Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ADL-12A
1010027-03 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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STLC analysis

Lead	ND	0.2	mg/L	ATJ0148	10/15/10	10/19/10	EPA 6010B	
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Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ADL-13A
1010027-04 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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STLC analysis

Lead	0.5	0.2	mg/L	ATJ0148	10/15/10	10/19/10	EPA 6010B	
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Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ADL-13B
1010027-05 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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STLC analysis

Lead	1.7	0.2	mg/L	ATJ0148	10/15/10	10/19/10	EPA 6010B	
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Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ADL-14A
1010027-06 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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STLC analysis

Lead	5.5	0.2	mg/L	ATJ0148	10/15/10	10/19/10	EPA 6010B	
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Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ADL-15A
1010027-07 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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STLC analysis

Lead	1.4	0.2	mg/L	ATJ0148	10/15/10	10/19/10	EPA 6010B	
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Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ADL-15B
1010027-08 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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STLC analysis

Lead	1.7	0.2	mg/L	ATJ0148	10/15/10	10/19/10	EPA 6010B	
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Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ADL-16A
1010027-09 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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STLC analysis

Lead	17.8	0.2	mg/L	ATJ0148	10/15/10	10/19/10	EPA 6010B	
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Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ADL-16B
1010027-10 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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STLC analysis

Lead	3.6	0.2	mg/L	ATJ0148	10/15/10	10/19/10	EPA 6010B	
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Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ADL-19A
1010027-11 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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STLC analysis

Lead	5.7	0.2	mg/L	ATJ0148	10/15/10	10/19/10	EPA 6010B	
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Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ADL-20A
1010027-12 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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STLC analysis

Lead	4.2	0.2	mg/L	ATJ0148	10/15/10	10/19/10	EPA 6010B	
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Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ADL-20B
1010027-13 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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STLC analysis

Lead	5.2	0.2	mg/L	ATJ0148	10/15/10	10/19/10	EPA 6010B	
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Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ADL-21A
1010027-14 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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STLC analysis

Lead	0.8	0.2	mg/L	ATJ0148	10/15/10	10/19/10	EPA 6010B	
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11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ADL-21B
1010027-15 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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STLC analysis

Lead	9.2	0.2	mg/L	ATJ0148	10/15/10	10/19/10	EPA 6010B	
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11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ADL-22C
1010027-16 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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STLC analysis

Lead	ND	0.2	mg/L	ATJ0148	10/15/10	10/19/10	EPA 6010B	
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Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ADL-24B
1010027-17 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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STLC analysis

Lead	6.1	0.2	mg/L	ATJ0148	10/15/10	10/19/10	EPA 6010B	
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Laboratory Representative

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11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ADL-24C
1010027-18 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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STLC analysis

Lead	3.0	0.2	mg/L	ATJ0148	10/15/10	10/19/10	EPA 6010B	
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Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ADL-25A
1010027-19 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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STLC analysis

Lead	13.3	0.2	mg/L	ATJ0148	10/15/10	10/19/10	EPA 6010B	
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11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ADL-26A
1010027-20 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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STLC analysis

Lead	38.3	0.2	mg/L	ATJ0148	10/15/10	10/19/10	EPA 6010B	
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Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

**ADL-27A
1010027-21 (Soil)**

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
STLC analysis								
Lead	29.6	0.2	mg/L	ATJ0149	10/15/10	10/19/10	EPA 6010B	
Wet Chemistry								
pH	6.06	0.100	pH Units	ATJ0076	10/08/10	10/11/10	EPA 9045	O-13

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Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ADL-27B
1010027-22 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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STLC analysis

Lead	2.5	0.2	mg/L	ATJ0149	10/15/10	10/19/10	EPA 6010B	
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Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ADL-28A
1010027-23 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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STLC analysis

Lead	59.8	0.2	mg/L	ATJ0149	10/15/10	10/19/10	EPA 6010B	
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Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ADL-29B
1010027-24 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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STLC analysis

Lead	7.0	0.2	mg/L	ATJ0149	10/15/10	10/19/10	EPA 6010B	
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Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

ADL-32A
1010027-25 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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STLC analysis

Lead	1.0	0.2	mg/L	ATJ0149	10/15/10	10/19/10	EPA 6010B	
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Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

STLC analysis - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch ATJ0148 - EPA 6010B

Blank (ATJ0148-BLK1)

Prepared: 10/15/10 Analyzed: 10/19/10

Lead	ND	0.2	mg/L
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LCS (ATJ0148-BS1)

Prepared: 10/15/10 Analyzed: 10/19/10

Lead	20.8	0.2	mg/L	20.0	104	80-120
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LCS Dup (ATJ0148-BSD1)

Prepared: 10/15/10 Analyzed: 10/19/10

Lead	19.7	0.2	mg/L	20.0	98.3	80-120	5.39	25
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Matrix Spike (ATJ0148-MS1)

Source: 1010027-01

Prepared: 10/15/10 Analyzed: 10/19/10

Lead	23.0	0.2	mg/L	20.0	2.07	105	75-125
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Matrix Spike Dup (ATJ0148-MSD1)

Source: 1010027-01

Prepared: 10/15/10 Analyzed: 10/19/10

Lead	23.5	0.2	mg/L	20.0	2.07	107	75-125	2.24	25
------	------	-----	------	------	------	-----	--------	------	----

Batch ATJ0149 - EPA 6010B

Blank (ATJ0149-BLK1)

Prepared: 10/15/10 Analyzed: 10/19/10

Lead	ND	0.2	mg/L
------	----	-----	------

LCS (ATJ0149-BS1)

Prepared: 10/15/10 Analyzed: 10/19/10

Lead	20.9	0.2	mg/L	20.0	105	80-120
------	------	-----	------	------	-----	--------

LCS Dup (ATJ0149-BSD1)

Prepared: 10/15/10 Analyzed: 10/19/10

Lead	20.5	0.2	mg/L	20.0	102	80-120	2.19	25
------	------	-----	------	------	-----	--------	------	----

Matrix Spike (ATJ0149-MS1)

Source: 1010027-25

Prepared: 10/15/10 Analyzed: 10/19/10

Lead	21.9	0.2	mg/L	20.0	1.01	104	75-125
------	------	-----	------	------	------	-----	--------

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn 11521 Blocker Dr, Suite 110 Auburn, CA 95603	Project: Silva Valley Project Number: 556.2 Project Manager: Dave Buck	Date Reported: 10/19/10 17:33
--	--	----------------------------------


STLC analysis - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch ATJ0149 - EPA 6010B

Matrix Spike Dup (ATJ0149-MSD1)		Source: 1010027-25		Prepared: 10/15/10	Analyzed: 10/19/10					
Lead	22.1	0.2	mg/L	20.0	1.01	106	75-125	1.27	25	

Excelchem Environmental Lab.



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Excelchem Environmental Labs

Blackburn 11521 Blocker Dr, Suite 110 Auburn, CA 95603	Project: Project Number: Project Manager:	Silva Valley 556.2 Dave Buck	Date Reported: 10/19/10 17:33
--	---	------------------------------------	----------------------------------


Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch ATJ0076 - EPA 9045

Duplicate (ATJ0076-DUP1)	Source: 1010027-21	Prepared: 10/08/10	Analyzed: 10/11/10			
pH	6.06	0.100	pH Units	6.06	0.00	20

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Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

Notes and Definitions

- O-13 This analysis was requested outside of the EPA recommended hold time. It was performed as soon as possible.
- ND Analyte not detected at reporting limit.
- NR Not reported

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Excelchem Environmental Labs

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11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

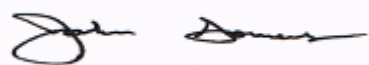
WO # 101002
Bin: S13, S16
S27 + S
Due Date: 10/12/10

Project: Silva Valley BCI Project # 556.2 or 556.3
Please analyze the following for WET lead

	<u>Excelchem Workorder #</u>
ADL - 1A	1007107
4A	"
12A	1009096
13A	↓
13B	
14A	↓
15A	
15B	↓
16A	
16B	↓
19A	
20A	1009133
20B	↓
21A	
21B	↓
22C	
24B	↓
24C	
25A	↓
26A	
27A	↓
27B	
28A	↓
29B	
32A	1009175

Also please run ppt on this sample

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Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST		Page <u> </u> of <u> </u>
<p>Excelchem Environmental Labs 1155 W. Sunset Blvd., Unit A Roshar, Ca. 95766 Ph: 916-543-4445 Fx: 916-543-4449</p> <p>Project Manager: David Buck Company/Address: Blackburn Consulting 11521 Blocker Dr., Suite 110 Auburn, CA 95603</p> <p>Project Number/P.O. #: 556.2 Project Location: Hwy 50 @ Silva Valley</p>	<p>Electronic Data Deliverables Request: daveb@blackburnconsulting.com</p> <p>Phone #: 520-887-1494</p> <p>Project Name: Silva Valley Sample Signature: <i>[Signature]</i></p> <p>Container: PLASTIC 2 L Sleeve: VOA Date/Time: 7/19/10 05:20</p>	<p>Requested TAT: 12hr/24hr/48hr/72hr/1wk Due Date: 7/28/10 Work Order: 100710</p> <p>LAB USE ONLY</p>
<p>Sample ID</p> <p>ADL-1A -1B -1C -2A 2B 2C 3A 3B 3C 4A 4B 4C</p>	<p>Sampling</p> <p>Date Time</p> <p>7/19/10 05:20 2:20 2:25 2:40 2:45 2:50 3:15 3:20 3:25 4:10 4:15 4:20</p>	<p>Method of Preservation</p> <p>None/Other ICE HNO3 HCl</p> <p>Matrix</p> <p>AIR SOIL WATER</p>
<p>ANALYSIS REQUEST</p> <p>Metals = Pb</p> <p>Metals =</p> <p>Metals =</p> <p>TPH as Oil (8015m)</p> <p>TPH as Diesel (8015m)</p> <p>TPH as Oil & Grease (SM-18m 5520)164</p> <p>Total Oil & Grease (SM-18m 5520)164</p> <p>Pesticides (609/9081A) - PCBs (6082)</p> <p>Organophosphorus Pesticide (8141)</p> <p>Chlorinated Herbicides (8151)</p> <p>Semi VOC Full List (6270C)</p> <p>VOC Full List (8260B)</p> <p>MTBE (8020/8260B) circle the method</p> <p>Methanol (8015M) Ethanol (8260)</p> <p>5 Oxygenates (8260B)</p> <p>Lead Scavengers DCA/EDB (8260B)</p> <p>TPH/BTEX/5 Oxygenates (8260B)</p> <p>Metals =</p> <p>Nitrate, Nitrite, Ammonia, Kjeldahl</p> <p>Chloride, Sulfate, Sulfide, pH, conductance</p>		
<p>Requisitioned by: <i>[Signature]</i></p> <p>Requisitioned by: <i>[Signature]</i></p>		<p>Remarks/Condition of Sample:</p> <p>Bill To:</p>
<p>Date Time: 7/21/10 10:29 AM</p> <p>Date Time: 7/21/10 11:15</p>		<p>Received by: <i>[Signature]</i></p> <p>Received by Laboratory: <i>[Signature]</i></p>

Excelchem Environmental Lab.

[Signature]

Laboratory Representative

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Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

Sample Integrity

WORK ORDER 1007107

Date Received: 7/21/10

Section 1 - Sample Arrival Info.

Sample Transport: ONTRAC UPS USPS Walk-In EXCELCHEM Courier Fed-Ex Other: _____
 Transported In: Ice Chest Box Hand
 Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: ice
 Has chilling process begun? Y N Samples Received: Chilled to Touch / Ambient / On Ice
 Temperature of Samples (°C): 0 Ice Chest Temperature(s) (°C): -2
 Was temperature In Range?: Y N

Section 2 - Bottle/Analysis Info.

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?	<input checked="" type="checkbox"/>			
Did all bottle labels agree with COC?	<input checked="" type="checkbox"/>			
Were correct containers used for the tests requested?	<input checked="" type="checkbox"/>			
Were correct preservations used for the tests requested?			<input checked="" type="checkbox"/>	
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>			
Were bubbles present in VOA Vials?: (Volatile Methods Only)			<input checked="" type="checkbox"/>	

Section 3 - COC Info.

	Completed		Info From Container	Completed		Comments
	Yes	No		Yes	No	
Was COC Received	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Date Sampled	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Time Sampled	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	
Sample ID	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Rush TAT		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
Analysis Requested				<input checked="" type="checkbox"/>		
Samples arrived within holding time				<input checked="" type="checkbox"/>		
Any hold times less than 72 hrs					<input checked="" type="checkbox"/>	
Client Name				<input checked="" type="checkbox"/>		
Address/Telephone #				<input checked="" type="checkbox"/>		

Section 4 - Comments / Discrepancies

Was Client notified of discrepancies: Yes No N/A Notified by: _____

Explanations / Comments: _____

Samples Labeled by: ay
 Labels reviewed by: [Signature]
 Bin #s: 3-13
 COC Scanned/Attached by: ay

Form completed by: [Signature] Date/Time: 7/21/10 11:15

[Signature]

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603


Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

Excelchem Environmental Labs		1135 W. Sunset Blvd, Unit A Roslindale, Ca. 95765 Ph: 916-543-4445 Fx: 916-503-4449		CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST					
Project Manager: Dave Buck		Phone #: 530-887-1494		Electronic Data Deliverables Request: <i>daveb@blackburnconsulting.com</i>					
Company Address: BCI 11521 Blocker Dr. # 110 Auburn, CA 95603		Fax #:		Email Address:					
Project Number/ID: PO.# 10043		Project Name: Silva Valley		Page 1 of 2					
Project Location: El Dorado Hills		Sample Signature: <i>Kate Plun</i>		Requested TAT: 12h/24h/48h/72h/1wk					
Sample ID	Date	Time	Sampling	Container			Matrix	Method of Preservation	Remarks/Condition of Sample
				VOA	SLEEVE	TL GLASS			
ADL-12 A	9/13	11:38							
" B		11:40							
" C		11:45							
ADL-13 A	9/14	8:47 AM							
" B		9:00							
" C									
ADL-14 A		9:24 AM							
" B		9:35 AM							
" C		9:37 AM							
ADL-15 A		10:33 AM							
" B		10:34 AM							
" C		10:35 AM							
Relinquished by: <i>Kate Plun</i>		Date	Time	Received by:		Received by Laboratory:		Bill To:	
		9/16/10	10:30	<i>S. Buck</i>					

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST		ANALYSIS REQUEST											
<p>1135 W. Sunset Blvd., Unit A Roodin, Ca. 95765 Ph: 916-543-4445 Fax: 916-543-4419</p> <p>Project Manager: Dave Buck Company/Address: BCI</p> <p>Phone #: 530-887-1494 Fax #: 530-887-1494</p>		<p>Project Name: Silva Valley Sampler Signature: <i>[Signature]</i></p> <p>Project Location: El Dorado Hills</p>											
<p>Electronic Data Deliverables Request: daveb@blackburnconsulting.com</p> <p>Email Address:</p>		<p>Requested TAT: 12hr/24hr/48hr/72hr/1wk</p> <p>LAB USE ONLY:</p>											
Sample ID	Date	Time	Matrix	Method of Preservation				Container				Remarks/Condition of Sample:	
				None/Other	ICE	HNO3	HCl	SLEAVE	TL GLASS	PLASTIC	Tedar or Summa		Cannister Number
ADL-16 A	9/14	11:16 AM	SOIL	X				X					
" B		11:35	WATER		X								
" C		11:37	N/A										
ADL-17 A	9/15	12:05	SOIL										
" B		12:13	WATER		X								
" C		12:15	N/A										
ADL-18 A		12:23	SOIL										
" B		12:53	WATER		X								
" C		12:35	N/A										
ADL-19 A		12:43	SOIL										
" B		12:48	WATER		X								
" C		12:50	N/A										
Requisitioned by:		Received by:		Date		Time		Date		Time		Bill To:	
<i>[Signature]</i>		<i>[Signature]</i>		9/16/10		10:30		9/16/10		10:30		Excelchem Environmental Labs	

Excelchem Environmental Lab.

[Signature]

Laboratory Representative

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Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

Sample Integrity

WORK ORDER 1009096

Date Received: 9/16/10

Section 1 - Sample Arrival Info.

Sample Transport: ONTRAC UPS USPS Walk-In EXCELCHEM Courier Fed-Ex Other: _____
 Transported In: Ice Chest Box Hand
 Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: N/A
 Has chilling process begun? Y N Samples Received: Chilled to Touch / Ambient C
 Temperature of Samples (°C): 6 Ice Chest Temperature(s) (°C): 3
 Was temperature In Range?: Y N

Section 2 - Bottle/Analysis Info.

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?			<input checked="" type="checkbox"/>	
Did all bottle labels agree with COC?	<input checked="" type="checkbox"/>			Bags not bottles
Were correct containers used for the tests requested?	<input checked="" type="checkbox"/>			
Were correct preservations used for the tests requested?			<input checked="" type="checkbox"/>	
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>			
Were bubbles present in VOA Vials?: (Volatile Methods Only)			<input checked="" type="checkbox"/>	

Section 3 - COC Info.

	Completed		Info From Container	Completed		Comments
	Yes	No		Yes	No	
Was COC Received	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Date Sampled	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Time Sampled	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	
Sample ID	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Rush TAT		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
Analysis Requested				<input checked="" type="checkbox"/>		
Samples arrived within holding time					<input checked="" type="checkbox"/>	
Any hold times less than 72 hrs					<input checked="" type="checkbox"/>	
Client Name				<input checked="" type="checkbox"/>		
Address/Telephone #				<input checked="" type="checkbox"/>		

Section 4 - Comments / Discrepancies

Was Client notified of discrepancies: Yes No N/A Notified by: _____

Explanations / Comments:

Samples Labeled by: SA
 Labels reviewed by: SA
 Bin #: 516
 COC Scanned/Attached by: _____

Form completed by: S. [Signature] Date/Time: 9/16/10



Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST		ANALYSIS REQUEST	
Excelchem Environmental Labs 1135 W. Sunset Blvd., Unit A Redlin, Ca. 95765 Ph: 916-543-4445 Fx: 916-543-4449 Project Manager: Dave Buck Company Address: Blackburn Consulting (BC) 11521 Blocker-Dr. #110 Auburn, CA 95603 Project Number: 556.3 Project Location: El Dorado Hills		Project Name: Silva Valley Sampler Signature: <i>[Signature]</i> Project Number: 556.3 Project Location: El Dorado Hills	
Electronic Data Deliverables Request: Email Address: daveb@blackburnconsulting.com		Requested TAT: 12hr/24hr/48hr/72hr/1wk BPH: 527 Lab Date: 10/19/10 Work Order: 1007133 L/8 USE ONLY	
Page 1 of 3		Wet: <input checked="" type="checkbox"/> PH Total: <input checked="" type="checkbox"/> PH Metals = <input checked="" type="checkbox"/> PH Metals = <input checked="" type="checkbox"/> PH Tphg/TEX/5 Oxygenates (8260B) Lead Scavengers DCA/ED8 (8260B) 5 Oxygenates (8260B) Methanol (8015M) Ethanol (8260) MTBE (8020/8260B) circle the method VOC Full list (8260B) Semi VOC Full list (8270C) Chlorinated Herbicides (8151) Organophosphorus Pesticide (8141) Pesticides (808/8081A) - PCBs (8082) Total Oil & Grease (SM-18th 5520) 1664 TPH as Oil (8015M) TPH as Diesel (8015M) BTEX - TPH as Gasoline (802/8021/8015)	
Matrix: <input checked="" type="checkbox"/> AIR <input checked="" type="checkbox"/> SOIL <input checked="" type="checkbox"/> WATER <input checked="" type="checkbox"/> None/Other		Method of Preservation: <input checked="" type="checkbox"/> ICE <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> HCl Canister or Summa: <input checked="" type="checkbox"/> Teflon <input checked="" type="checkbox"/> PLASTIC <input checked="" type="checkbox"/> TL GLASS <input checked="" type="checkbox"/> SLEEVE VOA: <input checked="" type="checkbox"/> 2.147	
Sampling Date: 10/21/10 Time: 12:07 (AM)		Date: 10/21/10 Time: 12:36	
Sample ID: ADL-20 A B C		Date: 12:40 Time: 1:59	
Sample ID: ADL-21 A B C		Date: 2:03 Time: 2:05	
Sample ID: ADL-22 A B C		Date: 2:21 Time: 2:23	
Sample ID: ADL-23 A B C		Date: 2:34 Time: 2:45	
Requisitioned by: <i>[Signature]</i>		Date: 10/21/10 Time: 9:31	
Requisitioned by: <i>[Signature]</i>		Date: 10/21/10 Time: 9:31	
Remarks/Condition of Sample:		Bill To:	

Excelchem Environmental Lab.

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[Signature]

Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

Excelchem Environmental Labs		1135 W. Sunset Blvd, Unit A Rocklin, Ca. 95765 Ph: 916-543-4445 Fx: 916-543-4449		CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST		
Project Manager: Dave Buck		Phone #: 530-887-1494		Email Address:		
Company/Address: BCI		Fax #:		Electronic Data Deliverables Request:		
Project Number/Client: 556.3 / P.O.# 10043		Project Name: Silva Valley		Page 2 of 3		
Project Location: El Dorado Hills		Sampler/Signature: <i>[Signature]</i>				
Sample ID	Date	Time (AM)	Container		Requested TAT: 12hr/24hr/48hr/72hr/WK	
			Method of Preservation	Matrix		
ADL-24	A	2:58	PLASTIC	None/Other	ANALYSIS REQUEST <input type="checkbox"/> Metals = <input type="checkbox"/> Metals = <input checked="" type="checkbox"/> Metals = Pg <input type="checkbox"/> Trp/BTEX's Oxygenates (8260B) <input type="checkbox"/> Lead Scavengers DCA/EDB (8260B) <input type="checkbox"/> 5 Oxygenates (8260B) <input type="checkbox"/> Methanol (8015M) Ethanol (8260) <input type="checkbox"/> MTBE (8020/8260B) circle the method <input type="checkbox"/> VOC Full list (8260B) <input type="checkbox"/> Semi VOC Full list (8270C) <input type="checkbox"/> Chlorinated Herbicides (8151) <input type="checkbox"/> Organophosphorus Pesticide (8141) <input type="checkbox"/> Pesticides (602/8081A) - PCBs (8082) <input type="checkbox"/> Total Oil & Grease (SM-18th 5520) 1664 <input type="checkbox"/> TPH as Oil (8015M) <input type="checkbox"/> TPH as Diesel (8015M) <input type="checkbox"/> BTEX - TPH as Gasoline (602/8021/8015)	
	B	3:03	PLASTIC	None/Other		
	C	3:05	PLASTIC	None/Other		
ADL-25	A	3:19	PLASTIC	None/Other		
	B	3:33	PLASTIC	None/Other		
	C	3:35	PLASTIC	None/Other		
ADL-26	A	4:26	PLASTIC	None/Other		
	B	4:45	PLASTIC	None/Other		
	C	4:47	PLASTIC	None/Other		
ADL-27	A	4:54	PLASTIC	None/Other		
	B	5:00	PLASTIC	None/Other		
	C	5:02	PLASTIC	None/Other		
Relinquished by: <i>[Signature]</i>			Received by: <i>[Signature]</i>			Remarks/Condition of Sample:
Date: 9/2/10			Date: 9/3/10			
Relinquished by: <i>[Signature]</i>			Received by Laboratory:			Bill To:
Date:			Date:			

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST			ANALYSIS REQUEST			
Excelchem Environmental Labs 1135 W. Sunset Blvd., Unit A Redlin, Ca. 95765 Ph: 916-543-4445 Fax: 916-543-4449			Project Name: Silva Valley Sample Signature: <i>[Signature]</i> Project Location: El Dorado Hills			
Project Manager: Dave Buck Company/Address: BCI			Project Number/P.O.#: 556.3 / P.O.# 10043			
Electronic Data Deliverables Request: Email Address: dave@blackburnconsulting.com			Requested TAT: 12hr/24hr/48hr/72hr (TWK)			
Phone # 510-887-1494 Fax #			Due Date: 9/29/10 Work Order #: 1009133			
Sample ID	Date	Time	Container			Matrix
			VOA	TL GLASS	PLASTIC	
ADL-28 A	9/21	5:11 (AM)	X			AIR
B		5:25				SOIL
C		5:27				WATER
ADL-29 A		5:43				None/Other
B		5:48				ICE
C		5:50				HNO3
						HCl
						Tedlar or Summa
						Cannister Number
						Remarks/Condition of Sample:
Relinquished by: <i>[Signature]</i>			Received by: <i>[Signature]</i>			
Relinquished by: <i>[Signature]</i>			Received by Laboratory:			
Date: 9/21/10			Date: 9/31			
Time: 9:33			Time:			
Bill To:						

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

Sample Integrity

WORK ORDER 1009133

Date Received: 9/22/10

Section 1 - Sample Arrival Info.

Sample Transport: ONTRAC UPS USPS Walk-In EXCELCHEM Courier Fed-Ex Other: _____
 Transported In: Ice Chest Box Hand
 Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: N/A
 Has chilling process begun? Y N Samples Received: Chilled to Touch / Ambient / On
 Temperature of Samples (°C): 7 Ice Chest Temperature(s) (°C): 2
 Was temperature In Range?: Y N

Section 2 - Bottle/Analysis Info.

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?			<input checked="" type="checkbox"/>	<u>1095</u>
Did all bottle labels agree with COC?	<input checked="" type="checkbox"/>			
Were correct containers used for the tests requested?	<input checked="" type="checkbox"/>			
Were correct preservations used for the tests requested?			<input checked="" type="checkbox"/>	
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>			
Were bubbles present in VOA Vials?: (Volatile Methods Only)			<input checked="" type="checkbox"/>	

Section 3 - COC Info.

	Completed		Info From Container	Completed		Comments
	Yes	No		Yes	No	
Was COC Received	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Date Sampled	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Time Sampled	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	
Sample ID	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Rush TAT		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
Analysis Requested				<input checked="" type="checkbox"/>		
Samples arrived within holding time				<input checked="" type="checkbox"/>		
Any hold times less than 72 hrs					<input checked="" type="checkbox"/>	
Client Name				<input checked="" type="checkbox"/>		
Address/Telephone #				<input checked="" type="checkbox"/>		

Section 4 - Comments / Discrepancies

Was Client notified of discrepancies: Yes No (N/A) Notified by: _____
 Explanations / Comments:

Samples Labeled by: SK
 Labels reviewed by: TSB
 Bin #: 527
 COC Scanned/Attached by: S

Form completed by: [Signature] Date/Time: 9/22/10
115

[Signature]

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/19/10 17:33

Sample Integrity

Date Received: 9-28

WORK ORDER 1009175

Section 1 - Sample Arrival Info.

Sample Transport: ONTRAC UPS USPS Walk-In EXCELCHEM Courier Fed-Ex Other: _____

Transported In: Ice Chest Box Hand

Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: N/A

Has chilling process begun? (Y) N

Temperature of Samples (°C): :6 Samples Received: Chilled to Touch / Ambient (Y) Or

Ice Chest Temperature(s) (°C): 5

Was temperature In Range?: (Y) N

Section 2 - Bottle/Analysis Info.

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?	<input checked="" type="checkbox"/>			
Did all bottle labels agree with COC?	<input checked="" type="checkbox"/>			
Were correct containers used for the tests requested?	<input checked="" type="checkbox"/>			
Were correct preservations used for the tests requested?	<input checked="" type="checkbox"/>			
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>			
Were bubbles present in VOA Vials?: (Volatile Methods Only)			<input checked="" type="checkbox"/>	

Section 3 - COC Info.

	Completed		Info From Container	Completed		Comments
	Yes	No		Yes	No	
Was COC Received	<input checked="" type="checkbox"/>					
Date Sampled	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Time Sampled	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Sample ID	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	
Rush TAT		<input checked="" type="checkbox"/>				
Analysis Requested				<input checked="" type="checkbox"/>		
Samples arrived within holding time				<input checked="" type="checkbox"/>		
Any hold times less than 72 hrs					<input checked="" type="checkbox"/>	
Client Name				<input checked="" type="checkbox"/>		
Address/Telephone #				<input checked="" type="checkbox"/>		

Section 4 - Comments / Discrepancies

Was Client notified of discrepancies: Yes No (N/A) Notified by: _____

Explanations / Comments:

Samples Labeled by: RS
Labels reviewed by: FP
Bin #: 526
COC Scanned/Attached by: RS

Form completed by: [Signature] Date/Time: 9/28/10 13:01

[Signature]

EXCELCHEM
Environmental Labs

1135 W Sunset Boulevard
Suite A
Rocklin, CA 95765
Phone# 916-543-4445
Fax# 916-543-4449



ELAP Certificate No. : 2119

27 October 2010

Dave Buck

Blackburn

11521 Blocker Dr, Suite 110

Auburn, CA 95603

RE: Silva Valley

Workorder number:1010131

Enclosed are the results of analyses for samples received by the laboratory on 10/21/10 12:41. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

John Somers, Lab Director

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/27/10 16:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL-16A	1010131-01	Soil	09/14/10 23:26	10/21/10 12:41
ADL-21B	1010131-02	Soil	09/21/10 02:03	10/21/10 12:41
ADL-26A	1010131-03	Soil	09/21/10 04:38	10/21/10 12:41
ADL-28A	1010131-04	Soil	09/21/10 05:11	10/21/10 12:41

Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/27/10 16:24

ADL-16A
1010131-01 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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WET-DI analysis

Lead	ND	10.0	ug/l	ATJ0238	10/25/10	10/26/10	EPA 6010B	
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Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/27/10 16:24

ADL-21B
1010131-02 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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WET-DI analysis

Lead	16.3	10.0	ug/l	ATJ0238	10/25/10	10/26/10	EPA 6010B	
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Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/27/10 16:24

ADL-26A
1010131-03 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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WET-DI analysis

Lead	109	10.0	ug/l	ATJ0238	10/25/10	10/26/10	EPA 6010B	
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Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/27/10 16:24

ADL-28A
1010131-04 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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WET-DI analysis

Lead	73.9	10.0	ug/l	ATJ0238	10/25/10	10/26/10	EPA 6010B	
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Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Blackburn 11521 Blocker Dr, Suite 110 Auburn, CA 95603	Project: Silva Valley Project Number: 556.2 Project Manager: Dave Buck	Date Reported: 10/27/10 16:24
--	--	----------------------------------


WET-DI analysis - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch ATJ0238 - EPA 6010B

Blank (ATJ0238-BLK1)				Prepared: 10/25/10 Analyzed: 10/26/10						
Lead	ND	10.0	ug/l							
LCS (ATJ0238-BS1)				Prepared: 10/25/10 Analyzed: 10/26/10						
Lead	991	10.0	ug/l	1000		99.1	80-120			
LCS Dup (ATJ0238-BSD1)				Prepared: 10/25/10 Analyzed: 10/26/10						
Lead	1020	10.0	ug/l	1000		102	80-120	2.94	25	
Matrix Spike (ATJ0238-MS1)		Source: 1010131-01		Prepared: 10/25/10 Analyzed: 10/26/10						
Lead	1070	10.0	ug/l	1000	7.17	107	75-125			
Matrix Spike Dup (ATJ0238-MSD1)		Source: 1010131-01		Prepared: 10/25/10 Analyzed: 10/26/10						
Lead	1030	10.0	ug/l	1000	7.17	103	75-125	3.83	25	

Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/27/10 16:24

Notes and Definitions

ND Analyte not detected at reporting limit.
NR Not reported

Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/27/10 16:24

S13

STAT

Work Order: 1010
Bin: S2
Due: 10/28/10

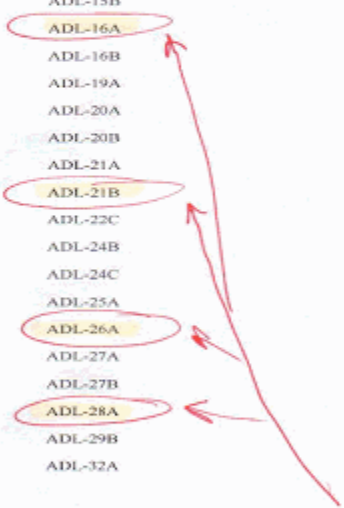
Excelchem Environmental Labs	
Blackburn 11521 Blocker Dr, Suite 110 Auburn, CA 95603	Project: Silva Valley Project Number: 556.2 Project Manager: Dave Buck
Date Reported: 10/19/10 17:33	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL-1A	1010027-01	Soil	07/19/10 14:05	10/05/10 16:24
ADL-4A	1010027-02	Soil	07/19/10 16:10	10/05/10 16:24
ADL-12A	1010027-03	Soil	09/13/10 01:38	10/05/10 16:24
ADL-13A	1010027-04	Soil	09/14/10 20:47	10/05/10 16:24
ADL-13B	1010027-05	Soil	09/14/10 21:00	10/05/10 16:24
ADL-14A	1010027-06	Soil	09/14/10 21:24	10/05/10 16:24
ADL-15A	1010027-07	Soil	09/14/10 22:33	10/05/10 16:24
ADL-15B	1010027-08	Soil	09/14/10 22:41	10/05/10 16:24
ADL-16A	1010027-09	Soil	09/14/10 23:26	10/05/10 16:24
ADL-16B	1010027-10	Soil	09/14/10 23:35	10/05/10 16:24
ADL-19A	1010027-11	Soil	09/15/10 12:43	10/05/10 16:24
ADL-20A	1010027-12	Soil	09/21/10 00:27	10/05/10 16:24
ADL-20B	1010027-13	Soil	09/21/10 00:38	10/05/10 16:24
ADL-21A	1010027-14	Soil	09/21/10 01:59	10/05/10 16:24
ADL-21B	1010027-15	Soil	09/21/10 02:03	10/05/10 16:24
ADL-22C	1010027-16	Soil	09/21/10 02:23	10/05/10 16:24
ADL-24B	1010027-17	Soil	09/21/10 03:03	10/05/10 16:24
ADL-24C	1010027-18	Soil	09/21/10 03:05	10/05/10 16:24
ADL-25A	1010027-19	Soil	09/21/10 03:19	10/05/10 16:24
ADL-26A	1010027-20	Soil	09/21/10 04:38	10/05/10 16:24
ADL-27A	1010027-21	Soil	09/21/10 04:54	10/05/10 16:24
ADL-27B	1010027-22	Soil	09/21/10 05:00	10/05/10 16:24
ADL-28A	1010027-23	Soil	09/21/10 05:11	10/05/10 16:24
ADL-29B	1010027-24	Soil	09/21/10 05:48	10/05/10 16:24
ADL-32A	1010027-25	Soil	09/24/10 12:20	10/05/10 16:24

S16

S27



Run DI WET lead

Excelchem Environmental Lab.

Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Dave 10/27/10
Received: Gault 10/27/10

Page 1 of 30

Excelchem Environmental Lab.

Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
10/27/10 16:24

Sample Integrity

WORK ORDER 1010131

Date Received: 10/21/10

Section 1 - Sample Arrival Info.

Sample Transport: ONTRAC Already inhouse UPS USPS Walk-In EXCELCHEM Courier Fed-Ex Other: _____

Transported In: Ice Chest Box Hand N/A

Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: NONE

Has chilling process begun? Y N Samples Received: Chilled to Touch / Ambient / On Ice

Temperature of Samples (°C): 6 Ice Chest Temperature(s) (°C): _____

Was temperature In Range?: Y N

Section 2 - Bottle/Analysis Info.

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?	<input checked="" type="checkbox"/>			
Did all bottle labels agree with COC?	<input checked="" type="checkbox"/>			
Were correct containers used for the tests requested?	<input checked="" type="checkbox"/>			
Were correct preservations used for the tests requested?			<input checked="" type="checkbox"/>	
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>			
Were bubbles present in VOA Vials?: (Volatile Methods Only)			<input checked="" type="checkbox"/>	

Section 3 - COC Info.

	Completed		Info From Container	Completed		Comments
	Yes	No		Yes	No	
Was COC Received	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Date Sampled	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Time Sampled	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	
Sample ID	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Rush TAT		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
Analysis Requested				<input checked="" type="checkbox"/>		
Samples arrived within holding time				<input checked="" type="checkbox"/>		
Any hold times less than 72 hrs					<input checked="" type="checkbox"/>	
Client Name				<input checked="" type="checkbox"/>		
Address/Telephone #				<input checked="" type="checkbox"/>		

Section 4 - Comments / Discrepancies

Was Client notified of discrepancies: Yes No N/A Notified by: _____

Explanations / Comments: _____

Samples Labeled by: DB
Labels reviewed by: DB
Bin #s: 32
COC Scanned/Attached by: DB

Form completed by: Sandra Vega Date/Time: 10/21/10 17



EXCELCHEM
Environmental Labs

1135 W Sunset Boulevard
Suite A
Rocklin, CA 95765
Phone# 916-543-4445
Fax# 916-543-4449



ELAP Certificate No. : 2119

10 November 2010

Dave Buck

Blackburn

11521 Blocker Dr, Suite 110

Auburn, CA 95603

RE: Silva Valley

Workorder number:1011019

Enclosed are the results of analyses for samples received by the laboratory on 11/02/10 16:10. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

John Somers, Lab Director

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
11/10/10 14:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL-1A	1011019-01	Soil	07/19/10 14:05	11/02/10 16:10
ADL-4A	1011019-02	Soil	07/19/10 16:10	11/02/10 16:10
ADL-13A	1011019-03	Soil	09/14/10 20:47	11/02/10 16:10
ADL-13B	1011019-04	Soil	09/14/10 21:00	11/02/10 16:10
ADL-14A	1011019-05	Soil	09/14/10 21:24	11/02/10 16:10
ADL-15B	1011019-06	Soil	09/14/10 22:41	11/02/10 16:10
ADL-16B	1011019-07	Soil	09/14/10 23:35	11/02/10 16:10
ADL-19A	1011019-08	Soil	09/15/10 12:43	11/02/10 16:10
ADL-20B	1011019-09	Soil	09/21/10 00:38	11/02/10 16:10
ADL-22C	1011019-10	Soil	09/21/10 02:23	11/02/10 16:10
ADL-24B	1011019-11	Soil	09/21/10 03:03	11/02/10 16:10
ADL-24C	1011019-12	Soil	09/21/10 03:05	11/02/10 16:10
ADL-25A	1011019-13	Soil	09/21/10 03:19	11/02/10 16:10
ADL-27A	1011019-14	Soil	09/21/10 04:54	11/02/10 16:10
ADL-29B	1011019-15	Soil	09/21/10 05:48	11/02/10 16:10
ADL-16A	1011019-16	Soil	09/14/10 23:26	11/02/10 16:10
ADL-26A	1011019-17	Soil	09/21/10 04:38	11/02/10 16:10
ADL-28A	1011019-18	Soil	09/21/10 05:11	11/02/10 16:10

Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
11/10/10 14:29

ADL-1A
1011019-01 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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WET-DI analysis

Lead	ND	10.0	ug/l	ATK0055	11/08/10	11/09/10	EPA 6010B	
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Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
11/10/10 14:29

ADL-4A
1011019-02 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

WET-DI analysis

Lead	ND	10.0	ug/l	ATK0055	11/08/10	11/09/10	EPA 6010B	
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Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
11/10/10 14:29

ADL-13A
1011019-03 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

WET-DI analysis

Lead	20.1	10.0	ug/l	ATK0055	11/08/10	11/09/10	EPA 6010B	
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Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
11/10/10 14:29

ADL-13B
1011019-04 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

WET-DI analysis

Lead	ND	10.0	ug/l	ATK0055	11/08/10	11/09/10	EPA 6010B	
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Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
11/10/10 14:29

ADL-14A
1011019-05 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

WET-DI analysis

Lead	ND	10.0	ug/l	ATK0055	11/08/10	11/09/10	EPA 6010B	
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Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
11/10/10 14:29

ADL-15B
1011019-06 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

WET-DI analysis

Lead	ND	10.0	ug/l	ATK0055	11/08/10	11/09/10	EPA 6010B	
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Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
11/10/10 14:29

ADL-16B
1011019-07 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

WET-DI analysis

Lead	ND	10.0	ug/l	ATK0055	11/08/10	11/09/10	EPA 6010B	
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Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
11/10/10 14:29

ADL-19A
1011019-08 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

WET-DI analysis

Lead	ND	10.0	ug/l	ATK0055	11/08/10	11/09/10	EPA 6010B	
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Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
11/10/10 14:29

ADL-20B
1011019-09 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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WET-DI analysis

Lead	ND	10.0	ug/l	ATK0055	11/08/10	11/09/10	EPA 6010B	
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Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
11/10/10 14:29

ADL-22C
1011019-10 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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WET-DI analysis

Lead	ND	10.0	ug/l	ATK0055	11/08/10	11/09/10	EPA 6010B	
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Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
11/10/10 14:29


ADL-24B
1011019-11 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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WET-DI analysis

Lead	ND	10.0	ug/l	ATK0055	11/08/10	11/09/10	EPA 6010B	
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Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
11/10/10 14:29

ADL-24C
1011019-12 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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WET-DI analysis

Lead	ND	10.0	ug/l	ATK0055	11/08/10	11/09/10	EPA 6010B	
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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
11/10/10 14:29


ADL-25A
1011019-13 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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WET-DI analysis

Lead	65.2	10.0	ug/l	ATK0055	11/08/10	11/09/10	EPA 6010B	
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Excelchem Environmental Lab.



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Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
11/10/10 14:29

ADL-27A
1011019-14 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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WET-DI analysis

Lead	48.8	10.0	ug/l	ATK0055	11/08/10	11/09/10	EPA 6010B	
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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
11/10/10 14:29

ADL-29B
1011019-15 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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WET-DI analysis

Lead	11.1	10.0	ug/l	ATK0055	11/08/10	11/09/10	EPA 6010B	
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Blackburn
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Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
11/10/10 14:29

ADL-16A
1011019-16 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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TCLP analysis

Lead	2.0	0.2	mg/L	ATK0035	11/03/10	11/04/10	EPA 6010B	
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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
11/10/10 14:29


ADL-26A
1011019-17 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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TCLP analysis

Lead	1.9	0.2	mg/L	ATK0035	11/03/10	11/04/10	EPA 6010B	
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Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
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Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
11/10/10 14:29

ADL-28A
1011019-18 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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TCLP analysis

Lead	7.4	0.2	mg/L	ATK0035	11/03/10	11/04/10	EPA 6010B	
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Laboratory Representative

Excelchem Environmental Labs

Blackburn 11521 Blocker Dr, Suite 110 Auburn, CA 95603	Project: Silva Valley Project Number: 556.2 Project Manager: Dave Buck	Date Reported: 11/10/10 14:29
--	--	----------------------------------

WET-DI analysis - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch ATK0055 - EPA 6010B

Blank (ATK0055-BLK1)

Prepared: 11/08/10 Analyzed: 11/09/10

Lead	ND	10.0	ug/l							
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LCS (ATK0055-BS1)

Prepared: 11/08/10 Analyzed: 11/09/10

Lead	1030	10.0	ug/l	1000		103	80-120			
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LCS Dup (ATK0055-BSD1)

Prepared: 11/08/10 Analyzed: 11/09/10

Lead	1090	10.0	ug/l	1000		109	80-120	5.26	25	
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Matrix Spike (ATK0055-MS1)

Source: 1011019-01

Prepared: 11/08/10 Analyzed: 11/09/10

Lead	1060	10.0	ug/l	1000	6.24	105	75-125			
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Matrix Spike Dup (ATK0055-MSD1)

Source: 1011019-01

Prepared: 11/08/10 Analyzed: 11/09/10

Lead	1020	10.0	ug/l	1000	6.24	102	75-125	3.30	25	
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Excelchem Environmental Lab.



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Excelchem Environmental Labs

Blackburn 11521 Blocker Dr, Suite 110 Auburn, CA 95603	Project: Silva Valley Project Number: 556.2 Project Manager: Dave Buck	Date Reported: 11/10/10 14:29
--	--	----------------------------------

TCLP analysis - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch ATK0035 - EPA 6010B

Blank (ATK0035-BLK1)				Prepared: 11/03/10 Analyzed: 11/04/10						
Lead	ND	0.2	mg/L							
LCS (ATK0035-BS1)				Prepared: 11/03/10 Analyzed: 11/04/10						
Lead	21.7	0.2	mg/L	20.0		108	80-120			
LCS Dup (ATK0035-BSD1)				Prepared: 11/03/10 Analyzed: 11/04/10						
Lead	21.3	0.2	mg/L	20.0		106	80-120	1.91	25	
Matrix Spike (ATK0035-MS1)		Source: 1011019-16		Prepared: 11/03/10 Analyzed: 11/04/10						
Lead	22.4	0.2	mg/L	20.0	1.95	102	75-125			
Matrix Spike Dup (ATK0035-MSD1)		Source: 1011019-16		Prepared: 11/03/10 Analyzed: 11/04/10						
Lead	22.3	0.2	mg/L	20.0	1.95	102	75-125	0.490	25	

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Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
11/10/10 14:29

Notes and Definitions

ND Analyte not detected at reporting limit.

NR Not reported

Excelchem Environmental Lab.

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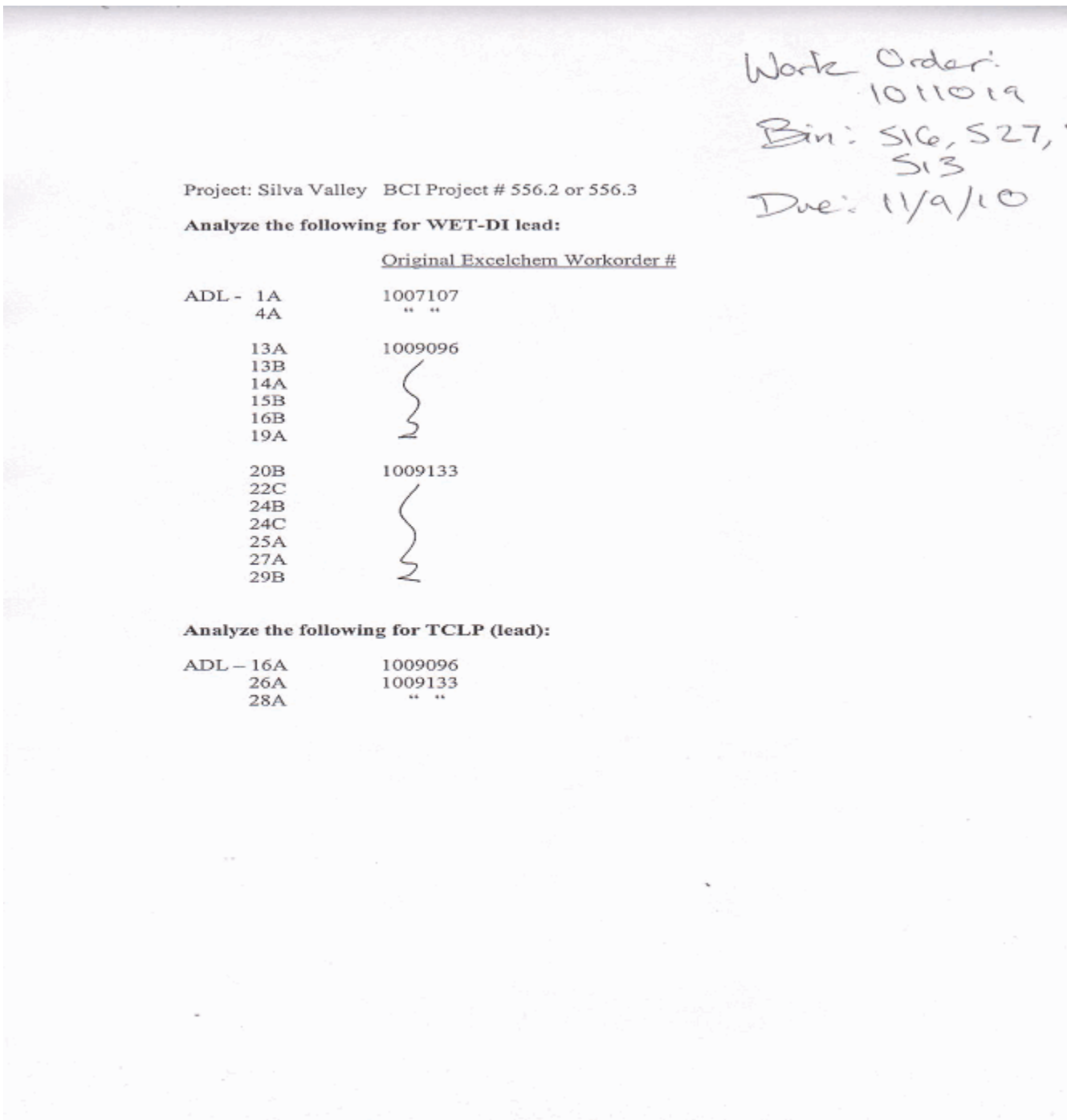
Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
11/10/10 14:29



Excelchem Environmental Lab.

Laboratory Representative

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Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Silva Valley
Project Number: 556.2
Project Manager: Dave Buck

Date Reported:
11/10/10 14:29

Page 1 of 1

Excelchem Frontdesk

From: Dave Buck [daveb@blackburnconsulting.com]

Sent: Tuesday, November 02, 2010 1:51 PM

To: Excelchem Frontdesk

Subject: Silva Valley - Additional Analyses

Please run the attached analyses, standard TAT. This will be billed to our P.O. # 10043.

Thanks

Dve Buck, P.G., C.E.G

Senior Project Manager

Blackburn Consulting

Office: (530) 887-1494 Fax: (530) 887-1495

e-mail: daveb@blackburnconsulting.com

11521 Blocker Dr., Suite 110 Auburn, CA 95603

www.blackburnconsulting.com

11/2/2010

Excelchem Environmental Lab.



Laboratory Representative

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Page 2 of 2



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

18 November 2011

Dave Buck
Blackburn Consulting
11521 Blocker Dr #110
Auburn, CA 95603
RE: Silva Valley

Enclosed are the results of analyses for samples received by the laboratory on 11/11/11 09:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao For Daniel Chavez
Project Manager

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Reported:
11/18/11 13:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL-33A	T111684-01	Soil	11/07/11 09:30	11/11/11 09:00
ADL-33B	T111684-02	Soil	11/07/11 09:40	11/11/11 09:00
ADL-33C	T111684-03	Soil	11/07/11 09:50	11/11/11 09:00
ADL-34A	T111684-04	Soil	11/07/11 10:00	11/11/11 09:00
ADL-34B	T111684-05	Soil	11/07/11 10:05	11/11/11 09:00
ADL-35A	T111684-06	Soil	11/07/11 10:15	11/11/11 09:00
ADL-35B	T111684-07	Soil	11/07/11 10:30	11/11/11 09:00
ADL-36A	T111684-08	Soil	11/07/11 11:15	11/11/11 09:00
ADL-36B	T111684-09	Soil	11/07/11 11:25	11/11/11 09:00
ADL-37A	T111684-10	Soil	11/07/11 11:35	11/11/11 09:00
ADL-37B	T111684-11	Soil	11/07/11 11:50	11/11/11 09:00
ADL-38A	T111684-12	Soil	11/07/11 12:35	11/11/11 09:00
ADL-38B	T111684-13	Soil	11/07/11 12:40	11/11/11 09:00
ADL-38C	T111684-14	Soil	11/07/11 13:00	11/11/11 09:00
ADL-39A	T111684-15	Soil	11/07/11 13:10	11/11/11 09:00
ADL-39B	T111684-16	Soil	11/07/11 13:20	11/11/11 09:00
ADL-39C	T111684-17	Soil	11/07/11 13:30	11/11/11 09:00
ADL-40A	T111684-18	Soil	11/07/11 14:00	11/11/11 09:00
ADL-40B	T111684-19	Soil	11/07/11 14:20	11/11/11 09:00
ADL-41A	T111684-20	Soil	11/07/11 14:30	11/11/11 09:00
ADL-41B	T111684-21	Soil	11/07/11 14:40	11/11/11 09:00
ADL-42A	T111684-22	Soil	11/07/11 14:45	11/11/11 09:00
ADL-42B	T111684-23	Soil	11/07/11 14:50	11/11/11 09:00
ADL-42C	T111684-24	Soil	11/07/11 15:00	11/11/11 09:00
ADL-43A	T111684-25	Soil	11/09/11 09:30	11/11/11 09:00
ADL-43B	T111684-26	Soil	11/09/11 09:40	11/11/11 09:00

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Reported:
11/18/11 13:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL-43C	T111684-27	Soil	11/09/11 09:45	11/11/11 09:00
ADL-44A	T111684-28	Soil	11/09/11 09:50	11/11/11 09:00
ADL-44B	T111684-29	Soil	11/09/11 10:00	11/11/11 09:00
ADL-44C	T111684-30	Soil	11/09/11 10:10	11/11/11 09:00
ADL-45A	T111684-31	Soil	11/09/11 10:15	11/11/11 09:00
ADL-45B	T111684-32	Soil	11/09/11 10:20	11/11/11 09:00
ADL-46A	T111684-33	Soil	11/09/11 10:30	11/11/11 09:00
ADL-46B	T111684-34	Soil	11/09/11 10:40	11/11/11 09:00
ADL-47A	T111684-35	Soil	11/09/11 11:00	11/11/11 09:00
ADL-47B	T111684-36	Soil	11/09/11 11:05	11/11/11 09:00
ADL-48A	T111684-37	Soil	11/09/11 11:30	11/11/11 09:00
ADL-48B	T111684-38	Soil	11/09/11 11:35	11/11/11 09:00
ADL-49A	T111684-39	Soil	11/09/11 11:50	11/11/11 09:00
ADL-49B	T111684-40	Soil	11/09/11 12:00	11/11/11 09:00
ADL-50A	T111684-41	Soil	11/09/11 12:30	11/11/11 09:00
ADL-50B	T111684-42	Soil	11/09/11 12:40	11/11/11 09:00
ADL-51A	T111684-43	Soil	11/09/11 12:50	11/11/11 09:00
ADL-51B	T111684-44	Soil	11/09/11 13:00	11/11/11 09:00

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/18/11 13:33
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ADL-33A
T111684-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	ND	3.0	mg/kg	1	111119	11/11/11	11/15/11	EPA 6010B	

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Reported:
11/18/11 13:33

ADL-33B
T111684-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	111119	11/11/11	11/15/11	EPA 6010B	
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Wendy Hsiao For Daniel Chavez, Project Manager



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ADL-33C
T111684-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	1111119	11/11/11	11/15/11	EPA 6010B	
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ADL-34A
T111684-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	66	3.0	mg/kg	1	1111119	11/11/11	11/15/11	EPA 6010B	
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Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

pH	6.6	0.2	pH Units	1	1111125	11/11/11	11/11/11	EPA 9045B	
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ADL-34B
T111684-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	18	3.0	mg/kg	1	1111119	11/11/11	11/15/11	EPA 6010B	
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ADL-35A
T111684-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	74	3.0	mg/kg	1	1111119	11/11/11	11/15/11	EPA 6010B	
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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/18/11 13:33
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ADL-35B
T111684-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	13	3.0	mg/kg	1	1111119	11/11/11	11/15/11	EPA 6010B	
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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/18/11 13:33
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ADL-36A
T111684-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	480	3.0	mg/kg	1	1111119	11/11/11	11/15/11	EPA 6010B	
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Wendy Hsiao For Daniel Chavez, Project Manager



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ADL-36B
T111684-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	21	3.0	mg/kg	1	1111119	11/11/11	11/15/11	EPA 6010B	
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ADL-37A
T111684-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	220	3.0	mg/kg	1	1111119	11/11/11	11/15/11	EPA 6010B	
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ADL-37B
T111684-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	19	3.0	mg/kg	1	1111119	11/11/11	11/15/11	EPA 6010B	
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ADL-38A
T111684-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	260	3.0	mg/kg	1	1111119	11/11/11	11/15/11	EPA 6010B	
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ADL-38B
T111684-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	61	3.0	mg/kg	1	111119	11/11/11	11/15/11	EPA 6010B	
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ADL-38C
T111684-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	40	3.0	mg/kg	1	1111119	11/11/11	11/15/11	EPA 6010B	
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ADL-39A
T111684-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	330	3.0	mg/kg	1	1111119	11/11/11	11/15/11	EPA 6010B	
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ADL-39B
T111684-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	40	3.0	mg/kg	1	1111119	11/11/11	11/15/11	EPA 6010B	
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ADL-39C
T111684-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	39	3.0	mg/kg	1	1111119	11/11/11	11/15/11	EPA 6010B	
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ADL-40A
T111684-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	26	3.0	mg/kg	1	111119	11/11/11	11/15/11	EPA 6010B	
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ADL-40B
T111684-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	23	3.0	mg/kg	1	111119	11/11/11	11/15/11	EPA 6010B	
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ADL-41A
T111684-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	5.2	3.0	mg/kg	1	111119	11/11/11	11/15/11	EPA 6010B	
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ADL-41B
T111684-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	1111120	11/11/11	11/15/11	EPA 6010B	
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Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

pH	8.1	0.2	pH Units	1	1111125	11/11/11	11/11/11	EPA 9045B	
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ADL-42A
T111684-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	7.3	3.0	mg/kg	1	1111120	11/11/11	11/15/11	EPA 6010B	
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ADL-42B
T111684-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	1111120	11/11/11	11/15/11	EPA 6010B	
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ADL-42C
T111684-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	1111120	11/11/11	11/15/11	EPA 6010B	
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ADL-43A
T111684-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	92	3.0	mg/kg	1	1111120	11/11/11	11/15/11	EPA 6010B	
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ADL-43B
T111684-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	34	3.0	mg/kg	1	1111120	11/11/11	11/15/11	EPA 6010B	
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ADL-43C
T111684-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	140	3.0	mg/kg	1	1111120	11/11/11	11/15/11	EPA 6010B	
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ADL-44A
T111684-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	130	3.0	mg/kg	1	1111120	11/11/11	11/15/11	EPA 6010B	
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ADL-44B
T111684-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	74	3.0	mg/kg	1	1111120	11/11/11	11/15/11	EPA 6010B	
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ADL-44C
T111684-30 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	48	3.0	mg/kg	1	1111120	11/11/11	11/15/11	EPA 6010B	
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ADL-45A
T111684-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	90	3.0	mg/kg	1	1111120	11/11/11	11/15/11	EPA 6010B	
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ADL-45B
T111684-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	37	3.0	mg/kg	1	1111120	11/11/11	11/15/11	EPA 6010B	
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Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

pH	7.1	0.2	pH Units	1	1111125	11/11/11	11/11/11	EPA 9045B	
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ADL-46A
T111684-33 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	360	3.0	mg/kg	1	1111120	11/11/11	11/15/11	EPA 6010B	
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ADL-46B
T111684-34 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	35	3.0	mg/kg	1	1111120	11/11/11	11/15/11	EPA 6010B	
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ADL-47A
T111684-35 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	20	3.0	mg/kg	1	1111120	11/11/11	11/15/11	EPA 6010B	
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Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

pH	6.7	0.2	pH Units	1	1111125	11/11/11	11/11/11	EPA 9045B	
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ADL-47B
T111684-36 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	24	3.0	mg/kg	1	1111120	11/11/11	11/15/11	EPA 6010B	
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SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/18/11 13:33
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ADL-48A
T111684-37 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	120	3.0	mg/kg	1	1111120	11/11/11	11/15/11	EPA 6010B	
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SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



25712 Commercentre Drive
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 949.297.5027 Fax

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/18/11 13:33
---	--	------------------------------------

ADL-48B
T111684-38 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	42	3.0	mg/kg	1	1111120	11/11/11	11/15/11	EPA 6010B	
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SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



25712 Commercentre Drive
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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/18/11 13:33
---	--	------------------------------------

ADL-49A
T111684-39 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	21	3.0	mg/kg	1	1111120	11/11/11	11/15/11	EPA 6010B	
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SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



25712 Commercentre Drive
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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/18/11 13:33
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ADL-49B
T111684-40 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	3.9	3.0	mg/kg	1	1111120	11/11/11	11/15/11	EPA 6010B	
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SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



25712 Commercentre Drive
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 949.297.5020 Phone
 949.297.5027 Fax

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/18/11 13:33
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ADL-50A
T111684-41 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	160	3.0	mg/kg	1	1111202	11/12/11	11/14/11	EPA 6010B	
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Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

pH	6.2	0.2	pH Units	1	1111125	11/11/11	11/11/11	EPA 9045B	
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SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



25712 Commercentre Drive
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 949.297.5020 Phone
 949.297.5027 Fax

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/18/11 13:33
---	--	------------------------------------

ADL-50B
T111684-42 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	7.7	3.0	mg/kg	1	1111202	11/12/11	11/14/11	EPA 6010B	
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SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/18/11 13:33
---	--	------------------------------------

ADL-51A
T111684-43 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	58	3.0	mg/kg	1	1111202	11/12/11	11/14/11	EPA 6010B	
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SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



25712 Commercentre Drive
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 949.297.5027 Fax

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/18/11 13:33
---	--	------------------------------------

ADL-51B
T111684-44 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	13	3.0	mg/kg	1	1111202	11/12/11	11/14/11	EPA 6010B	
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SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/18/11 13:33
---	--	-----------------------------

Metals by EPA 6010B - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 111119 - EPA 3051

Blank (111119-BLK1)		Prepared: 11/11/11 Analyzed: 11/15/11								
Lead	ND	3.0	mg/kg							
LCS (111119-BS1)		Prepared: 11/11/11 Analyzed: 11/15/11								
Lead	113	3.0	mg/kg	100		113	75-125			
Matrix Spike (111119-MS1)		Source: T111684-01		Prepared: 11/11/11 Analyzed: 11/15/11						
Lead	104	3.0	mg/kg	100	ND	104	75-125			
Matrix Spike Dup (111119-MSD1)		Source: T111684-01		Prepared: 11/11/11 Analyzed: 11/15/11						
Lead	105	3.0	mg/kg	100	ND	105	75-125	1.43	20	

Batch 111120 - EPA 3051

Blank (111120-BLK1)		Prepared: 11/11/11 Analyzed: 11/15/11								
Lead	ND	3.0	mg/kg							
LCS (111120-BS1)		Prepared: 11/11/11 Analyzed: 11/15/11								
Lead	114	3.0	mg/kg	100		114	75-125			
Matrix Spike (111120-MS1)		Source: T111684-21		Prepared: 11/11/11 Analyzed: 11/15/11						
Lead	113	3.0	mg/kg	100	ND	113	75-125			
Matrix Spike Dup (111120-MSD1)		Source: T111684-21		Prepared: 11/11/11 Analyzed: 11/15/11						
Lead	105	3.0	mg/kg	100	ND	105	75-125	7.42	20	

Batch 1111202 - EPA 3051

Blank (1111202-BLK1)		Prepared: 11/12/11 Analyzed: 11/14/11								
Lead	ND	3.0	mg/kg							

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Reported:
11/18/11 13:33

Metals by EPA 6010B - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1111202 - EPA 3051

LCS (1111202-BS1)

Prepared: 11/12/11 Analyzed: 11/14/11

Lead	117	3.0	mg/kg	100		117	75-125			
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Matrix Spike (1111202-MS1)

Source: T111639-04

Prepared: 11/12/11 Analyzed: 11/14/11

Lead	115	3.0	mg/kg	100	10.8	104	75-125			
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Matrix Spike Dup (1111202-MSD1)

Source: T111639-04

Prepared: 11/12/11 Analyzed: 11/14/11

Lead	119	3.0	mg/kg	100	10.8	108	75-125	3.39	20	
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SunStar Laboratories, Inc.



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Wendy Hsiao For Daniel Chavez, Project Manager

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/18/11 13:33
---	--	------------------------------------

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 111125 - General Preparation

Blank (111125-BLK1)		Prepared & Analyzed: 11/11/11								
pH	8.26	0.2	pH Units							
Duplicate (111125-DUP1)		Source: T111684-04 Prepared & Analyzed: 11/11/11								
pH	6.62	0.2	pH Units		6.62			0.00	20	

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Reported:
11/18/11 13:33

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

SunStar Laboratories, Inc.
 25712 Commercentre Dr
 Lake Forest, CA 92630
 949-297-5020

Chain of Custody Record

For invoicing:
 PO# 10199

Client: Buckburn Consulting (BCI) Date: 11-7-11 Page: 1 of 3
 Address: 11521 Blocker Dr #110, Auburn, CA 95603 Project Name: Silva Valley
 Phone: 530-887-1494 Fax: _____ Collector: Dave Bock Client Project #: 556.3
 Project Manager: David Bock Batch #: THH684 EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	Total Pb (6010)	pH (9045)	Laboratory ID #	Comments/Preservative	Total # of containers
ADL-33A	11-7-11	9:30	Soil	Ziplock										X		01		
-33B		9:40														02		
-33C		9:50														03		
-34A		10:00														04		
-34B		10:05														05		
-35A		10:15														06		
-35B		10:30														07		
-36A		11:15														08		
-36B		11:25														09		
-37A		11:35														10		
-37B		11:50														11		
-38A		12:35														12		
-38B		12:40														13		
-38C		1:00 PM														14		
Relinquished by: (signature) <u>Dave Bock</u>			Date / Time	Received by: (signature) <u>Dave Bock</u>	Date / Time	Total # of containers			Chain of Custody seals (NINA)			Received good condition/cold			Notes			
Relinquished by: (signature)			Date / Time	Received by: (signature)	Date / Time	45			NINA			22			STP 11-11-11			
Relinquished by: (signature)			Date / Time	Received by: (signature)	Date / Time	11-11-11			NINA						2			
Relinquished by: (signature)			Date / Time	Received by: (signature)	Date / Time	11-11-11			NINA									

Please Hold samples for further testing after initial test results.

Sample disposal instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

Chain of Custody Record

SunStar Laboratories, Inc.
 25712 Commerce Centre Dr
 Lake Forest, CA 92630
 949-297-5020

Client: Blackburn Consulting (BCI)

Address: _____
 Phone: _____ Fax: _____

Project Manager: David Buck

Date: 11/9/11 Page: 2 of 3
 Project Name: Silva Valley
 Collector: David Buck Client Project #: 556.3
 Batch #: F11684 EDE #: _____

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	Total Pb	pH	Laboratory ID #	Comments/Preservative	Total # of containers		
ADL-39A	11/7/11	1:20 PM	Soil	Ziploc																
-39B		1:30																		
-39C		2:00																		
-40A		2:30																		
-40B		2:30																		
-41A		2:40																		
-41B		2:45																		
-42A		3:00																		
-42B		3:00																		
-43A	11/9/11	9:30																		
-43B		9:40																		
-43C		9:45																		
-44A		9:50																		
-44B		10:00																		
Relinquished by: (signature) <u>David Buck</u>			Date / Time <u>11/10/11 11:30</u>			Received by: (signature) <u>David Buck</u>			Date / Time <u>11-10-11</u>			Total # of containers <u>45</u>			Chain of Custody seals <u>Q/N/A</u>			Seals intact? <u>Q/N/A</u>		
Relinquished by: (signature) _____			Date / Time _____			Received by: (signature) _____			Date / Time _____			Received good condition/cold _____			Turn around time: <u>5H</u>			Notes: <u>STL 11-11-11</u>		

Sample disposal instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

Chain of Custody Record

SunStar Laboratories, Inc.
 25712 Commerce Centre Dr
 Lake Forest, CA 92630
 949-297-5020

Client: BCI
 Address: _____
 Phone: _____
 Project Manager: David Bude

Date: 11/9/11 Page: 3 of 3
 Project Name: Silva Valley
 Collector: David Bude Client Project #: 556.3
 Batch #: _____ EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	Total Pb	pH	Laboratory ID #	Comments/Preservative	Total # of containers
ADL-44C	11/9/11	10:15	Soil	Zydec										X		30		
-45A		10:20														31		
-45B		10:20														32		
-46A		10:30														33		
-46B		10:40														34		
-47A		11:00														35		
-47B		11:05														36		
-48A		11:30														37		
-48B		11:35														38		
-49A		12:00														39		
-49B		12:00														40		
-50A		12:30														41		
-50B		12:30														42		
-51A		12:00														43		
-51B		12:00														44		
Retinquished by: (signature) <u>[Signature]</u>			Date / Time <u>11/9/11 11:30</u>			Received by: (signature) <u>[Signature]</u>			Date / Time <u>11-12-11</u>			Total # of containers <u>45</u>			Notes <u>STP, TAT</u>			
Retinquished by: (signature) <u>[Signature]</u>			Date / Time <u>11/10/11 9:00</u>			Received by: (signature) <u>[Signature]</u>			Date / Time <u>11-11-11</u>			Received good condition/cold <u>2.2</u>			Turn around time: <u>5H</u>			

Sample disposal instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

STP, TAT
 11-11-11
 SC

SAMPLE RECEIVING REVIEW SHEET

BATCH # T111684

Client Name: BLACKBURN CONSULTING

Project: SILVA VALLEY

Received by: BRIAN

Date/Time Received: 11.11.11 9:00

Delivered by: Client SunStar Courier GSO FedEx Other _____

Total number of coolers received 1 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 2.4 °C +/- the CF (-0.2°C) = 2.2 °C corrected temperature

cooler #2 _____ °C +/- the CF (-0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (-0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. Yes No* N/A

Custody Seals Intact on Cooler/Sample Yes No* N/A

Sample Containers Intact Yes No*

Sample labels match COC ID's Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. Yes No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date BC 11.11.11

Comments:



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

29 November 2011

Dave Buck
Blackburn Consulting
11521 Blocker Dr #110
Auburn, CA 95603
RE: Silva Valley

Enclosed are the results of analyses for samples received by the laboratory on 11/11/11 09:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao
Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Blackburn Consulting
 11521 Blocker Dr #110
 Auburn CA, 95603

Project: Silva Valley
 Project Number: 556.3
 Project Manager: Dave Buck

Reported:
 11/29/11 14:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL-34A	T111684-04	Soil	11/07/11 10:00	11/11/11 09:00
ADL-35A	T111684-06	Soil	11/07/11 10:15	11/11/11 09:00
ADL-36A	T111684-08	Soil	11/07/11 11:15	11/11/11 09:00
ADL-37A	T111684-10	Soil	11/07/11 11:35	11/11/11 09:00
ADL-38A	T111684-12	Soil	11/07/11 12:35	11/11/11 09:00
ADL-39A	T111684-15	Soil	11/07/11 13:10	11/11/11 09:00
ADL-43A	T111684-25	Soil	11/09/11 09:30	11/11/11 09:00
ADL-43C	T111684-27	Soil	11/09/11 09:45	11/11/11 09:00
ADL-44A	T111684-28	Soil	11/09/11 09:50	11/11/11 09:00
ADL-45A	T111684-31	Soil	11/09/11 10:15	11/11/11 09:00
ADL-46A	T111684-33	Soil	11/09/11 10:30	11/11/11 09:00
ADL-48A	T111684-37	Soil	11/09/11 11:30	11/11/11 09:00
ADL-50A	T111684-41	Soil	11/09/11 12:30	11/11/11 09:00
ADL-51A	T111684-43	Soil	11/09/11 12:50	11/11/11 09:00

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Wendy Hsiao, Project Manager

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Reported:
11/29/11 14:48

ADL-34A
T111684-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	ND	0.10	mg/l	1	1112110	11/21/11	11/29/11	STLC EPA 6010	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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 949.297.5027 Fax

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/29/11 14:48
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ADL-35A
T111684-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	ND	0.10	mg/l	1	1112110	11/21/11	11/29/11	STLC EPA 6010	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/29/11 14:48
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ADL-36A
T111684-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	2.6	0.10	mg/l	1	1112110	11/21/11	11/29/11	STLC EPA 6010	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Wendy Hsiao, Project Manager

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Reported:
11/29/11 14:48

ADL-37A
T111684-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Lead	0.31	0.10	mg/l	1	1112110	11/21/11	11/29/11	STLC EPA 6010	
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SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Wendy Hsiao, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/29/11 14:48
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ADL-38A
T111684-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	0.12	0.10	mg/l	1	1112110	11/21/11	11/29/11	STLC EPA 6010	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/29/11 14:48
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ADL-39A
T111684-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	0.53	0.10	mg/l	1	1112110	11/21/11	11/29/11	STLC EPA 6010	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/29/11 14:48
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ADL-43A
T111684-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	0.70	0.10	mg/l	1	1112110	11/21/11	11/29/11	STLC EPA 6010	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/29/11 14:48
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ADL-43C
T111684-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	0.16	0.10	mg/l	1	1112110	11/21/11	11/29/11	STLC EPA 6010	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/29/11 14:48
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ADL-44A
T111684-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	1.9	0.10	mg/l	1	1112110	11/21/11	11/29/11	STLC EPA 6010	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/29/11 14:48
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ADL-45A
T111684-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	0.34	0.10	mg/l	1	1112110	11/21/11	11/29/11	STLC EPA 6010	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/29/11 14:48
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ADL-46A
T111684-33 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	1.5	0.10	mg/l	1	1112110	11/21/11	11/29/11	STLC EPA 6010	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/29/11 14:48
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ADL-48A
T111684-37 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	0.63	0.10	mg/l	1	1112110	11/21/11	11/29/11	STLC EPA 6010	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/29/11 14:48
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ADL-50A
T111684-41 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	1.5	0.10	mg/l	1	1112110	11/21/11	11/29/11	STLC EPA 6010	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Silva Valley Project Number: 556.3 Project Manager: Dave Buck	Reported: 11/29/11 14:48
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ADL-51A
T111684-43 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	ND	0.10	mg/l	1	1112110	11/21/11	11/29/11	STLC EPA 6010	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Wendy Hsiao, Project Manager

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Reported:
11/29/11 14:48

STLC Metals by 6000/7000 Series Methods - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1112110 - STLC Leachate

Blank (1112110-BLK1)

Prepared: 11/21/11 Analyzed: 11/29/11

Lead	ND	0.10	mg/l							
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LCS (1112110-BS1)

Prepared: 11/21/11 Analyzed: 11/29/11

Lead	0.859	0.10	mg/l	1.00		85.9	75-125			
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Matrix Spike (1112110-MS1)

Source: T111684-04

Prepared: 11/21/11 Analyzed: 11/29/11

Lead	1.11	0.10	mg/l	1.00	0.0530	105	75-125			
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Matrix Spike Dup (1112110-MSD1)

Source: T111684-04

Prepared: 11/21/11 Analyzed: 11/29/11

Lead	1.06	0.10	mg/l	1.00	0.0530	101	75-125	4.10	30	
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SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Reported:
11/29/11 14:48

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Reported:
11/18/11 13:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL-33A	T111684-01	Soil	11/07/11 09:30	11/11/11 09:00
ADL-33B	T111684-02	Soil	11/07/11 09:40	11/11/11 09:00
ADL-33C	T111684-03	Soil	11/07/11 09:50	11/11/11 09:00
ADL-34A	T111684-04	Soil	11/07/11 10:00	11/11/11 09:00
ADL-34B	T111684-05	Soil	11/07/11 10:05	11/11/11 09:00
ADL-35A	T111684-06	Soil	11/07/11 10:15	11/11/11 09:00
ADL-35B	T111684-07	Soil	11/07/11 10:30	11/11/11 09:00
ADL-36A	T111684-08	Soil	11/07/11 11:15	11/11/11 09:00
ADL-36B	T111684-09	Soil	11/07/11 11:25	11/11/11 09:00
ADL-37A	T111684-10	Soil	11/07/11 11:35	11/11/11 09:00
ADL-37B	T111684-11	Soil	11/07/11 11:50	11/11/11 09:00
ADL-38A	T111684-12	Soil	11/07/11 12:35	11/11/11 09:00
ADL-38B	T111684-13	Soil	11/07/11 12:40	11/11/11 09:00
ADL-38C	T111684-14	Soil	11/07/11 13:00	11/11/11 09:00
ADL-39A	T111684-15	Soil	11/07/11 13:10	11/11/11 09:00
ADL-39B	T111684-16	Soil	11/07/11 13:20	11/11/11 09:00
ADL-39C	T111684-17	Soil	11/07/11 13:30	11/11/11 09:00
ADL-40A	T111684-18	Soil	11/07/11 14:00	11/11/11 09:00
ADL-40B	T111684-19	Soil	11/07/11 14:20	11/11/11 09:00
ADL-41A	T111684-20	Soil	11/07/11 14:30	11/11/11 09:00
ADL-41B	T111684-21	Soil	11/07/11 14:40	11/11/11 09:00
ADL-42A	T111684-22	Soil	11/07/11 14:45	11/11/11 09:00
ADL-42B	T111684-23	Soil	11/07/11 14:50	11/11/11 09:00
ADL-42C	T111684-24	Soil	11/07/11 15:00	11/11/11 09:00
ADL-43A	T111684-25	Soil	11/09/11 09:30	11/11/11 09:00
ADL-43B	T111684-26	Soil	11/09/11 09:40	11/11/11 09:00

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: Silva Valley
Project Number: 556.3
Project Manager: Dave Buck

Reported:
11/18/11 13:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL-43C	T111684-27	Soil	11/09/11 09:45	11/11/11 09:00
ADL-44A	T111684-28	Soil	11/09/11 09:50	11/11/11 09:00
ADL-44B	T111684-29	Soil	11/09/11 10:00	11/11/11 09:00
ADL-44C	T111684-30	Soil	11/09/11 10:10	11/11/11 09:00
ADL-45A	T111684-31	Soil	11/09/11 10:15	11/11/11 09:00
ADL-45B	T111684-32	Soil	11/09/11 10:20	11/11/11 09:00
ADL-46A	T111684-33	Soil	11/09/11 10:30	11/11/11 09:00
ADL-46B	T111684-34	Soil	11/09/11 10:40	11/11/11 09:00
ADL-47A	T111684-35	Soil	11/09/11 11:00	11/11/11 09:00
ADL-47B	T111684-36	Soil	11/09/11 11:05	11/11/11 09:00
ADL-48A	T111684-37	Soil	11/09/11 11:30	11/11/11 09:00
ADL-48B	T111684-38	Soil	11/09/11 11:35	11/11/11 09:00
ADL-49A	T111684-39	Soil	11/09/11 11:50	11/11/11 09:00
ADL-49B	T111684-40	Soil	11/09/11 12:00	11/11/11 09:00
ADL-50A	T111684-41	Soil	11/09/11 12:30	11/11/11 09:00
ADL-50B	T111684-42	Soil	11/09/11 12:40	11/11/11 09:00
ADL-51A	T111684-43	Soil	11/09/11 12:50	11/11/11 09:00
ADL-51B	T111684-44	Soil	11/09/11 13:00	11/11/11 09:00

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager

SunStar Laboratories, Inc.
 25712 Commercentre Dr
 Lake Forest, CA 92630
 949-297-5020

Chain of Custody Record

For invoicing:
 PO# 10199

Client: Buckburn Consulting (BCI) Date: 11-7-11 Page: 1 of 3
 Address: 11521 Blocker Dr #110, Auburn, CA 95603 Project Name: Silva Valley
 Phone: 530-887-1494 Fax: _____ Collector: Dave Buck Client Project #: 556.3
 Project Manager: David Buck Batch #: TH1684 EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	Total Pb (6010)	pH (9045)	Laboratory ID #	Comments/Preservative	Total # of containers		
ADL-33A	11-7-11	9:30	Soil	Ziplock										X		01				
-33B		9:40														02				
-33C		9:50														03				
-34A		10:00														04				
-34B		10:05														05				
-35A		10:15														06				
-35B		10:30														07				
-36A		11:15														08				
-36B		11:25														09				
-37A		11:35														10				
-37B		11:50														11				
-38A		12:35														12				
-38B		12:40														13				
-38C		1:00 PM														14				
Relinquished by: (signature) <u>Dave</u>			Date / Time	Received by: (signature) <u>Dave</u>	Date / Time	Total # of containers			Chain of Custody seals (NINA)			Seals intact? (NINA)			Received good condition/cold			Turn around time: <u>Standard</u>		
Relinquished by: (signature) <u>Dave</u>			Date / Time	Received by: (signature) <u>Dave</u>	Date / Time	45			NINA			NINA			22			Notes		
Relinquished by: (signature) <u>GSO</u>			Date / Time	Received by: (signature) <u>Kam</u>	Date / Time													11-11-11		

Please Hold samples for further testing after initial test results.

Sample disposal instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

Chain of Custody Record

SunStar Laboratories, Inc.
 25712 Commerce Centre Dr
 Lake Forest, CA 92630
 949-297-5020

Client: Blackburn Consulting (BCI)

Address: _____
 Phone: _____
 Project Manager: David Buck

Date: 11/9/11 Page: 2 of 3
 Project Name: Silva Valley
 Collector: David Buck Client Project #: 556.3
 Batch #: F11684 EDE #: _____

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	Total Pb	pH	Laboratory ID #	Comments/Preservative	Total # of containers		
ADL-39A	11/7/11	1:20 PM	Soil	Ziploc																
-39B		1:30																		
-39C		2:00																		
-40A		2:30																		
-40B		2:30																		
-41A		2:40																		
-41B		2:45																		
-42A		3:00																		
-42B		3:00																		
-43A	11/9/11	9:30																		
-43B		9:40																		
-43C		9:45																		
-44A		9:50																		
-44B		10:00																		
Relinquished by: (signature) <u>David Buck</u>			Date / Time <u>11/10/11 11:30</u>			Received by: (signature) <u>David Buck</u>			Date / Time <u>11-10-11</u>			Total # of containers <u>45</u>			Chain of Custody seals <u>Q/N/A</u>			Seals intact? <u>Q/N/A</u>		
Relinquished by: (signature) _____			Date / Time _____			Received by: (signature) _____			Date / Time _____			Received good condition/cold _____			Turn around time: <u>5H</u>			Notes: <u>STL 11-11-11</u>		

Sample disposal instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

Chain of Custody Record

SunStar Laboratories, Inc.
 25712 Commerce Centre Dr
 Lake Forest, CA 92630
 949-297-5020

Client: BCI
 Address: _____
 Phone: _____
 Project Manager: David Bude

Date: 11/9/11 Page: 3 of 3
 Project Name: Silva Valley
 Collector: DSBuck Client Project #: 556.3
 Batch #: _____ EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	Total Pb	pH	Laboratory ID #	Comments/Preservative	Total # of containers
ADL-44C	11/9/11	10:15	Soil	Zydec										X		30		
-45A		10:20														31		
-45B		10:20														32		
-46A		10:30														33		
-46B		10:40														34		
-47A		11:05														35		
-47B		11:30														36		
-48A		11:35														37		
-48B		11:50														38		
-49A		12:02														39		
-49B		12:30														40		
-50A		12:30														41		
-50B		12:30														42		
-51A		12:30														43		
-51B		12:30														44		
Retinquished by: (signature) <u>[Signature]</u>			Date / Time <u>11/9/11 11:30</u>			Received by: (signature) <u>[Signature]</u>			Date / Time <u>11-12-11</u>			Total # of containers <u>45</u>			Notes <u>STP, TAT</u>			
Retinquished by: (signature) <u>[Signature]</u>			Date / Time <u>11/10/11 9:00</u>			Received by: (signature) <u>[Signature]</u>			Date / Time <u>11-11-11</u>			Received good condition/cold <u>2.2</u>			Turn around time: <u>5H</u>			
Retinquished by: (signature) <u>[Signature]</u>			Date / Time <u>11-11-11 9:00</u>			Received by: (signature) <u>[Signature]</u>			Date / Time <u>11-11-11</u>			Received good condition/cold <u>2.2</u>			Turn around time: <u>5H</u>			

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

STP, TAT
 11-11-11
 SC

SAMPLE RECEIVING REVIEW SHEET

BATCH # T111684

Client Name: BLACKBURN CONSULTING

Project: SILVA VALLEY

Received by: BRIAN

Date/Time Received: 11.11.11 9:00

Delivered by: Client SunStar Courier GSO FedEx Other _____

Total number of coolers received 1 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 2.4 °C +/- the CF (-0.2°C) = 2.2 °C corrected temperature

cooler #2 _____ °C +/- the CF (-0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (-0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. Yes No* N/A

Custody Seals Intact on Cooler/Sample Yes No* N/A

Sample Containers Intact Yes No*

Sample labels match COC ID's Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. Yes No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date BC 11.11.11

Comments:

Appendix E

ADL Variance





*California Environmental Protection Agency
Department of Toxic Substances Control*

VARIANCE

Applicant Names:

Variance No. V09HQSCD006

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

Effective Date: July 1, 2009

Expiration Date: July 1, 2014

Modification History:

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

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

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

Date: 6/30/09

VARIANCE

1. INTRODUCTION.

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

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

2. IDENTIFYING INFORMATION.

APPLICANT/OWNER/OPERATOR

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

3. TYPE OF VARIANCE.

Generation, Manifest, Transportation, Storage and Disposal.

4. ISSUANCE AND EXPIRATION DATES.

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

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

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

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

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

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

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

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

8. PROVISIONS WAIVED.

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

9. SPECIFIC CONDITIONS, LIMITATIONS AND OTHER REQUIREMENTS.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

water run-on or run-off.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Attn: Caltrans Lead Variance Notification Unit

10. DISCLAIMER.

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

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

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

Approved:

6/30/09
Date

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