

AERIALY DEPOSITED LEAD ASSESSMENT
SR65 Capacity and Operational Improvements Project
Placer County, CA

January 2015

Prepared for:

Mark Thomas and Company
7300 Folsom Blvd., Suite 203
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Prepared by:

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AERIALY DEPOSITED LEAD ASSESSMENT
SR65 Capacity and Operational Improvements Project
Placer County, California

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INTRODUCTION

Blackburn Consulting (BCI) prepared this aerially deposited lead (ADL) assessment for the State Route 65 (SR65) Capacity and Operational Improvements Project located in Placer County. The purpose of the investigation is to assess the presence of ADL in surface and shallow subsurface soil throughout the project corridor within areas anticipated to be disturbed by the planned improvements. The Assessment evaluates whether impacts due to ADL will require mitigation recommendations for construction and/or additional testing.

Project Description and Location

The project proposes capacity and operational improvements on SR65 from north of Galleria Boulevard/Stanford Ranch Road to Lincoln Boulevard (Post mile R6.5 to R12.9) and includes roadway widening, bridge work and widening, grinding off the existing pavement, overlay of new pavement, equipment staging areas, drainage/culvert work and stream channel work. No additional right-of-way is required and all work (with the exception of eight parcels identified for temporary construction easement) will be within existing Caltrans right-of-way. The project area is shown on the “Vicinity Map” attached as Figure 1. The project limits and ADL sample locations are depicted on the “ADL Sample Location Map” attached as Figures 2a through 2e.

Potential for Aerially Deposited Lead

Soil testing by Caltrans and others along roads heavily traveled prior to 1987, indicates that ADL may be present in the surface soil of the unpaved shoulders. The lead is generally attributed to emissions from vehicles powered by internal-combustion, leaded-gasoline engines. Along roads where the shoulder subgrade has not been disturbed, the presence of ADL is generally limited to the upper twenty-four inches. Lead concentrations typically drop rapidly with increasing depth below the ground surface.

Historically, SR65 from Lincoln Boulevard to Blue Oaks Boulevard was a two lane highway until 1998, when it was expanded to a four lane divided highway. The northbound lanes were added and the two existing lanes became the southbound lanes. Consequently, it’s reasonable to conclude that if ADL is present it will be associated with the older (current southbound) lanes. The extension of SR65 from Blue Oaks Boulevard to the Galleria Boulevard/SR65 Interchange began in 1985 and was completed in 1987. There were no roads in this segment of the project corridor prior to 1987, therefore the likelihood of encountering significant ADL concentrations is low.

Prior Environmental Reports

BCI prepared an “*Aerially Deposited Lead Screening Evaluation – Placer Parkway Interchange*” report in June 2013 (Appendix A). This report concludes that ADL is present in the surface and shallow subsurface soil along the shoulder and median of the southbound lanes in relatively low concentrations at the proposed Placer Parkway Interchange. All detectable levels of “total lead” were at or below 100 mg/kg, well below the total Threshold Limit Concentration (TTLC) of 1,000 mg/kg that defines the lower limit for hazardous waste. The surface and shallow

subsurface soil within the shoulder along the northbound lanes had no detectable concentrations of total lead.

BCI prepared an “*Aerially Deposited Lead Screening Evaluation – Pleasant Grove Interchange*” report in October 2007 (Appendix B). This report concludes that low levels of ADL are present in the surface and shallow subsurface soil at the Pleasant Grove Boulevard/SR65 Interchange. All detectable levels of “total lead” were at or below 5 mg/kg, well below the total TTLC of 1,000 mg/kg that defines the lower limit for hazardous waste. The report also concludes that the likelihood of encountering significant ADL concentrations in the improvement area was low as this interchange was part of the SR65 realignment constructed between 1985 and 1987 and not part of the original SR65 alignment.

SCOPE OF WORK

BCI completed an ADL assessment for the project corridor modeled after historical roadway use including a near surface ADL assessment for the northbound lanes and a more typical ADL assessment incorporating more sample locations and additional soil profile (to a depth of ± 2 feet below ground surface) for the southbound lanes and median. The intent of this limited surface soil screening is to assess soil expected to represent the highest ADL concentrations within the project corridor.

To perform this assessment, BCI completed the following tasks:

- Prepared an ADL Sampling Plan
- Reviewed prior environmental reports for the project area
- Prepared a map of the proposed sample locations based on the project limits depicted on plans provided by MTCO (Figures 2a through 2e, attached)
- Obtained Caltrans encroachment/traffic management permits
- Collected sixty-six (66) soil samples from fifty (50) locations within the project limits
- Submitted sixty-six (66) soil samples for laboratory analysis of total lead, soluble lead and/or pH
- Reviewed analytical results
- Performed statistical analysis of the analytical data set
- Prepared this report

SAMPLING SUMMARY

BCI obtained samples from fifty (50) hand auger borings spaced approximately 1500 feet apart along both the southbound and northbound lanes of SR65 from north of Galleria Boulevard/Stanford Ranch Road to Lincoln Boulevard (Post mile R6.5 to R12.9). We summarize below sample collection, subsurface soil conditions, and laboratory analysis.

Sample Collection

BCI collected and prepared samples for analysis as follows:

- Collected two discrete samples zero to four inches (0-4”) below ground surface (bgs) and twelve to eighteen inches (12-18”) bgs within sixteen (16) hand auger borings located primarily along southbound SR65 with limited samples obtained in the median.
- Collected one discrete sample zero to four inches (0-4”) bgs within thirty-four (34) hand auger borings located along northbound and southbound SR65.
- Transferred samples into glass jars, labeled with the sample time, date, location, depth, and the sampler’s initials.
- Cleaned sampling equipment between each sample location by washing with an Alconox solution followed by rinsing with potable water and a second rinse using de-ionized water.
- Placed sample containers in a cooled ice chest, and delivered to SunStar Laboratories, a California certified analytical laboratory, under continuous chain-of-custody documentation.
- Backfilled borings with excess cuttings and discharged wash and rinse water to the ground surface at the boring locations.

Soil Description

The soil profile varied over the project alignment according to the cut or fill sections along the highway, particularly on the southbound side. The soil consisted primarily of strong brown to light yellowish brown silty clay for the more shallow specimens, and dense, light yellowish brown breccia and gravel for the deeper specimens.

Sample Analysis

BCI submitted sixty-six (66) soil samples to SunStar Laboratories for total lead analysis, using EPA Test Method 6010B. Six (6) samples exhibited total lead concentrations exceeding 50 milligrams per kilograms (mg/kg) and were therefore further tested for soluble lead using the Waste Extraction Test (WET) methodology. The 50 mg/kg threshold indicates a sample has the potential to exceed the Soluble Threshold Limit Concentration (STLC) of 5 milligrams per liter (mg/l), which is one criteria used for defining hazardous waste in California.

In addition to total lead testing, analytical testing also included pH testing of five (5) randomly selected samples using EPA Method 9045.

The laboratory 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. We include a copy of the laboratory reports and chain-of-custody documents in Appendix C.

ANALYTICAL RESULTS

The analytical test results indicate the following:

- Total lead concentrations range from below the detection limit of 3.0 mg/kg to 160 mg/kg.
- No samples exceed the Total Threshold Limit Concentration (TTLC) for lead of 1,000 mg/kg.
- Six samples exhibited total lead in excess of 50 mg/kg (i.e. ten times higher than the STLC of 5.0 mg/l) and were further tested for soluble lead by the WET method.
- Soluble lead test results range from 3.8 mg/l to 15 mg/l, with three of the six samples analyzed exhibiting soluble lead levels which exceed the STLC for lead of 5.0 mg/l.
- The pH test results range from 6.3 to 7.8 with an average value of 6.84.

Appendix D presents a table which summarizes the analytical results.

STATISTICAL ANALYSIS

BCI performed statistical analysis of the ADL sample data using ProUCL 5.0 software to calculate the sample mean (average) as well as the 95% Upper Confidence Limit (UCL) on the mean. UCLs were calculated using standard bootstrap methodology for normal and non-parametric data distribution (as appropriate).

Total Lead

We analyzed groups of data based on location (northbound and southbound) and sample depth. Table 1 summarizes the total lead results for each sample depth interval, as well as combined intervals (0-4”), (12-18”) and (0-18”).

TABLE 1: TOTAL LEAD STATISTICAL SUMMARY BY DEPTH INTERVAL				
Location and Depth Interval (inches bgs)	Data Points (#)	Range (mg/kg)	Mean (mg/kg)	95% UCL (mg/kg)
Southbound/Median 0 - 4	29	ND to 160	24.95	72.4
Southbound/Median 12 - 18	16	ND to 110	22.47	37.74
Southbound/Median Combined Depths 0 - 18	45	ND to 160	34.6	47.6
Northbound 0 - 4	21	ND to 34	7.3	13.18

Based on the mean and 95% UCL values shown in Table 1, the total lead concentrations in all intervals are below the 1,000 mg/kg Total Threshold Limit Concentration (TTLC) for lead based on the individual analytical test results.

Soluble Lead

Six samples exhibit total lead in excess of 50 mg/kg (i.e. ten times higher than the STLC of 5.0 mg/l) and were further tested for soluble lead by the WET method. Soluble lead results range from 3.8 mg/l to 15 mg/l, however, only three of the six samples analyzed exhibit soluble lead levels exceeding the individual STLC for lead of 5.0 mg/l. Of these three samples, two were obtained from one sample location, ADL-39. The soil samples obtained from surrounding sample locations, including ADL-36, -37, and -41 exhibit total lead levels below the 50 mg/kg criteria.

As solubility testing was limited to the six samples with the highest total lead concentrations, this tends to introduce an upward bias in solubility results. We therefore performed a regression analysis to predict the 95% UCL on the mean for WET solubility of unbiased sample populations, as presented below.

Predicted Lead Solubility

We used Excel Regression Analysis software to perform the regression calculations by comparing the total lead and corresponding WET data. A correlation coefficient (r) greater than 0.86 was calculated for the data set, which indicates an acceptable correlation between the total and soluble lead data for use in the regression analysis.

The regression equation is calculated to be:

$$y = 0.042 (x)$$

Where:

y = Soluble (WET) lead concentrations in mg/l

x = Total Lead concentrations in mg/kg

Note: The 95% UCL value for total lead was used in the regression formula.

TABLE 2: PREDICTED LEAD SOLUBILITY			
Depth Interval (inches)	Total Lead Mean (mg/kg)	Total Lead 95% UCL (mg/kg)	Predicted WET Solubility 95% UCL (mg/l)
0-4	24.95	72	3.024
0-18	34.6	47.6	1.99

The results presented in Table 2 indicate that the predicted WET 95% UCL for soluble lead by WET method testing for both intervals have predicted soluble lead levels below the 5.0 mg/l regulatory threshold.

CONCLUSIONS AND RECOMMENDATIONS

The near-surface soil within the project corridor exhibit low levels of ADL. The results indicate total lead concentrations at or below 160 mg/kg, with the higher concentrations associated with the southbound lanes adjacent to the historical alignment of SR65. These concentrations are well below the total Threshold Limit Concentrations (TTLC) of 1,000 mg/kg that defines the lower limit for hazardous waste. Based on the mean and 95% UCL values shown in Table 1, the total lead concentrations in all intervals are below the 1,000 mg/kg TTLC for lead based on the individual analytical test results.

Soluble lead results range from 3.8 mg/l to 15 mg/l; however, only three of the six samples analyzed exhibit soluble lead levels exceeding the individual Soluble Threshold Limit Concentration (STLC) for lead of 5.0 mg/l. Of these three samples, two were obtained from one sample location, ADL-39. The soil samples obtained from surrounding sample locations, including ADL-36, -37, and -41 exhibited total lead levels below the 50 mg/kg criteria. It is our opinion that ADL-39 is not representative of the project soil profile. In addition, the regression analysis to predict soluble lead levels (WET) of unbiased sample populations indicates the 95% UCL for soluble lead levels is below the STLC of 5 mg/l.

Because this assessment focuses on the near surface soil (0-18”), it is biased toward identifying “elevated” ADL concentrations. If the investigation were expanded to model a deeper soil section (i.e. 0 to 3 ft. bgs), where ADL concentrations drop sharply within the upper 3 feet of the soil profile, the average total and soluble concentrations would be significantly lower than the values presented in this screening. Proposed project improvements include soil disturbance along roadway shoulders to a depth of 4-10 feet bgs. Correlating a decrease in ADL concentrations with sample depth, the overall soil conditions for the project area would have significantly lower ADL concentrations than within the upper eighteen (18) inches. Therefore, based on the concentrations of both total and soluble lead detected, and depth of the proposed improvements, it is our opinion that specialized soil management is not warranted.

The project soil pH averages 6.84 (close to neutral). The pH conditions do not impose any special soil management requirements.

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:

- Total lead content exceeds the TTLC (1,000 mg/kg); and
- Soluble lead content exceeds the STLC (5.0 mg/l) based on the standard Waste Extraction Test (WET).

Based on our review and analysis of the lead testing data, and the results of the statistical analyses, we conclude that the tested soil in the project area will not be classified as California Hazardous waste.

Risk to Human Health

It is appropriate to compare the total lead values to the California Human Health Screening Levels (CHHSL) limits for lead in soil. The CHHSL is 320 mg/kg for an industrial exposure scenario. All of the ADL samples exhibited total lead below the industrial CHHSL for lead. Based on the results of our ADL assessment we conclude that lead impacted soil within the project limits do not pose a significant health risk to site workers.

Health and Safety Requirements

We recommend that the contractor conduct all grading operations with the awareness that lead impacted soil is present on the site and conduct all operations in accordance with applicable Cal-OSHA requirements including a project specific worker Health & Safety Plan (HASP) and Lead Compliance 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.

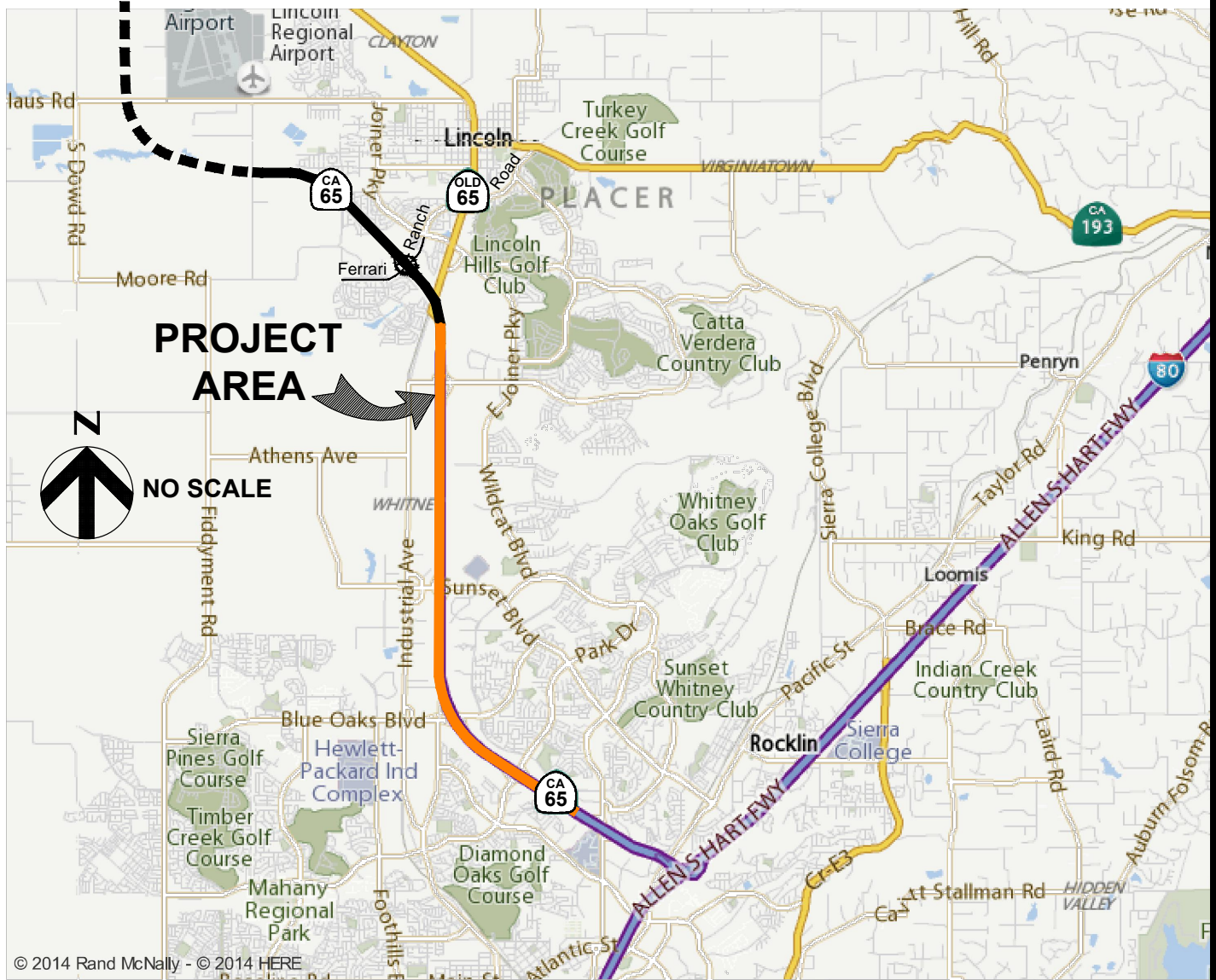
The report is not a comprehensive site characterization and shall not be so construed. The findings presented in this report are predicated on the results of limited sampling and laboratory analyses. In addition, the obtained information is not intended to address potential impacts related to sources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

FIGURES

Vicinity Map

ADL Sampling Location Map





© 2014 Rand McNally - © 2014 HERE

1/14/2015 2:602.x Fig1 SR65 CnO Imp ADL Sampling.dwg

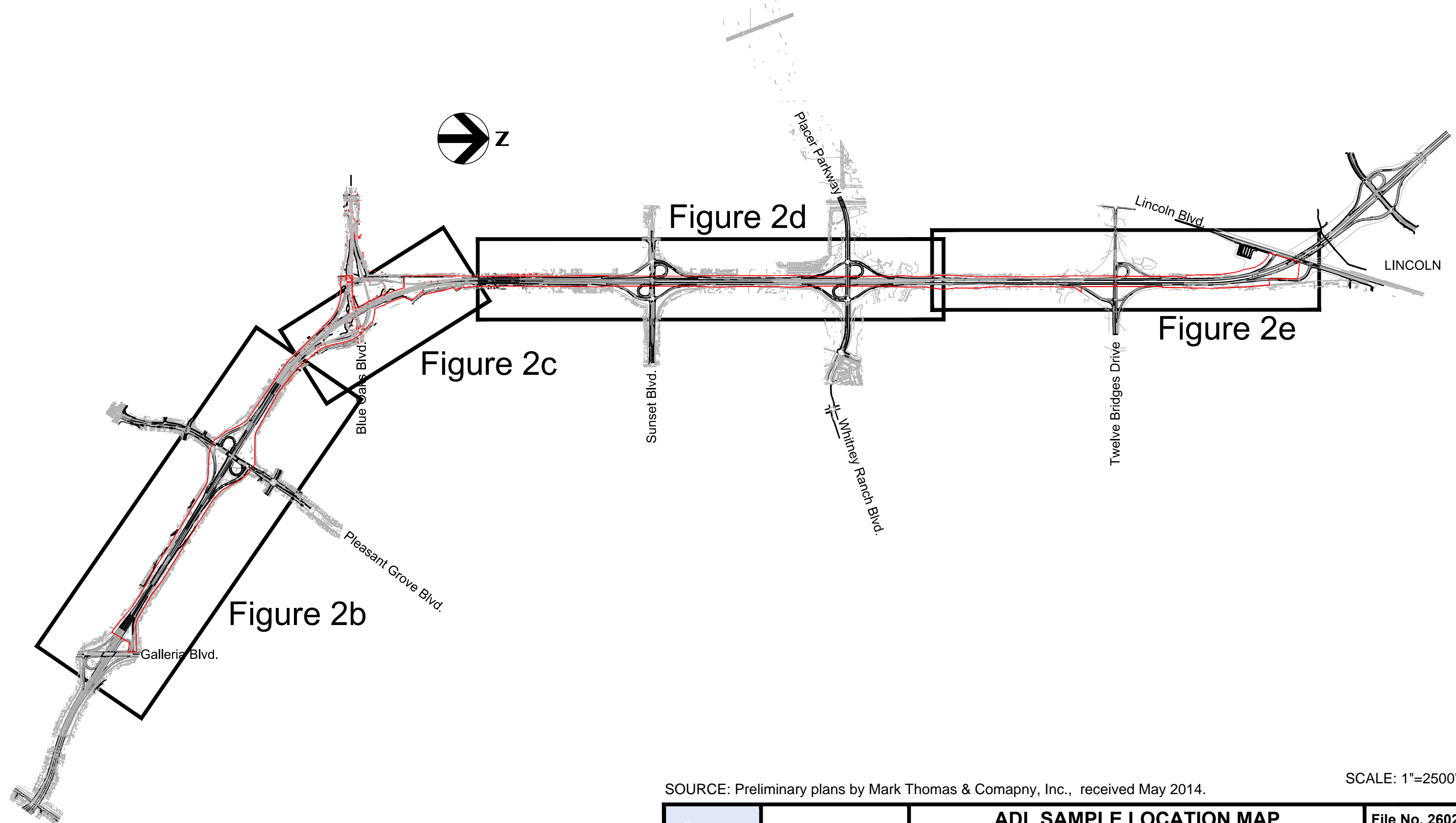


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VICINITY MAP
 SR 65 Capacity and Operational
 Improvements Project
 Placer County, California

File No. 2602.x
 January 2015
 Figure 1

1/14/2015 2602.x Fig2a SR65 CnO Imp ADL Sampling.dwg



SOURCE: Preliminary plans by Mark Thomas & Company, Inc., received May 2014.

SCALE: 1"=2500'



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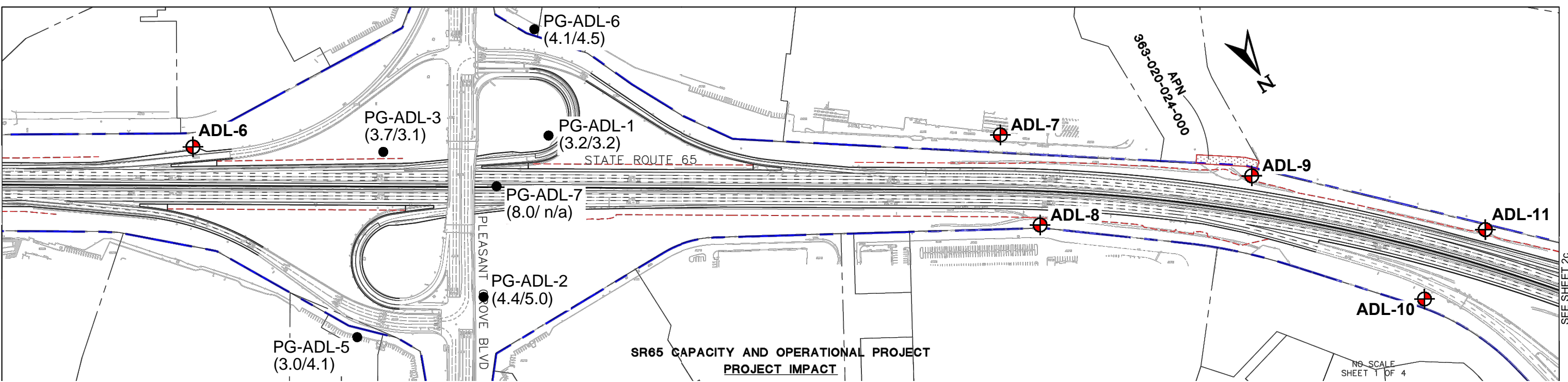
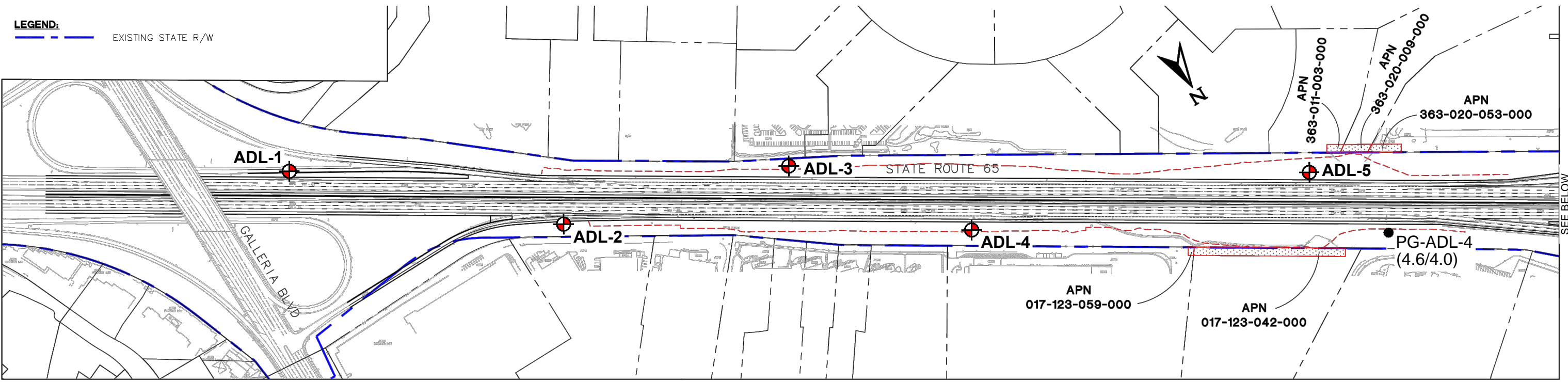
ADL SAMPLE LOCATION MAP
 SR 65 Capacity and Operational
 Improvements Project
 Placer County, California

File No. 2602.x

January 2015

Figure 2a

1/14/2015 2602.x Fig2 SR65 CrO Imp ADL_Sampling.dwg



LEGEND

- ADL-X 2014 Approximate Sampling Location
- PP-ADL-X 2013 Sampling Location and Results (mg/kg & mg/L)
- PG-ADL-X 2007 Sampling Location and Results (mg/kg at 0-4" / 8-18")

SOURCE: Preliminary plans by Mark Thomas & Comapny, Inc., received May 2014.



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ADL SAMPLE LOCATION MAP

SR 65 Capacity and Operational
 Improvements Project
 Placer County, California

File No. 2602.x

January 2015

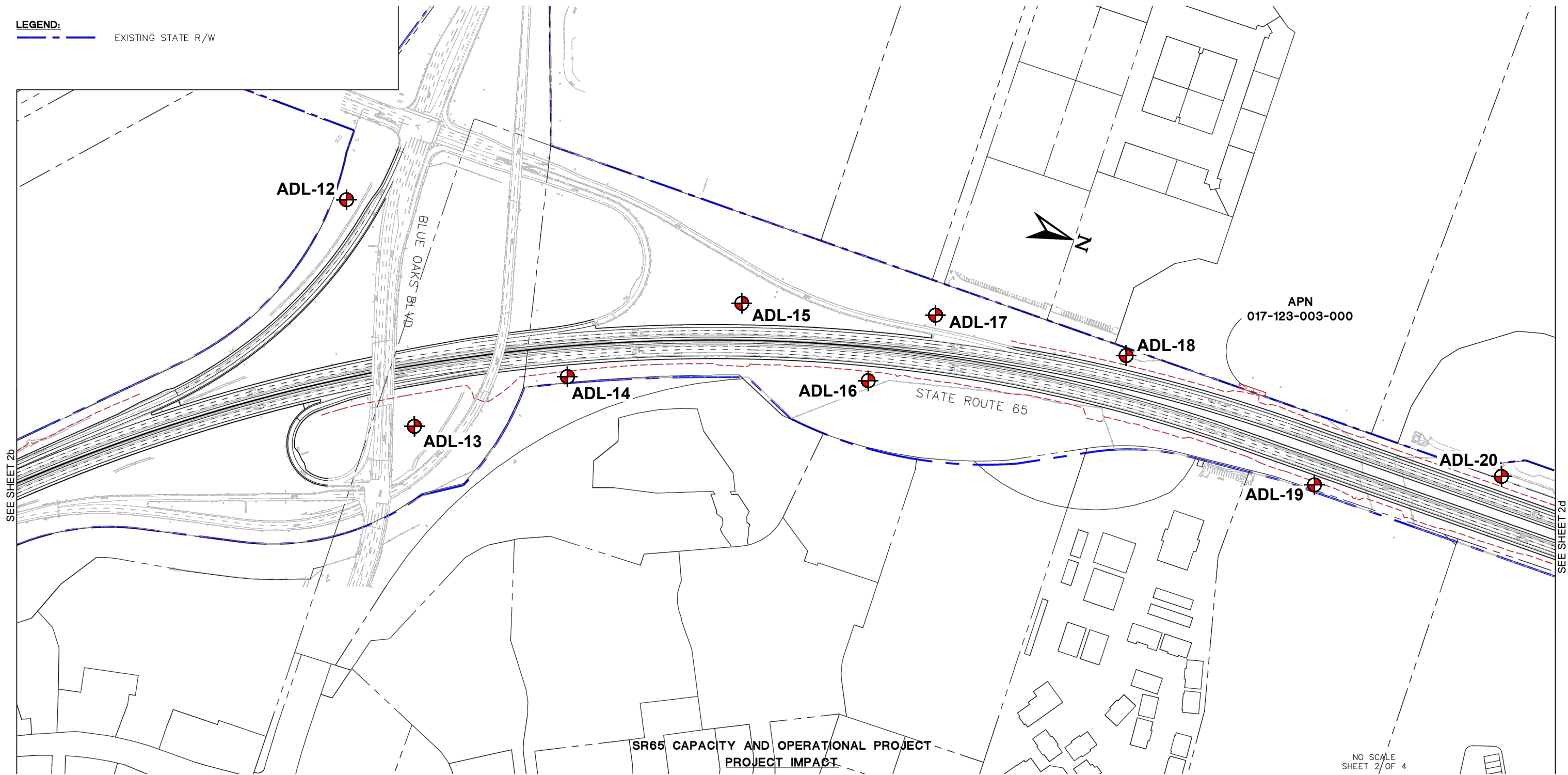
Figure 2b

SEE BELOW




SEE ABOVE

SEE SHEET 2c

LEGEND:  EXISTING STATE R/W



LEGEND

-  ADL-X 2014 Approximate Sampling Location
-  PP-ADL-X 2013 Sampling Location and Results (mg/kg & mg/L)
-  PG-ADL-X 2007 Sampling Location and Results (mg/kg at 0-4" / 8-18")

SOURCE: Preliminary plans by Mark Thomas & Comapny, Inc., received May 2014.

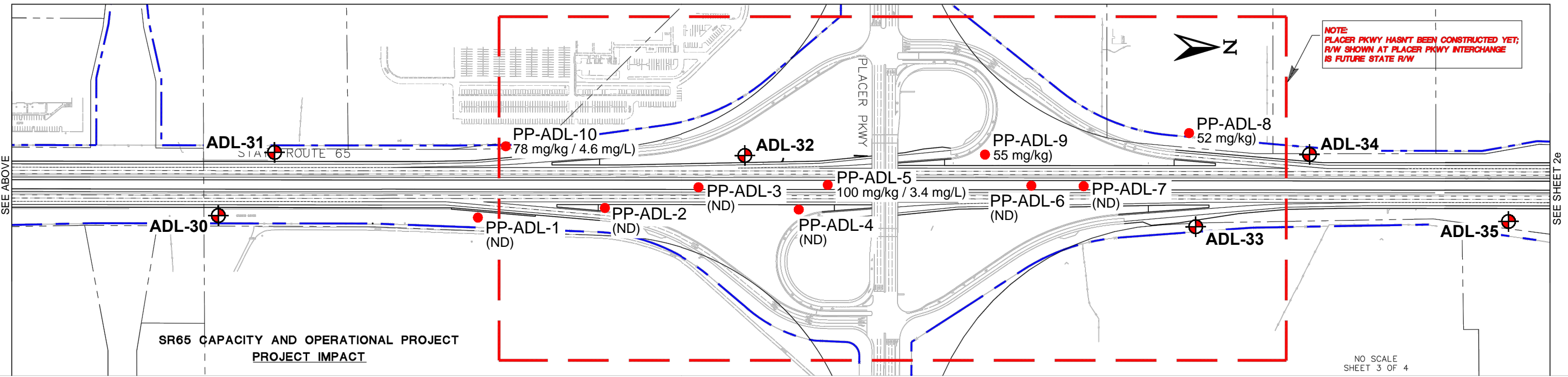
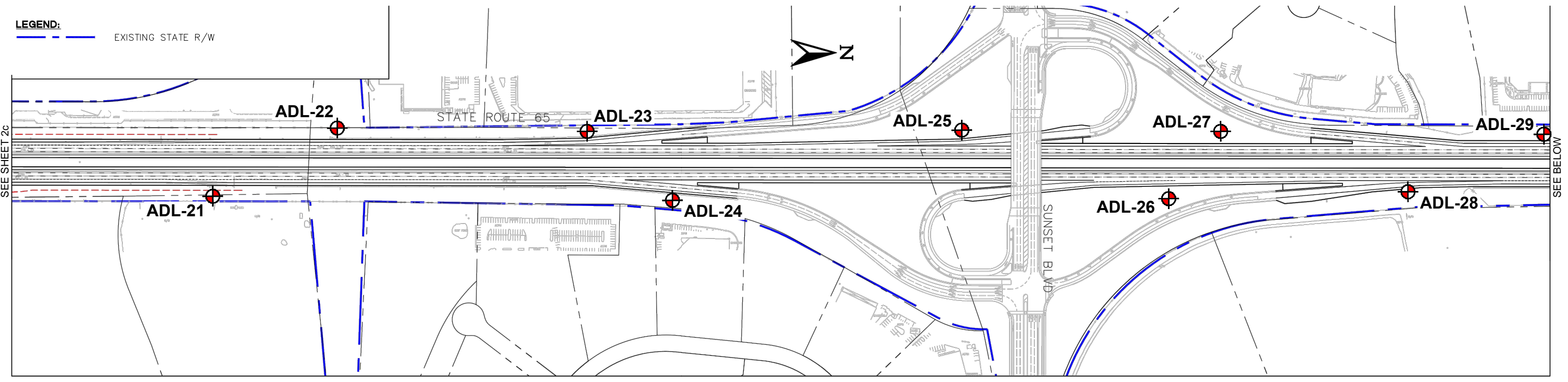


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ADL SAMPLE LOCATION MAP
SR 65 Capacity and Operational
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Placer County, California

File No. 2602.x
January 2015
Figure 2c

1/14/2015 2602.x Fig2 SR65 CrO Imp ADL_Sampling.dwg



LEGEND

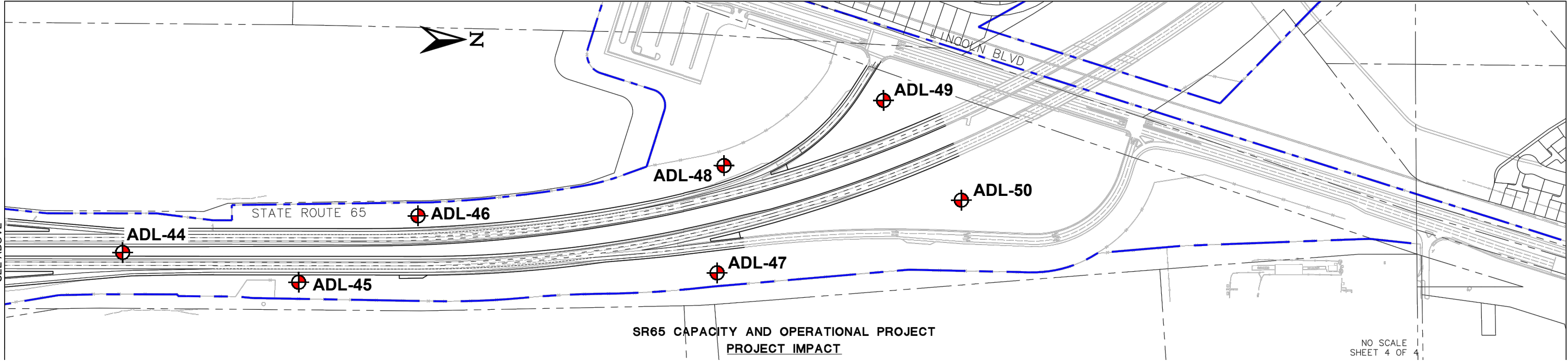
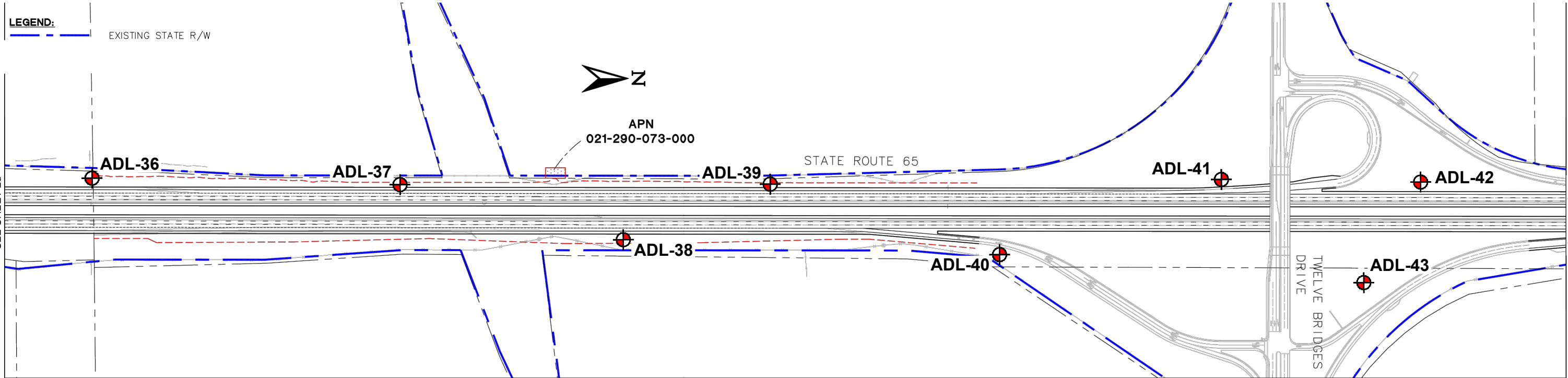
- ADL-X 2014 Approximate Sampling Location
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- PG-ADL-X 2007 Sampling Location and Results (mg/kg at 0-4" / 8-18")

SOURCE: Preliminary plans by Mark Thomas & Comapny, Inc., received May 2014.

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ADL SAMPLE LOCATION MAP
SR 65 Capacity and Operational
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Placer County, California

File No. 2602.x
January 2015
Figure 2d



LEGEND

- ADL-X 2014 Approximate Sampling Location
- PP-ADL-X 2013 Sampling Location and Results (mg/kg & mg/L)
- PG-ADL-X 2007 Sampling Location and Results (mg/kg at 0-4" / 8-18")

SOURCE: Preliminary plans by Mark Thomas & Comapny, Inc., received May 2014.

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ADL SAMPLE LOCATION MAP
 SR 65 Capacity and Operational
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File No. 2602.x
January 2015
Figure 2e

1/14/2015 2602.x Fig2 SR65 CrO Imp ADL_Sampling.dwg

APPENDIX A

BCI Aerially Deposited Lead Screening Evaluation Placer Parkway Interchange, June 2013



AERIALLY DEPOSITED LEAD SCREENING
Placer Parkway/SR65 Interchange
Placer County, CA

Prepared by:

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May 2013

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Geotechnical ▪ Geo-Environmental ▪ Construction Services ▪ Forensics

File No. 2150.3
May 29, 2013

Mr. Matt Brogan
Mark Thomas & Co.
7300 Folsom Blvd., Suite 203
Sacramento, CA 95826

Subject: Aerially Deposited Lead Screening
Placer Parkway/SR65 Interchange
Placer County, California

Dear Mr. Brogan,

Blackburn Consulting (BCI) completed an aerially deposited lead (ADL) screening for near surface soil along the shoulders and median of State Route 65 in the vicinity of the future Placer Parkway interchange.

This report includes a brief description of the project, the scope of our ADL investigation, analytical findings, and conclusions and recommendations regarding the occurrence of ADL within the project area.

Sincerely,

BLACKBURN CONSULTING

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

Jeff Patton, PE
Principal Engineer

AERIALY DEPOSITED LEAD SCREENING

Placer Parkway/SR65 Interchange
Placer County, California

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- Figure 1 – Vicinity Map
- Figures 2– ADL Sample Location Map

APPENDIX

- Laboratory Test Results
- Chain of Custody

INTRODUCTION

Blackburn Consulting (BCI) is pleased to provide this screening report for aeriually deposited lead (ADL) at the planned Placer Parkway/State Route 65 (SR65) interchange in Placer County, California.

This ADL screening assesses the presence of ADL in near surface soil throughout the project corridor. By focusing on near surface soil, where the highest ADL concentrations are expected, the findings of this assessment are used to determine if a more extensive ADL study is recommended. We commonly use this approach in areas where it's not clear if historic (pre-1987) traffic volumes were high enough to produce significant ADL concentrations.

This report is for Mark Thomas and Company (MTCO) and the County to use during planning and construction. Do not rely on this report for different locations or improvements without the written consent of BCI.

Project Location and Description

This ADL assessment is limited to the shoulders and median of SR65 in the vicinity of the proposed Whitney Boulevard interchange. Based on plans prepared by MTCO, road improvements will consist of on/off ramps and extended merge lanes. We performed this ADL investigation within the proposed improvement areas. The project area is shown on the "Vicinity Map" attached as Figure 1. The project limits and the individual sample locations are depicted on the "ADL Sample Location Map" attached as Figure 2.

BACKGROUND

Prior Environmental Report

BCI prepared the "Draft ISA, Whitney Blvd. and SR65 Interchange" in 2009. The ISA recommends evaluation for ADL within the project boundaries within the SR65 corridor.

Potential Lead in Soil

Soil testing by Caltrans and others along heavily traveled roads (i.e. heavily traveled prior to 1987) indicates that ADL may be present in the surface soil of the unpaved shoulders. The lead is generally attributed to emissions from vehicles powered by internal-combustion, leaded-gasoline engines. Along roads where the shoulder subgrade has not been disturbed, the presence of ADL is generally limited to the upper 24 inches. Lead concentrations typically drop rapidly with increasing depth below the ground surface. A portion of the SR65 alignment assessed for this investigation was constructed sometime between 1967 and 1975; therefore, the potential for ADL exists.

Compared to this limited near surface assessment, typical full scale ADL assessments include more samples more sample locations, and they assess the soil profile to a depth of ± 3 feet below ground surface (bgs). However, results of these investigations predictably detect the highest ADL concentrations in the near surface soil (0 to 6 inches below ground surface). Consequently, the intent of this limited surface soil screening is to assess soil expected to represent the highest ADL concentrations within the project area.

SCOPE OF WORK

To prepare this report, BCI:

- Discussed the project with MTCO
- Prepared a map of the proposed sample locations based on the project limits depicted on plans provided by MTCO
- Obtained a County encroachment permit
- Collected surface soil samples (0-4 inches below ground surface) at ten locations along the project alignment
- Submitted ten soil samples for laboratory analysis of total lead
- Submitted the two samples with the highest total lead concentrations for soluble lead analysis
- Reviewed the laboratory test results and prepared this report of ADL Screening

SAMPLING SUMMARY

Sample Locations

Throughout the project corridor, BCI selected ten sample locations along north and south bound shoulders and median of SR65. All sample locations are within eight feet of the existing pavement edge. Each location is in an area where we anticipate the existing soil will be disturbed by the planned interchange construction. Aerially deposited lead concentrations are typically highest at the ground surface and decrease with increasing depth. Therefore, because this is a focused screening, intended to represent the highest ADL concentrations in the project corridor, our sampling targeted surface soils: all ten samples were collected from the zone zero to four inches below ground surface. We show sample locations on the attached “ADL Sample Location Map”, Figure 2.

Sample Collection

We collected soil samples using a hand trowel and placed the collected soil in self-sealing plastic bags. We cleaned the sampling equipment between sample locations by washing in an Alconox solution and double rinsing with de-ionized water. Rinse water was disposed at the sample locations. After collection, we labeled the samples with the BCI Project number, sample time, date, location, depth, and the sampler’s initials. We delivered all samples under continuous chain-of-custody (COC) to Sunstar Laboratory for testing.

Soil Description

Soils encountered are generally loose silty sand with gravel.

Sample Analysis

We submitted 10 soil samples to Sunstar Labs for total lead analysis using EPA Test Method 6010B. The two samples with highest total lead concentrations (samples ADL-5 and ADL-10) were further tested for soluble lead using the Waste Extraction Test (WET) methodology. The laboratory performed Quality Assurance/Quality Control (QA/QC) procedures including method blanks, and spiked samples. We include a copy of the laboratory reports and chain-of-custody documents in the Appendix.

Analytical Results

Total lead concentrations range from below the detection limit of 3.0 milligram per kilogram (mg/kg) to 100 mg/kg. WET test results are 3.4 mg/l and 4.6 mg/l for samples ADL-5 and ADL-10 respectively. Table 1 summarizes the test results.

**TABLE 1:
Total & Soluble Lead Test Results (EPA Method 6010B)**

Sample Number	Location	Depth (inches bgs)	Total lead (mg/kg)	WET lead (mg/l)
ADL-1	NB Shoulder	0 – 4	ND	--
ADL-2	NB Shoulder	0 – 4	ND	--
ADL-3	NB Median	0 – 4	ND	--
ADL-4	NB Shoulder	0 – 4	ND	--
ADL-5	SB Median	0 – 4	100	3.4
ADL-6	NB Median	0 – 4	ND	--
ADL-7	NB Shoulder	0 – 4	ND	--
ADL-8	SB Shoulder	0 – 4	52	--
ADL-9	SB Shoulder	0 – 4	55	--
ADL-10	SB Shoulder	0 – 4	78	4.6

NB = northbound; SB = southbound

bgs = below ground surface

ND = Not detected at a reporting limit of 3.0 mg/kg

CONCLUSIONS AND RECOMMENDATIONS

Based on the distribution of “total lead”, it appears that ADL is present along the shoulder and median of the southbound lanes. No detectable concentrations of “total lead” were detected along the northbound lanes. These findings are consistent with the historic roadway configuration. Specifically, historic SR65 was a two lane highway. In 1998, when it was expanded to a four lane divided highway, the northbound lanes were added and the two existing lanes became the southbound lanes. Consequently, it’s reasonable to conclude that if ADL is present it will be associated with the older (current southbound) lanes.

“Total lead” concentrations adjacent to the southbound lanes are relatively low (all concentrations at or below 100 mg/kg). This is well below the total Threshold Limit Concentration (TTLC) of 1,000 mg/kg that defines the lower limit for hazardous waste. However, all four samples from the southbound lanes did exceed the 50 mg/kg threshold (equal to ten times the Soluble Threshold Limit Concentration (STLC) for lead of 5mg/l). Commonly when total lead concentrations exceed 50 mg/kg additional testing is done to establish relative soluble lead concentrations.

Soluble lead testing is done using the Waste Extraction Test (WET). Based on the findings of this investigation, specifically, that four of ten samples have “total lead” concentrations greater than 50 mg/kg, the two samples with the highest “total lead” concentrations were selected for

soluble lead testing. Soluble lead (WET) test results range from 3.4 to 4.6 mg/l, which correspond to “total lead” concentrations of 100 and 78 mg/kg, respectively. These soluble lead results are below the STLC hazardous waste threshold of 5 mg/l.

Consequently, because this assessment focuses on the near surface soil, it is biased toward identifying “elevated” ADL concentrations. If the investigation were expanded to model a deeper soil section (i.e. 0 to 3 ft. bgs), where ADL concentrations drop sharply within the upper 3 feet of the soil profile, the average total and soluble concentrations would be significantly lower than the values presented in this screening. Therefore, based on the concentrations of both total and soluble lead detected, it is our opinion that additional testing including the deeper soil horizons is not warranted.

Caltrans should review these screening results to determine if they concur with the findings.

The contractor should provide a lead compliance plan as part of worker health and safety plans.

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.

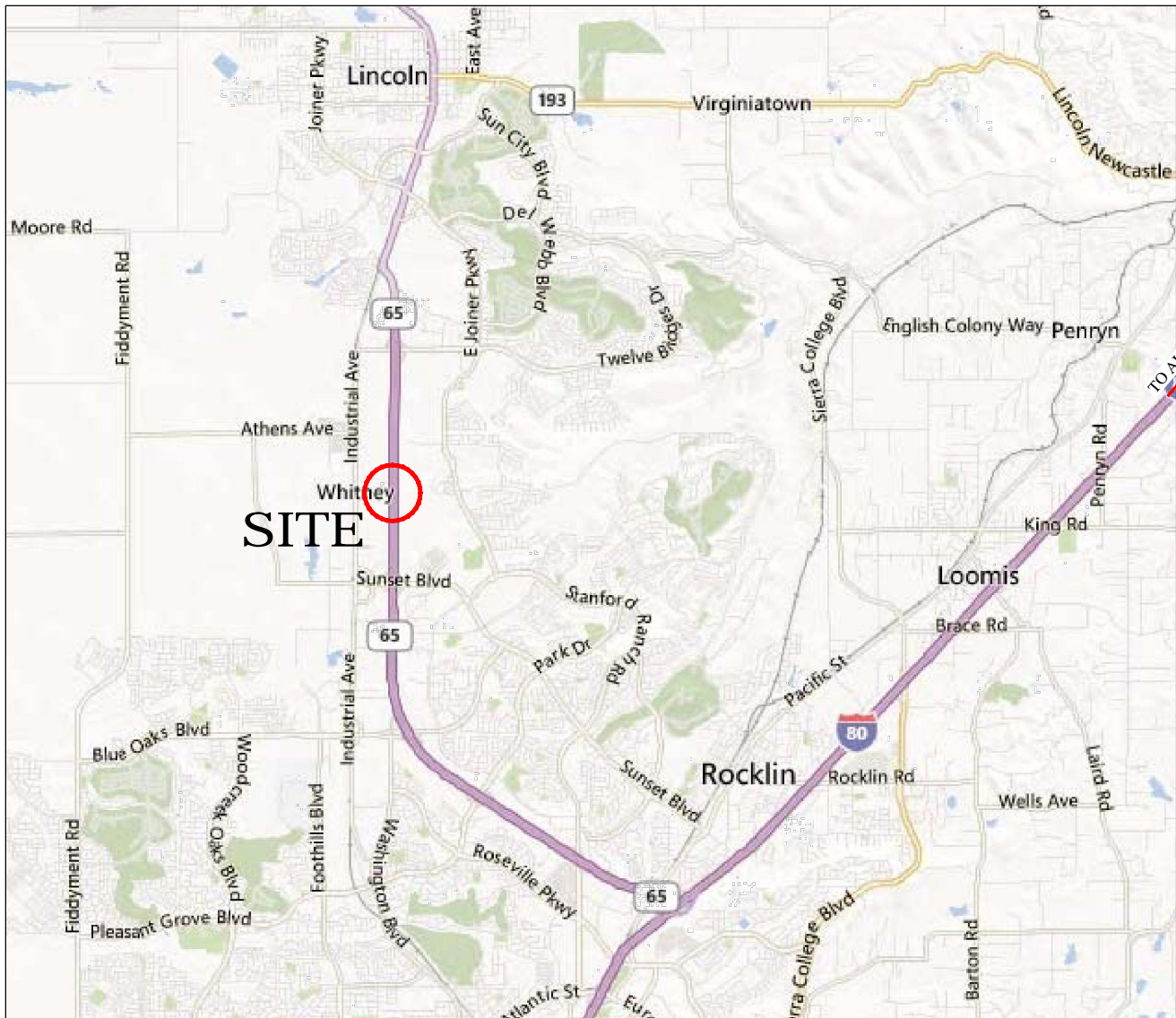
This report is not a comprehensive site characterization. We base the findings presented in this report on limited soil sampling and laboratory analyses. This report is not intended to address potential impacts related to sources other than those specified herein.

Figures

Figure 1 – Vicinity Map

Figure 2 – ADL Sample Location Map





TO SACRAMENTO



NO SCALE

4/15/2013 2:15:0X Fig 1 Placer Parkway ISA.dwg

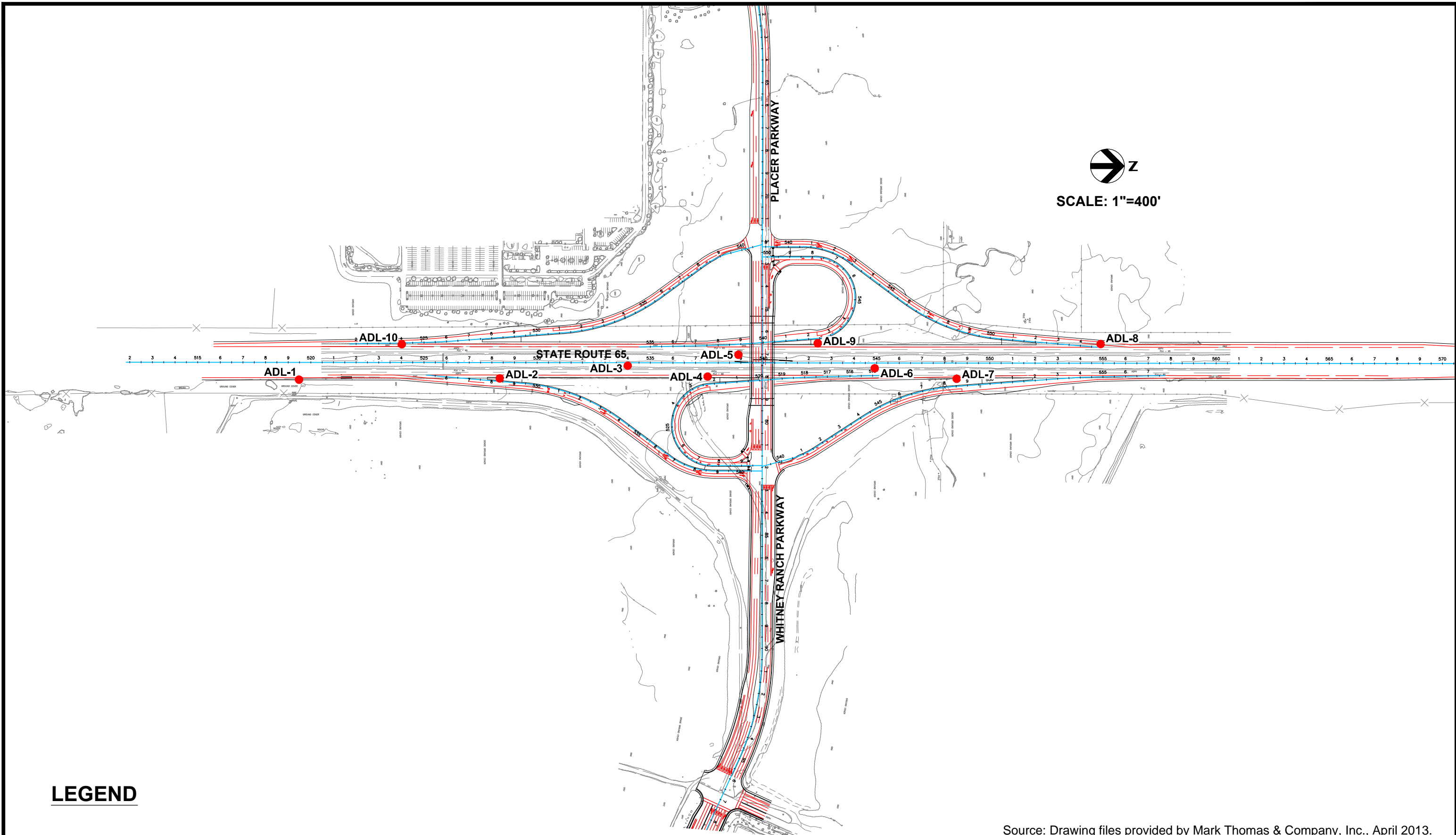


11521 Blocker Drive, Suite 110
 Auburn, CA 95603
 Phone: (530) 887-1494
 Fax: (530) 887-1495
 www.blackburnconsulting.com

VICINITY MAP
 Placer Parkway / SR65 Interchange
 Placer County, California

File No. 2150.3
May 2013
Figure 1

5/28/2013 2150.3 Fig 2 Placer Parkway ADL.dwg



LEGEND

ADL-1 ● APPROXIMATE SAMPLING LOCATION

Source: Drawing files provided by Mark Thomas & Company, Inc., April 2013.



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ADL SAMPLE LOCATION MAP

Placer Parkway / SR65 Interchange
 Placer County, California

File No. 2150.3

May 2013

Figure 2

APPENDIX A

Laboratory Test Results
Chain of Custody





25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

21 March 2013

Dave Buck
Blackburn Consulting
11521 Blocker Dr #110
Auburn, CA 95603
RE: Place Parkway / SR65

Enclosed are the results of analyses for samples received by the laboratory on 03/15/13 09:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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: Place Parkway / SR65 Project Number: 2150.X Project Manager: Dave Buck	Reported: 03/21/13 13:26
---	---	------------------------------------

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL-1	T130605-01	Soil	03/14/13 09:40	03/15/13 09:50
ADL-2	T130605-02	Soil	03/14/13 09:50	03/15/13 09:50
ADL-3	T130605-03	Soil	03/14/13 09:55	03/15/13 09:50
ADL-4	T130605-04	Soil	03/14/13 10:00	03/15/13 09:50
ADL-5	T130605-05	Soil	03/14/13 10:10	03/15/13 09:50
ADL-6	T130605-06	Soil	03/14/13 10:15	03/15/13 09:50
ADL-7	T130605-07	Soil	03/14/13 10:20	03/15/13 09:50
ADL-8	T130605-08	Soil	03/14/13 10:40	03/15/13 09:50
ADL-9	T130605-09	Soil	03/14/13 10:50	03/15/13 09:50
ADL-10	T130605-10	Soil	03/14/13 11:00	03/15/13 09:50

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: Place Parkway / SR65 Project Number: 2150.X Project Manager: Dave Buck	Reported: 03/21/13 13:26
---	---	------------------------------------

ADL-1
T130605-01 (Soil)

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

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	3031530	03/15/13	03/18/13	EPA 6010B	

SunStar Laboratories, Inc.

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Wendy Hsiao For Daniel Chavez, Project Manager



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 949.297.5027 Fax

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Place Parkway / SR65 Project Number: 2150.X Project Manager: Dave Buck	Reported: 03/21/13 13:26
---	---	------------------------------------

ADL-2
T130605-02 (Soil)

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

SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	3031530	03/15/13	03/18/13	EPA 6010B	
------	----	-----	-------	---	---------	----------	----------	-----------	--

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 For Daniel Chavez, Project Manager

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: Place Parkway / SR65
Project Number: 2150.X
Project Manager: Dave Buck

Reported:
03/21/13 13:26

ADL-3
T130605-03 (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	3031530	03/15/13	03/18/13	EPA 6010B	
------	----	-----	-------	---	---------	----------	----------	-----------	--

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: Place Parkway / SR65 Project Number: 2150.X Project Manager: Dave Buck	Reported: 03/21/13 13:26
---	---	------------------------------------

ADL-4
T130605-04 (Soil)

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

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	3031530	03/15/13	03/18/13	EPA 6010B	

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: Place Parkway / SR65 Project Number: 2150.X Project Manager: Dave Buck	Reported: 03/21/13 13:26
---	---	------------------------------------

ADL-5
T130605-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	100	3.0	mg/kg	1	3031530	03/15/13	03/18/13	EPA 6010B	
-------------	------------	-----	-------	---	---------	----------	----------	-----------	--

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: Place Parkway / SR65 Project Number: 2150.X Project Manager: Dave Buck	Reported: 03/21/13 13:26
---	---	------------------------------------

ADL-6
T130605-06 (Soil)

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

SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	3031530	03/15/13	03/18/13	EPA 6010B	
------	----	-----	-------	---	---------	----------	----------	-----------	--

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: Place Parkway / SR65 Project Number: 2150.X Project Manager: Dave Buck	Reported: 03/21/13 13:26
---	---	------------------------------------

ADL-7
T130605-07 (Soil)

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

SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	3031530	03/15/13	03/18/13	EPA 6010B	
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Wendy Hsiao For Daniel Chavez, Project Manager



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 949.297.5027 Fax

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Place Parkway / SR65 Project Number: 2150.X Project Manager: Dave Buck	Reported: 03/21/13 13:26
---	---	------------------------------------

ADL-8
T130605-08 (Soil)

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

SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	52	3.0	mg/kg	1	3031530	03/15/13	03/18/13	EPA 6010B	
------	----	-----	-------	---	---------	----------	----------	-----------	--

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: Place Parkway / SR65 Project Number: 2150.X Project Manager: Dave Buck	Reported: 03/21/13 13:26
---	---	------------------------------------

ADL-9
T130605-09 (Soil)

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

SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	55	3.0	mg/kg	1	3031530	03/15/13	03/18/13	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: Place Parkway / SR65 Project Number: 2150.X Project Manager: Dave Buck	Reported: 03/21/13 13:26
---	---	------------------------------------

ADL-10
T130605-10 (Soil)

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

SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	78	3.0	mg/kg	1	3031530	03/15/13	03/18/13	EPA 6010B	
------	----	-----	-------	---	---------	----------	----------	-----------	--

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Wendy Hsiao For Daniel Chavez, Project Manager

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: Place Parkway / SR65
Project Number: 2150.X
Project Manager: Dave Buck

Reported:
03/21/13 13:26

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
Batch 3031530 - EPA 3051										
Blank (3031530-BLK1)										
				Prepared: 03/15/13 Analyzed: 03/18/13						
Lead	ND	3.0	mg/kg							
LCS (3031530-BS1)										
				Prepared: 03/15/13 Analyzed: 03/18/13						
Lead	113	3.0	mg/kg	100		113	75-125			
Matrix Spike (3031530-MS1)										
				Source: T130605-01 Prepared: 03/15/13 Analyzed: 03/18/13						
Lead	106	3.0	mg/kg	100	ND	106	75-125			
Matrix Spike Dup (3031530-MSD1)										
				Source: T130605-01 Prepared: 03/15/13 Analyzed: 03/18/13						
Lead	107	3.0	mg/kg	100	ND	107	75-125	0.618	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: Place Parkway / SR65
Project Number: 2150.X
Project Manager: Dave Buck

Reported:
03/21/13 13:26

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.

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 For Daniel Chavez, Project Manager

Chain of Custody Record

SunStar Laboratories, Inc.
 25712 Commerce Centre Dr
 Lake Forest, CA 92630
 949-297-5020

Client: Blackburn Consulting (BCI)
 Address: 11521 Blackhawk Dr #110, Auburn, CA 95603
 Phone: 530-887-1494 Fax: _____
 Project Manager: David Buole

Date: 3/14/13 Page: 1 Of 1
 Project Name: Placer Parkway / SR 65
 Collector: David Buole Client Project #: 2150.X
 Batch #: 7130605 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	Laboratory ID #	Comments/Preservative	Total # of containers
ADL-1	3/14/13	9:50	Soil	Ziplock										X	01		
		9:55													02		
		10:00													03		
		10:10													04		
		10:15													05		
		10:20													06		
		10:40													07		
		10:50													08		
		11:00													09		
															10		
Relinquished by: (signature) _____ Date / Time <u>3/14/13 1:30 pm</u> Received by: (signature) _____ Date / Time <u>3:15/13</u> Relinquished by: (signature) _____ Date / Time <u>9:50</u> Received by: (signature) _____ Date / Time <u>9:50</u>																	
Turn around time: <u>4 days</u> Total # of containers: <u>12</u> Chain of Custody seals: <u>OK</u> Seals intact? <u>OK</u> Received good condition/cold: <u>5/3</u>																	
Sample disposal instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____ Notes: STD. TAT 2 (needed 3/21/13)																	

SAMPLE RECEIVING REVIEW SHEET

BATCH # T130605

Client Name: BLACKBURN CON.

Project: PLACE PARKWAY / SR65

Received by: Jenny

Date/Time Received: 3.15.13 / 9.50

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 5.5 °C +/- the CF (- 0.2°C) = 5.3 °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 82 3.15.13

Comments:



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

22 April 2013

Dave Buck
Blackburn Consulting
11521 Blocker Dr #110
Auburn, CA 95603
RE: Place Parkway / SR65

Enclosed are the results of analyses for samples received by the laboratory on 03/15/13 09:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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: Place Parkway / SR65
Project Number: 2150.X
Project Manager: Dave Buck

Reported:
04/22/13 17:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL-5	T130605-05	Soil	03/14/13 10:10	03/15/13 09:50
ADL-10	T130605-10	Soil	03/14/13 11:00	03/15/13 09:50

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 For Daniel Chavez, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
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 949.297.5027 Fax

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Place Parkway / SR65 Project Number: 2150.X Project Manager: Dave Buck	Reported: 04/22/13 17:01
---	---	------------------------------------

ADL-5
T130605-05 (Soil)

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

SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	3.4	0.10	mg/l	1	3041729	04/17/13	04/22/13	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 For Daniel Chavez, Project Manager



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 949.297.5027 Fax

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: Place Parkway / SR65 Project Number: 2150.X Project Manager: Dave Buck	Reported: 04/22/13 17:01
---	---	------------------------------------

ADL-10
T130605-10 (Soil)

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

SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	4.6	0.10	mg/l	1	3041729	04/17/13	04/22/13	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 For Daniel Chavez, Project Manager

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: Place Parkway / SR65
Project Number: 2150.X
Project Manager: Dave Buck

Reported:
04/22/13 17:01

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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 3041729 - STLC Metals

Blank (3041729-BLK1)

Prepared: 04/17/13 Analyzed: 04/22/13

Lead	ND	0.10	mg/l							
------	----	------	------	--	--	--	--	--	--	--

LCS (3041729-BS1)

Prepared: 04/17/13 Analyzed: 04/22/13

Lead	9.94	0.10	mg/l	10.0		99.4	75-125			
------	------	------	------	------	--	------	--------	--	--	--

Matrix Spike (3041729-MS1)

Source: T130605-05

Prepared: 04/17/13 Analyzed: 04/22/13

Lead	13.5	0.10	mg/l	10.0	3.39	101	75-125			
------	------	------	------	------	------	-----	--------	--	--	--

Matrix Spike Dup (3041729-MSD1)

Source: T130605-05

Prepared: 04/17/13 Analyzed: 04/22/13

Lead	13.0	0.10	mg/l	10.0	3.39	96.0	75-125	3.51	30	
------	------	------	------	------	------	------	--------	------	----	--

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: Place Parkway / SR65
Project Number: 2150.X
Project Manager: Dave Buck

Reported:
04/22/13 17:01

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.

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 For Daniel Chavez, Project Manager

Wendy Hsiao

From: Dave Buck [daveb@blackburnconsulting.com]
Sent: Wednesday, April 17, 2013 9:39 AM
To: 'Wendy Hsiao'
Subject: RE: final report and invoice for SR65 (T130605)

Hi Wendy – I need to have two of the samples run for WET lead:

ADL-5

ADL-10

I'm not sure what the minimum time is for extraction but If possible I would like to get the results by next Monday.

Thanks

Dave Buck

From: Wendy Hsiao [mailto:wendy@sunstarlabs.com]
Sent: Thursday, March 21, 2013 1:36 PM
To: 'Dave Buck'
Cc: 'Bill Hannell'; accounting@sunstarlabs.com; 'Rene Erickson'; accounting@sunstarlabs.com
Subject: final report and invoice for SR65 (T130605)

Hi Dave,

Here is the final report and invoice for the project referenced in the subject line.
Please feel free to contact me if you have any questions or need any further STL/CLP tests run.

Thank you,

Wendy Hsiao
Project Manager
SunStar Laboratories, Inc.
25712 Commercentre Drive, Lake Forest, CA 92630
Office: (949) 297-5020
E-mail: wendy@sunstarlabs.com

APPENDIX B

BCI Aerially Deposited Lead Screening Evaluation Pleasant Grove Interchange, October 2007



**AERIALY DEPOSITED LEAD
SCREENING INVESTIGATION**

State Route 65 / Pleasant Grove Boulevard Interchange

Roseville, California

Prepared by:

Blackburn Consulting
11521 Blocker Drive, Suite 110
Auburn, CA 95603

October 2007

Prepared for:

Mark Thomas & Company, Inc.

BCI File No. 1081.2
October 3, 2007

Mr. Matt Brogan
Mark Thomas & Company
7300 Folsom Blvd., Suite 203
Sacramento, CA 95826

Subject: **Aerially Deposited Lead Screening Investigation
SR65/Pleasant Grove Boulevard Interchange
Roseville, California**

Dear Mr. Brogan:

Blackburn Consulting (BCI) has completed aerially deposited lead (ADL) testing of soil in select areas of the proposed road improvements for the SR65/Pleasant Grove Boulevard Interchange project.

In summary, all collected and tested soil samples have detectable lead concentrations less than 10 parts per million (ppm) lead. Our report includes a description of the project, a summary of findings, and a map of the sample locations.

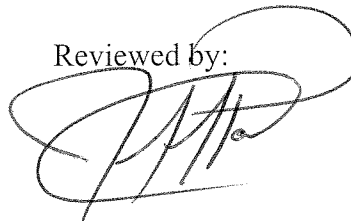
Sincerely,

BLACKBURN CONSULTING



Alfred P. Worcester, P.G., C.E.G.
Senior Project Manager

Reviewed by:



Jeffrey S. Patton, P.E.
Principal Engineer

**Aerially Deposited Lead Screening Investigation
SR65/Pleasant Grove Boulevard Interchange
Roseville, California**

TABLE OF CONTENTS

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FIGURES

- Figure 1 – Vicinity Map
- Figure 2 – ADL Sampling Map

ATTACHMENTS

- Laboratory Results
- Chain of Custody

INTRODUCTION

Blackburn Consulting (BCI) is pleased to provide this letter report of a limited screening investigation for aerially deposited lead (ADL) for the City of Roseville's SR65/Pleasant Grove Boulevard Interchange project. We show the project site on a "Vicinity Map" attached as Figure 1.

Typically, Caltrans requires an ADL investigation for improvements along State owned roads, particularly roads constructed prior to 1987, which is the date of effective removal of lead from automobile fuels. There were no roads in the project area prior to 1987 and the subject roads (i.e. State Route 65 and Pleasant Grove Boulevard) were not extended into the project area until 1992. Therefore, the likelihood of encountering significant ADL concentrations in the improvement area was low, but it couldn't be rationally discounted without any supporting documentation. Consequently, the City decided to perform this limited ADL screening in the project area.

If this limited investigation had detected evidence of elevated ADL this report would have recommended additional sampling and testing. However, since the detected concentrations are low, there is no apparent need for additional sampling and testing.

Project Description

The current SR65/Pleasant Grove Boulevard interchange was opened in 2000. The overcrossing allows 4 lanes of Pleasant Grove Boulevard to cross over 6 lanes of SR65.

Based on information provided by Mark Thomas & Company (MTCO), the proposed improvements consist of the following:

- Widen the Pleasant Grove Boulevard overcrossing structure on the northwest side.
- Add southbound travel lanes along the west side of Pleasant Grove Boulevard from Fairway Drive to the overcrossing structure.
- Provide a fourth travel lane along the east side of Pleasant Grove Boulevard between Roseville Parkway and the southbound SR65 ramp terminal.
- Provide three travel lanes in each direction along Pleasant Grove Boulevard between Highland Park Drive and Fairway Drive.
- Construct a southbound SR65 loop on-ramp from southbound Pleasant Grove Boulevard.
- Provide an additional lane at the southbound and northbound exit ramp terminals from SR65.
- Add auxiliary lanes along northbound and southbound SR65, between Pleasant Grove Boulevard and the Galleria Boulevard / Stanford Ranch Road Interchanges. The auxiliary lanes are planned as a separate, later phase of the project.

BACKGROUND

Hazardous Materials Determination Criteria

Regulatory criteria to classify a waste as “California Hazardous” for handling and disposal purposes are contained in the California Code of Regulations (CCR), Title 22, Division 4.5, Chapter 11, Article 3, 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 metals, it is classified as California Hazardous when: 1) the total metal content exceeds the respective Total Threshold Limit Concentration (TTLC) of 1000 mg/kg (California); or 2) the soluble metal content exceeds the respective Soluble Threshold Limit Concentration (STLC) of 5 milligrams/liter (mg/l). For California waste, the soluble level is determined using the Waste Extraction Test (WET) with de-ionized water. For Federal RCRA waste the soluble value is determined using the Toxicity Characteristic Leaching Potential (TCLP) test.

A lead-containing soil has the potential of exceeding the 5 mg/l soluble concentration (Federal criteria to classify as waste as hazardous) when the soil has a total lead content greater than or equal to ten times the respective STLC regulatory level (i.e. 50 mg/kg). Hence, when test results detect total lead in excess of 10 times the STLC, soluble metal analysis is typically recommended.

SCOPE

BCI completed the following tasks to prepare this report.

- Hand-augured seven (7) sample locations, and collected soil samples from 0 to 4 inches below ground surface (bgs) and between about 8 to 18 inches bgs. We obtained soil samples from the unpaved, exterior shoulders of proposed widening areas, from the proposed exit ramp widening areas, and at the foundation area where the overcrossing will be widened. All samples are located within 10 to 15 feet of the paved, travel lanes. Our original scope included six (6) sample locations but we collected an additional sample to determine potential lead impacts in the SR65 median adjacent to the existing bent.
- Conducted laboratory analysis of 13 samples for total lead.
- Reviewed the lab test results and prepared this report of findings for the City and Caltrans to review.

SAMPLING SUMMARY

Sample Locations

BCI selected seven (7) ADL test locations within the project limits. Each location represents an area where the existing soil may be disturbed by planned new construction.

Plans provided by MTCO define the project limits. ADL sample locations are shown on the “ADL Sampling Map”, Figure 2.

Sampling Collection

We collected soil samples using a combination of hand augering and a slide-hammer to drive a 1.0-inch diameter, slotted-spoon, soil sampler to the desired sample interval. After driving to the appropriate depth, we manually retrieved a soil sample from the slotted spoon. We sealed the collected soil samples in sterile glass jars provided by the analytical lab. After collection, we labeled the samples with the BCI Project number, sample time, date, location, depth, and the sampler’s initials. We maintained all samples under continuous chain-of-custody (COC) until transport to the ExcelChem laboratory for testing.

At each sample interval, we cleaned the slotted-spoon by washing in an Alconox solution, rinsing with tap water, and final rinse with deionized water. Rinse water was disposed at the sample locations.

Soil Description

Consistent with our previous geotechnical investigation of the site, surface soils consist of predominately dense to very dense, dry to slightly moist, silty sand with gravel and cobbles.

Sample Analysis

We submitted thirteen (13) soil samples to ExcelChem for total lead analysis using EPA Test Method 6010B.

Copies of the laboratory reports and chain-of-custody documents are attached to the report.

Analytical Results

The tests show low lead concentrations in all samples. The lowest is 3.0 ppm at ADL-5 (0 to 4 inches). The highest is 8.0 mg/kg at ADL-7 (0 to 4 inches bgs).

We present analytical test results on Table 1.

**TABLE 1:
TTLC Analytical Test Results**

Boring	Total lead (mg/kg)	
	0 to 4 inches	8 to 18 inches
ADL-1	3.2	3.2
ADL-2	4.4	5.0
ADL-3	3.7	3.1
ADL-4	4.6	4.0
ADL-5	3.0	4.1
ADL-6	4.1	4.5
ADL-7	8.0	N/A

CONCLUSIONS AND RECOMMENDATIONS

Statistical Evaluation

Following the hazardous waste characterization guidelines published in California Code of Regulations (CCR), Title 22, Section 66694, we used appropriate statistical analysis to assess the total lead findings.

From all lead test results, the total lead concentration average is 4.2 mg/kg, the standard deviation is 1.3 mg/kg, the 90 percent upper confidence interval (UCI) is 4.7 mg/kg, and the 95 percent UCI is 4.9 mg/kg.

Recommendations

We do not recommend additional analysis and field sampling, based on the following:

- Low overall total lead concentrations.
- Low average total lead (significantly less than 50 mg/kg).
- A 95 percent UCI that is an order of magnitude below the California action level (350 mg/kg) and the California Preliminary Remediation Goal (PRG) for industrial areas (400 mg/kg).

Risk to Human Health

Based on the current and proposed land use for the project and surrounding areas, it is appropriate to compare the highest reported total lead values to the EPA Region 9 Preliminary Remediation Goal (PRG) for lead in both industrial and residential soil.

The highest reported total lead concentration from all tests conducted for this project is 8.0 mg/kg. The 95% UCI for total lead in soil located within 18 inches of the ground surface is less than 5.0 mg/kg. This value is significantly less than the California-modified 150 mg/kg PRG in residential application.

Waste Disposal/Soil Reuse

Based on our review and analysis of the lead testing data, we conclude that the Contractor may reuse, without restrictions related to ADL, all soil excavated within the project boundaries. However, this does not relieve the contractor of his independent responsibility to confirm the actual conditions. Soil should not be moved outside the project boundaries without prior written approval from the City.

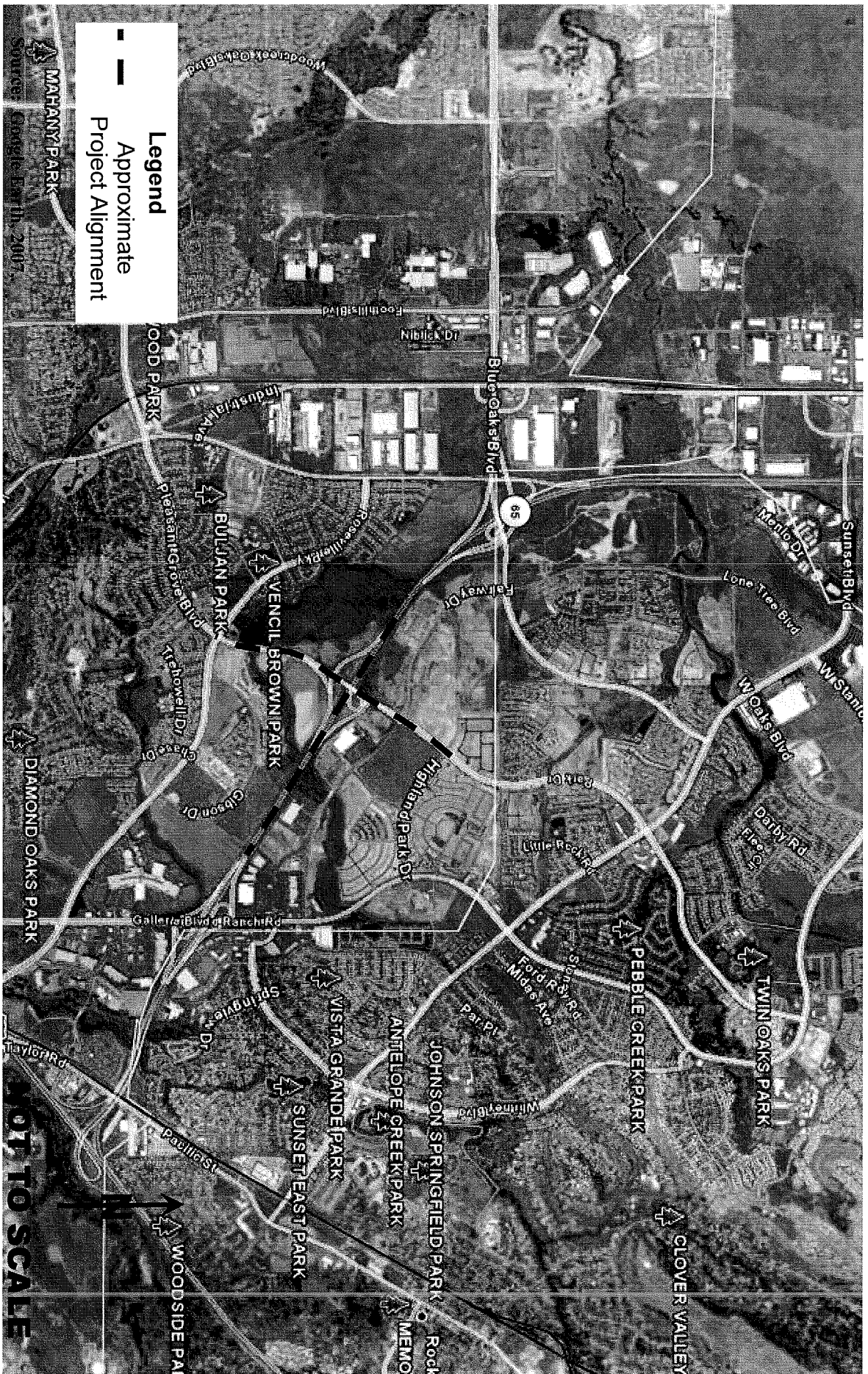
LIMITATIONS

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

We intend this report for MTCO and the City of Roseville to use during advanced planning and construction. Do not rely on this report for different locations or improvements. Others shall not rely upon this report without the written consent of BCI.

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

The scope of services performed to prepare this report are not intended to be a comprehensive site characterization. The findings presented in this report are based on the results of limited sampling and laboratory analyses. This scope of services is only intended to look for indications that elevated ADL concentrations may be encountered within the project area.



Legend
 - - - - - Approximate
 - - - - - Project Alignment

NOT TO SCALE

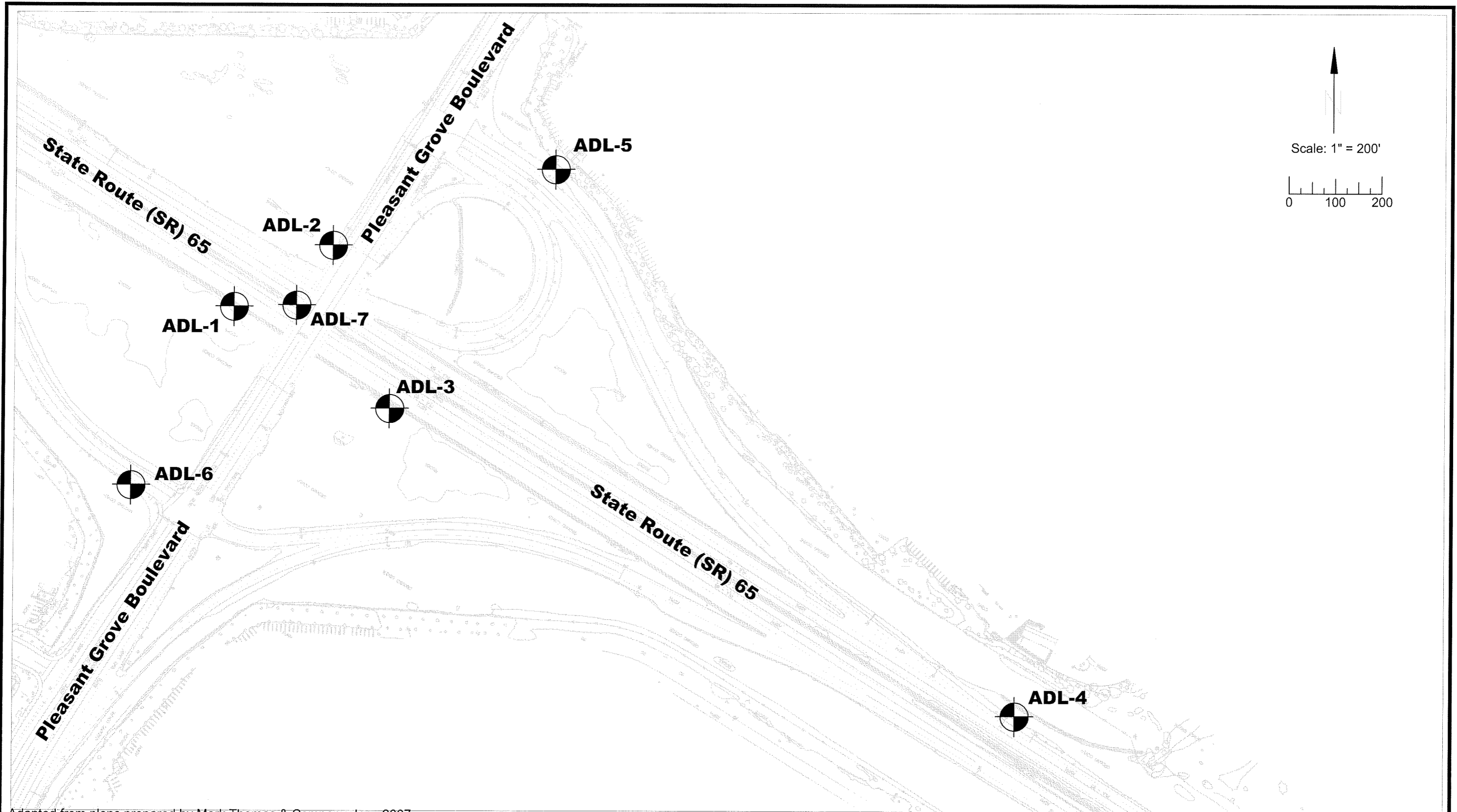
blackburn consulting
 11521 Blocker Drive, Suite 110
 Auburn, CA 95603
 (530) 887-1494
 (530) 887-1495-Fax
 www.blackburnconsulting.com

VICINITY MAP
Pleasant Grove Boulevard / State Route 65 Interchange, Phase II
Roseville, California

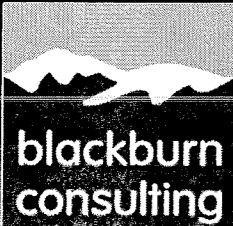
File No. 1081.2

October 2007

Figure 1



Adapted from plans prepared by Mark Thomas & Company, Inc., 2007



11521 Blocker Drive
Suite 110
Auburn, CA 95603
Phone (530) 887-1494
Fax (530) 887-1495
E-Mail:
bcistaff@blackburnconsulting.com

ADL SAMPLING MAP

Pleasant Grove Boulevard / SR65 Interchange Project
Roseville, California

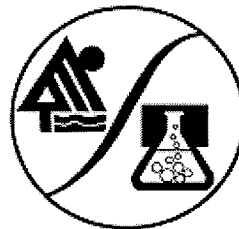
File No. 1081.2

October 2007

Figure 2

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 September 2007
Alfred P. Worcester
Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603
RE: Pleasant Grove

Workorder number:0708147

Enclosed are the results of analyses for samples received by the laboratory on 08/31/07 13:52. 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: Project Number: Project Manager:	Pleasant Grove 1081.2 Alfred P. Worcester	Date Reported: 09/10/07 16:12
--	---	---	----------------------------------

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL-6 0-4	0708147-01	Soil	08/31/07 10:30	08/31/07 13:52
ADL-6 12-18	0708147-02	Soil	08/31/07 10:55	08/31/07 13:52
ADL-1 0-4	0708147-03	Soil	08/31/07 11:05	08/31/07 13:52
ADL-1 10-12	0708147-04	Soil	08/31/07 11:10	08/31/07 13:52
ADL-2 0-4	0708147-05	Soil	08/31/07 12:30	08/31/07 13:52
ADL-2 12-18	0708147-06	Soil	08/31/07 12:30	08/31/07 13:52
ADL-3 0-4	0708147-07	Soil	08/31/07 11:15	08/31/07 13:52
ADL-3 10-12	0708147-08	Soil	08/31/07 11:20	08/31/07 13:52
ADL-4 04	0708147-09	Soil	08/31/07 11:52	08/31/07 13:52
ADL-4 8-10	0708147-10	Soil	08/31/07 11:59	08/31/07 13:52
ADL-5 0-4	0708147-11	Soil	08/31/07 12:05	08/31/07 13:52
ADL-5 12-18	0708147-12	Soil	08/31/07 12:18	08/31/07 13:52
ADL-7 0-4	0708147-13	Soil	08/31/07 12:50	08/31/07 13:52

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:	Pleasant Grove 1081.2 Alfred P. Worcester	Date Reported: 09/10/07 16:12
--	---	---	----------------------------------

ADL-6 0-4
0708147-01 (Soil)

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

METALS BY 6000/7000 SERIES

Lead	4.1	1.0	mg/kg	AQI0055	09/08/07	09/10/07	EPA 6010B	
------	-----	-----	-------	---------	----------	----------	-----------	--

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Pleasant Grove
Project Number: 1081.2
Project Manager: Alfred P. Worcester

Date Reported:
09/10/07 16:12

ADL-6 12-18
0708147-02 (Soil)

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

METALS BY 6000/7000 SERIES

Lead	4.5	1.0	mg/kg	AQI0055	09/08/07	09/10/07	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:	Pleasant Grove 1081.2 Alfred P. Worcester	Date Reported: 09/10/07 16:12
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ADL-1 0-4
0708147-03 (Soil)

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

METALS BY 6000/7000 SERIES

Lead	3.2	1.0	mg/kg	AQ10055	09/08/07	09/10/07	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:	Pleasant Grove 1081.2 Alfred P. Worcester	Date Reported: 09/10/07 16:12
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ADL-1 10-12
0708147-04 (Soil)

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

METALS BY 6000/7000 SERIES

Lead	3.2	1.0	mg/kg	AQ10055	09/08/07	09/10/07	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:	Pleasant Grove 1081.2 Alfred P. Worcester	Date Reported: 09/10/07 16:12
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ADL-2 0-4
0708147-05 (Soil)

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

METALS BY 6000/7000 SERIES

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Lead	4.4	1.0	mg/kg	AQI0055	09/08/07	09/10/07	EPA 6010B	

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Pleasant Grove
Project Number: 1081.2
Project Manager: Alfred P. Worcester

Date Reported:
09/10/07 16:12

ADL-2 12-18
0708147-06 (Soil)

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

METALS BY 6000/7000 SERIES

Lead	5.0	1.0	mg/kg	AQI0055	09/08/07	09/10/07	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: Project Number: Project Manager:	Pleasant Grove 1081.2 Alfred P. Worcester	Date Reported: 09/10/07 16:12
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ADL-3 0-4
0708147-07 (Soil)

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

METALS BY 6000/7000 SERIES

Lead	3.7	1.0	mg/kg	AQ10055	09/08/07	09/10/07	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: Project Number: Project Manager:	Pleasant Grove 1081.2 Alfred P. Worcester	Date Reported: 09/10/07 16:12
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ADL-3 10-12
0708147-08 (Soil)

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

METALS BY 6000/7000 SERIES

Lead	3.1	1.0	mg/kg	AQ10055	09/08/07	09/10/07	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: Project Number: Project Manager:	Pleasant Grove 1081.2 Alfred P. Worcester	Date Reported: 09/10/07 16:12
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ADL-4 04
0708147-09 (Soil)

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

METALS BY 6000/7000 SERIES

Lead	4.6	1.0	mg/kg	AQ10055	09/08/07	09/10/07	EPA 6010B	
------	-----	-----	-------	---------	----------	----------	-----------	--

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Blackburn
11521 Blocker Dr, Suite 110
Auburn, CA 95603

Project: Pleasant Grove
Project Number: 1081.2
Project Manager: Alfred P. Worcester

Date Reported:
09/10/07 16:12

ADL-4 8-10
0708147-10 (Soil)

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

METALS BY 6000/7000 SERIES

Lead	4.0	1.0	mg/kg	AQ10055	09/08/07	09/10/07	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:	Pleasant Grove 1081.2 Alfred P. Worcester	Date Reported: 09/10/07 16:12
--	---	---	----------------------------------

ADL-5 0-4
0708147-11 (Soil)

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

METALS BY 6000/7000 SERIES

Lead	3.0	1.0	mg/kg	AQ10055	09/08/07	09/10/07	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:	Pleasant Grove 1081.2 Alfred P. Worcester	Date Reported: 09/10/07 16:12
--	---	---	----------------------------------

ADL-5 12-18
0708147-12 (Soil)

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

METALS BY 6000/7000 SERIES

Lead	4.1	1.0	mg/kg	AQI0055	09/08/07	09/10/07	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:	Pleasant Grove 1081.2 Alfred P. Worcester	Date Reported: 09/10/07 16:12
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ADL-7 0-4
0708147-13 (Soil)

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

METALS BY 6000/7000 SERIES

Lead	8.0	1.0	mg/kg	AQ10055	09/08/07	09/10/07	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: Project Number: Project Manager:	Pleasant Grove 1081.2 Alfred P. Worcester	Date Reported: 09/10/07 16:12
--	---	---	----------------------------------

METALS BY 6000/7000 SERIES - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AQI0055 - EPA 6010B										
Blank (AQI0055-BLK1)										
										Prepared: 09/08/07 Analyzed: 09/10/07
Lead	ND	1.0	mg/kg							
LCS (AQI0055-BS1)										
										Prepared: 09/08/07 Analyzed: 09/10/07
Lead	97.6	1.0	mg/kg	100		97.6	75-125			
LCS Dup (AQI0055-BSD1)										
										Prepared: 09/08/07 Analyzed: 09/10/07
Lead	98.6	1.0	mg/kg	100		98.6	75-125	1.02	25	
Matrix Spike (AQI0055-MS1)										
										Source: 0708147-01 Prepared: 09/08/07 Analyzed: 09/10/07
Lead	98.4	1.0	mg/kg	100	4.1	94.3	75-125			
Matrix Spike Dup (AQI0055-MSD1)										
										Source: 0708147-01 Prepared: 09/08/07 Analyzed: 09/10/07
Lead	99.6	1.0	mg/kg	100	4.1	95.5	75-125	1.21	25	

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: Project Number: Project Manager:	Pleasant Grove 1081.2 Alfred P. Worcester	Date Reported: 09/10/07 16:12
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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: Pleasant Grove
Project Number: 1081.2
Project Manager: Alfred P. Worcester

Date Reported:
09/10/07 16:12

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST		
1155 W. Street Blvd. Box 4 Rock Hill, Ga. 30766 P: 706-943-4448 F: 706-943-4459 Project Manager: <i>Alfred Worcester</i> Company: <i>Excelchem Environmental Labs</i> Project Number: <i>1081.2 Pleasant Grove</i> Project Location: <i>SR15 PG I.C. Hillside</i>		Email Address: Page <i>2</i> of <i>2</i>
ANALYSIS REQUEST		
Project Name: <i>1081.2 Pleasant Grove</i> Sample ID: <i>SR15 PG I.C. Hillside</i>	Container: <i>1081.2 Pleasant Grove</i> Method of Preservation: <i>As Collected</i>	Requestor: <i>Excelchem</i> Date: <i>9/10/07</i> Time: <i>08:47</i>
Sample ID Date Time	Container Method of Preservation	Analysis Requested: VOCs (GC/MS) SVOCs (GC/MS) PCBs (GC/MS) PAHs (GC/MS) Metals (ICP-MS) Nitrate (Colorimetric) Nitrite (Colorimetric) Ammonia (Colorimetric) Cyanide (Colorimetric) Chloride (Mercurimetric) Sulfide (Mercurimetric) Conductivity (Direct) Temperature (Direct)
Received by Laboratory: <i>Alfred Worcester</i> Date: <i>9/10/07</i> Time: <i>13:52</i> Received by: <i>Alfred Worcester</i> Date: <i>9/10/07</i> Time: <i>13:52</i>		

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: Pleasant Grove
Project Number: 1081.2
Project Manager: Alfred P. Worcester

Date Reported:
09/10/07 16:12

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST		Email Address	
<p>Excelchem Environmental Labs 11521 Blocker Dr, Suite 110 Auburn, CA 95603 Tel: 916.645.4445 Fax: 916.645.4449</p> <p>Project Manager: <u>Alfred Worcester</u> Phone #: <u>530 887 1194</u></p> <p>Company Address: <u>Blackburn Company</u> Project Name: <u>1081.2</u> Project Location: <u>Thousand Oaks</u></p>		<p>Electronic Data Deliverables Request: <u>Yes</u></p> <p>Project Name: <u>1081.2</u> Project Location: <u>Thousand Oaks</u> Project Manager: <u>Alfred Worcester</u> Phone #: <u>530 887 1194</u></p>	
ANALYSIS REQUEST			
<p>Sample ID: <u>AD-704-0017-10</u></p>	<p>Sampling Date/Time: <u>9/10/07 13:52</u></p>	<p>Container: <u>GLASS</u></p>	<p>Method of Preservation: <u>None</u></p>
	<p>Matrix: <u>Water</u></p>	<p>Container Number: <u>1081.2</u></p>	<p>Batch or Duplicate: <u>1081.2</u></p>
<p>Requested by: <u>Alfred Worcester</u> Received by: <u>Alfred Worcester</u></p> <p>Relinquished by: <u>Alfred Worcester</u> Received by Laboratory: <u>Alfred Worcester</u></p> <p>Date: <u>9/10/07 13:52</u> Date: <u>9/10/07 13:52</u></p>			
<p>Remarks/Conditions of Sample:</p>			
<p>Page 2 of 2</p>			

APPENDIX C

SunStar Laboratories Analytical Results and Chain-of-Custody





SunStar Laboratories, Inc.

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

08 August 2014

Laura Long
Blackburn Consulting
11521 Blocker Dr #110
Auburn, CA 95603
RE: SR65 Capacity

Enclosed are the results of analyses for samples received by the laboratory on 08/01/14 08:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez
Project Manager

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

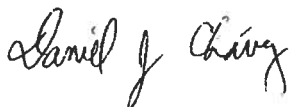
Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S49-2	T141513-01	Soil	07/29/14 09:45	08/01/14 08:40
S49-15	T141513-02	Soil	07/29/14 09:45	08/01/14 08:40
S48-2	T141513-03	Soil	07/29/14 10:20	08/01/14 08:40
S48-15	T141513-04	Soil	07/29/14 10:20	08/01/14 08:40
S46-2	T141513-05	Soil	07/29/14 10:50	08/01/14 08:40
S46-15	T141513-06	Soil	07/29/14 10:50	08/01/14 08:40
S44-2	T141513-07	Soil	07/29/14 10:30	08/01/14 08:40
S41-2	T141513-08	Soil	07/29/14 12:30	08/01/14 08:40
S41-15	T141513-09	Soil	07/29/14 12:30	08/01/14 08:40
S50-2	T141513-10	Soil	07/29/14 13:30	08/01/14 08:40
S47-2	T141513-11	Soil	07/29/14 13:47	08/01/14 08:40
S2-2	T141513-12	Soil	07/29/14 14:15	08/01/14 08:40
S42-2	T141513-13	Soil	07/29/14 10:45	08/01/14 08:40
S42-15	T141513-14	Soil	07/29/14 10:45	08/01/14 08:40
S39-2	T141513-15	Soil	07/29/14 08:50	08/01/14 08:40
S39-15	T141513-16	Soil	07/29/14 08:50	08/01/14 08:40
S37-2	T141513-17	Soil	07/29/14 09:30	08/01/14 08:40
S37-15	T141513-18	Soil	07/29/14 09:30	08/01/14 08:40
S36-2	T141513-19	Soil	07/29/14 09:45	08/01/14 08:40
S36-15	T141513-20	Soil	07/29/14 09:45	08/01/14 08:40
S34-2	T141513-21	Soil	07/29/14 10:30	08/01/14 08:40
S34-15	T141513-22	Soil	07/29/14 10:30	08/01/14 08:40
S32-2	T141513-23	Soil	07/29/14 10:45	08/01/14 08:40
S32-15	T141513-24	Soil	07/29/14 10:45	08/01/14 08:40
S31-2	T141513-25	Soil	07/29/14 11:15	08/01/14 08:40
S31-15	T141513-26	Soil	07/29/14 11:15	08/01/14 08:40

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S29-2	T141513-27	Soil	07/29/14 11:45	08/01/14 08:40
S29-15	T141513-28	Soil	07/29/14 11:45	08/01/14 08:40
S27-2	T141513-29	Soil	07/29/14 12:15	08/01/14 08:40
S27-15	T141513-30	Soil	07/29/14 12:15	08/01/14 08:40
S25-2	T141513-31	Soil	07/29/14 12:45	08/01/14 08:40
S25-15	T141513-32	Soil	07/29/14 12:45	08/01/14 08:40
S23-2	T141513-33	Soil	07/29/14 13:15	08/01/14 08:40
S23-15	T141513-34	Soil	07/29/14 13:15	08/01/14 08:40
S22-2	T141513-35	Soil	07/29/14 13:45	08/01/14 08:40
S22-15	T141513-36	Soil	07/29/14 13:45	08/01/14 08:40

DETECTIONS SUMMARY

Sample ID: S49-2

Laboratory ID: T141513-01

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	4.8	3.0		mg/kg	EPA 6010B	

Sample ID: S49-15

Laboratory ID: T141513-02

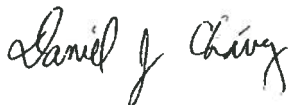
No Results Detected

Sample ID: S48-2

Laboratory ID: T141513-03

No Results Detected

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

Sample ID: S48-15

Laboratory ID: T141513-04

No Results Detected

Sample ID: S46-2

Laboratory ID: T141513-05

No Results Detected

Sample ID: S46-15

Laboratory ID: T141513-06

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	5.3	3.0		mg/kg	EPA 6010B	

Sample ID: S44-2

Laboratory ID: T141513-07

No Results Detected

Sample ID: S41-2

Laboratory ID: T141513-08

No Results Detected

Sample ID: S41-15

Laboratory ID: T141513-09

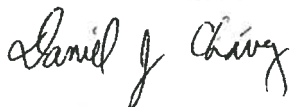
Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	4.0	3.0		mg/kg	EPA 6010B	

Sample ID: S50-2

Laboratory ID: T141513-10

No Results Detected

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

Sample ID: S47-2

Laboratory ID: T141513-11

No Results Detected

Sample ID: S2-2

Laboratory ID: T141513-12

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	7.8	3.0		mg/kg	EPA 6010B	
pH	6.4	0.1		pH Units	EPA 9045B	

Sample ID: S42-2

Laboratory ID: T141513-13

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	67	3.0		mg/kg	EPA 6010B	

Sample ID: S42-15

Laboratory ID: T141513-14

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	16	3.0		mg/kg	EPA 6010B	

Sample ID: S39-2

Laboratory ID: T141513-15

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	160	3.0		mg/kg	EPA 6010B	

Sample ID: S39-15

Laboratory ID: T141513-16

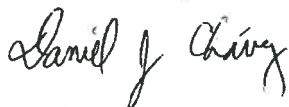
Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	100	3.0		mg/kg	EPA 6010B	

Sample ID: S37-2

Laboratory ID: T141513-17

Analyte	Result	Reporting		Units	Method	Notes
		Limit				

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

Sample ID: S37-2

Laboratory ID: T141513-17

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	49	3.0		mg/kg	EPA 6010B	

Sample ID: S37-15

Laboratory ID: T141513-18

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	19	3.0		mg/kg	EPA 6010B	

Sample ID: S36-2

Laboratory ID: T141513-19

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	44	3.0		mg/kg	EPA 6010B	
pH	6.3	0.1		pH Units	EPA 9045B	

Sample ID: S36-15

Laboratory ID: T141513-20

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	3.2	3.0		mg/kg	EPA 6010B	

Sample ID: S34-2

Laboratory ID: T141513-21

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	85	3.0		mg/kg	EPA 6010B	

Sample ID: S34-15

Laboratory ID: T141513-22

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	110	3.0		mg/kg	EPA 6010B	

Sample ID: S32-2

Laboratory ID: T141513-23

Analyte	Result	Reporting		Units	Method	Notes
		Limit				

SunStar Laboratories, Inc.



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Daniel Chavez, Project Manager

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

Sample ID: S32-2

Laboratory ID: T141513-23

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	140	3.0		mg/kg	EPA 6010B	

Sample ID: S32-15

Laboratory ID: T141513-24

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	20	3.0		mg/kg	EPA 6010B	

Sample ID: S31-2

Laboratory ID: T141513-25

No Results Detected

Sample ID: S31-15

Laboratory ID: T141513-26

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	3.4	3.0		mg/kg	EPA 6010B	

Sample ID: S29-2

Laboratory ID: T141513-27

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	4.4	3.0		mg/kg	EPA 6010B	

Sample ID: S29-15

Laboratory ID: T141513-28

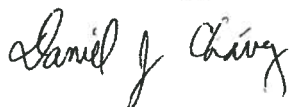
No Results Detected

Sample ID: S27-2

Laboratory ID: T141513-29

No Results Detected

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

Sample ID: S27-15

Laboratory ID: T141513-30

No Results Detected

Sample ID: S25-2

Laboratory ID: T141513-31

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
pH	6.7	0.1		pH Units	EPA 9045B	

Sample ID: S25-15

Laboratory ID: T141513-32

No Results Detected

Sample ID: S23-2

Laboratory ID: T141513-33

No Results Detected

Sample ID: S23-15

Laboratory ID: T141513-34

No Results Detected

Sample ID: S22-2

Laboratory ID: T141513-35

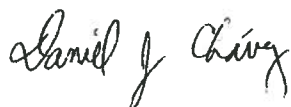
Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	39	3.0		mg/kg	EPA 6010B	

Sample ID: S22-15

Laboratory ID: T141513-36

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	44	3.0		mg/kg	EPA 6010B	

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

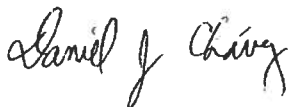
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

S49-2
T141513-01 (Soil)

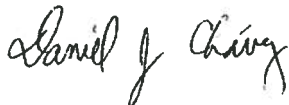
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	4.8	3.0	mg/kg	1	4080135	08/01/14	08/05/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

S49-15
T141513-02 (Soil)

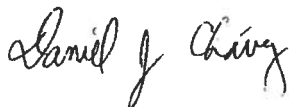
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	4080135	08/01/14	08/05/14	EPA 6010B	
------	----	-----	-------	---	---------	----------	----------	-----------	--

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

S48-2
T141513-03 (Soil)

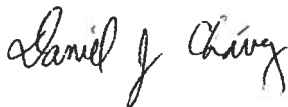
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	4080135	08/01/14	08/05/14	EPA 6010B	
------	----	-----	-------	---	---------	----------	----------	-----------	--

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

S48-15
T141513-04 (Soil)

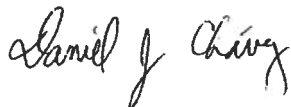
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	4080135	08/01/14	08/05/14	EPA 6010B	
------	----	-----	-------	---	---------	----------	----------	-----------	--

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

S46-2
T141513-05 (Soil)

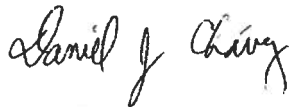
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	4080135	08/01/14	08/05/14	EPA 6010B	
------	----	-----	-------	---	---------	----------	----------	-----------	--

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

S46-15
T141513-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	5.3	3.0	mg/kg	1	4080135	08/01/14	08/05/14	EPA 6010B	
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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.

Daniel Chavez, Project Manager

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

S44-2
T141513-07 (Soil)

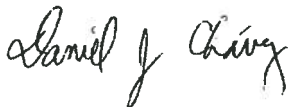
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	4080135	08/01/14	08/05/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

**S41-2
T141513-08 (Soil)**

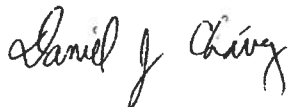
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	4080135	08/01/14	08/05/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

S41-15
T141513-09 (Soil)

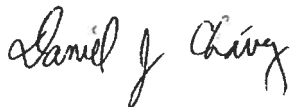
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	4.0	3.0	mg/kg	1	4080135	08/01/14	08/05/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

S50-2
T141513-10 (Soil)

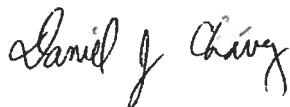
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	4080135	08/01/14	08/05/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
 11521 Blocker Dr #110
 Auburn CA, 95603

Project: SR65 Capacity
 Project Number: 2602.2
 Project Manager: Laura Long

Reported:
 08/08/14 15:47

S47-2
T141513-11 (Soil)

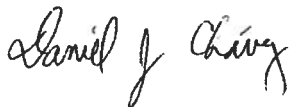
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	4080135	08/01/14	08/05/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

**S2-2
T141513-12 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	7.8	3.0	mg/kg	1	4080135	08/01/14	08/05/14	EPA 6010B	
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Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

pH	6.4	0.1	pH Units	1	4080127	08/01/14	08/01/14	EPA 9045B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting
 11521 Blocker Dr #110
 Auburn CA, 95603

Project: SR65 Capacity
 Project Number: 2602.2
 Project Manager: Laura Long

Reported:
 08/08/14 15:47

S42-2
T141513-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	67	3.0	mg/kg	1	4080135	08/01/14	08/05/14	EPA 6010B	
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SunStar Laboratories, Inc.

Daniel J. Chavez

Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

S42-15
T141513-14 (Soil)

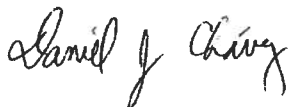
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	16	3.0	mg/kg	1	4080135	08/01/14	08/05/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

S39-2
T141513-15 (Soil)

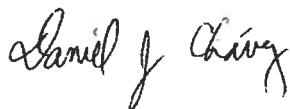
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	160	3.0	mg/kg	1	4080135	08/01/14	08/05/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

S39-15
T141513-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	100	3.0	mg/kg	1	4080135	08/01/14	08/05/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

S37-2
T141513-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	49	3.0	mg/kg	1	4080135	08/01/14	08/05/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602.2 Project Manager: Laura Long	Reported: 08/08/14 15:47
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S37-15
T141513-18 (Soil)

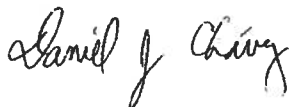
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	19	3.0	mg/kg	1	4080135	08/01/14	08/05/14	EPA 6010B	

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

**S36-2
T141513-19 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

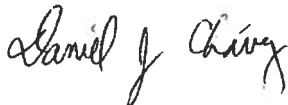
Metals by EPA 6010B

Lead	44	3.0	mg/kg	1	4080135	08/01/14	08/05/14	EPA 6010B	
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Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

pH	6.3	0.1	pH Units	1	4080127	08/01/14	08/01/14	EPA 9045B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

S36-15
T141513-20 (Soil)

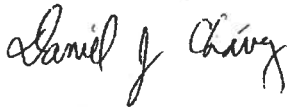
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	3.2	3.0	mg/kg	1	4080135	08/01/14	08/05/14	EPA 6010B	
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SunStar Laboratories, Inc.



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Daniel Chavez, Project Manager

Blackburn Consulting
 11521 Blocker Dr #110
 Auburn CA, 95603

Project: SR65 Capacity
 Project Number: 2602.2
 Project Manager: Laura Long

Reported:
 08/08/14 15:47

S34-2
T141513-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	85	3.0	mg/kg	1	4080136	08/01/14	08/05/14	EPA 6010B	
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SunStar Laboratories, Inc.

Daniel J. Chavez

Daniel Chavez, Project Manager

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.

Blackburn Consulting
 11521 Blocker Dr #110
 Auburn CA, 95603

Project: SR65 Capacity
 Project Number: 2602.2
 Project Manager: Laura Long

Reported:
 08/08/14 15:47

S34-15
T141513-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	110	3.0	mg/kg	1	4080136	08/01/14	08/05/14	EPA 6010B	
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SunStar Laboratories, Inc.

Daniel J. Chavez

Daniel Chavez, Project Manager

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.

Blackburn Consulting
 11521 Blocker Dr #110
 Auburn CA, 95603

Project: SR65 Capacity
 Project Number: 2602.2
 Project Manager: Laura Long

Reported:
 08/08/14 15:47

S32-2
T141513-23 (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	140	3.0	mg/kg	1	4080136	08/01/14	08/05/14	EPA 6010B	

SunStar Laboratories, Inc.

Daniel J. Chavez

Daniel Chavez, Project Manager

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.

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602.2 Project Manager: Laura Long	Reported: 08/08/14 15:47
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S32-15

T141513-24 (Soil)

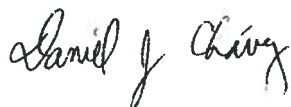
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	20	3.0	mg/kg	1	4080136	08/01/14	08/05/14	EPA 6010B	

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

S31-2
T141513-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	4080136	08/01/14	08/05/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

S31-15
T141513-26 (Soil)

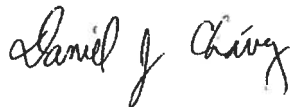
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	3.4	3.0	mg/kg	1	4080136	08/01/14	08/05/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

S29-2
T141513-27 (Soil)

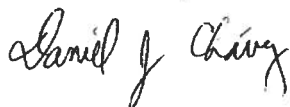
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	4.4	3.0	mg/kg	1	4080136	08/01/14	08/05/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

**S29-15
T141513-28 (Soil)**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	4080136	08/01/14	08/05/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

S27-2
T141513-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	4080136	08/01/14	08/05/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602.2 Project Manager: Laura Long	Reported: 08/08/14 15:47
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S27-15
T141513-30 (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	4080136	08/01/14	08/05/14	EPA 6010B	

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

S25-2
T141513-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	4080136	08/01/14	08/05/14	EPA 6010B	
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Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

pH	6.7	0.1	pH Units	1	4080127	08/01/14	08/01/14	EPA 9045B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

**S25-15
T141513-32 (Soil)**

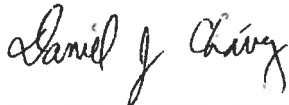
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	4080136	08/01/14	08/05/14	EPA 6010B	
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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.

Daniel Chavez, Project Manager

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

**S23-2
T141513-33 (Soil)**

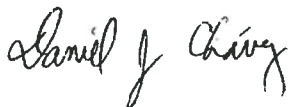
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	4080136	08/01/14	08/05/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

S23-15
T141513-34 (Soil)

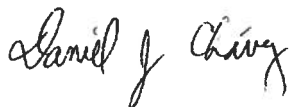
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	4080136	08/01/14	08/05/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

**S22-2
T141513-35 (Soil)**

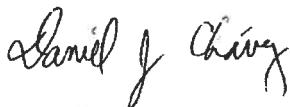
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	39	3.0	mg/kg	1	4080136	08/01/14	08/05/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

S22-15
T141513-36 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	44	3.0	mg/kg	1	4080136	08/01/14	08/05/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

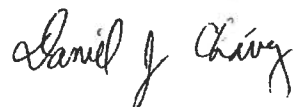
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602.2 Project Manager: Laura Long	Reported: 08/08/14 15:47
---	---	-----------------------------

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
Batch 4080135 - EPA 3051										
Blank (4080135-BLK1) Prepared: 08/01/14 Analyzed: 08/05/14										
Lead	ND	3.0	mg/kg							
LCS (4080135-BS1) Prepared: 08/01/14 Analyzed: 08/05/14										
Lead	108	3.0	mg/kg	100		108	75-125			
Matrix Spike (4080135-MS1) Source: T141513-01 Prepared: 08/01/14 Analyzed: 08/05/14										
Lead	107	3.0	mg/kg	100	4.79	102	75-125			
Matrix Spike Dup (4080135-MSD1) Source: T141513-01 Prepared: 08/01/14 Analyzed: 08/05/14										
Lead	107	3.0	mg/kg	100	4.79	102	75-125	0.139	20	
Batch 4080136 - EPA 3051										
Blank (4080136-BLK1) Prepared: 08/01/14 Analyzed: 08/05/14										
Lead	ND	3.0	mg/kg							
LCS (4080136-BS1) Prepared: 08/01/14 Analyzed: 08/05/14										
Lead	124	3.0	mg/kg	100		124	75-125			
Matrix Spike (4080136-MS1) Source: T141513-21 Prepared: 08/01/14 Analyzed: 08/05/14										
Lead	250	3.0	mg/kg	100	85.4	165	75-125			QM-07
Matrix Spike Dup (4080136-MSD1) Source: T141513-21 Prepared: 08/01/14 Analyzed: 08/05/14										
Lead	182	3.0	mg/kg	100	85.4	97.1	75-125	31.3	20	QM-07

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

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 4080127 - General Preparation

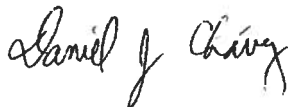
Duplicate (4080127-DUP1)

Source: T141513-12

Prepared & Analyzed: 08/01/14

pH	6.47	0.1	pH Units		6.36			1.71	20	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/08/14 15:47

Notes and Definitions

QM-07 The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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.



Daniel Chavez, Project Manager

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.

Chain of Custody Record

SunStar Laboratories, Inc.
 25712 Commercentre Dr
 Lake Forest, CA 92630
 949-297-5020

Client: Blackburn Consulting
 Address: 2491 Boatman Ave
 Phone: 530-219-4891 Fax: 916-296-2447
 Project Manager: Laura Long

Date: 7/29
 Project Name: SRIS Capacity
 Collector: Dylan Fawcett
 Batch #: 7/15/13
 Client Project #: 2602.2
 EDF #: _____

Page 1 of 3

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	Lead	PH	Laboratory ID #	Comments/Preservative	Total # of containers					
S49-2	7/29	9:45a	Soil	Glass																			
S49-15	7/29	9:45a	Soil	Glass																			
S48-2		9:45a																					
S48-15		10:20a																					
S46-2		10:20a																					
S46-15		10:50a																					
S44-2		10:30																					
S41-2		12:30																					
S41-15		12:30																					
S60-2		1:30																					
S47-2		1:47																					
S2-2		2:15																					
S42-2		10:45																					
S42-15		10:45																					
Relinquished by: (signature) <u>[Signature]</u>			Date / Time <u>7/30/13</u>			Received by: (signature) <u>[Signature]</u>			Date / Time <u>7/30/13</u>			Total # of containers <u>14</u>			Chain of Custody seals Y/N/NA <u>Y</u>			Seals intact? Y/N/NA <u>Y</u>			Received good condition/cold <u>Y</u>		
Relinquished by: (signature) <u>[Signature]</u>			Date / Time <u>7/31/14</u>			Received by: (signature) <u>[Signature]</u>			Date / Time <u>7/31/14</u>			Turn around time: <u>5:40</u>			Sample disposal instructions: <u>Disposal @ \$2.00 each</u>			Return to client <u>8:14</u>			Pickup <u>7:40</u>		

SIDNOTES AT

Chain of Custody Record

SunStar Laboratories, Inc.
 25712 Commercentre Dr
 Lake Forest, CA 92630
 949-297-5020

Client: Blackburn Consulting
 Address: 2491 Boatman Ave
 Phone: 530-219-4489 Fax: 916-296-2442
 Project Manager: Laura Long

Date: 7/30 Page: 2 of 3
 Project Name: SR65 Capacity
 Collector: Dylan Faver Client Project #: 2602.2
 Batch #: 714513 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	Lead	pH	Laboratory ID #	Comments/Preservative	Total # of containers		
S39-2	7/30	8:50	Soil	Glass												15				
S39-15		8:50														16				
S39-2		9:30														17				
S39-15		9:30														18				
S36-2		9:45														19				
S36-15		9:45														20				
S39-2		10:30														21				
S39-15		10:30														22				
S32-2		10:45														23				
S32-15		10:45														24				
S31-2		11:15														25				
S31-15		11:15														26				
S29-2		11:45														27				
S29-15		11:45														28				
Relinquished by: (signature) <u>[Signature]</u> Date / Time <u>7/31/14 12:45</u>			Received by: (signature) <u>[Signature]</u> Date / Time <u>7/31/14 12:45</u>			Total # of containers <u>14</u>			Chain of Custody seals: <u>ON/NA</u>			Seals Intact: <u>Y/N/NA</u>			Received good condition/cold			Notes: STD. TAT		
Relinquished by: (signature) <u>[Signature]</u> Date / Time <u>8:14 8:40</u>			Received by: (signature) <u>[Signature]</u> Date / Time <u>8:14 8:40</u>			Turn around time: <u>STND</u>														

Sample disposal instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

Chain of Custody Record

SunStar Laboratories, Inc.
 25712 Commercentre Dr
 Lake Forest, CA 92630
 949-297-5020

Client: Blackburn Consulting
 Address: _____
 Phone: _____ Fax: _____
 Project Manager: _____

Date: 7/30 Page: 3 of 3
 Project Name: SR65 Capacity
 Collector: Dylan Farmer Client Project #: 26022
 Batch #: 7/15/15 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	Lead	pH	Laboratory ID #	Comments/Preservative	Total # of containers
S27-2	7/30	12:15	Soil	Glass										X	X	29		
S27-15		12:15														30		
S25-2		12:15														31		
S25-15		12:15														32		
S23-2		1:15														33		
S23-15		1:15														34		
S22-2		1:45														35		
S22-15		1:45														36		
Relinquished by: (signature) _____ Date / Time <u>7/31/14 12:50</u> Received by: (signature) _____ Date / Time <u>7/31/14 12:45</u> Relinquished by: (signature) _____ Date / Time _____ Received by: (signature) _____ Date / Time _____ Relinquished by: (signature) _____ Date / Time _____ Received by: (signature) _____ Date / Time _____																		

Sample disposal instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

Turn around time: STND
 Total # of containers: 36
 Chain of Custody seals: NNNA
 Seals Intact: NNNA
 Received good condition/cold: 1.0
 Notes: **STD. TAT**

SAMPLE RECEIVING REVIEW SHEET

BATCH # 7/4/13

Client Name: BLAIRSBURN CON.

Project: SR65 CAPACITY

Received by: SWAN

Date/Time Received: 8/1/14 8:40

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 1.2 °C +/- the CF (- 0.2°C) = 1.0 °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 SL 8/1/14

Comments:



SunStar Laboratories, Inc.

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

15 August 2014

Laura Long
Blackburn Consulting
11521 Blocker Dr #110
Auburn, CA 95603
RE: SR65 Capacity

Enclosed are the results of analyses for samples received by the laboratory on 08/08/14 08:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez
Project Manager

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S43-2	T141580-01	Soil	08/07/14 09:50	08/08/14 08:50
S33-2	T141580-02	Soil	08/04/14 13:55	08/08/14 08:50
S30-2	T141580-03	Soil	08/04/14 13:45	08/08/14 08:50
S38-2	T141580-04	Soil	08/04/14 14:30	08/08/14 08:50
S35-2	T141580-05	Soil	08/04/14 14:00	08/08/14 08:50
S28-2	T141580-06	Soil	08/04/14 13:10	08/08/14 08:50
S26-2	T141580-07	Soil	08/04/14 13:00	08/08/14 08:50
S21-2	T141580-08	Soil	08/04/14 12:30	08/08/14 08:50
S14-2	T141580-09	Soil	08/04/14 09:55	08/08/14 08:50
S16-2	T141580-10	Soil	08/04/14 10:05	08/08/14 08:50
S19-2	T141580-11	Soil	08/04/14 10:15	08/08/14 08:50
S4-2	T141580-12	Soil	08/04/14 09:00	08/08/14 08:50
S8-2	T141580-13	Soil	08/04/14 09:15	08/08/14 08:50
S10-2	T141580-14	Soil	08/04/14 09:30	08/08/14 08:50
S13-2	T141580-15	Soil	08/04/14 09:40	08/08/14 08:50
S5-2	T141580-16	Soil	08/07/14 09:40	08/08/14 08:50
S3-2	T141580-17	Soil	08/07/14 12:50	08/08/14 08:50
S24-2	T141580-18	Soil	08/07/14 13:40	08/08/14 08:50
S1-2	T141580-19	Soil	08/07/14 12:55	08/08/14 08:50
S7-2	T141580-20	Soil	08/07/14 11:50	08/08/14 08:50
S6-2	T141580-21	Soil	08/07/14 12:30	08/08/14 08:50
S15-2	T141580-22	Soil	08/07/14 11:15	08/08/14 08:50
S12-2	T141580-23	Soil	08/07/14 11:20	08/08/14 08:50
S9-2	T141580-24	Soil	08/07/14 11:30	08/08/14 08:50
S11-2	T141580-25	Soil	08/07/14 11:20	08/08/14 08:50
S17-2	T141580-26	Soil	08/07/14 11:10	08/08/14 08:50

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602
Project Manager: Laura Long

Reported:
08/15/14 12:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S45-2	T141580-27	Soil	08/07/14 10:10	08/08/14 08:50
S20-2	T141580-28	Soil	08/07/14 10:05	08/08/14 08:50
S18-2	T141580-29	Soil	08/07/14 10:36	08/08/14 08:50
S40-2	T141580-30	Soil	08/07/14 09:30	08/08/14 08:50

DETECTIONS SUMMARY

Sample ID: S43-2

Laboratory ID: T141580-01

No Results Detected

Sample ID: S33-2

Laboratory ID: T141580-02

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	5.6	3.0		mg/kg	EPA 6010B	

Sample ID: S30-2

Laboratory ID: T141580-03

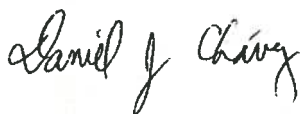
Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	4.4	3.0		mg/kg	EPA 6010B	
pH	6.7	0.1		pH Units	EPA 9045B	

Sample ID: S38-2

Laboratory ID: T141580-04

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	14	3.0		mg/kg	EPA 6010B	

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
---	---	-----------------------------

Sample ID: S35-2	Laboratory ID: T141580-05				
Analyte Lead	Result 34	Reporting Limit 3.0	Units mg/kg	Method EPA 6010B	Notes

Sample ID: S28-2	Laboratory ID: T141580-06				
Analyte Lead	Result 12	Reporting Limit 3.0	Units mg/kg	Method EPA 6010B	Notes

Sample ID: S26-2	Laboratory ID: T141580-07		No Results Detected		
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Sample ID: S21-2	Laboratory ID: T141580-08		No Results Detected		
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Sample ID: S14-2	Laboratory ID: T141580-09				
Analyte Lead	Result 4.8	Reporting Limit 3.0	Units mg/kg	Method EPA 6010B	Notes

Sample ID: S16-2	Laboratory ID: T141580-10				
Analyte Lead	Result 5.2	Reporting Limit 3.0	Units mg/kg	Method EPA 6010B	Notes

Sample ID: S19-2	Laboratory ID: T141580-11				
Analyte Lead	Result 9.3	Reporting Limit 3.0	Units mg/kg	Method EPA 6010B	Notes

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602
Project Manager: Laura Long

Reported:
08/15/14 12:12

Sample ID: S4-2

Laboratory ID: T141580-12

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	4.2	3.0		mg/kg	EPA 6010B	

Sample ID: S8-2

Laboratory ID: T141580-13

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	8.6	3.0		mg/kg	EPA 6010B	

Sample ID: S10-2

Laboratory ID: T141580-14

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	5.5	3.0		mg/kg	EPA 6010B	

Sample ID: S13-2

Laboratory ID: T141580-15

No Results Detected

Sample ID: S5-2

Laboratory ID: T141580-16

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	22	3.0		mg/kg	EPA 6010B	

Sample ID: S3-2

Laboratory ID: T141580-17

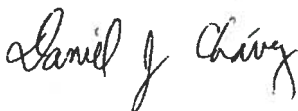
No Results Detected

Sample ID: S24-2

Laboratory ID: T141580-18

No Results Detected

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602
Project Manager: Laura Long

Reported:
08/15/14 12:12

Sample ID: S1-2

Laboratory ID: T141580-19

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	6.5	3.0		mg/kg	EPA 6010B	

Sample ID: S7-2

Laboratory ID: T141580-20

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	6.5	3.0		mg/kg	EPA 6010B	

Sample ID: S6-2

Laboratory ID: T141580-21

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	4.4	3.0		mg/kg	EPA 6010B	

Sample ID: S15-2

Laboratory ID: T141580-22

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	8.5	3.0		mg/kg	EPA 6010B	
pH	6.7	0.1		pH Units	EPA 9045B	

Sample ID: S12-2

Laboratory ID: T141580-23

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	3.8	3.0		mg/kg	EPA 6010B	

Sample ID: S9-2

Laboratory ID: T141580-24

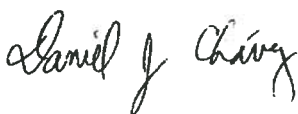
Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	5.8	3.0		mg/kg	EPA 6010B	

Sample ID: S11-2

Laboratory ID: T141580-25

Analyte	Result	Reporting		Units	Method	Notes
		Limit				

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602
Project Manager: Laura Long

Reported:
08/15/14 12:12

Sample ID: S11-2		Laboratory ID: T141580-25			
Analyte	Result	Reporting Limit	Units	Method	Notes
Lead	14	3.0	mg/kg	EPA 6010B	
Sample ID: S17-2		Laboratory ID: T141580-26			
Analyte	Result	Reporting Limit	Units	Method	Notes
Lead	5.0	3.0	mg/kg	EPA 6010B	
Sample ID: S45-2		Laboratory ID: T141580-27			
Analyte	Result	Reporting Limit	Units	Method	Notes
Lead	4.2	3.0	mg/kg	EPA 6010B	
Sample ID: S20-2		Laboratory ID: T141580-28			
Analyte	Result	Reporting Limit	Units	Method	Notes
Lead	19	3.0	mg/kg	EPA 6010B	
Sample ID: S18-2		Laboratory ID: T141580-29			
Analyte	Result	Reporting Limit	Units	Method	Notes
Lead	7.9	3.0	mg/kg	EPA 6010B	
Sample ID: S40-2		Laboratory ID: T141580-30			
Analyte	Result	Reporting Limit	Units	Method	Notes
Lead	13	3.0	mg/kg	EPA 6010B	

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Daniel Chavez, Project Manager

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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
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S43-2
T141580-01 (Soil)

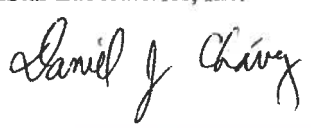
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	4081128	08/11/14	08/12/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
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**S33-2
T141580-02 (Soil)**

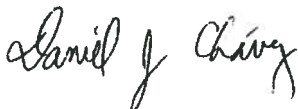
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	5.6	3.0	mg/kg	1	4081128	08/11/14	08/12/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
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**S30-2
T141580-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

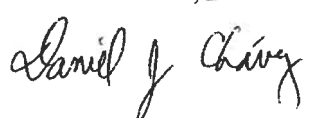
Metals by EPA 6010B

Lead	4.4	3.0	mg/kg	1	4081128	08/11/14	08/12/14	EPA 6010B	
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Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

pH	6.7	0.1	pH Units	1	4081123	08/11/14	08/11/14	EPA 9045B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
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S38-2
T141580-04 (Soil)

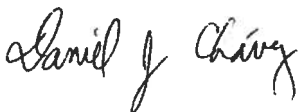
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	14	3.0	mg/kg	1	4081128	08/11/14	08/12/14	EPA 6010B	
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Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602
Project Manager: Laura Long

Reported:
08/15/14 12:12

S35-2
T141580-05 (Soil)

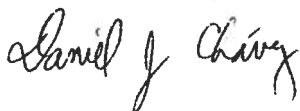
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	34	3.0	mg/kg	1	4081128	08/11/14	08/12/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
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**S28-2
T141580-06 (Soil)**

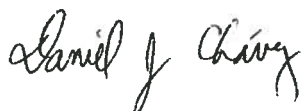
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	12	3.0	mg/kg	1	4081128	08/11/14	08/12/14	EPA 6010B	

SunStar Laboratories, Inc.



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Daniel Chavez, Project Manager

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
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**S26-2
T141580-07 (Soil)**

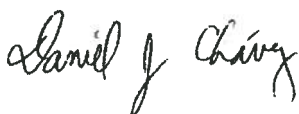
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	ND	3.0	mg/kg	1	4081128	08/11/14	08/12/14	EPA 6010B	

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
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**S21-2
T141580-08 (Soil)**

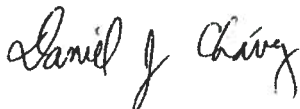
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	4081128	08/11/14	08/12/14	EPA 6010B	
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Daniel Chavez, Project Manager

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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
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**S14-2
T141580-09 (Soil)**

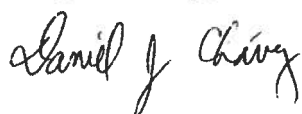
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	4.8	3.0	mg/kg	1	4081128	08/11/14	08/12/14	EPA 6010B	

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
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S16-2
T141580-10 (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	5.2	3.0	mg/kg	1	4081128	08/11/14	08/12/14	EPA 6010B	

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
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S19-2
T141580-11 (Soil)

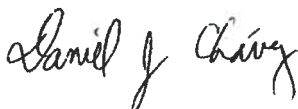
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	9.3	3.0	mg/kg	1	4081128	08/11/14	08/12/14	EPA 6010B	
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Daniel Chavez, Project Manager

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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
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**S4-2
T141580-12 (Soil)**

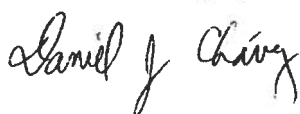
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	4.2	3.0	mg/kg	1	4081128	08/11/14	08/12/14	EPA 6010B	

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602
Project Manager: Laura Long

Reported:
08/15/14 12:12

S8-2
T141580-13 (Soil)

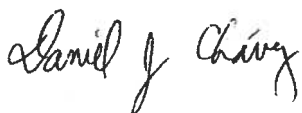
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	8.6	3.0	mg/kg	1	4081128	08/11/14	08/12/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
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**S10-2
T141580-14 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	5.5	3.0	mg/kg	1	4081128	08/11/14	08/12/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
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**S13-2
T141580-15 (Soil)**

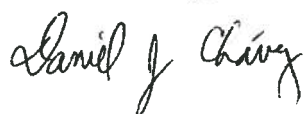
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	ND	3.0	mg/kg	1	4081128	08/11/14	08/12/14	EPA 6010B	

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
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**S5-2
T141580-16 (Soil)**

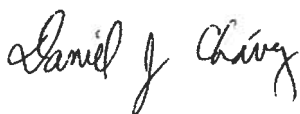
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	22	3.0	mg/kg	1	4081128	08/11/14	08/12/14	EPA 6010B	

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602
Project Manager: Laura Long

Reported:
08/15/14 12:12

S3-2
T141580-17 (Soil)

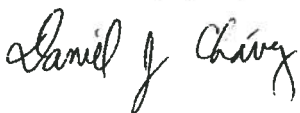
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	4081128	08/11/14	08/12/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
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S24-2
T141580-18 (Soil)

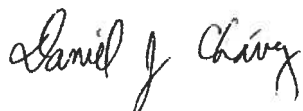
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	4081128	08/11/14	08/12/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
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**S1-2
T141580-19 (Soil)**

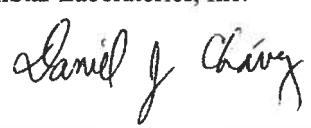
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	6.5	3.0	mg/kg	1	4081128	08/11/14	08/14/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
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**S7-2
T141580-20 (Soil)**

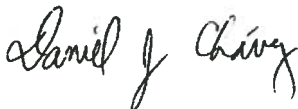
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	6.5	3.0	mg/kg	1	4081128	08/11/14	08/14/14	EPA 6010B	

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602
Project Manager: Laura Long

Reported:
08/15/14 12:12

S6-2

T141580-21 (Soil)

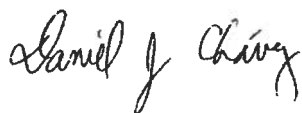
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	4.4	3.0	mg/kg	1	4081129	08/11/14	08/12/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602
Project Manager: Laura Long

Reported:
08/15/14 12:12

S15-2
T141580-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

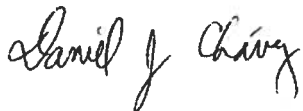
Metals by EPA 6010B

Lead	8.5	3.0	mg/kg	1	4081129	08/11/14	08/12/14	EPA 6010B	
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Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

pH	6.7	0.1	pH Units	1	4081123	08/11/14	08/11/14	EPA 9045B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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.

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
---	---	-----------------------------

S12-2
T141580-23 (Soil)

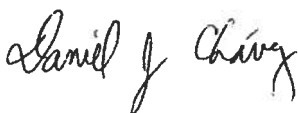
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	3.8	3.0	mg/kg	1	4081129	08/11/14	08/12/14	EPA 6010B	

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
---	---	-----------------------------

**S9-2
T141580-24 (Soil)**

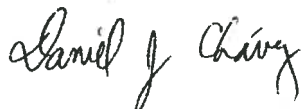
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	5.8	3.0	mg/kg	1	4081129	08/11/14	08/12/14	EPA 6010B	

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602
Project Manager: Laura Long

Reported:
08/15/14 12:12

**S11-2
T141580-25 (Soil)**

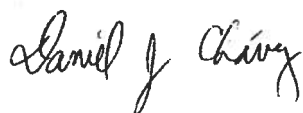
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	14	3.0	mg/kg	1	4081129	08/11/14	08/12/14	EPA 6010B	

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
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**S17-2
T141580-26 (Soil)**

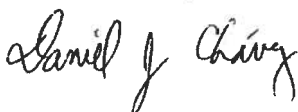
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	5.0	3.0	mg/kg	1	4081129	08/11/14	08/12/14	EPA 6010B	

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
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S45-2
T141580-27 (Soil)

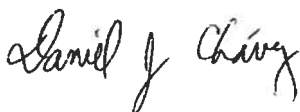
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	4.2	3.0	mg/kg	1	4081129	08/11/14	08/12/14	EPA 6010B	

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
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**S20-2
T141580-28 (Soil)**

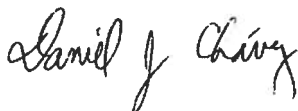
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	19	3.0	mg/kg	1	4081129	08/11/14	08/12/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
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**S18-2
T141580-29 (Soil)**

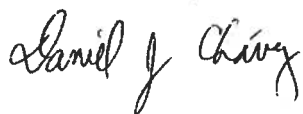
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	7.9	3.0	mg/kg	1	4081129	08/11/14	08/12/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602 Project Manager: Laura Long	Reported: 08/15/14 12:12
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S40-2
T141580-30 (Soil)

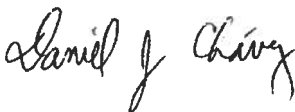
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	13	3.0	mg/kg	1	4081129	08/11/14	08/12/14	EPA 6010B	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

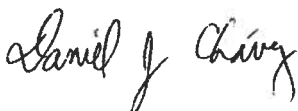
Project: SR65 Capacity
Project Number: 2602
Project Manager: Laura Long

Reported:
08/15/14 12:12

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
Batch 4081128 - EPA 3051										
Blank (4081128-BLK1) Prepared: 08/11/14 Analyzed: 08/12/14										
Lead	ND	3.0	mg/kg							
LCS (4081128-BS1) Prepared: 08/11/14 Analyzed: 08/12/14										
Lead	109	3.0	mg/kg	100		109	75-125			
Matrix Spike (4081128-MS1) Source: T141580-01 Prepared: 08/11/14 Analyzed: 08/12/14										
Lead	106	3.0	mg/kg	100	ND	106	75-125			
Matrix Spike Dup (4081128-MSD1) Source: T141580-01 Prepared: 08/11/14 Analyzed: 08/12/14										
Lead	93.6	3.0	mg/kg	100	ND	93.6	75-125	12.2	20	
Batch 4081129 - EPA 3051										
Blank (4081129-BLK1) Prepared: 08/11/14 Analyzed: 08/12/14										
Lead	ND	3.0	mg/kg							
LCS (4081129-BS1) Prepared: 08/11/14 Analyzed: 08/12/14										
Lead	116	3.0	mg/kg	100		116	75-125			
Matrix Spike (4081129-MS1) Source: T141580-21 Prepared: 08/11/14 Analyzed: 08/12/14										
Lead	111	3.0	mg/kg	100	4.45	107	75-125			
Matrix Spike Dup (4081129-MSD1) Source: T141580-21 Prepared: 08/11/14 Analyzed: 08/12/14										
Lead	102	3.0	mg/kg	99.0	4.45	98.7	75-125	8.72	20	

SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602
Project Manager: Laura Long

Reported:
08/15/14 12:12

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 4081123 - General Preparation

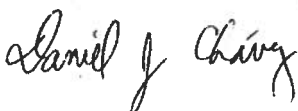
Duplicate (4081123-DUP1)

Source: T141580-03

Prepared & Analyzed: 08/11/14

pH	6.99	0.1	pH Units		6.71			4.09	20	
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SunStar Laboratories, Inc.



Daniel Chavez, Project Manager

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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

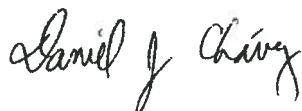
Project: SR65 Capacity
Project Number: 2602
Project Manager: Laura Long

Reported:
08/15/14 12:12

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.



Daniel Chavez, Project Manager

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.

Chain of Custody Record

SunStar Laboratories, Inc.
 25712 Commercentre Dr
 Lake Forest, CA 92630
 949-297-5020

Client: Blackburn Consulting

Date: 8/7/14 Page: 1 Of 2

Address:

Project Name: SR65 Capandy

Phone:

Collector: Dylan Parer Client Project #: 2602

Project Manager: Caula Long Fax:

Batch #: 7141580 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	Laboratory ID #	Comments/Preservative	Total # of containers
543-2	8/7	9:50	Soil	Class Jar										01		
583-2	8/7	1:55												02		
530-2	8/7	1:45												03		
538-2		2:30												04		
535-2		2:00												05		
528-2		1:10												06		
526-2		1:00												07		
521-2		12:30												08		
514-2		9:55												09		
516-2		10:05												10		
519-2		10:15												11		
54-2		9:00AM												12		
558-2		9:15												13		
510-2		9:30												14		
513-2		9:40												15		
Relinquished by: (signature) <u>[Signature]</u> Date / Time <u>8/7 @ 15:55</u>																
Relinquished by: (signature) <u>[Signature]</u> Date / Time <u>8/7 @ 8:50</u>																
Relinquished by: (signature) <u>[Signature]</u> Date / Time <u>8/7 @ 8:50</u>																
Received by: (signature) <u>[Signature]</u> Date / Time <u>8-7-13</u>																
Received by: (signature) <u>[Signature]</u> Date / Time <u>8-7-13</u>																
Received by: (signature) <u>[Signature]</u> Date / Time <u>8-7-13</u>																
Chain of Custody seals <u>NA/NA</u>																
Seals intact? <u>NA/NA</u>																
Received good condition/cold <u>LO</u>																
Turn around time: _____																

Notes

STD. TAT

Sample disposal instructions: Disposal @ \$2.00 each _____

Return to client _____

Pickup _____

COC 130551

8-15-14

K

SAMPLE RECEIVING REVIEW SHEET

BATCH # T14580

Client Name: Buckhorn Project: SEGS Capacity

Received by: Sunny Date/Time Received: 8-2-19 8:50

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 1.2 °C +/- the CF (-0.2°C) = 1.0 °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 RC 8.2.19

Comments:



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

22 August 2014

Laura Long
Blackburn Consulting
11521 Blocker Dr #110
Auburn, CA 95603
RE: SR65 Capacity

Enclosed are the results of analyses for samples received by the laboratory on 08/01/14 08:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez
Project Manager

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/22/14 14:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S42-2	T141513-13	Soil	07/29/14 10:45	08/01/14 08:40
S39-2	T141513-15	Soil	07/29/14 08:50	08/01/14 08:40
S39-15	T141513-16	Soil	07/29/14 08:50	08/01/14 08:40
S34-2	T141513-21	Soil	07/29/14 10:30	08/01/14 08:40
S34-15	T141513-22	Soil	07/29/14 10:30	08/01/14 08:40
S32-2	T141513-23	Soil	07/29/14 10:45	08/01/14 08:40

DETECTIONS SUMMARY

Sample ID: S42-2

Laboratory ID: T141513-13

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	3.8	0.10		mg/l	STLC Waste Extractio	

Sample ID: S39-2

Laboratory ID: T141513-15

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	15	0.10		mg/l	STLC Waste Extractio	

Sample ID: S39-15

Laboratory ID: T141513-16


Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	6.2	0.10		mg/l	STLC Waste Extractio	

Sample ID: S34-2

Laboratory ID: T141513-21

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	4.7	0.10		mg/l	STLC Waste Extractio	

SunStar Laboratories, Inc.



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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/22/14 14:56

Sample ID: S34-15

Laboratory ID: T141513-22

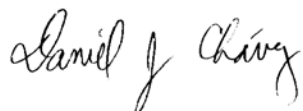
Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	4.8	0.10		mg/l	STLC Waste Extractio	

Sample ID: S32-2

Laboratory ID: T141513-23

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	7.5	0.10		mg/l	STLC Waste Extractio	

SunStar Laboratories, Inc.



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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: SR65 Capacity Project Number: 2602.2 Project Manager: Laura Long	Reported: 08/22/14 14:56
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S42-2
T141513-13 (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	3.8	0.10	mg/l	1	4081233	08/12/14	08/18/14	STLC Waste Extraction Test	

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



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 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602.2 Project Manager: Laura Long	Reported: 08/22/14 14:56
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S39-2
T141513-15 (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	15	0.10	mg/l	1	4081233	08/12/14	08/18/14	STLC Waste Extraction Test	

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



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 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602.2 Project Manager: Laura Long	Reported: 08/22/14 14:56
---	---	------------------------------------

S39-15
T141513-16 (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	6.2	0.10	mg/l	1	4081233	08/12/14	08/18/14	STLC Waste Extraction Test	

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager



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 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Blackburn Consulting 11521 Blocker Dr #110 Auburn CA, 95603	Project: SR65 Capacity Project Number: 2602.2 Project Manager: Laura Long	Reported: 08/22/14 14:56
---	---	------------------------------------

S34-2
T141513-21 (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	4.7	0.10	mg/l	1	4081233	08/12/14	08/18/14	STLC Waste Extraction Test	

SunStar Laboratories, Inc.

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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: SR65 Capacity Project Number: 2602.2 Project Manager: Laura Long	Reported: 08/22/14 14:56
---	---	------------------------------------

S34-15
T141513-22 (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	4.8	0.10	mg/l	1	4081233	08/12/14	08/18/14	STLC Waste Extraction Test	
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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.

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: SR65 Capacity Project Number: 2602.2 Project Manager: Laura Long	Reported: 08/22/14 14:56
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S32-2
T141513-23 (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	7.5	0.10	mg/l	1	4081233	08/12/14	08/18/14	STLC Waste Extraction Test	

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager

Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/22/14 14:56

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 4081233 - STLC Metals

Blank (4081233-BLK1)

Prepared: 08/12/14 Analyzed: 08/18/14

Chromium	ND	0.10	mg/l							
Lead	ND	0.10	"							

LCS (4081233-BS1)

Prepared: 08/12/14 Analyzed: 08/18/14

Chromium	9.78	0.10	mg/l	10.0		97.8	75-125			
Lead	9.55	0.10	"	10.0		95.5	75-125			

Matrix Spike (4081233-MS1)

Source: T141564-01

Prepared: 08/12/14 Analyzed: 08/18/14

Chromium	10.2	0.10	mg/l	10.0	0.553	96.0	75-125			
Lead	10.5	0.10	"	10.0	1.96	85.8	75-125			

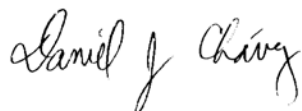
Matrix Spike Dup (4081233-MSD1)

Source: T141564-01

Prepared: 08/12/14 Analyzed: 08/18/14

Chromium	10.2	0.10	mg/l	10.0	0.553	96.7	75-125	0.748	30	
Lead	10.9	0.10	"	10.0	1.96	89.4	75-125	3.35	30	

SunStar Laboratories, Inc.



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Daniel Chavez, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
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Blackburn Consulting
11521 Blocker Dr #110
Auburn CA, 95603

Project: SR65 Capacity
Project Number: 2602.2
Project Manager: Laura Long

Reported:
08/22/14 14:56

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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Daniel Chavez, Project Manager

Chain of Custody Record

SunStar Laboratories, Inc.
 25712 Commerce Centre Dr
 Lake Forest, CA 92630
 949-297-5020

Client: Blackburn Consulting
 Address: 2491 Boatman Ave
 Phone: 536-219-4891 Fax: 916-296-2447
 Project Manager: Laura Long

Date: 7/29 Page: 1 of 3
 Project Name: SRBS Capacity
 Collector: Dylan Fawcett Client Project #: 2602.2
 Batch #: 7/15/13 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	Lead	PH	Laboratory ID #	Comments/Preservative	Total # of containers		
S49-2	7/29	9:45 a	Soil	Glass												01				
S49-15	7/29	9:45 a	Soil	Glass												02				
S48-2		10:20 a														03				
S48-15		10:20 a														04				
S46-2		10:50 a														05				
S46-15		10:50 a														06				
S44-2		10:30														07				
S41-2		12:30														08				
S50-2		1:30														09				
S47-2		1:47														10				
S2-2		2:15														11				
S42-2		10:45														12				
S42-15		10:45														13				
		10:45														14				
Relinquished by: (signature) <u>[Signature]</u> Date / Time <u>7/30/13 4:45</u>			Received by: (signature) <u>[Signature]</u> Date / Time <u>7/30/13 4:45</u>			Total # of containers <u>14</u>			Chain of Custody seals Y/N/N/A <u>14</u>			Seals intact? Y/N/N/A <u>14</u>			Received good condition/cold <u>14</u>			Turn around time: <u>5 Mins</u>		
Relinquished by: (signature) <u>[Signature]</u> Date / Time <u>7/31/13 12:45</u>			Received by: (signature) <u>[Signature]</u> Date / Time <u>7/31/13 12:45</u>			Total # of containers <u>14</u>			Chain of Custody seals Y/N/N/A <u>14</u>			Seals intact? Y/N/N/A <u>14</u>			Received good condition/cold <u>14</u>			Turn around time: <u>5 Mins</u>		
Relinquished by: (signature) <u>[Signature]</u> Date / Time <u>8/1/14 8:40</u>			Received by: (signature) <u>[Signature]</u> Date / Time <u>8/1/14 8:40</u>			Total # of containers <u>14</u>			Chain of Custody seals Y/N/N/A <u>14</u>			Seals intact? Y/N/N/A <u>14</u>			Received good condition/cold <u>14</u>			Turn around time: <u>5 Mins</u>		

Sample disposal instructions: _____ Disposal @ \$2.00 each _____

Return to client _____ Pickup _____

STANDARD

Chain of Custody Record

SunStar Laboratories, Inc.
 25712 Commercecentre Dr
 Lake Forest, CA 92630
 949-297-5020

Client: Blackburn Consulting
 Address: 2491 Boatman Ave
 Phone: 530-219-4891 Fax: 916-296-2447
 Project Manager: Laura Long

Date: 7/30 Page: 2 of 3
 Project Name: SRGS Capacity
 Collector: Dylan Farver Client Project #: 2602.2
 Batch #: 711513 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	Laboratory ID #	Comments/Preservative	Total # of containers	
S39-2	7/30	8:50	Soil	Glass										15			
S39-15		8:50												16			
S37-2		9:30												17			
S37-15		9:30												18			
S36-2		9:45												19			
S36-15		9:45												20			
S34-2		10:30												21			
S34-15		10:30												22			
S32-2		10:45												23			
S32-15		10:45												24			
S31-2		11:15												25			
S31-15		11:15												26			
S24-2		11:45												27			
S24-15		11:45												28			
Relinquished by: (signature) <u>[Signature]</u> Date / Time <u>7/31/14 12:45</u>			Received by: (signature) <u>[Signature]</u> Date / Time <u>7/31/14 12:45</u>			Total # of containers <u>14</u>			Chain of Custody seals <u>NINA</u>			Seals intact? <u>(Y) NINA</u>			Received good condition/cold <u>(Y) NINA</u>		
Relinquished by: (signature) <u>[Signature]</u> Date / Time <u>8:14 8:40</u>			Received by: (signature) <u>[Signature]</u> Date / Time <u>8:14 8:40</u>			Turn around time: <u>STND</u>			Notes <u>STD. TAT</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: Blackburn Consulting
 Address: _____
 Phone: _____ Fax: _____
 Project Manager: _____

Date: 7/30 Page: 3 of 3
 Project Name: SRES Capacity
 Collector: Dylan Farmer Client Project #: 2602.2
 Batch #: 7/4/5/3 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	Lead	pH	Laboratory ID #	Comments/Preservative	Total # of containers
S22-2	7/30	12:15	Soil	Glass												29		
S22-15		12:15														30		
S25-2		12:45														31		
S25-15		12:45														32		
S23-2		1:15														33		
S23-15		1:15														34		
S22-2		1:45														35		
S22-15		1:45														36		
Relinquished by: (signature) _____ Date / Time _____ Received by: (signature) _____ Date / Time _____ Relinquished by: (signature) _____ Date / Time _____ Received by: (signature) _____ Date / Time _____ Relinquished by: (signature) _____ Date / Time _____ Received by: (signature) _____ Date / Time _____																		

Sample disposal instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

Turn around time: STND
 Total # of containers: 36
 Chain of Custody seals: YNNA
 Seals Intact: YNNA
 Received good condition/cold: 1.0
 Notes: **STD. TAT**

SAMPLE RECEIVING REVIEW SHEET

BATCH # T/4/5/13

Client Name: BLACISBAUM CON.

Project: SR65 CAPACITY

Received by: SWANN

Date/Time Received: 8-14 / 8:40

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 1.2 °C +/- the CF (- 0.2°C) = 1.0 °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 SL 8-14

Comments:

APPENDIX D

Analytical Laboratory Results Summary and GPS Sample Locations



Northbound								
Sample Location	Sample ID	Average Depth	Date Sampled	Total Lead (mg/kg)	pH	Soluble Lead (mg/l)	Coordinates	
							Latitude	Longitude
ADL-2	S2-2	2"	7/29/2014	7.8	6.4	---	38.77968 ⁰ N	-121.26982 ⁰ W
ADL-4	S4-2	2"	8/4/2014	4.2	---	---	38.78220 ⁰ N	-121.27486 ⁰ W
ADL-8	S8-2	2"	8/4/2014	8.6	---	---	38.79059 ⁰ N	-121.29137 ⁰ W
ADL-10	S10-2	2"	8/4/2014	5.5	---	---	38.79353 ⁰ N	-121.29447 ⁰ W
ADL-13	S13-2	2"	8/4/2014	nrd	---	---	38.79607 ⁰ N	-121.29724 ⁰ W
ADL-14	S14-2	2"	8/4/2014	4.8	---	---	38.79763 ⁰ N	-121.29832 ⁰ W
ADL-16	S16-2	2"	8/4/2014	5.2	---	---	38.80082 ⁰ N	-121.29969 ⁰ W
ADL-19	S19-2	2"	8/4/2014	9.3	---	---	38.80468 ⁰ N	-121.29999 ⁰ W
ADL-21	S21-2	2"	8/4/2014	nrd	---	---	38.80918 ⁰ N	-121.29987 ⁰ W
ADL-24	S24-2	2"	8/7/2014	nrd	---	---	n/a	n/a
ADL-26	S26-2	2"	8/4/2014	nrd	---	---	38.81820 ⁰ N	121.29977 ⁰ W
ADL-28	S28-2	2"	8/4/2014	12	---	---	38.82288 ⁰ N	-121.29974 ⁰ W
ADL-30	S30-2	2"	8/4/2014	4.4	6.7	---	38.82712 ⁰ N	-121.29469 ⁰ W
ADL-33	S33-2	2"	8/4/2014	5.6	---	---	38.82860 ⁰ N	-121.29967 ⁰ W
ADL-35	S35-2	2"	8/4/2014	34	---	---	38.83029 ⁰ N	-121.29965 ⁰ W
ADL-38	S38-2	2"	8/4/2014	14	---	---	38.83475 ⁰ N	-121.29968 ⁰ W
ADL-40	S40-2	2"	8/7/2014	13	---	---	n/a	n/a
ADL-43	S43-2	2"	8/7/2014	nrd	---	---	n/a	n/a
ADL-45	S45-2	2"	8/7/2014	4.2	---	---	n/a	n/a
ADL-47	S47-2	2"	7/29/2014	nrd	---	---	38.86017 ⁰ N	-121.29951 ⁰ W
ADL-50	S50-2	2"	7/29/2014	nrd	---	---	38.86400 ⁰ N	-121.29990 ⁰ W

Southbound								
Sample Location	Sample ID	Average Depth	Date Sampled	Total Lead (mg/kg)	pH	Soluble Lead (mg/l)	Coordinates	
							Latitude	Longitude
ADL-1	S1-2	2"	8/7/2014	6.5	---	---	n/a	n/a
ADL-3	S3-2	2"	8/7/2014	nrd	---	---	n/a	n/a
ADL-5	S5-2	2"	8/7/2014	22	---	---	n/a	n/a
ADL-6	S6-2	2"	8/7/2014	4.4	---	---	n/a	n/a
ADL-7	S7-2	2"	8/7/2014	6.5	---	---	n/a	n/a
ADL-9	S9-2	2"	8/7/2014	5.8	---	---	n/a	n/a
ADL-11	S11-2	2"	8/7/2014	14	---	---	n/a	n/a
ADL-12	S12-2	2"	8/7/2014	3.8	---	---	n/a	n/a
ADL-15	S15-2	2"	8/7/2014	8.5	6.7	---	n/a	n/a
ADL-17	S17-2	2"	8/7/2014	5	---	---	n/a	n/a
ADL-18	S18-2	2"	8/7/2014	7.9	---	---	n/a	n/a
ADL-20	S20-2	2"	8/7/2014	19	---	---	n/a	n/a
ADL-22	S22-2	2"	7/30/2014	39	---	---	38.80920 ⁰ N	-121.30056 ⁰ W
ADL-22	S22-15	12"	7/30/2014	44	---	---	38.80920 ⁰ N	-121.30056 ⁰ W
ADL-23	S23-2	2"	7/30/2014	nrd	---	---	38.81131 ⁰ N	-121.30054 ⁰ W
ADL-23	S23-15	12"	7/30/2014	nrd	---	---	38.81131 ⁰ N	-121.30054 ⁰ W
ADL-25	S25-2	2"	7/30/2014	nrd	6.7	---	38.81632 ⁰ N	-121.30050 ⁰ W
ADL-25	S25-15	12"	7/30/2014	nrd	---	---	38.81632 ⁰ N	-121.30050 ⁰ W
ADL-27	S27-2	2"	7/30/2014	nrd	---	---	38.81838 ⁰ N	-121.30052 ⁰ W
ADL-27	S27-15	12"	7/30/2014	nrd	---	---	38.81838 ⁰ N	-121.30052 ⁰ W
ADL-29	S29-2	2"	7/30/2014	4.4	---	---	38.82234 ⁰ N	-121.30045 ⁰ W
ADL-29	S29-15	12"	7/30/2014	nrd	---	---	38.82234 ⁰ N	-121.30045 ⁰ W
ADL-31	S31-2	2"	7/30/2014	nrd	---	---	38.82591 ⁰ N	-121.30038 ⁰ W
ADL-31	S31-15	12"	7/30/2014	20	---	---	38.82591 ⁰ N	-121.30038 ⁰ W
ADL-32	S32-2	2"	7/30/2014	140	---	7.5	38.83050 ⁰ N	-121.30027 ⁰ W
ADL-32	S32-15	12"	7/30/2014	20	---	---	38.83050 ⁰ N	-121.30027 ⁰ W
ADL-34	S34-2	2"	7/30/2014	85	---	4.7	38.83498 ⁰ N	-121.30024 ⁰ W
ADL-34	S34-15	12"	7/30/2014	110	---	4.8	38.83498 ⁰ N	-121.30024 ⁰ W
ADL-36	S36-2	2"	7/30/2014	44	6.3	---	38.83829 ⁰ N	-121.30015 ⁰ W
ADL-36	S36-15	12"	7/30/2014	3.2	---	---	38.83829 ⁰ N	-121.30015 ⁰ W
ADL-37	S37-2	2"	7/30/2014	49	---	---	38.48036 ⁰ N	-121.30015 ⁰ W
ADL-37	S37-15	12"	7/30/2014	19	---	---	38.48036 ⁰ N	-121.30015 ⁰ W
ADL-39	S39-2	2"	7/30/2014	160	---	15	38.84428 ⁰ N	-121.30022 ⁰ W
ADL-39	S39-15	12"	7/30/2014	100	---	6.2	38.84428 ⁰ N	-121.30022 ⁰ W
ADL-41	S41-2	2"	7/29/2014	nrd	---	---	38.85078 ⁰ N	-121.30023 ⁰ W
ADL-41	S41-15	12"	7/29/2014	4	---	---	38.85078 ⁰ N	-121.30023 ⁰ W
ADL-42	S42-2	2"	7/29/2014	67	---	3.8	38.85221 ⁰ N	-121.30007 ⁰ W
ADL-42	S42-15	12"	7/29/2014	16	---	---	38.85221 ⁰ N	-121.30007 ⁰ W
ADL-44*	S44-2*	2"	7/29/2014	nrd	---	---	38.85531 ⁰ N	-121.29987 ⁰ W
ADL-46	S46-2	2"	7/29/2014	nrd	---	---	38.85786 ⁰ N	-121.30008 ⁰ W

Southbound								
Sample Location	Sample ID	Average Depth	Date Sampled	Total Lead (mg/kg)	pH	Soluble Lead (mg/l)	Coordinates	
							Latitude	Longitude
ADL-46	S46-15	12"	7/29/2014	5.3	---	---	38.85786 ⁰ N	-121.30008 ⁰ W
ADL-48	S48-2	2"	7/29/2014	nrd	---	---	38.860706 ⁰ N	121.301359 ⁰ W
ADL-48	S48-15	12"	7/29/2014	nrd	---	---	38.860706 ⁰ N	121.301359 ⁰ W
ADL-49	S49-2	2"	7/29/2014	4.8	---	---	38.848438 ⁰ N	121.359003 ⁰ W
ADL-49	S49-15	12"	7/29/2014	nrd	---	---	38.848438 ⁰ N	21.359003 ⁰ W