

AERIALY DEPOSITED LEAD ASSESSMENT

State Route 99/120 Interchange
Manteca, California

Prepared by:

BLACKBURN CONSULTING

2491 Boatman Ave
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February 2018

Prepared for:

Mark Thomas & Company, Inc.

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File No. 2998.X
February 7, 2018

Mr. Garry Horton
Mark Thomas & Company
7300 Folsom Blvd., Suite 203
Sacramento, CA 95826

Subject: **AERIALLY DEPOSITED LEAD (ADL) ASSESSMENT REPORT**
State Route 99/120 Interchange Improvement Project
Manteca, California

Dear Mr. Horton,

Blackburn Consulting (BCI) completed this Aerially Deposited Lead (ADL) Assessment report for the State Route 99/120 Interchange Improvement Project, located in Manteca, California.

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

BCI appreciates this opportunity to be on your team. Please call if you have questions or require additional information.

Sincerely,

BLACKBURN CONSULTING

Ryan Schmidt
Project Engineer

Jason Paul, PG
Senior Project Manager

**AERIALY DEPOSITED LEAD ASSESSMENT REPORT
SR 99/120 INTERCHANGE IMPROVEMENT PROJECT**

Manteca, California

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1. INTRODUCTION

Blackburn Consulting (BCI) prepared this Aerially Deposited Lead (ADL) Assessment Report for the State Route 99/120 (SR 99/120) Interchange Improvement Project located in Manteca, California. BCI assessed the presence of ADL in surface and shallow subsurface soil within areas of the project corridor anticipated to be disturbed by the planned improvements. This assessment evaluates whether impacts due to ADL will require mitigation recommendations for construction and/or additional testing.

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

2. PROJECT LOCATION AND DESCRIPTION

The project is located along State Route 99 (SR 99) from approximately 2,000 feet north of the SR 99/120 Interchange to approximately 8,000 feet southeast of the Austin Road overpass, and along State Route 120 (SR120) from the SR 99/120 Interchange to approximately 1,000 feet west of the South Main Street overpass. The project area includes on-ramps, off-ramps, and frontage roads in the vicinity of the SR 99/Austin Road interchange and the on- and off-ramps at the SR 99/120 Interchange. Figure 1 presents the Vicinity Map.

2.1 Potential for ADL in Soil

Soil testing along roads heavily traveled prior to 1987 indicates that ADL may be present in the surface soil of the unpaved shoulders. The lead is 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 increased depth below the ground surface. The SR 99/120 Interchange was constructed prior to 1987; therefore, the potential for ADL exists.

3. SCOPE OF WORK

To prepare this assessment, BCI completed the following tasks:

- Prepared a Sampling Workplan and site-specific Health and Safety Plan.
- Prepared a map of the proposed ADL sample locations based on the project limits provided by MTCO.
- Sampled forty-four (44) locations along the unpaved shoulders of the proposed alignments including on-ramps, off-ramps, and frontage roads in the vicinity of the SR 99/Austin Road interchange and the on- and off-ramps at the SR 99/120 Interchange.
- Collected one hundred thirty-one (131) soil samples from forty-four (44) locations within the project limits.

- Submitted one hundred thirty-one (131) 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.

4. SAMPLE SUMMARY

BCI obtained samples from forty-four (44) hand auger boring locations along the unpaved shoulders of the proposed alignment including on-ramps, off-ramps, and frontage roads in the vicinity of the SR 99/Austin Road interchange, and the on- and off-ramps at the SR 99/120 interchange. Boring locations were within five to ten lateral feet of the existing pavement edge, and within areas anticipated to be disturbed by the planned construction activities.

One deviation to the Sampling Workplan occurred. BCI proposed to collect soil samples from forty (40) sample locations; however, in May 2017, the project limits were extended to include additional roadway. The modified project limits included an increased area of impact which required four (4) additional sample locations.

We summarize sample collection, subsurface soil conditions, and laboratory analysis in the following sections. Figure 2 shows the approximate sample locations.

4.1 Sample Collection

BCI attempted to collect soil samples from forty-four (44) hand auger boring locations at three (3) depth intervals: zero to six (0-6") inches, twelve to eighteen (12-18") inches, and twenty-four to thirty (24-30") inches below ground surface (bgs). Specifically, BCI:

- Collected soil samples within forty-four (44) hand auger borings from zero to six (0-6") inches and twelve to eighteen (12-18") inches bgs.
- Collected soil samples within forty-three (43) hand auger borings from twenty-four to thirty (24-30") inches bgs. At sample location ADL-34, BCI encountered refusal from underlain paving/concrete below the second depth interval at approximately twenty (20") inches bgs.
- Transferred samples into glass jars, labeled with the sample time, date, location, depth, and the sampler's initials.
- Cleaned sampling equipment between each sample by washing with an Alconox solution followed by rinsing with distilled 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.

4.1 Subsurface Soil Conditions

BCI observed subsurface soil conditions throughout the sampling process. Embankments near the SR 99/120 Interchange contained a layer of sandy lean clay in the upper six (6") inches of soil. From six (6") inches to the deepest observed depth of thirty (30") inches, the soil consisted of Poorly Graded Fine Sands with very little clay content and moisture. In areas extending further than one hundred (100') feet from the SR 99/120 Interchange, the soil from zero to thirty (0-30") inches was uniformly poorly graded fine sands with little to no clay content or moisture.

4.2 Sample Analysis

BCI submitted one hundred thirty-one (131) soil samples to SunStar Laboratories for the following analysis:

- One hundred thirty-one (131) samples were analyzed for total lead using EPA Test Method 6010B. Eight (8) samples exhibited total lead concentrations exceeding 50 milligrams per kilograms (mg/kg) and were therefore selected for further testing. The 50 mg/kg threshold is considered the minimum total lead concentration that can potentially result in a Soluble Threshold Limit Concentration (STLC)¹ of 5 milligrams per liter (mg/l) due to a 10-fold dilution of the sample for the STLC test.
- Eight (8) samples selected for further testing were analyzed for soluble lead using the Waste Extraction Test (WET) procedure and EPA Test Method 6010B.
- Four (4) randomly selected samples were analyzed for pH 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. A copy of the laboratory report and chain-of-custody document is included in Appendix B.

5. ANALYTICAL RESULTS

We summarize the analytical test results in Table 1 presented in Appendix A.

Test results indicate the following:

- Total lead concentrations range from below the detection limit of 5.0 mg/kg to 390 mg/kg with an average detected concentration of 37.1 mg/kg.
- No reported sample concentrations exceed the TTLC of 1,000 mg/kg.
- Eight (8) 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 concentrations were found in all eight (8) samples ranging from 0.56 mg/l to 8.1 mg/l. Three (3) samples exceed the STLC of 5.0 mg/l.
- Results of the four (4) pH tests range from 6.3 to 8.1 with an average pH of 6.95 (close to neutral).

¹ STLC is a regulatory limit defining hazardous waste in California

6. 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. Much of the ADL data is skewed to lower concentrations and does not fit a standard distribution pattern; therefore, BCI calculated UCLs using non-parametric and lognormal techniques that do not require data to have a specific distribution. Appendix C presents statistical analysis calculations performed by ProUCL 5.0.

6.1 Total Lead

We analyzed groups of data based on sample depth. Table 2 summarizes the total lead results for each sample depth interval, as well as the combined interval (0-30"). The combined interval (0-30") provides information on the sample population as a whole. Sample ADL-26B, with a total lead concentration of 390 mg/kg, was identified as a statistical outlier (as determined by the ProUCL software) and removed from the data set to provide a more representative statistical analysis.

BCI conducted statistical analyses for all sample locations within the project limits. Table 2 presents the ranges of lead concentrations, average lead concentrations, and 95% Upper Confidence Limits (UCLs) for each depth interval.

TABLE 2: Total Lead Statistical Summary by Depth Interval All Sample Locations			
Soil Depth Interval (inches bgs)	Detection Range* (mg/kg)	All Sample Locations Mean (mg/kg)	All Sample Locations 95% UCL (mg/kg)
0 – 6"	ND to 130.0	35.31	43.6
12 – 18"	ND to 41.0**	21.43	13.69
24 – 30"	ND to 53.0	30.0	12.74
0 – 30"	ND to 130.0**	30.02	22.64

* ND = Not detected at a reporting limit of 5.0 mg/kg

** Outlier ADL-26B removed from data set.

Based on the mean and 95% UCL values shown in Table 2, the highest concentration of lead is located at the 0-6" sample interval. However, the total lead concentrations and the 95% UCL for all groups are well below the 1,000 mg/kg TTLC for lead.

6.2 Soluble Lead

Soluble lead testing was performed on eight samples by the WET method. Statistical modeling was utilized to analyze the WET data.

Since lead solubility (WET) testing was limited to the eight samples with total lead concentrations that exceeded 50 mg/kg, an upward bias in solubility results is introduced. We therefore performed a linear regression analysis to predict the 95% UCL for WET solubility and reduce the effect of the biased sample populations. For the regression analysis, we consider seven data points (ADL-26B was determined to be an outlier and removed from the sample population) and define the intercept to occur at the origin. The calculated multiple “r” correlation coefficient is 0.81 which indicates that the correlation between the total and soluble lead data sets is acceptable.

The WET data regression equation is calculated to be:

$$y = 0.0529(x) \text{ for all sample locations}$$

Where:

y = soluble lead concentrations in mg/l

x = total lead concentrations in mg/kg

We used the 95% UCL values for total lead in the regression formulas to calculate the predicted WET solubility for the various soil depth intervals shown in Table 3.

TABLE 3: Predicted Lead Solubility				
Soil Depth Interval (inches bgs)	Total Lead Mean (mg/kg)	WET-Soluble Lead Mean (mg/l)	95% UCL Total Lead All Locations (mg/kg)	95% UCL WET-Soluble Lead All Locations (mg/l)
0-6"	35.31	1.867	43.6	2.306
12-18"	21.43	1.133	13.69	0.724
24-30"	30.0	1.587	12.74	0.673
0-30"	30.02	1.588	22.64	1.198

The predicted 95% UCL for the samples tested using the WET test are below the STLC of 5.0 mg/l, for all sample locations at each depth interval and combined depth intervals.

The 95% UCLs for WET-Soluble Lead were below the STLC of 5.0 mg/l, therefore, none of the samples were further tested for TCLP solubility.

7. CONCLUSIONS

As of July 1, 2016, management of lead-impacted soil on projects within Caltrans Right of Way (ROW) is governed by the Soil Management Agreement for Aerially Deposited Lead-Contaminated Soils (Agreement) pursuant to Health and Safety Code Section 25187 (b)(5), entered into by the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC), and the California Department of Transportation.

“ADL Contaminated Soil” is defined in the Agreement as excavated soil whose only constituent of concern that poses an unacceptable risk to human health or the environment is lead, in concentrations greater than considered appropriate for unrestricted use by DTSC, which is currently 80 mg/kg total lead based on a 95% upper confidence limit (UCL) and/or 5 mg/l extractable lead based on a 95% UCL, as determined by the WET.

Tested total lead concentrations based on a 95% UCL for sampled depth intervals and sample locations are below the 80 mg/kg threshold for ADL Contaminated Soil.

Tested soluble lead concentrations determined by the WET method and based on a 95% UCL for all soil depth intervals and sample locations are below the 5 mg/l threshold for ADL Contaminated Soil.

The project soil pH averages 6.95 (close to neutral) and ranges from slightly acidic to slightly basic, conditions that do not enhance lead leaching potential. The pH conditions do not impose special soil management considerations related to lead in soil.

7.1 Waste Disposal/Soil Reuse

Comparison of the test results with the soil classifications in the Agreement indicates that for the project area, excavated soil will be characterized as “Clean Soil”. Handling and disposition of “Clean Soil” will not be subject to management under the conditions of the Agreement, but will require contractor notification and preparation of a Lead Compliance Plan for worker safety.

8. RISK TO HUMAN HEALTH

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

The CHHSL for total lead is 320 mg/kg for a commercial/industrial exposure scenario. Only one of the one hundred thirty-one (131) ADL sample results exceeded the CHHSL for lead. The average values and the 95% UCLs for all soil depth intervals are all significantly less than the CHHSL. 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.

9. HEALTH AND SAFETY REQUIREMENTS

The contractor shall conduct all grading operations with the awareness that lead impacted soils are present on the site and conduct all operations in accordance with a specialized soil management plan and applicable Cal/OSHA requirements including a project specific worker Health & Safety Plan (HASP) and Lead Compliance Plan.

10. LIMITATIONS

The accompanying report summarizes the findings and opinions of BCI in accordance with generally accepted environmental engineering principles and practices currently used in Northern California.

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

The accompanying report summarizes the findings and opinions of BCI and was prepared for the specific use of our client and applies only to the subject area.

We base the findings and conclusions presented in this report on limited soil sampling and laboratory analyses, and judgment and experience. We are not responsible for interpretations by others of data presented in this report. This report does not represent a legal opinion. No warranty is expressed or implied.

State Route 99/120 Interchange Improvement Project Aerially Deposited Lead (ADL) Assessment

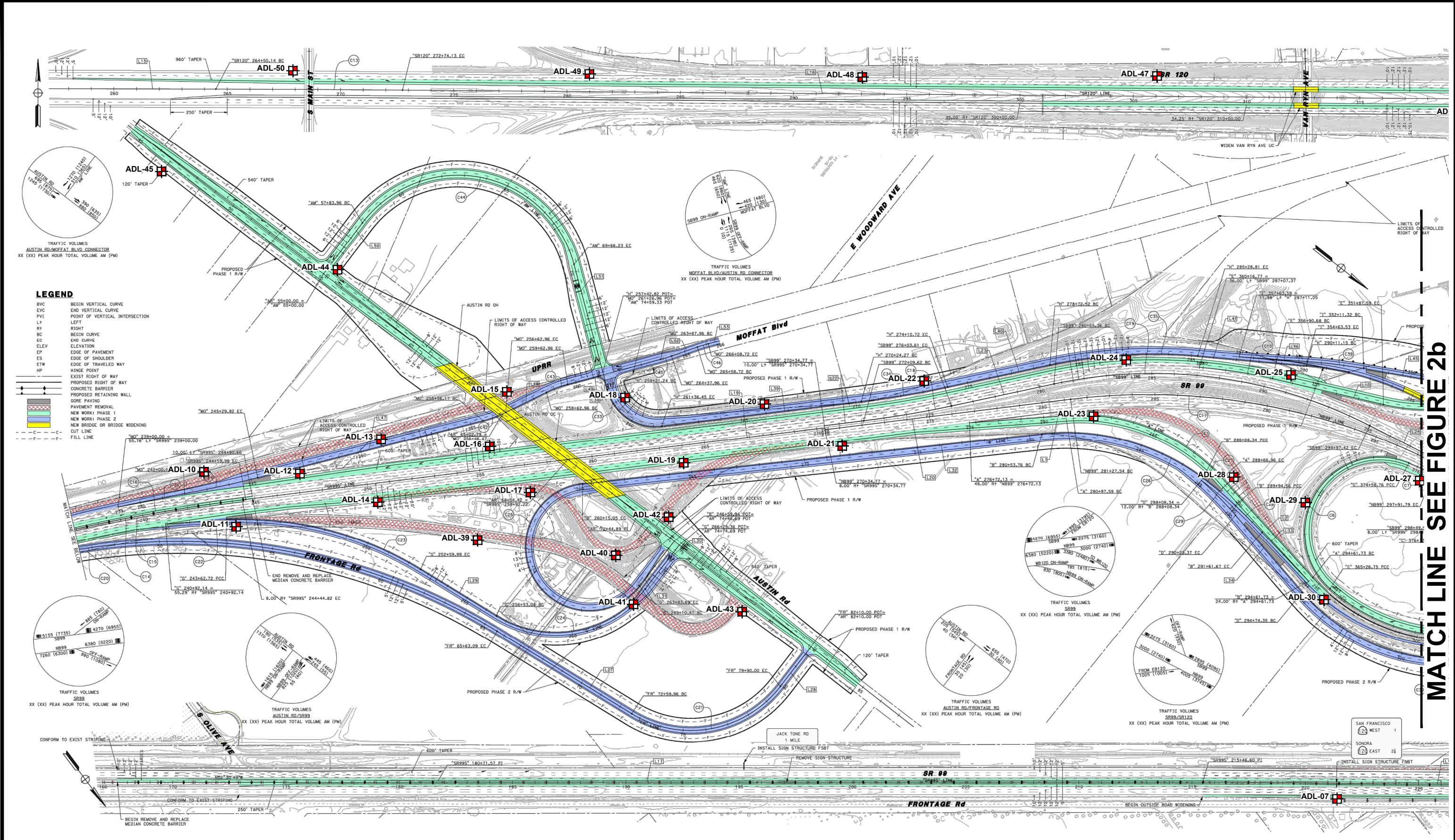
FIGURES

Vicinity Map
Sampling Locations



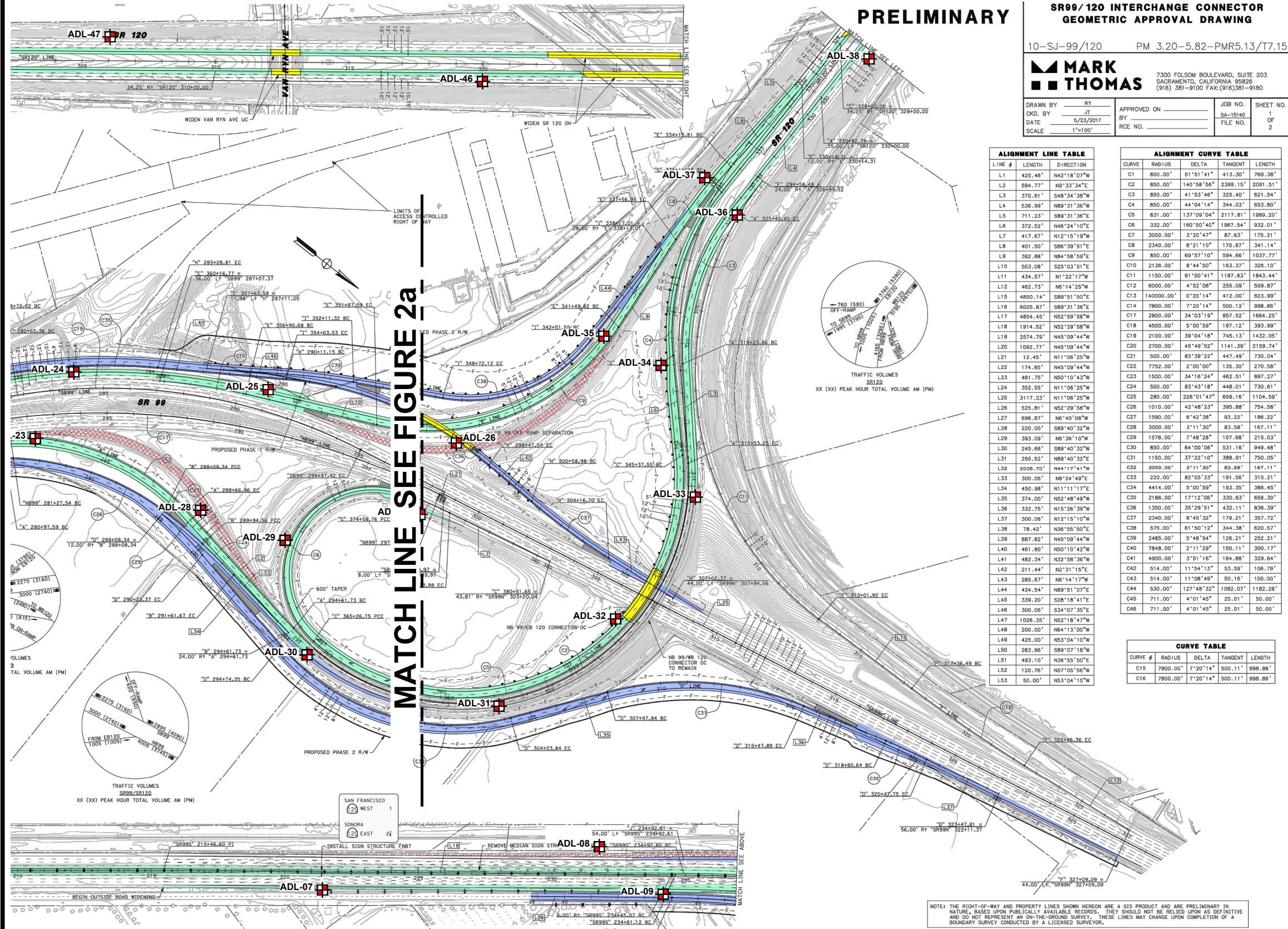


11/29/2017 2998.x Fig2 SR99-SR120 Interchange Project ADL Sample



MATCH LINE SEE FIGURE 2b

11/29/2017 2998.x Fig2 SR99-SR120 Interchange Project ADL Sample



State Route 99/120 Interchange Improvement Project Aerially Deposited Lead (ADL) Assessment

APPENDIX A

Analytical Results Summary Table



TABLE 1: Summary of Analytical Results					
Sample #		Soil Depth Interval (inches)	Metals (EPA 6010B)	STLC Waste Extraction Test (Citric Method)	TCLP Leaching Test
			Lead (mg/kg)	Lead (mg/l)	Lead (mg/l)
ADL-7	A	0-6	ND	-	-
ADL-7	B	12-18	ND	-	-
ADL-7	C	24-30	ND	-	-
ADL-8	A	0-6	92	6.2	-
ADL-8	B	12-18	25	-	-
ADL-8	C	24-30	22	-	-
ADL-9	A	0-6	17	-	-
ADL-9	B	12-18	ND	-	-
ADL-9	C	24-30	ND	-	-
ADL-10	A	0-6	81	2.4	-
ADL-10	B	12-18	23	-	-
ADL-10	C	24-30	34	-	-
ADL-11	A	0-6	26	-	-
ADL-11	B	12-18	ND	-	-
ADL-11	C	24-30	ND	-	-
ADL-12	A	0-6	24	-	-
ADL-12	B	12-18	16	-	-
ADL-12	C	24-30	16	-	-
ADL-13	A	0-6	14	-	-
ADL-13	B	12-18	37	-	-
ADL-13	C	24-30	ND	-	-
ADL-14	A	0-6	130	7.2	-
ADL-14	B	12-18	ND	-	-
ADL-14	C	24-30	ND	-	-
ADL-15	A	0-6	33	-	-
ADL-15	B	12-18	24	-	-
ADL-15	C	24-30	53	2.9	-
ADL-16	A	0-6	22	-	-
ADL-16	B	12-18	16	-	-
ADL-16	C	24-30	ND	-	-
ADL-17	A	0-6	ND	-	-
ADL-17	B	12-18	ND	-	-
ADL-17	C	24-30	26	-	-
ADL-18	A	0-6	ND	-	-
ADL-18	B	12-18	ND	-	-

TABLE 1: Summary of Analytical Results					
Sample #		Soil Depth Interval (inches)	Metals (EPA 6010B)	STLC Waste Extraction Test (Citric Method)	TCLP Leaching Test
			Lead (mg/kg)	Lead (mg/l)	Lead (mg/l)
ADL-18	C	24-30	ND	-	-
ADL-19	A	0-6	78	3.3	-
ADL-19	B	12-18	41	-	-
ADL-19	C	24-30	ND	-	-
ADL-20	A	0-6	14	-	-
ADL-20	B	12-18	21	-	-
ADL-20	C	24-30	20	-	-
ADL-21	A	0-6	18	-	-
ADL-21	B	12-18	35	-	-
ADL-21	C	24-30	49	-	-
ADL-22	A	0-6	12	-	-
ADL-22	B	12-18	ND	-	-
ADL-22	C	24-30	ND	-	-
ADL-23	A	0-6	15	-	-
ADL-23	B	12-18	ND	-	-
ADL-23	C	24-30	ND	-	-
ADL-24	A	0-6	ND	-	-
ADL-24	B	12-18	18	-	-
ADL-24	C	24-30	20	-	-
ADL-25	A	0-6	21	-	-
ADL-25	B	12-18	ND	-	-
ADL-25	C	24-30	ND	-	-
ADL-26	A	0-6	130	8.1	-
ADL-26	B	12-18	390	3.1	-
ADL-26	C	24-30	ND	-	-
ADL-27	A	0-6	ND	-	-
ADL-27	B	12-18	ND	-	-
ADL-27	C	24-30	ND	-	-
ADL-28	A	0-6	13	-	-
ADL-28	B	12-18	ND	-	-
ADL-28	C	24-30	ND	-	-
ADL-29	A	0-6	52	0.56	-
ADL-29	B	12-18	ND	-	-
ADL-29	C	24-30	ND	-	-
ADL-30	A	0-6	ND	-	-
ADL-30	B	12-18	ND	-	-

TABLE 1: Summary of Analytical Results					
Sample #		Soil Depth Interval (inches)	Metals (EPA 6010B)	STLC Waste Extraction Test (Citric Method)	TCLP Leaching Test
			Lead (mg/kg)	Lead (mg/l)	Lead (mg/l)
ADL-30	C	24-30	ND	-	-
ADL-31	A	0-6	ND	-	-
ADL-31	B	12-18	ND	-	-
ADL-31	C	24-30	ND	-	-
ADL-32	A	0-6	26	-	-
ADL-32	B	12-18	ND	-	-
ADL-32	C	24-30	ND	-	-
ADL-33	A	0-6	12	-	-
ADL-33	B	12-18	11	-	-
ADL-33	C	24-30	ND	-	-
ADL-34	A	0-6	12	-	-
ADL-34	B	12-18	12	-	-
ADL-35	A	0-6	19	-	-
ADL-35	B	12-18	17	-	-
ADL-35	C	24-30	ND	-	-
ADL-36	A	0-6	15	-	-
ADL-36	B	12-18	ND	-	-
ADL-36	C	24-30	ND	-	-
ADL-37	A	0-6	ND	-	-
ADL-37	B	12-18	ND	-	-
ADL-37	C	24-30	ND	-	-
ADL-38	A	0-6	ND	-	-
ADL-38	B	12-18	ND	-	-
ADL-38	C	24-30	ND	-	-
ADL-39	A	0-6	10	-	-
ADL-39	B	12-18	ND	-	-
ADL-39	C	24-30	ND	-	-
ADL-40	A	0-6	ND	-	-
ADL-40	B	12-18	9.9	-	-
ADL-40	C	24-30	ND	-	-
ADL-41	A	0-6	ND	-	-
ADL-41	B	12-18	ND	-	-
ADL-41	C	24-30	ND	-	-
ADL-42	A	0-6	ND	-	-
ADL-42	B	12-18	ND	-	-
ADL-42	C	24-30	ND	-	-

TABLE 1: Summary of Analytical Results					
Sample #		Soil Depth Interval (inches)	Metals (EPA 6010B)	STLC Waste Extraction Test (Citric Method)	TCLP Leaching Test
			Lead (mg/kg)	Lead (mg/l)	Lead (mg/l)
ADL-43	A	0-6	ND	-	-
ADL-43	B	12-18	12	-	-
ADL-43	C	24-30	ND	-	-
ADL-44	A	0-6	19	-	-
ADL-44	B	12-18	ND	-	-
ADL-44	C	24-30	ND	-	-
ADL-45	A	0-6	13	-	-
ADL-45	B	12-18	ND	-	-
ADL-45	C	24-30	ND	-	-
ADL-46	A	0-6	ND	-	-
ADL-46	B	12-18	ND	-	-
ADL-46	C	24-30	ND	-	-
ADL-47	A	0-6	ND	-	-
ADL-47	B	12-18	ND	-	-
ADL-47	C	24-30	ND	-	-
ADL-48	A	0-6	ND	-	-
ADL-48	B	12-18	ND	-	-
ADL-48	C	24-30	ND	-	-
ADL-49	A	0-6	ND	-	-
ADL-49	B	12-18	ND	-	-
ADL-49	C	24-30	ND	-	-
ADL-50	A	0-6	ND	-	-
ADL-50	B	12-18	25	-	-
ADL-50	C	24-30	ND	-	-

ND = Not Detected at a reporting limit of 5.0 mg/kg (total lead) and 0.100 mg/l (soluble lead by WET-DI)

State Route 99/120 Interchange Improvement Project Aerially Deposited Lead (ADL) Assessment

APPENDIX B

ADL Analytical Laboratory Results and
Chain of Custody
Total Lead Sample Results





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

16 November 2017

Ryan Schmidt
Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento, CA -
RE: SR99/120 Interchange

Enclosed are the results of analyses for samples received by the laboratory on 11/10/17 10:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Nguyen
Project Manager Assistant

Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -


Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL 34-A	T172941-01	Soil	11/06/17 09:00	11/10/17 10:55
ADL 34-B	T172941-02	Soil	11/06/17 09:00	11/10/17 10:55
ADL 36-A	T172941-03	Soil	11/06/17 09:30	11/10/17 10:55
ADL 36-B	T172941-04	Soil	11/06/17 09:30	11/10/17 10:55
ADL 36-C	T172941-05	Soil	11/06/17 09:30	11/10/17 10:55
ADL 38-A	T172941-06	Soil	11/06/17 10:00	11/10/17 10:55
ADL 38-B	T172941-07	Soil	11/06/17 10:00	11/10/17 10:55
ADL 38-C	T172941-08	Soil	11/06/17 10:00	11/10/17 10:55
ADL 46-A	T172941-09	Soil	11/06/17 10:30	11/10/17 10:55
ADL 46-B	T172941-10	Soil	11/06/17 10:30	11/10/17 10:55
ADL 46-C	T172941-11	Soil	11/06/17 10:30	11/10/17 10:55
ADL 47-A	T172941-12	Soil	11/06/17 11:00	11/10/17 10:55
ADL 47-B	T172941-13	Soil	11/06/17 11:00	11/10/17 10:55
ADL 47-C	T172941-14	Soil	11/06/17 11:00	11/10/17 10:55
ADL 48-A	T172941-15	Soil	11/06/17 11:30	11/10/17 10:55
ADL 48-B	T172941-16	Soil	11/06/17 11:30	11/10/17 10:55
ADL 48-C	T172941-17	Soil	11/06/17 11:30	11/10/17 10:55
ADL 49-A	T172941-18	Soil	11/06/17 12:00	11/10/17 10:55
ADL 49-B	T172941-19	Soil	11/06/17 12:00	11/10/17 10:55
ADL 49-C	T172941-20	Soil	11/06/17 12:00	11/10/17 10:55
ADL 50-A	T172941-21	Soil	11/06/17 12:30	11/10/17 10:55
ADL 50-B	T172941-22	Soil	11/06/17 12:30	11/10/17 10:55
ADL 50-C	T172941-23	Soil	11/06/17 12:30	11/10/17 10:55
ADL 35-A	T172941-24	Soil	11/06/17 13:00	11/10/17 10:55
ADL 35-B	T172941-25	Soil	11/06/17 13:00	11/10/17 10:55
ADL 35-C	T172941-26	Soil	11/06/17 13:00	11/10/17 10:55

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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL 37-A	T172941-27	Soil	11/06/17 13:30	11/10/17 10:55
ADL 37-B	T172941-28	Soil	11/06/17 13:30	11/10/17 10:55
ADL 37-C	T172941-29	Soil	11/06/17 13:30	11/10/17 10:55
ADL 25-A	T172941-30	Soil	11/06/17 14:00	11/10/17 10:55
ADL 25-B	T172941-31	Soil	11/06/17 14:00	11/10/17 10:55
ADL 25-C	T172941-32	Soil	11/06/17 14:00	11/10/17 10:55
ADL 26-A	T172941-33	Soil	11/06/17 14:30	11/10/17 10:55
ADL 26-B	T172941-34	Soil	11/06/17 14:30	11/10/17 10:55
ADL 26-C	T172941-35	Soil	11/06/17 14:30	11/10/17 10:55
ADL 24-A	T172941-36	Soil	11/07/17 09:00	11/10/17 10:55
ADL 24-B	T172941-37	Soil	11/07/17 09:00	11/10/17 10:55
ADL 24-C	T172941-38	Soil	11/07/17 09:00	11/10/17 10:55
ADL 22-A	T172941-39	Soil	11/07/17 09:45	11/10/17 10:55
ADL 22-B	T172941-40	Soil	11/07/17 09:45	11/10/17 10:55
ADL 22-C	T172941-41	Soil	11/07/17 09:45	11/10/17 10:55
ADL 20-A	T172941-42	Soil	11/07/17 10:15	11/10/17 10:55
ADL 20-B	T172941-43	Soil	11/07/17 10:15	11/10/17 10:55
ADL 20-C	T172941-44	Soil	11/07/17 10:15	11/10/17 10:55
ADL 18-A	T172941-45	Soil	11/07/17 10:45	11/10/17 10:55
ADL 18-B	T172941-46	Soil	11/07/17 10:45	11/10/17 10:55
ADL 18-C	T172941-47	Soil	11/07/17 10:45	11/10/17 10:55
ADL 15-A	T172941-48	Soil	11/07/17 11:30	11/10/17 10:55
ADL 15-B	T172941-49	Soil	11/07/17 11:30	11/10/17 10:55
ADL 15-C	T172941-50	Soil	11/07/17 11:30	11/10/17 10:55
ADL 16-A	T172941-51	Soil	11/07/17 12:00	11/10/17 10:55
ADL 16-B	T172941-52	Soil	11/07/17 12:00	11/10/17 10:55

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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL 16-C	T172941-53	Soil	11/07/17 12:00	11/10/17 10:55
ADL 44-A	T172941-54	Soil	11/07/17 12:45	11/10/17 10:55
ADL 44-B	T172941-55	Soil	11/07/17 12:45	11/10/17 10:55
ADL 44-C	T172941-56	Soil	11/07/17 12:45	11/10/17 10:55
ADL 45-A	T172941-57	Soil	11/07/17 13:30	11/10/17 10:55
ADL 45-B	T172941-58	Soil	11/07/17 13:30	11/10/17 10:55
ADL 45-C	T172941-59	Soil	11/07/17 13:30	11/10/17 10:55
ADL 13-A	T172941-60	Soil	11/07/17 14:00	11/10/17 10:55
ADL 13-B	T172941-61	Soil	11/07/17 14:00	11/10/17 10:55
ADL 13-C	T172941-62	Soil	11/07/17 14:00	11/10/17 10:55
ADL 12-A	T172941-63	Soil	11/07/17 14:30	11/10/17 10:55
ADL 12-B	T172941-64	Soil	11/07/17 14:30	11/10/17 10:55
ADL 12-C	T172941-65	Soil	11/07/17 14:30	11/10/17 10:55
ADL 10-A	T172941-66	Soil	11/07/17 15:00	11/10/17 10:55
ADL 10-B	T172941-67	Soil	11/07/17 15:00	11/10/17 10:55
ADL 10-C	T172941-68	Soil	11/07/17 15:00	11/10/17 10:55
ADL 08-A	T172941-69	Soil	11/07/17 15:45	11/10/17 10:55
ADL 08-B	T172941-70	Soil	11/07/17 15:45	11/10/17 10:55
ADL 08-C	T172941-71	Soil	11/07/17 15:45	11/10/17 10:55

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West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

DETECTIONS SUMMARY

Sample ID: ADL 34-A

Laboratory ID: T172941-01

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	12	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 34-B

Laboratory ID: T172941-02

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	12	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 36-A

Laboratory ID: T172941-03

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	15	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 36-B

Laboratory ID: T172941-04

No Results Detected

Sample ID: ADL 36-C

Laboratory ID: T172941-05

No Results Detected

Sample ID: ADL 38-A

Laboratory ID: T172941-06

No Results Detected

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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

Sample ID: ADL 38-B

Laboratory ID: T172941-07

No Results Detected

Sample ID: ADL 38-C

Laboratory ID: T172941-08

No Results Detected

Sample ID: ADL 46-A

Laboratory ID: T172941-09

No Results Detected

Sample ID: ADL 46-B

Laboratory ID: T172941-10

No Results Detected

Sample ID: ADL 46-C

Laboratory ID: T172941-11

No Results Detected

Sample ID: ADL 47-A

Laboratory ID: T172941-12

No Results Detected

Sample ID: ADL 47-B

Laboratory ID: T172941-13

No Results Detected

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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

Sample ID: ADL 47-C

Laboratory ID: T172941-14

No Results Detected

Sample ID: ADL 48-A

Laboratory ID: T172941-15

No Results Detected

Sample ID: ADL 48-B

Laboratory ID: T172941-16

No Results Detected

Sample ID: ADL 48-C

Laboratory ID: T172941-17

No Results Detected

Sample ID: ADL 49-A

Laboratory ID: T172941-18

No Results Detected

Sample ID: ADL 49-B

Laboratory ID: T172941-19

No Results Detected

Sample ID: ADL 49-C

Laboratory ID: T172941-20

No Results Detected

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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

Sample ID: ADL 50-A

Laboratory ID: T172941-21

No Results Detected

Sample ID: ADL 50-B

Laboratory ID: T172941-22

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	25	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 50-C

Laboratory ID: T172941-23

No Results Detected

Sample ID: ADL 35-A

Laboratory ID: T172941-24

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

Sample ID: ADL 35-B

Laboratory ID: T172941-25

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	17	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 35-C

Laboratory ID: T172941-26

No Results Detected

Sample ID: ADL 37-A

Laboratory ID: T172941-27

No Results Detected

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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

Sample ID: ADL 37-B

Laboratory ID: T172941-28

No Results Detected

Sample ID: ADL 37-C

Laboratory ID: T172941-29

No Results Detected

Sample ID: ADL 25-A

Laboratory ID: T172941-30

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	21	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 25-B

Laboratory ID: T172941-31

No Results Detected

Sample ID: ADL 25-C

Laboratory ID: T172941-32

No Results Detected

Sample ID: ADL 26-A

Laboratory ID: T172941-33

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	130	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 26-B

Laboratory ID: T172941-34

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	390	3.0	mg/kg	EPA 6010b	

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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

Sample ID: ADL 26-C

Laboratory ID: T172941-35

No Results Detected

Sample ID: ADL 24-A

Laboratory ID: T172941-36

No Results Detected

Sample ID: ADL 24-B

Laboratory ID: T172941-37

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	18	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 24-C

Laboratory ID: T172941-38

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

Sample ID: ADL 22-A

Laboratory ID: T172941-39

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	12	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 22-B

Laboratory ID: T172941-40

No Results Detected

Sample ID: ADL 22-C

Laboratory ID: T172941-41

No Results Detected

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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

Sample ID: ADL 20-A

Laboratory ID: T172941-42

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	14	2.7	mg/kg	EPA 6010b	

Sample ID: ADL 20-B

Laboratory ID: T172941-43

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	21	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 20-C

Laboratory ID: T172941-44

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

Sample ID: ADL 18-A

Laboratory ID: T172941-45

No Results Detected

Sample ID: ADL 18-B

Laboratory ID: T172941-46

No Results Detected

Sample ID: ADL 18-C

Laboratory ID: T172941-47

No Results Detected

Sample ID: ADL 15-A

Laboratory ID: T172941-48

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	33	3.0	mg/kg	EPA 6010b	

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West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

Sample ID: ADL 15-B

Laboratory ID: T172941-49

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	24	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 15-C

Laboratory ID: T172941-50

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	53	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 16-A

Laboratory ID: T172941-51

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	22	2.7	mg/kg	EPA 6010b	

Sample ID: ADL 16-B

Laboratory ID: T172941-52

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	16	2.7	mg/kg	EPA 6010b	

Sample ID: ADL 16-C

Laboratory ID: T172941-53

No Results Detected

Sample ID: ADL 44-A

Laboratory ID: T172941-54

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

Sample ID: ADL 44-B

Laboratory ID: T172941-55

No Results Detected

SunStar Laboratories, Inc.

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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

Sample ID: ADL 44-C

Laboratory ID: T172941-56

No Results Detected

Sample ID: ADL 45-A

Laboratory ID: T172941-57

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	13	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 45-B

Laboratory ID: T172941-58

No Results Detected

Sample ID: ADL 45-C

Laboratory ID: T172941-59

No Results Detected

Sample ID: ADL 13-A

Laboratory ID: T172941-60

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

Sample ID: ADL 13-B

Laboratory ID: T172941-61

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	37	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 13-C

Laboratory ID: T172941-62

No Results Detected

SunStar Laboratories, Inc.

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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

Sample ID: ADL 12-A

Laboratory ID: T172941-63

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	24	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 12-B

Laboratory ID: T172941-64

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

Sample ID: ADL 12-C

Laboratory ID: T172941-65

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

Sample ID: ADL 10-A

Laboratory ID: T172941-66

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	81	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 10-B

Laboratory ID: T172941-67

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	23	2.7	mg/kg	EPA 6010b	

Sample ID: ADL 10-C

Laboratory ID: T172941-68

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	34	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 08-A

Laboratory ID: T172941-69

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	92	3.0	mg/kg	EPA 6010b	

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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

Sample ID: ADL 08-B

Laboratory ID: T172941-70

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	25	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 08-C

Laboratory ID: T172941-71

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

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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 34-A
T172941-01 (Soil)

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

Metals by EPA 6010B

Lead	12	3.0	mg/kg	1	7111034	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 34-B
T172941-02 (Soil)

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

Metals by EPA 6010B

Lead	12	3.0	mg/kg	1	7111034	11/10/17	11/13/17	EPA 6010b	
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SunStar Laboratories, Inc.

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2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 36-A
T172941-03 (Soil)

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

Metals by EPA 6010B

Lead	15	3.0	mg/kg	1	7111034	11/10/17	11/13/17	EPA 6010b	
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SunStar Laboratories, Inc.

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2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 36-B
T172941-04 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111034	11/10/17	11/13/17	EPA 6010b	
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SunStar Laboratories, Inc.

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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 36-C
T172941-05 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111034	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 38-A
T172941-06 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111034	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 38-B
T172941-07 (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	7111034	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 38-C
T172941-08 (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	7111034	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 46-A
T172941-09 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111034	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 46-B
T172941-10 (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	7111034	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 46-C
T172941-11 (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	7111034	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 47-A
T172941-12 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111034	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 47-B
T172941-13 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111034	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 47-C
T172941-14 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111034	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 48-A
T172941-15 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111034	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 48-B
T172941-16 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111034	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 48-C
T172941-17 (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	7111034	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 49-A
T172941-18 (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	7111034	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 49-B
T172941-19 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111034	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 49-C
T172941-20 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111034	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 50-A
T172941-21 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111035	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 50-B
T172941-22 (Soil)

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

Metals by EPA 6010B

Lead	25	3.0	mg/kg	1	7111035	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 50-C
T172941-23 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111035	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 35-A
T172941-24 (Soil)

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

Metals by EPA 6010B

Lead	19	3.0	mg/kg	1	7111035	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 35-B
T172941-25 (Soil)

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

Metals by EPA 6010B

Lead	17	3.0	mg/kg	1	7111035	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 35-C
T172941-26 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111035	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 37-A
T172941-27 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111035	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 37-B
T172941-28 (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	7111035	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 37-C
T172941-29 (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	7111035	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 25-A
T172941-30 (Soil)

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

Metals by EPA 6010B

Lead	21	3.0	mg/kg	1	7111035	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 25-B
T172941-31 (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	7111035	11/10/17	11/13/17	EPA 6010b	
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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 25-C
T172941-32 (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	7111035	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 26-A
T172941-33 (Soil)

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

Metals by EPA 6010B

Lead	130	3.0	mg/kg	1	7111035	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 26-B
T172941-34 (Soil)

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

Metals by EPA 6010B

Lead	390	3.0	mg/kg	1	7111035	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 26-C
T172941-35 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111035	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 24-A
T172941-36 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111035	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 24-B
T172941-37 (Soil)

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

Metals by EPA 6010B

Lead	18	3.0	mg/kg	1	7111035	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 24-C
T172941-38 (Soil)

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

Metals by EPA 6010B

Lead	20	3.0	mg/kg	1	7111035	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 22-A
T172941-39 (Soil)

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

Metals by EPA 6010B

Lead	12	3.0	mg/kg	1	7111035	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 22-B
T172941-40 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111035	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 22-C
T172941-41 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111033	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 20-A
T172941-42 (Soil)

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

Metals by EPA 6010B

Lead	14	2.7	mg/kg	1	7111033	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 20-B
T172941-43 (Soil)

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

Metals by EPA 6010B

Lead	21	3.0	mg/kg	1	7111033	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 20-C
T172941-44 (Soil)

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

Metals by EPA 6010B

Lead	20	3.0	mg/kg	1	7111033	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 18-A
T172941-45 (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	7111033	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 18-B
T172941-46 (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	7111033	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 18-C
T172941-47 (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	7111033	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 15-A
T172941-48 (Soil)

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

Metals by EPA 6010B

Lead	33	3.0	mg/kg	1	7111033	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 15-B
T172941-49 (Soil)

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

Metals by EPA 6010B

Lead	24	3.0	mg/kg	1	7111033	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 15-C
T172941-50 (Soil)

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

Metals by EPA 6010B

Lead	53	3.0	mg/kg	1	7111033	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 16-A
T172941-51 (Soil)

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

Metals by EPA 6010B

Lead	22	2.7	mg/kg	1	7111033	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 16-B
T172941-52 (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	2.7	mg/kg	1	7111033	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 16-C
T172941-53 (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	7111033	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 44-A
T172941-54 (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	7111033	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 44-B
T172941-55 (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	7111033	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 44-C
T172941-56 (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	7111033	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 45-A
T172941-57 (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	7111033	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 45-B
T172941-58 (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	7111033	11/10/17	11/13/17	EPA 6010b	
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949.297.5027 Fax

Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 45-C
T172941-59 (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	7111033	11/10/17	11/13/17	EPA 6010b	
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SunStar Laboratories, Inc.

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Lisa Nguyen, Project Manager Assistant



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

Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 13-A
T172941-60 (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	7111033	11/10/17	11/13/17	EPA 6010b	
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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 13-B
T172941-61 (Soil)

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

Metals by EPA 6010B

Lead	37	3.0	mg/kg	1	7111038	11/10/17	11/13/17	EPA 6010b	
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Lisa Nguyen, Project Manager Assistant



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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 13-C
T172941-62 (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	2.7	mg/kg	1	7111038	11/10/17	11/13/17	EPA 6010b	
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Lisa Nguyen, Project Manager Assistant



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949.297.5020 Phone
949.297.5027 Fax

Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 12-A
T172941-63 (Soil)

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

Metals by EPA 6010B

Lead	24	3.0	mg/kg	1	7111038	11/10/17	11/13/17	EPA 6010b	
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Lisa Nguyen, Project Manager Assistant



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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 12-B
T172941-64 (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	7111038	11/10/17	11/13/17	EPA 6010b	
-------------	-----------	-----	-------	---	---------	----------	----------	-----------	--

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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 12-C
T172941-65 (Soil)

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

SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	16	3.0	mg/kg	1	7111038	11/10/17	11/13/17	EPA 6010b	
-------------	-----------	-----	-------	---	---------	----------	----------	-----------	--

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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 10-A
T172941-66 (Soil)

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

Metals by EPA 6010B

Lead	81	3.0	mg/kg	1	7111038	11/10/17	11/13/17	EPA 6010b	
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Lisa Nguyen, Project Manager Assistant



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Lake Forest, California 92630
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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 10-B
T172941-67 (Soil)

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

Metals by EPA 6010B

Lead	23	2.7	mg/kg	1	7111038	11/10/17	11/13/17	EPA 6010b	
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Lisa Nguyen, Project Manager Assistant



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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 10-C
T172941-68 (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	7111038	11/10/17	11/13/17	EPA 6010b	
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Lisa Nguyen, Project Manager Assistant



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Lake Forest, California 92630
949.297.5020 Phone
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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 08-A
T172941-69 (Soil)

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

Metals by EPA 6010B

Lead	92	3.0	mg/kg	1	7111038	11/10/17	11/13/17	EPA 6010b	
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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 08-B
T172941-70 (Soil)

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

Metals by EPA 6010B

Lead	25	3.0	mg/kg	1	7111038	11/10/17	11/13/17	EPA 6010b	
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SunStar Laboratories, Inc.

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Lisa Nguyen, Project Manager Assistant



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949.297.5027 Fax

Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

ADL 08-C
T172941-71 (Soil)

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

Metals by EPA 6010B

Lead	22	3.0	mg/kg	1	7111038	11/10/17	11/13/17	EPA 6010b	
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Lake Forest, California 92630
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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

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 7111033 - EPA 3050B

Blank (7111033-BLK1)

Prepared: 11/10/17 Analyzed: 11/13/17

Lead ND 3.0 mg/kg

LCS (7111033-BS1)

Prepared: 11/10/17 Analyzed: 11/13/17

Lead 119 3.0 mg/kg 100 119 75-125

Matrix Spike (7111033-MS1)

Source: T172941-41

Prepared: 11/10/17 Analyzed: 11/13/17

Lead 128 3.0 mg/kg 97.1 ND 132 75-125 QR-04

Matrix Spike Dup (7111033-MSD1)

Source: T172941-41

Prepared: 11/10/17 Analyzed: 11/13/17

Lead 120 3.0 mg/kg 100 ND 120 75-125 6.27 20

Batch 7111034 - EPA 3050B

Blank (7111034-BLK1)

Prepared: 11/10/17 Analyzed: 11/13/17

Lead ND 3.0 mg/kg

LCS (7111034-BS1)

Prepared: 11/10/17 Analyzed: 11/13/17

Lead 104 3.0 mg/kg 100 104 75-125

Matrix Spike (7111034-MS1)

Source: T172941-01

Prepared: 11/10/17 Analyzed: 11/13/17

Lead 113 3.0 mg/kg 98.0 11.8 103 75-125

Matrix Spike Dup (7111034-MSD1)

Source: T172941-01

Prepared: 11/10/17 Analyzed: 11/13/17

Lead 124 3.0 mg/kg 98.0 11.8 115 75-125 9.31 20

Batch 7111035 - EPA 3050B

Blank (7111035-BLK1)

Prepared: 11/10/17 Analyzed: 11/13/17

Lead ND 3.0 mg/kg

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949.297.5020 Phone
949.297.5027 Fax

Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

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 7111035 - EPA 3050B

LCS (7111035-BS1)				Prepared: 11/10/17 Analyzed: 11/13/17						
Lead	109	3.0	mg/kg	100		109	75-125			
Matrix Spike (7111035-MS1)				Source: T172941-21 Prepared: 11/10/17 Analyzed: 11/13/17						
Lead	131	3.0	mg/kg	98.0	ND	133	75-125			QM-05
Matrix Spike Dup (7111035-MSD1)				Source: T172941-21 Prepared: 11/10/17 Analyzed: 11/13/17						
Lead	124	3.0	mg/kg	91.7	ND	135	75-125	5.41	20	QM-05

Batch 7111038 - EPA 3051

Blank (7111038-BLK1)				Prepared: 11/10/17 Analyzed: 11/13/17						
Lead	ND	3.0	mg/kg							
LCS (7111038-BS1)				Prepared: 11/10/17 Analyzed: 11/13/17						
Lead	106	3.0	mg/kg	100		106	75-125			
Matrix Spike (7111038-MS1)				Source: T172943-08 Prepared: 11/10/17 Analyzed: 11/13/17						
Lead	124	3.0	mg/kg	98.0	ND	127	75-125			QM-05
Matrix Spike Dup (7111038-MSD1)				Source: T172943-08 Prepared: 11/10/17 Analyzed: 11/13/17						
Lead	118	3.0	mg/kg	92.6	ND	127	75-125	5.44	20	QM-05

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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
11/16/17 11:44

Notes and Definitions

- QR-04 The percent recovery and/or RPD was outside acceptance criteria. Results accepted based upon percent recovery results in duplicate QC sample and the CCV and CCB results.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
- 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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Lisa Nguyen, Project Manager Assistant

Chain of Custody Record

**SunStar
Laboratories Inc.**

25712 Commerce Centre Drive, Lake Forest, CA 92630
949-297-5020

Client: Blackburn Consulting

Address: _____

Phone: 707 537 5776 Fax: _____

Project Manager: Ryan Schmidt

Date: 11/9/17 Page: 1 of 4

Project Name: SP99/120 Interchange

Collector: _____ Client Project #: _____

Batch #: 7192941 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)	6020 ICP-MS Metals	Laboratory ID #	Comments/Preservative	
ADL 34-A,B	11/6/17	9:00	Soil	Glass											01	02	
ADL 36-A,B,C		9:30											/		03	04	05
ADL 38-A,B,C		10:00											/		06	07	08
ADL 46-A,B,C		10:30											/		09	10	11
ADL 47-A,B,C		11:00											/		12	13	14
ADL 48-A,B,C		11:30											/		15	16	17
ADL 49-A,B,C		12:00											/		18	19	20
ADL 50-A,B,C		12:30											/		21	22	23
ADL 35-A,B,C		13:00											/		24	25	26
ADL 37-A,B,C		13:30											/		27	28	29
ADL 25-A,B,C		14:00											/		30	31	32
ADL 26-A,B,C		14:30											/		33	34	35
Relinquished by: (signature) _____ Date / Time _____ Received by: (signature) _____ Date / Time _____ Total # of containers _____																	
Relinquished by: (signature) _____ Date / Time _____ Received by: (signature) _____ Date / Time _____ Chain of Custody seals Y/N/A _____ Seals intact? Y/N/A _____ Received good condition/cold _____ Turn around time: _____																	
Notes DISCRETE SAMPLES! Hold samples																	

Sample disposal instructions: Disposal @ \$2.00 each

Return to client

Pickup

COC 160740

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE
25712 Commerce Drive, Lake Forest, CA 92630
949-297-5020

Client: Blackburn Consulting
Address: _____
Phone: 707 537 5774 Fax: _____
Project Manager: Ryan Schmidt

Date: 11/9/17 Page: 2 of 4
Project Name: SR99120 Inheritance
Collector: Client Project #: 2998.X
Batch #: EDF #:

[illegible]

Sample disposal instructions: Disposal @ \$2.00 each _____

Return to client _____

Pickup _____

COC 160741

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: 7172941

Client Name: BLACKBURN CON. Project: SR 99 / 120 INTERCHANGE

Delivered by: ☐ Client ☐ SunStar Courier ☒ GSO ☐ FedEx ☐ Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: SUNNY Date/Time Lab Received: 11-10-17 / 10:55

Total number of coolers received: 2

Temperature: Cooler #1	<u>5.5</u>	°C +/- the CF (- 0.2°C) =	<u>5.3</u>	°C corrected temperature
Temperature: Cooler #2	<u>5.6</u>	°C +/- the CF (- 0.2°C) =	<u>5.4</u>	°C corrected temperature
Temperature: Cooler #3		°C +/- the CF (- 0.2°C) =		°C corrected temperature

Temperature criteria = ≤ 6°C (no frozen containers)	Within criteria?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
--	------------------	---

If NO:

Samples received on ice?

☐ Yes

☐ No →

Complete Non-Conformance Sheet

If on ice, samples received same day collected?

☐ Yes → Acceptable

☐ No →

Complete Non-Conformance Sheet

Custody seals intact on cooler/sample

☒ Yes ☐ No* ☐ N/A

Sample containers intact

☒ Yes ☐ No*

Sample labels match Chain of Custody IDs

☒ 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 11-10-17

Comments:

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # 7172941

▪ **COOLERS**

- ☐ Not Received (received COC only)
- ☐ Leaking/Damaged
- ☐ Other:

▪ **CUSTODY SEALS**

- ☐ None
- ☐ Not Intact

▪ **TEMPERATURE (Temp criteria = $\leq 6^{\circ}\text{C}$)**

- ☐ Cooler/Sample Temp(s)
- ☐ Temperature Blank(s)

▪ **CHAIN OF CUSTODY (COC)**

- ☐ Not relinquished by client; No date/time relinquished
- ☐ Incomplete information provided
- ☐ COC not received – notify PM

▪ **CONTAINERS**

- ☐ Leaking ☐ Broken
- ☐ Extra ☐ Missing

▪ **LABELS**

- ☐ Not the same sample ID / info as on the COC
- ☐ Incomplete Information
- ☐ Markings/Info illegible

▪ **SAMPLES**

- ☐ Samples **NOT RECEIVED** but listed on COC
- ☐ Samples received but **NOT LISTED** on COC
- ☐ Logged based on Label Information and not COC
- ☐ Logged according to Work Plan and not COC
- ☐ Logged in, **ON HOLD** until further notice
- ☐ Insufficient quantities for analysis
- ☐ Improper container used
- ☐ Mislabeled as to tests, preservatives, etc.
- ☐ Holding time expired – list sample ID and test
- ☐ Not preserved/Improper preservative used
- ☐ Without Labels, no information on containers
- ☐ Other

Comments: COC WAS FILLED OUT IMPROPERLY.

Sample fractioning only if broken container compromises other samples or if out of temp reading impacts more than one cooler

Fraction													Preser.
VOA													

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.

Project: SR99/120 Interchange

Project Manager: Lisa Nguyen

Project Number: [none]

Report To:

Blackburn Consulting-West Sac.

Ryan Schmidt

2491 Boatman Ave.

West Sacramento, CA -

Date Due: 11/17/17 17:00 (5 day TAT)

Received By: Sunny Lounethone

Date Received: 11/10/17 10:55

Logged In By: Sunny Lounethone

Date Logged In: 11/10/17 12:00

Samples Received at: 5.3°C

Custody Seals Yes Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir No

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------

T172941-01 ADL 34-A [Soil] Sampled 11/06/17 09:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:00
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T172941-02 ADL 34-B [Soil] Sampled 11/06/17 09:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:00
---------	----------------	---	----------------

T172941-03 ADL 36-A [Soil] Sampled 11/06/17 09:30 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:30
---------	----------------	---	----------------

T172941-04 ADL 36-B [Soil] Sampled 11/06/17 09:30 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:30
---------	----------------	---	----------------

T172941-05 ADL 36-C [Soil] Sampled 11/06/17 09:30 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:30
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T172941-06 ADL 38-A [Soil] Sampled 11/06/17 10:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 10:00
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T172941-07 ADL 38-B [Soil] Sampled 11/06/17 10:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 10:00
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WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-08 ADL 38-C [Soil] Sampled 11/06/17 10:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 10:00	
T172941-09 ADL 46-A [Soil] Sampled 11/06/17 10:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 10:30	
T172941-10 ADL 46-B [Soil] Sampled 11/06/17 10:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 10:30	
T172941-11 ADL 46-C [Soil] Sampled 11/06/17 10:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 10:30	
T172941-12 ADL 47-A [Soil] Sampled 11/06/17 11:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:00	
T172941-13 ADL 47-B [Soil] Sampled 11/06/17 11:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:00	
T172941-14 ADL 47-C [Soil] Sampled 11/06/17 11:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:00	
T172941-15 ADL 48-A [Soil] Sampled 11/06/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:30	
T172941-16 ADL 48-B [Soil] Sampled 11/06/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:30	
T172941-17 ADL 48-C [Soil] Sampled 11/06/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:30	
T172941-18 ADL 49-A [Soil] Sampled 11/06/17 12:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 12:00	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-19 ADL 49-B [Soil] Sampled 11/06/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:00	
T172941-20 ADL 49-C [Soil] Sampled 11/06/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:00	
T172941-21 ADL 50-A [Soil] Sampled 11/06/17 12:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:30	
T172941-22 ADL 50-B [Soil] Sampled 11/06/17 12:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:30	
T172941-23 ADL 50-C [Soil] Sampled 11/06/17 12:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:30	
T172941-24 ADL 35-A [Soil] Sampled 11/06/17 13:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:00	
T172941-25 ADL 35-B [Soil] Sampled 11/06/17 13:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:00	
T172941-26 ADL 35-C [Soil] Sampled 11/06/17 13:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:00	
T172941-27 ADL 37-A [Soil] Sampled 11/06/17 13:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:30	
T172941-28 ADL 37-B [Soil] Sampled 11/06/17 13:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:30	
T172941-29 ADL 37-C [Soil] Sampled 11/06/17 13:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:30	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-30 ADL 25-A [Soil] Sampled 11/06/17 14:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 14:00	
T172941-31 ADL 25-B [Soil] Sampled 11/06/17 14:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 14:00	
T172941-32 ADL 25-C [Soil] Sampled 11/06/17 14:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 14:00	
T172941-33 ADL 26-A [Soil] Sampled 11/06/17 14:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 14:30	
T172941-34 ADL 26-B [Soil] Sampled 11/06/17 14:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 14:30	
T172941-35 ADL 26-C [Soil] Sampled 11/06/17 14:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 14:30	
T172941-36 ADL 24-A [Soil] Sampled 11/07/17 09:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 09:00	
T172941-37 ADL 24-B [Soil] Sampled 11/07/17 09:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 09:00	
T172941-38 ADL 24-C [Soil] Sampled 11/07/17 09:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 09:00	
T172941-39 ADL 22-A [Soil] Sampled 11/07/17 09:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 09:45	
T172941-40 ADL 22-B [Soil] Sampled 11/07/17 09:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 09:45	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-41 ADL 22-C [Soil] Sampled 11/07/17 09:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 09:45	
T172941-42 ADL 20-A [Soil] Sampled 11/07/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 10:15	
T172941-43 ADL 20-B [Soil] Sampled 11/07/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 10:15	
T172941-44 ADL 20-C [Soil] Sampled 11/07/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 10:15	
T172941-45 ADL 18-A [Soil] Sampled 11/07/17 10:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 10:45	
T172941-46 ADL 18-B [Soil] Sampled 11/07/17 10:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 10:45	
T172941-47 ADL 18-C [Soil] Sampled 11/07/17 10:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 10:45	
T172941-48 ADL 15-A [Soil] Sampled 11/07/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 11:30	
T172941-49 ADL 15-B [Soil] Sampled 11/07/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 11:30	
T172941-50 ADL 15-C [Soil] Sampled 11/07/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 11:30	
T172941-51 ADL 16-A [Soil] Sampled 11/07/17 12:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 12:00	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-52 ADL 16-B [Soil] Sampled 11/07/17 12:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 12:00	
T172941-53 ADL 16-C [Soil] Sampled 11/07/17 12:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 12:00	
T172941-54 ADL 44-A [Soil] Sampled 11/07/17 12:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 12:45	
T172941-55 ADL 44-B [Soil] Sampled 11/07/17 12:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 12:45	
T172941-56 ADL 44-C [Soil] Sampled 11/07/17 12:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 12:45	
T172941-57 ADL 45-A [Soil] Sampled 11/07/17 13:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 13:30	
T172941-58 ADL 45-B [Soil] Sampled 11/07/17 13:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 13:30	
T172941-59 ADL 45-C [Soil] Sampled 11/07/17 13:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 13:30	
T172941-60 ADL 13-A [Soil] Sampled 11/07/17 14:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 14:00	
T172941-61 ADL 13-B [Soil] Sampled 11/07/17 14:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 14:00	
T172941-62 ADL 13-C [Soil] Sampled 11/07/17 14:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 14:00	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-63 ADL 12-A [Soil] Sampled 11/07/17 14:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 14:30	
T172941-64 ADL 12-B [Soil] Sampled 11/07/17 14:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 14:30	
T172941-65 ADL 12-C [Soil] Sampled 11/07/17 14:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 14:30	
T172941-66 ADL 10-A [Soil] Sampled 11/07/17 15:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 15:00	
T172941-67 ADL 10-B [Soil] Sampled 11/07/17 15:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 15:00	
T172941-68 ADL 10-C [Soil] Sampled 11/07/17 15:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 15:00	
T172941-69 ADL 08-A [Soil] Sampled 11/07/17 15:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 15:45	
T172941-70 ADL 08-B [Soil] Sampled 11/07/17 15:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 15:45	
T172941-71 ADL 08-C [Soil] Sampled 11/07/17 15:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 15:45	



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17 November 2017

Ryan Schmidt
Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento, CA -
RE: SR99/120 Interchange

Enclosed are the results of analyses for samples received by the laboratory on 11/10/17 10:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Nguyen
Project Manager Assistant

Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL 07-A	T172943-01	Soil	11/08/17 09:00	11/10/17 10:55
ADL 07-B	T172943-02	Soil	11/08/17 09:00	11/10/17 10:55
ADL 07-C	T172943-03	Soil	11/08/17 09:00	11/10/17 10:55
ADL 09-A	T172943-04	Soil	11/08/17 09:45	11/10/17 10:55
ADL 09-B	T172943-05	Soil	11/08/17 09:45	11/10/17 10:55
ADL 09-C	T172943-06	Soil	11/08/17 09:45	11/10/17 10:55
ADL 11-A	T172943-07	Soil	11/08/17 10:30	11/10/17 10:55
ADL 11-B	T172943-08	Soil	11/08/17 10:30	11/10/17 10:55
ADL 11-C	T172943-09	Soil	11/08/17 10:30	11/10/17 10:55
ADL 39-A	T172943-10	Soil	11/08/17 11:15	11/10/17 10:55
ADL 39-B	T172943-11	Soil	11/08/17 11:15	11/10/17 10:55
ADL 39-C	T172943-12	Soil	11/08/17 11:15	11/10/17 10:55
ADL 41-A	T172943-13	Soil	11/08/17 12:00	11/10/17 10:55
ADL 41-B	T172943-14	Soil	11/08/17 12:00	11/10/17 10:55
ADL 41-C	T172943-15	Soil	11/08/17 12:00	11/10/17 10:55
ADL 43-A	T172943-16	Soil	11/08/17 12:45	11/10/17 10:55
ADL 43-B	T172943-17	Soil	11/08/17 12:45	11/10/17 10:55
ADL 43-C	T172943-18	Soil	11/08/17 12:45	11/10/17 10:55
ADL 40-A	T172943-19	Soil	11/08/17 13:30	11/10/17 10:55
ADL 40-B	T172943-20	Soil	11/08/17 13:30	11/10/17 10:55
ADL 40-C	T172943-21	Soil	11/08/17 13:30	11/10/17 10:55
ADL 42-A	T172943-22	Soil	11/08/17 14:15	11/10/17 10:55
ADL 42-B	T172943-23	Soil	11/08/17 14:15	11/10/17 10:55
ADL 42-C	T172943-24	Soil	11/08/17 14:15	11/10/17 10:55
ADL 14-A	T172943-25	Soil	11/08/17 15:00	11/10/17 10:55
ADL 14-B	T172943-26	Soil	11/08/17 15:00	11/10/17 10:55

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.



Lisa Nguyen, Project Manager Assistant

Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL 14-C	T172943-27	Soil	11/08/17 15:00	11/10/17 10:55
ADL 17-A	T172943-28	Soil	11/08/17 15:45	11/10/17 10:55
ADL 17-B	T172943-29	Soil	11/08/17 15:45	11/10/17 10:55
ADL 17-C	T172943-30	Soil	11/08/17 15:45	11/10/17 10:55
ADL 19-A	T172943-31	Soil	11/09/17 09:00	11/10/17 10:55
ADL 19-B	T172943-32	Soil	11/09/17 09:00	11/10/17 10:55
ADL 19-C	T172943-33	Soil	11/09/17 09:00	11/10/17 10:55
ADL 21-A	T172943-34	Soil	11/09/17 09:45	11/10/17 10:55
ADL 21-B	T172943-35	Soil	11/09/17 09:45	11/10/17 10:55
ADL 21-C	T172943-36	Soil	11/09/17 09:45	11/10/17 10:55
ADL 23-A	T172943-37	Soil	11/09/17 10:30	11/10/17 10:55
ADL 23-B	T172943-38	Soil	11/09/17 10:30	11/10/17 10:55
ADL 23-C	T172943-39	Soil	11/09/17 10:30	11/10/17 10:55
ADL 28-A	T172943-40	Soil	11/09/17 11:15	11/10/17 10:55
ADL 28-B	T172943-41	Soil	11/09/17 11:15	11/10/17 10:55
ADL 28-C	T172943-42	Soil	11/09/17 11:15	11/10/17 10:55
ADL 29-A	T172943-43	Soil	11/09/17 12:00	11/10/17 10:55
ADL 29-B	T172943-44	Soil	11/09/17 12:00	11/10/17 10:55
ADL 29-C	T172943-45	Soil	11/09/17 12:00	11/10/17 10:55
ADL 27-A	T172943-46	Soil	11/09/17 12:45	11/10/17 10:55
ADL 27-B	T172943-47	Soil	11/09/17 12:45	11/10/17 10:55
ADL 27-C	T172943-48	Soil	11/09/17 12:45	11/10/17 10:55
ADL 30-A	T172943-49	Soil	11/09/17 09:20	11/10/17 10:55
ADL 30-B	T172943-50	Soil	11/09/17 09:20	11/10/17 10:55
ADL 30-C	T172943-51	Soil	11/09/17 09:20	11/10/17 10:55
ADL 31-A	T172943-52	Soil	11/09/17 10:15	11/10/17 10:55

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.

Lisa Nguyen, Project Manager Assistant



25712 Commercentre Drive
Lake Forest, California 92630
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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL 31-B	T172943-53	Soil	11/09/17 10:15	11/10/17 10:55
ADL 31-C	T172943-54	Soil	11/09/17 10:15	11/10/17 10:55
ADL 32-A	T172943-55	Soil	11/09/17 10:50	11/10/17 10:55
ADL 32-B	T172943-56	Soil	11/09/17 10:50	11/10/17 10:55
ADL 32-C	T172943-57	Soil	11/09/17 10:50	11/10/17 10:55
ADL 33-A	T172943-58	Soil	11/09/17 11:35	11/10/17 10:55
ADL 33-B	T172943-59	Soil	11/09/17 11:35	11/10/17 10:55
ADL 33-C	T172943-60	Soil	11/09/17 11:35	11/10/17 10:55

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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.

Lisa Nguyen, Project Manager Assistant

Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

DETECTIONS SUMMARY

Sample ID: ADL 07-A

Laboratory ID: T172943-01

No Results Detected

Sample ID: ADL 07-B

Laboratory ID: T172943-02

No Results Detected

Sample ID: ADL 07-C

Laboratory ID: T172943-03

No Results Detected

Sample ID: ADL 09-A

Laboratory ID: T172943-04

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Lead	17	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 09-B

Laboratory ID: T172943-05

No Results Detected

Sample ID: ADL 09-C

Laboratory ID: T172943-06

No Results Detected

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.



Lisa Nguyen, Project Manager Assistant

Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

Sample ID: ADL 11-A

Laboratory ID: T172943-07

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	26	3.0		mg/kg	EPA 6010b	

Sample ID: ADL 11-B

Laboratory ID: T172943-08

No Results Detected

Sample ID: ADL 11-C

Laboratory ID: T172943-09

No Results Detected

Sample ID: ADL 39-A

Laboratory ID: T172943-10

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	10	3.0		mg/kg	EPA 6010b	

Sample ID: ADL 39-B

Laboratory ID: T172943-11

No Results Detected

Sample ID: ADL 39-C

Laboratory ID: T172943-12

No Results Detected

Sample ID: ADL 41-A

Laboratory ID: T172943-13

No Results Detected

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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

Sample ID: ADL 41-B

Laboratory ID: T172943-14

No Results Detected

Sample ID: ADL 41-C

Laboratory ID: T172943-15

No Results Detected

Sample ID: ADL 43-A

Laboratory ID: T172943-16

No Results Detected

Sample ID: ADL 43-B

Laboratory ID: T172943-17

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Lead	12	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 43-C

Laboratory ID: T172943-18

No Results Detected

Sample ID: ADL 40-A

Laboratory ID: T172943-19

No Results Detected

Sample ID: ADL 40-B

Laboratory ID: T172943-20

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Lead	9.9	3.0	mg/kg	EPA 6010b	

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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

Sample ID: ADL 40-C

Laboratory ID: T172943-21

No Results Detected

Sample ID: ADL 42-A

Laboratory ID: T172943-22

No Results Detected

Sample ID: ADL 42-B

Laboratory ID: T172943-23

No Results Detected

Sample ID: ADL 42-C

Laboratory ID: T172943-24

No Results Detected

Sample ID: ADL 14-A

Laboratory ID: T172943-25

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Lead	130	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 14-B

Laboratory ID: T172943-26

No Results Detected

Sample ID: ADL 14-C

Laboratory ID: T172943-27

No Results Detected

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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

Sample ID: ADL 17-A

Laboratory ID: T172943-28

No Results Detected

Sample ID: ADL 17-B

Laboratory ID: T172943-29

No Results Detected

Sample ID: ADL 17-C

Laboratory ID: T172943-30

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	26	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 19-A

Laboratory ID: T172943-31

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	78	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 19-B

Laboratory ID: T172943-32

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	41	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 19-C

Laboratory ID: T172943-33

No Results Detected

Sample ID: ADL 21-A

Laboratory ID: T172943-34

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	18	3.0	mg/kg	EPA 6010b	

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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
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Sample ID: ADL 21-B

Laboratory ID: T172943-35

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	35	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 21-C

Laboratory ID: T172943-36

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

Sample ID: ADL 23-A

Laboratory ID: T172943-37

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	15	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 23-B

Laboratory ID: T172943-38

No Results Detected

Sample ID: ADL 23-C

Laboratory ID: T172943-39

No Results Detected

Sample ID: ADL 28-A

Laboratory ID: T172943-40

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	13	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 28-B

Laboratory ID: T172943-41

No Results Detected

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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

Sample ID: ADL 28-C

Laboratory ID: T172943-42

No Results Detected

Sample ID: ADL 29-A

Laboratory ID: T172943-43

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	52	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 29-B

Laboratory ID: T172943-44

No Results Detected

Sample ID: ADL 29-C

Laboratory ID: T172943-45

No Results Detected

Sample ID: ADL 27-A

Laboratory ID: T172943-46

No Results Detected

Sample ID: ADL 27-B

Laboratory ID: T172943-47

No Results Detected

Sample ID: ADL 27-C

Laboratory ID: T172943-48

No Results Detected

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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

Sample ID: ADL 30-A

Laboratory ID: T172943-49

No Results Detected

Sample ID: ADL 30-B

Laboratory ID: T172943-50

No Results Detected

Sample ID: ADL 30-C

Laboratory ID: T172943-51

No Results Detected

Sample ID: ADL 31-A

Laboratory ID: T172943-52

No Results Detected

Sample ID: ADL 31-B

Laboratory ID: T172943-53

No Results Detected

Sample ID: ADL 31-C

Laboratory ID: T172943-54

No Results Detected

Sample ID: ADL 32-A

Laboratory ID: T172943-55

Analyte
Lead

Result
26

Reporting
Limit

3.0

Units
mg/kg

Method
EPA 6010b

Notes

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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

Sample ID: ADL 32-B

Laboratory ID: T172943-56

No Results Detected

Sample ID: ADL 32-C

Laboratory ID: T172943-57

No Results Detected

Sample ID: ADL 33-A

Laboratory ID: T172943-58

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Lead	12	2.7	mg/kg	EPA 6010b	

Sample ID: ADL 33-B

Laboratory ID: T172943-59

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Lead	11	3.0	mg/kg	EPA 6010b	

Sample ID: ADL 33-C

Laboratory ID: T172943-60

No Results Detected

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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 07-A
T172943-01 (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	2.7	mg/kg	1	7111038	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 07-B
T172943-02 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111038	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 07-C
T172943-03 (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	7111038	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 09-A
T172943-04 (Soil)

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

Metals by EPA 6010B

Lead	17	3.0	mg/kg	1	7111038	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
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ADL 09-B
T172943-05 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111038	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 09-C
T172943-06 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111038	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 11-A
T172943-07 (Soil)

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

Metals by EPA 6010B

Lead	26	3.0	mg/kg	1	7111038	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 11-B
T172943-08 (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	7111038	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 11-C
T172943-09 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111038	11/10/17	11/13/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 39-A
T172943-10 (Soil)

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

Metals by EPA 6010B

Lead	10	3.0	mg/kg	1	7111330	11/13/17	11/15/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 39-B
T172943-11 (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	7111330	11/13/17	11/15/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 39-C
T172943-12 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111330	11/13/17	11/15/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 41-A
T172943-13 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111330	11/13/17	11/15/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 41-B
T172943-14 (Soil)

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

Metals by EPA 6010B

Lead	ND	2.7	mg/kg	1	7111330	11/13/17	11/15/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 41-C
T172943-15 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111330	11/13/17	11/15/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 43-A
T172943-16 (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	7111330	11/13/17	11/15/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 43-B
T172943-17 (Soil)

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

Metals by EPA 6010B

Lead	12	3.0	mg/kg	1	7111330	11/13/17	11/15/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 43-C
T172943-18 (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	7111330	11/13/17	11/15/17	EPA 6010b	
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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 40-A
T172943-19 (Soil)

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

Metals by EPA 6010B

Lead	ND	2.7	mg/kg	1	7111330	11/13/17	11/15/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 40-B
T172943-20 (Soil)

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

Metals by EPA 6010B

Lead	9.9	3.0	mg/kg	1	7111330	11/13/17	11/15/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 40-C
T172943-21 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111330	11/13/17	11/15/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 42-A
T172943-22 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111330	11/13/17	11/15/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 42-B
T172943-23 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111330	11/13/17	11/15/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 42-C
T172943-24 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111330	11/13/17	11/15/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 14-A
T172943-25 (Soil)

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

Metals by EPA 6010B

Lead	130	3.0	mg/kg	1	7111330	11/13/17	11/15/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 14-B
T172943-26 (Soil)

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

Metals by EPA 6010B

Lead	ND	2.7	mg/kg	1	7111330	11/13/17	11/15/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 14-C
T172943-27 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111332	11/13/17	11/14/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 17-A
T172943-28 (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	7111332	11/13/17	11/14/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 17-B
T172943-29 (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	7111332	11/13/17	11/14/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 17-C
T172943-30 (Soil)

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

Metals by EPA 6010B

Lead	26	3.0	mg/kg	1	7111332	11/13/17	11/14/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 19-A
T172943-31 (Soil)

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

Metals by EPA 6010B

Lead	78	3.0	mg/kg	1	7111332	11/13/17	11/14/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 19-B
T172943-32 (Soil)

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

Metals by EPA 6010B

Lead	41	3.0	mg/kg	1	7111332	11/13/17	11/14/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 19-C
T172943-33 (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	7111332	11/13/17	11/14/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 21-A
T172943-34 (Soil)

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

Metals by EPA 6010B

Lead	18	3.0	mg/kg	1	7111332	11/13/17	11/14/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 21-B
T172943-35 (Soil)

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

Metals by EPA 6010B

Lead	35	3.0	mg/kg	1	7111332	11/13/17	11/14/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 21-C
T172943-36 (Soil)

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

Metals by EPA 6010B

Lead	49	3.0	mg/kg	1	7111332	11/13/17	11/14/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 23-A
T172943-37 (Soil)

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

Metals by EPA 6010B

Lead	15	3.0	mg/kg	1	7111332	11/13/17	11/14/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 23-B
T172943-38 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111332	11/13/17	11/14/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 23-C
T172943-39 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111332	11/13/17	11/14/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 28-A
T172943-40 (Soil)

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

Metals by EPA 6010B

Lead	13	3.0	mg/kg	1	7111332	11/13/17	11/14/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 28-B
T172943-41 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111332	11/13/17	11/14/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 28-C
T172943-42 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111332	11/13/17	11/14/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 29-A
T172943-43 (Soil)

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

Metals by EPA 6010B

Lead	52	3.0	mg/kg	1	7111332	11/13/17	11/14/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 29-B
T172943-44 (Soil)

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

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	7111332	11/13/17	11/14/17	EPA 6010b	
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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 29-C
T172943-45 (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	2.7	mg/kg	1	7111332	11/13/17	11/14/17	EPA 6010b	
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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 27-A
T172943-46 (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	7111332	11/13/17	11/14/17	EPA 6010b	
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SunStar Laboratories, Inc.

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Lisa Nguyen, Project Manager Assistant



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

Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 27-B
T172943-47 (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	7111334	11/13/17	11/14/17	EPA 6010b	
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SunStar Laboratories, Inc.

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Lisa Nguyen, Project Manager Assistant



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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 27-C
T172943-48 (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	7111334	11/13/17	11/14/17	EPA 6010b	
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SunStar Laboratories, Inc.

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Lisa Nguyen, Project Manager Assistant



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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 30-A
T172943-49 (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	7111334	11/13/17	11/14/17	EPA 6010b	
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SunStar Laboratories, Inc.

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Lisa Nguyen, Project Manager Assistant



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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 30-B
T172943-50 (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	7111334	11/13/17	11/14/17	EPA 6010b	
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SunStar Laboratories, Inc.

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Lisa Nguyen, Project Manager Assistant



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Lake Forest, California 92630
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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 30-C
T172943-51 (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	2.7	mg/kg	1	7111334	11/13/17	11/14/17	EPA 6010b	
------	----	-----	-------	---	---------	----------	----------	-----------	--

SunStar Laboratories, Inc.

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Lisa Nguyen, Project Manager Assistant



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Lake Forest, California 92630
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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 31-A
T172943-52 (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	7111334	11/13/17	11/14/17	EPA 6010b	
------	----	-----	-------	---	---------	----------	----------	-----------	--

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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 31-B
T172943-53 (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	7111334	11/13/17	11/14/17	EPA 6010b	
------	----	-----	-------	---	---------	----------	----------	-----------	--

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2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 31-C
T172943-54 (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	2.7	mg/kg	1	7111334	11/13/17	11/14/17	EPA 6010b	
------	----	-----	-------	---	---------	----------	----------	-----------	--

SunStar Laboratories, Inc.

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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 32-A
T172943-55 (Soil)

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

Metals by EPA 6010B

Lead	26	3.0	mg/kg	1	7111334	11/13/17	11/14/17	EPA 6010b	
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Lisa Nguyen, Project Manager Assistant



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Lake Forest, California 92630
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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 32-B
T172943-56 (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	7111334	11/13/17	11/14/17	EPA 6010b	
------	----	-----	-------	---	---------	----------	----------	-----------	--

SunStar Laboratories, Inc.

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Lisa Nguyen, Project Manager Assistant



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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 32-C
T172943-57 (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	7111334	11/13/17	11/14/17	EPA 6010b	
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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 33-A
T172943-58 (Soil)

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

Metals by EPA 6010B

Lead	12	2.7	mg/kg	1	7111334	11/13/17	11/14/17	EPA 6010b	
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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 33-B
T172943-59 (Soil)

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

Metals by EPA 6010B

Lead	11	3.0	mg/kg	1	7111334	11/13/17	11/14/17	EPA 6010b	
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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

ADL 33-C
T172943-60 (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	7111334	11/13/17	11/14/17	EPA 6010b	
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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7111038 - EPA 3051

Blank (7111038-BLK1)

Prepared: 11/10/17 Analyzed: 11/13/17

Lead ND 3.0 mg/kg

LCS (7111038-BS1)

Prepared: 11/10/17 Analyzed: 11/13/17

Lead 106 3.0 mg/kg 100 106 75-125

Matrix Spike (7111038-MS1)

Source: T172943-08

Prepared: 11/10/17 Analyzed: 11/13/17

Lead 124 3.0 mg/kg 98.0 ND 127 75-125 QM-05

Matrix Spike Dup (7111038-MSD1)

Source: T172943-08

Prepared: 11/10/17 Analyzed: 11/13/17

Lead 118 3.0 mg/kg 92.6 ND 127 75-125 5.44 20 QM-05

Batch 7111330 - EPA 3050B

Blank (7111330-BLK1)

Prepared: 11/13/17 Analyzed: 11/15/17

Lead ND 3.0 mg/kg

LCS (7111330-BS1)

Prepared: 11/13/17 Analyzed: 11/15/17

Lead 106 3.0 mg/kg 100 106 75-125

Matrix Spike (7111330-MS1)

Source: T172876-01

Prepared: 11/13/17 Analyzed: 11/15/17

Lead 122 3.0 mg/kg 95.2 14.4 113 75-125

Matrix Spike Dup (7111330-MSD1)

Source: T172876-01

Prepared: 11/13/17 Analyzed: 11/15/17

Lead 117 3.0 mg/kg 100 14.4 102 75-125 4.08 20

Batch 7111332 - EPA 3050B

Blank (7111332-BLK1)

Prepared: 11/13/17 Analyzed: 11/14/17

Lead ND 3.0 mg/kg

SunStar Laboratories, Inc.

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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

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 7111332 - EPA 3050B

LCS (7111332-BS1)				Prepared: 11/13/17 Analyzed: 11/14/17						
Lead	99.8	3.0	mg/kg	100		99.8	75-125			
Matrix Spike (7111332-MS1)				Source: T172943-27 Prepared: 11/13/17 Analyzed: 11/14/17						
Lead	107	3.0	mg/kg	93.5	2.61	111	75-125			
Matrix Spike Dup (7111332-MSD1)				Source: T172943-27 Prepared: 11/13/17 Analyzed: 11/14/17						
Lead	105	3.0	mg/kg	92.6	2.61	111	75-125	1.41	20	

Batch 7111334 - EPA 3050B

Blank (7111334-BLK1)				Prepared: 11/13/17 Analyzed: 11/14/17						
Lead	ND	3.0	mg/kg							
LCS (7111334-BS1)				Prepared: 11/13/17 Analyzed: 11/14/17						
Lead	101	3.0	mg/kg	100		101	75-125			
Matrix Spike (7111334-MS1)				Source: T172943-47 Prepared: 11/13/17 Analyzed: 11/14/17						
Lead	101	3.0	mg/kg	99.0	ND	102	75-125			
Matrix Spike Dup (7111334-MSD1)				Source: T172943-47 Prepared: 11/13/17 Analyzed: 11/14/17						
Lead	92.1	3.0	mg/kg	93.5	ND	98.5	75-125	9.31	20	

SunStar Laboratories, Inc.

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Lisa Nguyen, Project Manager Assistant



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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
11/17/17 14:08

Notes and Definitions

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.

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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Lisa Nguyen, Project Manager Assistant

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE
25712 Commerce Drive, Lake Forest, CA 92630
949-297-5020

Client: Blackburn Consulting
Address: _____
Phone: 707 537 5776 Fax: _____
Project Manager: Ryan Schmidt

Date: 11/9/17 Page: 3 of 4
Project Name: SR99/120 Interchange
Collector: _____ Client Project #: 29988X
Batch #: T172943 EDF #: _____

[illegible]

Sample disposal Instructions: Disposal @ \$2.00 each _____

Return to client

Pickup

COC 160742

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE
25712 Commerce Centre Drive, Lake Forest, CA 92630
949-297-5020

Client: Blackburn Consulting
Address: _____
Phone: 707 537 5776 Fax: _____
Project Manager: Rygen Schmidt

Date: 11/9/17 Page: 4 of 4
Project Name: SE99/120 Interchange
Collector: TT172943 Client Project #: 2998.X
Batch #: _____ EDF #: _____

[illegible]

Sample disposal instructions: Disposal @ \$2.00 each _____

Return to client

Pickup

COC 160743

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T172943

Client Name: Blackburn Consulting - West Sacramento Project: SR99/120 Interchange

Delivered by: ☐ Client ☐ SunStar Courier ☒ GSO ☐ FedEx ☐ Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: Sunny Date/Time Lab Received: 11-10-17 10:55

Total number of coolers received: 1

Temperature:	Cooler #1	5.5	°C +/- the CF (- 0.2°C) =	5.3	°C corrected temperature
Temperature:	Cooler #2		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature:	Cooler #3		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)			Within criteria?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If NO:					
Samples received on ice?			<input type="checkbox"/> Yes		<input type="checkbox"/> No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?			<input type="checkbox"/> Yes → Acceptable		<input type="checkbox"/> No → Complete Non-Conformance Sheet

Custody seals intact on cooler/sample ☒ Yes ☐ No* ☐ N/A

Sample containers intact ☒ Yes ☐ No*

Sample labels match Chain of Custody IDs ☒ 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: DM 11-10-17

Comments:

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # _____ T172943 _____

▪ **COOLERS**

- ☐ Not Received (received COC only)
- ☐ Leaking/Damaged
- ☐ Other:

▪ **CUSTODY SEALS**

- ☐ None
- ☐ Not Intact

▪ **TEMPERATURE (Temp criteria = $\leq 6^{\circ}\text{C}$)**

- ☐ Cooler/Sample Temp(s)
- ☐ Temperature Blank(s)

▪ **CHAIN OF CUSTODY (COC)**

- ☐ Not relinquished by client; No date/time relinquished
- ☐ Incomplete information provided
- ☐ COC not received – notify PM

▪ **CONTAINERS**

- ☐ Leaking ☐ Broken
- ☐ Extra ☐ Missing

▪ **LABELS**

- ☐ Not the same sample ID / info as on the COC
- ☐ Incomplete Information
- ☐ Markings/Info illegible

▪ **SAMPLES**

- ☐ Samples **NOT RECEIVED** but listed on COC
- ☐ Samples received but **NOT LISTED** on COC
- ☐ Logged based on Label Information and not COC
- ☐ Logged according to Work Plan and not COC
- ☐ Logged in, **ON HOLD** until further notice
- ☐ Insufficient quantities for analysis
- ☐ Improper container used
- ☐ Mislabelled as to tests, preservatives, etc.
- ☐ Holding time expired – list sample ID and test
- ☐ Not preserved/Improper preservative used
- ☐ Without Labels, no information on containers
- ☐ Other

Comments:

COC was filled out improperly.

Sample fractioning only if broken container compromises other samples or if out of temp reading impacts more than one cooler

Fraction													Preser.
VOA													

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.

Project: SR99/120 Interchange

Project Manager: Lisa Nguyen

Project Number: 2998.X

Report To:

Blackburn Consulting-West Sac.

Ryan Schmidt

2491 Boatman Ave.

West Sacramento, CA -

Date Due: 11/17/17 17:00 (5 day TAT)

Received By: Dan Marteski

Date Received: 11/10/17 10:55

Logged In By: Dan Marteski

Date Logged In: 11/10/17 12:25

Samples Received at: 5.3°C

Custody Seals Yes Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------

T172943-01 ADL 07-A [Soil] Sampled 11/08/17 09:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:00
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T172943-02 ADL 07-B [Soil] Sampled 11/08/17 09:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:00
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T172943-03 ADL 07-C [Soil] Sampled 11/08/17 09:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:00
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T172943-04 ADL 09-A [Soil] Sampled 11/08/17 09:45 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:45
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T172943-05 ADL 09-B [Soil] Sampled 11/08/17 09:45 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:45
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T172943-06 ADL 09-C [Soil] Sampled 11/08/17 09:45 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:45
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T172943-07 ADL 11-A [Soil] Sampled 11/08/17 10:30 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 10:30
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WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-08 ADL 11-B [Soil] Sampled 11/08/17 10:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 10:30	
T172943-09 ADL 11-C [Soil] Sampled 11/08/17 10:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 10:30	
T172943-10 ADL 39-A [Soil] Sampled 11/08/17 11:15 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 11:15	
T172943-11 ADL 39-B [Soil] Sampled 11/08/17 11:15 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 11:15	
T172943-12 ADL 39-C [Soil] Sampled 11/08/17 11:15 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 11:15	
T172943-13 ADL 41-A [Soil] Sampled 11/08/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:00	
T172943-14 ADL 41-B [Soil] Sampled 11/08/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:00	
T172943-15 ADL 41-C [Soil] Sampled 11/08/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:00	
T172943-16 ADL 43-A [Soil] Sampled 11/08/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:45	
T172943-17 ADL 43-B [Soil] Sampled 11/08/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:45	
T172943-18 ADL 43-C [Soil] Sampled 11/08/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:45	

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-19 ADL 40-A [Soil] Sampled 11/08/17 13:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/07/18 13:30	
T172943-20 ADL 40-B [Soil] Sampled 11/08/17 13:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/07/18 13:30	
T172943-21 ADL 40-C [Soil] Sampled 11/08/17 13:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/07/18 13:30	
T172943-22 ADL 42-A [Soil] Sampled 11/08/17 14:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/07/18 14:15	
T172943-23 ADL 42-B [Soil] Sampled 11/08/17 14:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/07/18 14:15	
T172943-24 ADL 42-C [Soil] Sampled 11/08/17 14:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/07/18 14:15	
T172943-25 ADL 14-A [Soil] Sampled 11/08/17 15:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/07/18 15:00	
T172943-26 ADL 14-B [Soil] Sampled 11/08/17 15:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/07/18 15:00	
T172943-27 ADL 14-C [Soil] Sampled 11/08/17 15:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/07/18 15:00	
T172943-28 ADL 17-A [Soil] Sampled 11/08/17 15:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/07/18 15:45	
T172943-29 ADL 17-B [Soil] Sampled 11/08/17 15:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/07/18 15:45	

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-30 ADL 17-C [Soil] Sampled 11/08/17 15:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/07/18 15:45	
T172943-31 ADL 19-A [Soil] Sampled 11/09/17 09:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:00	
T172943-32 ADL 19-B [Soil] Sampled 11/09/17 09:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:00	
T172943-33 ADL 19-C [Soil] Sampled 11/09/17 09:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:00	
T172943-34 ADL 21-A [Soil] Sampled 11/09/17 09:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:45	
T172943-35 ADL 21-B [Soil] Sampled 11/09/17 09:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:45	
T172943-36 ADL 21-C [Soil] Sampled 11/09/17 09:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:45	
T172943-37 ADL 23-A [Soil] Sampled 11/09/17 10:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:30	
T172943-38 ADL 23-B [Soil] Sampled 11/09/17 10:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:30	
T172943-39 ADL 23-C [Soil] Sampled 11/09/17 10:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:30	
T172943-40 ADL 28-A [Soil] Sampled 11/09/17 11:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 11:15	

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-41 ADL 28-B [Soil] Sampled 11/09/17 11:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 11:15	
T172943-42 ADL 28-C [Soil] Sampled 11/09/17 11:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 11:15	
T172943-43 ADL 29-A [Soil] Sampled 11/09/17 12:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 12:00	
T172943-44 ADL 29-B [Soil] Sampled 11/09/17 12:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 12:00	
T172943-45 ADL 29-C [Soil] Sampled 11/09/17 12:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 12:00	
T172943-46 ADL 27-A [Soil] Sampled 11/09/17 12:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 12:45	
T172943-47 ADL 27-B [Soil] Sampled 11/09/17 12:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 12:45	
T172943-48 ADL 27-C [Soil] Sampled 11/09/17 12:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 12:45	
T172943-49 ADL 30-A [Soil] Sampled 11/09/17 09:20 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:20	
T172943-50 ADL 30-B [Soil] Sampled 11/09/17 09:20 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:20	
T172943-51 ADL 30-C [Soil] Sampled 11/09/17 09:20 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:20	

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-52 ADL 31-A [Soil] Sampled 11/09/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:15	
T172943-53 ADL 31-B [Soil] Sampled 11/09/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:15	
T172943-54 ADL 31-C [Soil] Sampled 11/09/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:15	
T172943-55 ADL 32-A [Soil] Sampled 11/09/17 10:50 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:50	
T172943-56 ADL 32-B [Soil] Sampled 11/09/17 10:50 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:50	
T172943-57 ADL 32-C [Soil] Sampled 11/09/17 10:50 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:50	
T172943-58 ADL 33-A [Soil] Sampled 11/09/17 11:35 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 11:35	
T172943-59 ADL 33-B [Soil] Sampled 11/09/17 11:35 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 11:35	
T172943-60 ADL 33-C [Soil] Sampled 11/09/17 11:35 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 11:35	

State Route 99/120 Interchange Improvement Project Aerially Deposited Lead (ADL) Assessment

APPENDIX B

ADL Analytical Laboratory Results and Chain of Custody Soluble Lead Sample Results





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

01 December 2017

Ryan Schmidt
Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento, CA -
RE: SR99/120 Interchange

Enclosed are the results of analyses for samples received by the laboratory on 11/10/17 10:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Nguyen
Project Manager Assistant



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

Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
12/01/17 09:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL 37-A	T172941-27	Soil	11/06/17 13:30	11/10/17 10:55
ADL 26-A	T172941-33	Soil	11/06/17 14:30	11/10/17 10:55
ADL 26-B	T172941-34	Soil	11/06/17 14:30	11/10/17 10:55
ADL 15-C	T172941-50	Soil	11/07/17 11:30	11/10/17 10:55
ADL 10-A	T172941-66	Soil	11/07/17 15:00	11/10/17 10:55
ADL 08-A	T172941-69	Soil	11/07/17 15:45	11/10/17 10:55

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.

Lisa Nguyen, Project Manager Assistant

Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
12/01/17 09:56

DETECTIONS SUMMARY

Sample ID: ADL 37-A

Laboratory ID: T172941-27

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
pH	8.0	0.1	pH Units	EPA 9045B	O-09

Sample ID: ADL 26-A

Laboratory ID: T172941-33

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	8.1	0.10	mg/l	STLC Waste Extraction T	

Sample ID: ADL 26-B

Laboratory ID: T172941-34

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	3.1	0.10	mg/l	STLC Waste Extraction T	

Sample ID: ADL 15-C

Laboratory ID: T172941-50

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	2.9	0.10	mg/l	STLC Waste Extraction T	

Sample ID: ADL 10-A

Laboratory ID: T172941-66

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	2.4	0.10	mg/l	STLC Waste Extraction T	

Sample ID: ADL 08-A

Laboratory ID: T172941-69

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

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Lisa Nguyen, Project Manager Assistant



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2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
12/01/17 09:56

SunStar Laboratories, Inc.

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2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
12/01/17 09:56

ADL 37-A
T172941-27 (Soil)

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

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

pH	8.0	0.1	pH Units	1	7112918	11/29/17	11/29/17	EPA 9045B	O-09
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SunStar Laboratories, Inc.

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Lisa Nguyen, Project Manager Assistant



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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
12/01/17 09:56

ADL 26-A
T172941-33 (Soil)

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

STLC Metals by 6000/7000 Series Methods

Lead	8.1	0.10	mg/l	1	7112744	11/27/17	11/30/17	STLC Waste Extraction Test	
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SunStar Laboratories, Inc.

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Lisa Nguyen, Project Manager Assistant



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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
12/01/17 09:56

ADL 26-B
T172941-34 (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	3.1	0.10	mg/l	1	7112744	11/27/17	11/30/17	STLC Waste Extraction Test	
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SunStar Laboratories, Inc.

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Lisa Nguyen, Project Manager Assistant



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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
12/01/17 09:56

ADL 15-C
T172941-50 (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	2.9	0.10	mg/l	1	7112744	11/27/17	11/30/17	STLC Waste Extraction Test	
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SunStar Laboratories, Inc.

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Lisa Nguyen, Project Manager Assistant



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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
12/01/17 09:56

ADL 10-A
T172941-66 (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	2.4	0.10	mg/l	1	7112744	11/27/17	11/30/17	STLC Waste Extraction Test	
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SunStar Laboratories, Inc.

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Lisa Nguyen, Project Manager Assistant



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Blackburn Consulting-West Sac.
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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
12/01/17 09:56

ADL 08-A
T172941-69 (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	6.2	0.10	mg/l	1	7112744	11/27/17	11/30/17	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.

Lisa Nguyen, Project Manager Assistant



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Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
12/01/17 09:56

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 7112744 - STLC Metals

Blank (7112744-BLK1)

Prepared: 11/27/17 Analyzed: 11/30/17

Lead	ND	0.10	mg/l
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LCS (7112744-BS1)

Prepared: 11/27/17 Analyzed: 11/30/17

Lead	9.71	0.10	mg/l	10.0	97.1	75-125
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Matrix Spike (7112744-MS1)

Source: T172941-33

Prepared: 11/27/17 Analyzed: 11/30/17

Lead	17.6	0.10	mg/l	10.0	8.06	95.3	75-125
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Matrix Spike Dup (7112744-MSD1)

Source: T172941-33

Prepared: 11/27/17 Analyzed: 11/30/17

Lead	18.3	0.10	mg/l	10.0	8.06	102	75-125	3.69	30
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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.

Lisa Nguyen, Project Manager Assistant



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2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
12/01/17 09:56

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 7112918 - General Preparation

Duplicate (7112918-DUP1)

Source: T172941-27

Prepared & Analyzed: 11/29/17

pH	8.04	0.1	pH Units	8.05	0.124	20	O-09
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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.

Lisa Nguyen, Project Manager Assistant



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West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: [none]
Project Manager: Ryan Schmidt

Reported:
12/01/17 09:56

Notes and Definitions

O-09 The sample was analyzed outside the EPA recommended holding time of 24 hours.

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.

Lisa Nguyen, Project Manager Assistant

Chain of Custody Record

**SunStar
Laboratories Inc.**

25712 Commerce Centre Drive, Lake Forest, CA 92630
949-297-5020

Client: Blackburn Consulting

Address: _____

Phone: 707 537 5776 Fax: _____

Project Manager: Ryan Schmidt

Date: 11/9/17 Page: 1 of 4

Project Name: SP99/120 Interchange

Collector: _____ Client Project #: _____

Batch #: 7192941 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)	6020 ICP-MS Metals	Laboratory ID #	Comments/Preservative
ADL 34-A,B	11/6/17	9:00	Soil	Glass											01 02	
ADL 36-A,B,C		9:30													03 04 05	
ADL 38-A,B,C		10:00													06 07 08	
ADL 46-A,B,C		10:30													09 10 11	
ADL 47-A,B,C		11:00													12 13 14	
ADL 48-A,B,C		11:30													15 16 17	
ADL 49-A,B,C		12:00													18 19 20	
ADL 50-A,B,C		12:30													21 22 23	
ADL 35-A,B,C		13:00													24 25 26	
ADL 37-A,B,C		13:30													27 28 29	
ADL 25-A,B,C		14:00													30 31 32	
ADL 26-A,B,C		14:30													33 34 35	
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																
Turn around time: STD 5:4																
Chain of Custody seals N/A Seals intact? Y/N/A Received good condition/cold 5:3																
Notes DISCRETE SAMPLES! Hold samples																

Sample disposal instructions: Disposal @ \$2.00 each

Return to client

Pickup

COC 160740

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE
25712 Commerce Drive, Lake Forest, CA 92630
949-297-5020

Client: Blackburn Consulting
Address: _____
Phone: 707 537 5774 Fax: _____
Project Manager: Ryan Schmidt

Date: 11/9/17 Page: 2 of 4
Project Name: SR99120 Inheritance
Collector: Client Project #: 2998.X
Batch #: EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type											Laboratory ID #	Comments/Preservative	
					8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals (Lead)	6020 ICP-MS Metals			
ADL 24 - A,B,C	11/7/17	9:00	Soil	Glass										36	£1	38	
ADL 22 - A,B,C		9:45												39	40	41	
ADL 20 - A,B,C		10:15												42	43	44	
ADL 18 - A,B,C		10:45												45	46	47	
ADL 15 - A,B,C		11:30												48	49	50	
ADL 16 - A,B,C		12:00												51	52	53	
ADL 44 - A,B,C		12:45												54	55	56	
ADL 45 - A,B,C		13:30												57	58	59	
ADL 13 - A,B,C		14:00												60	61	62	
ADL 12 - A,B,C		14:30												63	64	65	
ADL 10 - A,B,C		15:00												66	67	68	
ADL DB - A,B,C		15:45												69	70	71	
Relinquished by: (signature)					Date / Time		Received by: (signature)		Date / Time		Total # of containers		Laboratory ID #		Notes		
Dm Scharf					11/9 13:50		Dm Scharf		11/9/17 1350		Chain of Custody seals Y/N/A				DISC ETE SAMPLES		
Relinquished by: (signature)					Date / Time		Received by: (signature)		Date / Time		Seals intact? Y/N/A				hold samples		
GSO 11-10-17 10:55							GSO 11-10-17 10:55				Received good condition/cold		53				
Relinquished by: (signature)					Date / Time		Received by: (signature)		Date / Time		Turn around time: STD		54				

Sample disposal instructions: Disposal @ \$2.00 each _____

Return to client _____

Pickup _____

COC 160741

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: 7172941

Client Name: BLACKBURN CON. Project: SR 99 / 120 INTERCHANGE

Delivered by: ☐ Client ☐ SunStar Courier ☒ GSO ☐ FedEx ☐ Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: SUNNY Date/Time Lab Received: 11-10-17 / 10:55

Total number of coolers received: 2

Temperature: Cooler #1 <u>5.5</u>	°C +/- the CF (- 0.2°C) = <u>5.3</u>	°C corrected temperature
Temperature: Cooler #2 <u>5.6</u>	°C +/- the CF (- 0.2°C) = <u>5.4</u>	°C corrected temperature
Temperature: Cooler #3	°C +/- the CF (- 0.2°C) =	°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If NO:		
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet

Custody seals intact on cooler/sample ☒ Yes ☐ No* ☐ N/A

Sample containers intact ☒ Yes ☐ No*

Sample labels match Chain of Custody IDs ☒ 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 11-10-17

Comments:

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # 7172941

▪ **COOLERS**

- ☐ Not Received (received COC only)
- ☐ Leaking/Damaged
- ☐ Other:

▪ **CUSTODY SEALS**

- ☐ None
- ☐ Not Intact

▪ **TEMPERATURE (Temp criteria = $\leq 6^{\circ}\text{C}$)**

- ☐ Cooler/Sample Temp(s)
- ☐ Temperature Blank(s)

▪ **CHAIN OF CUSTODY (COC)**

- ☐ Not relinquished by client; No date/time relinquished
- ☐ Incomplete information provided
- ☐ COC not received – notify PM

▪ **CONTAINERS**

- ☐ Leaking ☐ Broken
- ☐ Extra ☐ Missing

▪ **LABELS**

- ☐ Not the same sample ID / info as on the COC
- ☐ Incomplete Information
- ☐ Markings/Info illegible

▪ **SAMPLES**

- ☐ Samples **NOT RECEIVED** but listed on COC
- ☐ Samples received but **NOT LISTED** on COC
- ☐ Logged based on Label Information and not COC
- ☐ Logged according to Work Plan and not COC
- ☐ Logged in, **ON HOLD** until further notice
- ☐ Insufficient quantities for analysis
- ☐ Improper container used
- ☐ Mislabeled as to tests, preservatives, etc.
- ☐ Holding time expired – list sample ID and test
- ☐ Not preserved/Improper preservative used
- ☐ Without Labels, no information on containers
- ☐ Other

Comments: COC WAS FILLED OUT IMPROPERLY.

Sample fractioning only if broken container compromises other samples or if out of temp reading impacts more than one cooler

Fraction													Preser.
VOA													

Lisa

From: Ryan Schmidt [ryans@blackburnconsulting.com]
Sent: Monday, November 27, 2017 2:39 PM
To: Lisa
Subject: RE: Report for SR99/120 Interchange (T172941)

We are going to need STLC-WET testing in the following samples from this report:

ADL 26-A
ADL 26-B
ADL 15-C
ADL 10-A
ADL 08-A

Thanks!

What do you expect the turnaround time to be for these results?

From: Lisa [<mailto:lisa@sunstarlabs.com>]
Sent: Thursday, November 16, 2017 11:55 AM
To: Ryan Schmidt <ryans@blackburnconsulting.com>
Subject: Report for SR99/120 Interchange (T172941)

Hello Ryan,

Attached is the final report for the following:

Project: SR99/120 Interchange
Project Number: n/a

Please let me know if you would like to run additional STLC/TCLP analysis on samples with hits about the threshold.

Please let me know if you have any concerns or need any further analyses. Thank you for choosing SunStar Labs.

Lisa Nguyen
Project Manager Assistant



25712 Commercentre Dr., Lake Forest, CA 92630
Office: (949) 297-5020 | Fax: (949) 297-5027
CA ELAP Certification: 2250 | CA Small Business Certification: 31511

Lisa

From: Ryan Schmidt [ryans@blackburnconsulting.com]
Sent: Wednesday, November 29, 2017 2:27 PM
To: Lisa
Subject: RE: Report for SR99/120 Interchange (T172943) and (T172941)

Please proceed, Thanks!

Ryan Schmidt | Project Engineer | Cell: (707)537-5776

Blackburn Consulting | 2491 Boatman Avenue, West Sacramento, CA 95691 | *Geotechnical* | *Geo-Environmental* | *Construction Services* | *Forensics*
"Our Signature is Excellence"

From: Lisa [mailto:lisa@sunstarlabs.com]
Sent: Wednesday, November 29, 2017 2:26 PM
To: Ryan Schmidt <ryans@blackburnconsulting.com>
Subject: RE: Report for SR99/120 Interchange (T172943) and (T172941)

I can expedite the samples to be delivered by end of business tomorrow. Would you like to proceed?

Lisa Nguyen
Project Manager Assistant



25712 Commercentre Dr., Lake Forest, CA 92630
Office: (949) 297-5020 | Fax: (949) 297-5027
CA ELAP Certification: 2250 | CA Small Business Certification: 31511

From: Ryan Schmidt [mailto:ryans@blackburnconsulting.com]
Sent: Wednesday, November 29, 2017 12:59 PM
To: Lisa
Subject: RE: Report for SR99/120 Interchange (T172943) and (T172941)

Hey Lisa sorry to keep bothering you. But can we expedite all testing at this point, I just got approval for it. And also, for the stlc wet are we first using the citric method?

Get [Outlook for Android](#)

From: Lisa <lisa@sunstarlabs.com>
Sent: Wednesday, November 29, 2017 11:57:26 AM
To: Ryan Schmidt
Subject: RE: Report for SR99/120 Interchange (T172943) and (T172941)

Attached are the additional work orders with pH analysis you've requested. I don't believe amount of sample will be a problem, but I will let you know if anything comes out.

Thank you,

Lisa Nguyen
Project Manager Assistant



25712 Commercentre Dr., Lake Forest, CA 92630
Office: (949) 297-5020 | Fax: (949) 297-5027
CA ELAP Certification: 2250 | CA Small Business Certification: 31511

From: Ryan Schmidt [<mailto:ryans@blackburnconsulting.com>]
Sent: Wednesday, November 29, 2017 11:36 AM
To: Lisa
Subject: RE: Report for SR99/120 Interchange (T172943) and (T172941)

Let's still proceed. Thanks. Let me know if the samples listed are not available!

Ryan Schmidt | Project Engineer | Cell: (707)537-5776
Blackburn Consulting | 2491 Boatman Avenue, West Sacramento, CA 95691 | *Geotechnical* | *Geo-Environmental* | *Construction Services* | *Forensics*
"Our Signature is Excellence"

From: Lisa [<mailto:lisa@sunstarlabs.com>]
Sent: Wednesday, November 29, 2017 11:35 AM
To: Ryan Schmidt <ryans@blackburnconsulting.com>
Subject: RE: Report for SR99/120 Interchange (T172943) and (T172941)

Hello Ryan,

Sure. The standard TAT is 5 days. It's a simple test and the chemists are fairly quick with that test, so I don't believe it should be a problem with them having results ready by the time all the other analyses requested are due. However, the soils are out of hold time criteria for pH analysis. Would you still want to proceed? I will also have to confirm if we have enough samples as well and will get back to you shortly on this.

Thank you,

Lisa Nguyen
Project Manager Assistant



25712 Commercentre Dr., Lake Forest, CA 92630
Office: (949) 297-5020 | Fax: (949) 297-5027
CA ELAP Certification: 2250 | CA Small Business Certification: 31511

From: Ryan Schmidt [<mailto:ryans@blackburnconsulting.com>]
Sent: Wednesday, November 29, 2017 11:27 AM
To: Lisa
Subject: RE: Report for SR99/120 Interchange (T172943) and (T172941)

Lisa can we test 4 random samples (ADL 19B, ADL 37A, ADL 9C, and ADL 21A) from both work orders for this project for pH and have those results included in the final report as well? Not sure if you can combine both reports once all analysis has been completed. Also what is the TAT for pH?

Thanks

Ryan Schmidt | Project Engineer | Cell: (707)537-5776
Blackburn Consulting | 2491 Boatman Avenue, West Sacramento, CA 95691 | *Geotechnical* | *Geo-Environmental* | *Construction Services* | *Forensics*
"Our Signature is Excellence"

From: Lisa [<mailto:lisa@sunstarlabs.com>]
Sent: Monday, November 27, 2017 3:46 PM
To: Ryan Schmidt <ryans@blackburnconsulting.com>
Subject: RE: Report for SR99/120 Interchange (T172943)

Attached is the additional work order with STLC Pb on a standard TAT that you've requested. Results are scheduled to be delivered by end of business on 12/04/17. Please carefully review the attachments and let me know if you have any questions or concerns.

Thank you,

Lisa Nguyen
Project Manager Assistant



25712 Commercentre Dr., Lake Forest, CA 92630
Office: (949) 297-5020 | Fax: (949) 297-5027
CA ELAP Certification: 2250 | CA Small Business Certification: 31511

From: Ryan Schmidt [<mailto:ryans@blackburnconsulting.com>]
Sent: Monday, November 27, 2017 2:43 PM
To: Lisa
Subject: RE: Report for SR99/120 Interchange (T172943)

We will need STLC-WET testing for the following samples from this report:

ADL 14-A
ADL 19-A
ADL 29-A

Thanks!

From: Lisa [<mailto:lisa@sunstarlabs.com>]
Sent: Friday, November 17, 2017 2:18 PM
To: Ryan Schmidt <ryans@blackburnconsulting.com>
Subject: Report for SR99/120 Interchange (T172943)

Hello Ryan,

Attached is the final report for the following:

Project: SR99/120 Interchange
Project Number: 2998.x

Please let me know if you have any concerns or need any further analyses. Thank you for choosing SunStar Labs.

Lisa Nguyen
Project Manager Assistant



25712 Commercentre Dr., Lake Forest, CA 92630
Office: (949) 297-5020 | Fax: (949) 297-5027
CA ELAP Certification: 2250 | CA Small Business Certification: 31511

Shipping Alert:

Please note that SunStar Laboratories will be observing the Thanksgiving holiday on Thursday and Friday, November 23th and 24th. In addition, GSO will not have scheduled service on Thursday, November 23th. If you have any short hold samples arriving on Wednesday or during these days, please contact your Project Manager in advance to ensure all holding times are met for your samples. We appreciate your business and hope that you have a fantastic and safe holiday!

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.

Project: SR99/120 Interchange

Project Manager: Lisa Nguyen

Project Number: [none]

Report To:

Blackburn Consulting-West Sac.

Ryan Schmidt

2491 Boatman Ave.

West Sacramento, CA -

Date Due: 11/17/17 17:00 (5 day TAT)

Received By: Sunny Lounethone

Date Received: 11/10/17 10:55

Logged In By: Sunny Lounethone

Date Logged In: 11/10/17 12:00

Samples Received at: 5.3°C

Custody Seals Yes Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir No

Analysis	Due	TAT	Expires	Comments
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T172941-01 ADL 34-A [Soil] Sampled 11/06/17 09:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:00
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T172941-02 ADL 34-B [Soil] Sampled 11/06/17 09:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:00
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T172941-03 ADL 36-A [Soil] Sampled 11/06/17 09:30 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:30
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T172941-04 ADL 36-B [Soil] Sampled 11/06/17 09:30 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:30
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T172941-05 ADL 36-C [Soil] Sampled 11/06/17 09:30 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:30
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T172941-06 ADL 38-A [Soil] Sampled 11/06/17 10:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 10:00
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T172941-07 ADL 38-B [Soil] Sampled 11/06/17 10:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 10:00
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WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-08 ADL 38-C [Soil] Sampled 11/06/17 10:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 10:00	
T172941-09 ADL 46-A [Soil] Sampled 11/06/17 10:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 10:30	
T172941-10 ADL 46-B [Soil] Sampled 11/06/17 10:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 10:30	
T172941-11 ADL 46-C [Soil] Sampled 11/06/17 10:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 10:30	
T172941-12 ADL 47-A [Soil] Sampled 11/06/17 11:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:00	
T172941-13 ADL 47-B [Soil] Sampled 11/06/17 11:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:00	
T172941-14 ADL 47-C [Soil] Sampled 11/06/17 11:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:00	
T172941-15 ADL 48-A [Soil] Sampled 11/06/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:30	
T172941-16 ADL 48-B [Soil] Sampled 11/06/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:30	
T172941-17 ADL 48-C [Soil] Sampled 11/06/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:30	
T172941-18 ADL 49-A [Soil] Sampled 11/06/17 12:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 12:00	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-19 ADL 49-B [Soil] Sampled 11/06/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:00	
T172941-20 ADL 49-C [Soil] Sampled 11/06/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:00	
T172941-21 ADL 50-A [Soil] Sampled 11/06/17 12:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:30	
T172941-22 ADL 50-B [Soil] Sampled 11/06/17 12:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:30	
T172941-23 ADL 50-C [Soil] Sampled 11/06/17 12:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:30	
T172941-24 ADL 35-A [Soil] Sampled 11/06/17 13:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:00	
T172941-25 ADL 35-B [Soil] Sampled 11/06/17 13:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:00	
T172941-26 ADL 35-C [Soil] Sampled 11/06/17 13:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:00	
T172941-27 ADL 37-A [Soil] Sampled 11/06/17 13:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:30	
T172941-28 ADL 37-B [Soil] Sampled 11/06/17 13:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:30	
T172941-29 ADL 37-C [Soil] Sampled 11/06/17 13:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:30	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-30 ADL 25-A [Soil] Sampled 11/06/17 14:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 14:00	
T172941-31 ADL 25-B [Soil] Sampled 11/06/17 14:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 14:00	
T172941-32 ADL 25-C [Soil] Sampled 11/06/17 14:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 14:00	
T172941-33 ADL 26-A [Soil] Sampled 11/06/17 14:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 14:30	
T172941-34 ADL 26-B [Soil] Sampled 11/06/17 14:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 14:30	
T172941-35 ADL 26-C [Soil] Sampled 11/06/17 14:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 14:30	
T172941-36 ADL 24-A [Soil] Sampled 11/07/17 09:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 09:00	
T172941-37 ADL 24-B [Soil] Sampled 11/07/17 09:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 09:00	
T172941-38 ADL 24-C [Soil] Sampled 11/07/17 09:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 09:00	
T172941-39 ADL 22-A [Soil] Sampled 11/07/17 09:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 09:45	
T172941-40 ADL 22-B [Soil] Sampled 11/07/17 09:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 09:45	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-41 ADL 22-C [Soil] Sampled 11/07/17 09:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 09:45	
T172941-42 ADL 20-A [Soil] Sampled 11/07/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 10:15	
T172941-43 ADL 20-B [Soil] Sampled 11/07/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 10:15	
T172941-44 ADL 20-C [Soil] Sampled 11/07/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 10:15	
T172941-45 ADL 18-A [Soil] Sampled 11/07/17 10:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 10:45	
T172941-46 ADL 18-B [Soil] Sampled 11/07/17 10:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 10:45	
T172941-47 ADL 18-C [Soil] Sampled 11/07/17 10:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 10:45	
T172941-48 ADL 15-A [Soil] Sampled 11/07/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 11:30	
T172941-49 ADL 15-B [Soil] Sampled 11/07/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 11:30	
T172941-50 ADL 15-C [Soil] Sampled 11/07/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 11:30	
T172941-51 ADL 16-A [Soil] Sampled 11/07/17 12:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 12:00	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.

Project Manager: Lisa Nguyen

Project: SR99/120 Interchange

Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-52 ADL 16-B [Soil] Sampled 11/07/17 12:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 12:00	
T172941-53 ADL 16-C [Soil] Sampled 11/07/17 12:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 12:00	
T172941-54 ADL 44-A [Soil] Sampled 11/07/17 12:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 12:45	
T172941-55 ADL 44-B [Soil] Sampled 11/07/17 12:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 12:45	
T172941-56 ADL 44-C [Soil] Sampled 11/07/17 12:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 12:45	
T172941-57 ADL 45-A [Soil] Sampled 11/07/17 13:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 13:30	
T172941-58 ADL 45-B [Soil] Sampled 11/07/17 13:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 13:30	
T172941-59 ADL 45-C [Soil] Sampled 11/07/17 13:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 13:30	
T172941-60 ADL 13-A [Soil] Sampled 11/07/17 14:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 14:00	
T172941-61 ADL 13-B [Soil] Sampled 11/07/17 14:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 14:00	
T172941-62 ADL 13-C [Soil] Sampled 11/07/17 14:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 14:00	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.

Project Manager: Lisa Nguyen

Project: SR99/120 Interchange

Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-63 ADL 12-A [Soil] Sampled 11/07/17 14:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 14:30	
T172941-64 ADL 12-B [Soil] Sampled 11/07/17 14:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 14:30	
T172941-65 ADL 12-C [Soil] Sampled 11/07/17 14:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 14:30	
T172941-66 ADL 10-A [Soil] Sampled 11/07/17 15:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 15:00	
T172941-67 ADL 10-B [Soil] Sampled 11/07/17 15:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 15:00	
T172941-68 ADL 10-C [Soil] Sampled 11/07/17 15:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 15:00	
T172941-69 ADL 08-A [Soil] Sampled 11/07/17 15:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 15:45	
T172941-70 ADL 08-B [Soil] Sampled 11/07/17 15:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 15:45	
T172941-71 ADL 08-C [Soil] Sampled 11/07/17 15:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 15:45	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.

Project: SR99/120 Interchange

Project Manager: Lisa Nguyen

Project Number: [none]

Report To:

Blackburn Consulting-West Sac.

Ryan Schmidt

2491 Boatman Ave.

West Sacramento, CA -

Date Due: 11/17/17 17:00 (5 day TAT)

Received By: Sunny Lounethone

Date Received: 11/10/17 10:55

Logged In By: Sunny Lounethone

Date Logged In: 11/10/17 12:00

Samples Received at: 5.3°C

Custody Seals Yes Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir No

Analysis	Due	TAT	Expires	Comments
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T172941-01 ADL 34-A [Soil] Sampled 11/06/17 09:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:00
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T172941-02 ADL 34-B [Soil] Sampled 11/06/17 09:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:00
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T172941-03 ADL 36-A [Soil] Sampled 11/06/17 09:30 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:30
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T172941-04 ADL 36-B [Soil] Sampled 11/06/17 09:30 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:30
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T172941-05 ADL 36-C [Soil] Sampled 11/06/17 09:30 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:30
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T172941-06 ADL 38-A [Soil] Sampled 11/06/17 10:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 10:00
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T172941-07 ADL 38-B [Soil] Sampled 11/06/17 10:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 10:00
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WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-08 ADL 38-C [Soil] Sampled 11/06/17 10:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 10:00	
T172941-09 ADL 46-A [Soil] Sampled 11/06/17 10:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 10:30	
T172941-10 ADL 46-B [Soil] Sampled 11/06/17 10:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 10:30	
T172941-11 ADL 46-C [Soil] Sampled 11/06/17 10:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 10:30	
T172941-12 ADL 47-A [Soil] Sampled 11/06/17 11:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:00	
T172941-13 ADL 47-B [Soil] Sampled 11/06/17 11:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:00	
T172941-14 ADL 47-C [Soil] Sampled 11/06/17 11:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:00	
T172941-15 ADL 48-A [Soil] Sampled 11/06/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:30	
T172941-16 ADL 48-B [Soil] Sampled 11/06/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:30	
T172941-17 ADL 48-C [Soil] Sampled 11/06/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:30	
T172941-18 ADL 49-A [Soil] Sampled 11/06/17 12:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 12:00	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-19 ADL 49-B [Soil] Sampled 11/06/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:00	
T172941-20 ADL 49-C [Soil] Sampled 11/06/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:00	
T172941-21 ADL 50-A [Soil] Sampled 11/06/17 12:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:30	
T172941-22 ADL 50-B [Soil] Sampled 11/06/17 12:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:30	
T172941-23 ADL 50-C [Soil] Sampled 11/06/17 12:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:30	
T172941-24 ADL 35-A [Soil] Sampled 11/06/17 13:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:00	
T172941-25 ADL 35-B [Soil] Sampled 11/06/17 13:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:00	
T172941-26 ADL 35-C [Soil] Sampled 11/06/17 13:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:00	
T172941-27 ADL 37-A [Soil] Sampled 11/06/17 13:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:30	
T172941-28 ADL 37-B [Soil] Sampled 11/06/17 13:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:30	
T172941-29 ADL 37-C [Soil] Sampled 11/06/17 13:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:30	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-30 ADL 25-A [Soil] Sampled 11/06/17 14:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 14:00	
T172941-31 ADL 25-B [Soil] Sampled 11/06/17 14:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 14:00	
T172941-32 ADL 25-C [Soil] Sampled 11/06/17 14:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 14:00	
T172941-33 ADL 26-A [Soil] Sampled 11/06/17 14:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 14:30	
STLC Pb	12/04/17 15:00	5	05/05/18 14:30	
STLC Leaching Procedure Metals	12/04/17 15:00	5	11/20/17 14:30	
T172941-34 ADL 26-B [Soil] Sampled 11/06/17 14:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 14:30	
STLC Pb	12/04/17 15:00	5	05/05/18 14:30	
STLC Leaching Procedure Metals	12/04/17 15:00	5	11/20/17 14:30	
T172941-35 ADL 26-C [Soil] Sampled 11/06/17 14:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 14:30	
T172941-36 ADL 24-A [Soil] Sampled 11/07/17 09:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 09:00	
T172941-37 ADL 24-B [Soil] Sampled 11/07/17 09:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 09:00	
T172941-38 ADL 24-C [Soil] Sampled 11/07/17 09:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 09:00	
T172941-39 ADL 22-A [Soil] Sampled 11/07/17 09:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 09:45	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-40 ADL 22-B [Soil] Sampled 11/07/17 09:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 09:45	
T172941-41 ADL 22-C [Soil] Sampled 11/07/17 09:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 09:45	
T172941-42 ADL 20-A [Soil] Sampled 11/07/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 10:15	
T172941-43 ADL 20-B [Soil] Sampled 11/07/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 10:15	
T172941-44 ADL 20-C [Soil] Sampled 11/07/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 10:15	
T172941-45 ADL 18-A [Soil] Sampled 11/07/17 10:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 10:45	
T172941-46 ADL 18-B [Soil] Sampled 11/07/17 10:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 10:45	
T172941-47 ADL 18-C [Soil] Sampled 11/07/17 10:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 10:45	
T172941-48 ADL 15-A [Soil] Sampled 11/07/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 11:30	
T172941-49 ADL 15-B [Soil] Sampled 11/07/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 11:30	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.

Project: SR99/120 Interchange

Project Manager: Lisa Nguyen

Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-50 ADL 15-C [Soil] Sampled 11/07/17 11:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 11:30	
STLC Pb	12/04/17 15:00	5	05/06/18 11:30	
STLC Leaching Procedure Metals	12/04/17 15:00	5	11/21/17 11:30	
T172941-51 ADL 16-A [Soil] Sampled 11/07/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 12:00	
T172941-52 ADL 16-B [Soil] Sampled 11/07/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 12:00	
T172941-53 ADL 16-C [Soil] Sampled 11/07/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 12:00	
T172941-54 ADL 44-A [Soil] Sampled 11/07/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 12:45	
T172941-55 ADL 44-B [Soil] Sampled 11/07/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 12:45	
T172941-56 ADL 44-C [Soil] Sampled 11/07/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 12:45	
T172941-57 ADL 45-A [Soil] Sampled 11/07/17 13:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 13:30	
T172941-58 ADL 45-B [Soil] Sampled 11/07/17 13:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 13:30	
T172941-59 ADL 45-C [Soil] Sampled 11/07/17 13:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 13:30	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.

Project Manager: Lisa Nguyen

Project: SR99/120 Interchange

Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-60 ADL 13-A [Soil] Sampled 11/07/17 14:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 14:00	
T172941-61 ADL 13-B [Soil] Sampled 11/07/17 14:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 14:00	
T172941-62 ADL 13-C [Soil] Sampled 11/07/17 14:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 14:00	
T172941-63 ADL 12-A [Soil] Sampled 11/07/17 14:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 14:30	
T172941-64 ADL 12-B [Soil] Sampled 11/07/17 14:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 14:30	
T172941-65 ADL 12-C [Soil] Sampled 11/07/17 14:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 14:30	
T172941-66 ADL 10-A [Soil] Sampled 11/07/17 15:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 15:00	
STLC Pb	12/04/17 15:00	5	05/06/18 15:00	
STLC Leaching Procedure Metals	12/04/17 15:00	5	11/21/17 15:00	
T172941-67 ADL 10-B [Soil] Sampled 11/07/17 15:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 15:00	
T172941-68 ADL 10-C [Soil] Sampled 11/07/17 15:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 15:00	
T172941-69 ADL 08-A [Soil] Sampled 11/07/17 15:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 15:45	
STLC Pb	12/04/17 15:00	5	05/06/18 15:45	
STLC Leaching Procedure Metals	12/04/17 15:00	5	11/21/17 15:45	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-70 ADL 08-B [Soil] Sampled 11/07/17 15:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 15:45	
T172941-71 ADL 08-C [Soil] Sampled 11/07/17 15:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 15:45	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.

Project: SR99/120 Interchange

Project Manager: Lisa Nguyen

Project Number: [none]

Report To:

Blackburn Consulting-West Sac.

Ryan Schmidt

2491 Boatman Ave.

West Sacramento, CA -

Date Due: 11/17/17 17:00 (5 day TAT)

Received By: Sunny Lounethone

Date Received: 11/10/17 10:55

Logged In By: Sunny Lounethone

Date Logged In: 11/10/17 12:00

Samples Received at: 5.3°C

Custody Seals Yes Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir No

Analysis	Due	TAT	Expires	Comments
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T172941-01 ADL 34-A [Soil] Sampled 11/06/17 09:00 (GMT-08:00) Pacific Time (US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:00	
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T172941-02 ADL 34-B [Soil] Sampled 11/06/17 09:00 (GMT-08:00) Pacific Time (US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:00	
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T172941-03 ADL 36-A [Soil] Sampled 11/06/17 09:30 (GMT-08:00) Pacific Time (US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:30	
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T172941-04 ADL 36-B [Soil] Sampled 11/06/17 09:30 (GMT-08:00) Pacific Time (US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:30	
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T172941-05 ADL 36-C [Soil] Sampled 11/06/17 09:30 (GMT-08:00) Pacific Time (US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:30	
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T172941-06 ADL 38-A [Soil] Sampled 11/06/17 10:00 (GMT-08:00) Pacific Time (US &

6010 Pb	11/17/17 15:00	5	05/05/18 10:00	
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T172941-07 ADL 38-B [Soil] Sampled 11/06/17 10:00 (GMT-08:00) Pacific Time (US &

6010 Pb	11/17/17 15:00	5	05/05/18 10:00	
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WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-08 ADL 38-C [Soil] Sampled 11/06/17 10:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 10:00	
T172941-09 ADL 46-A [Soil] Sampled 11/06/17 10:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 10:30	
T172941-10 ADL 46-B [Soil] Sampled 11/06/17 10:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 10:30	
T172941-11 ADL 46-C [Soil] Sampled 11/06/17 10:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 10:30	
T172941-12 ADL 47-A [Soil] Sampled 11/06/17 11:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:00	
T172941-13 ADL 47-B [Soil] Sampled 11/06/17 11:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:00	
T172941-14 ADL 47-C [Soil] Sampled 11/06/17 11:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:00	
T172941-15 ADL 48-A [Soil] Sampled 11/06/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:30	
T172941-16 ADL 48-B [Soil] Sampled 11/06/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:30	
T172941-17 ADL 48-C [Soil] Sampled 11/06/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:30	
T172941-18 ADL 49-A [Soil] Sampled 11/06/17 12:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 12:00	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-19 ADL 49-B [Soil] Sampled 11/06/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:00	
T172941-20 ADL 49-C [Soil] Sampled 11/06/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:00	
T172941-21 ADL 50-A [Soil] Sampled 11/06/17 12:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:30	
T172941-22 ADL 50-B [Soil] Sampled 11/06/17 12:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:30	
T172941-23 ADL 50-C [Soil] Sampled 11/06/17 12:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:30	
T172941-24 ADL 35-A [Soil] Sampled 11/06/17 13:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:00	
T172941-25 ADL 35-B [Soil] Sampled 11/06/17 13:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:00	
T172941-26 ADL 35-C [Soil] Sampled 11/06/17 13:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:00	
T172941-27 ADL 37-A [Soil] Sampled 11/06/17 13:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:30	
pH soil 9045	12/06/17 15:00	5	11/07/17 13:30	11/29/17 11:36, proceed with the analysis with samples outside the holding time criteria.
T172941-28 ADL 37-B [Soil] Sampled 11/06/17 13:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:30	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.

Project Manager: Lisa Nguyen

Project: SR99/120 Interchange

Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-29 ADL 37-C [Soil] Sampled 11/06/17 13:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:30	
T172941-30 ADL 25-A [Soil] Sampled 11/06/17 14:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 14:00	
T172941-31 ADL 25-B [Soil] Sampled 11/06/17 14:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 14:00	
T172941-32 ADL 25-C [Soil] Sampled 11/06/17 14:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 14:00	
T172941-33 ADL 26-A [Soil] Sampled 11/06/17 14:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 14:30	
STLC Pb	12/04/17 15:00	5	05/05/18 14:30	
STLC Leaching Procedure Metals	12/04/17 15:00	5	11/20/17 14:30	
T172941-34 ADL 26-B [Soil] Sampled 11/06/17 14:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 14:30	
STLC Pb	12/04/17 15:00	5	05/05/18 14:30	
STLC Leaching Procedure Metals	12/04/17 15:00	5	11/20/17 14:30	
T172941-35 ADL 26-C [Soil] Sampled 11/06/17 14:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 14:30	
T172941-36 ADL 24-A [Soil] Sampled 11/07/17 09:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 09:00	
T172941-37 ADL 24-B [Soil] Sampled 11/07/17 09:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 09:00	
T172941-38 ADL 24-C [Soil] Sampled 11/07/17 09:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 09:00	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-39 ADL 22-A [Soil] Sampled 11/07/17 09:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 09:45	
T172941-40 ADL 22-B [Soil] Sampled 11/07/17 09:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 09:45	
T172941-41 ADL 22-C [Soil] Sampled 11/07/17 09:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 09:45	
T172941-42 ADL 20-A [Soil] Sampled 11/07/17 10:15 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 10:15	
T172941-43 ADL 20-B [Soil] Sampled 11/07/17 10:15 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 10:15	
T172941-44 ADL 20-C [Soil] Sampled 11/07/17 10:15 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 10:15	
T172941-45 ADL 18-A [Soil] Sampled 11/07/17 10:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 10:45	
T172941-46 ADL 18-B [Soil] Sampled 11/07/17 10:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 10:45	
T172941-47 ADL 18-C [Soil] Sampled 11/07/17 10:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 10:45	
T172941-48 ADL 15-A [Soil] Sampled 11/07/17 11:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 11:30	
T172941-49 ADL 15-B [Soil] Sampled 11/07/17 11:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 11:30	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-50 ADL 15-C [Soil] Sampled 11/07/17 11:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 11:30	
STLC Pb	12/04/17 15:00	5	05/06/18 11:30	
STLC Leaching Procedure Metals	12/04/17 15:00	5	11/21/17 11:30	
T172941-51 ADL 16-A [Soil] Sampled 11/07/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 12:00	
T172941-52 ADL 16-B [Soil] Sampled 11/07/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 12:00	
T172941-53 ADL 16-C [Soil] Sampled 11/07/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 12:00	
T172941-54 ADL 44-A [Soil] Sampled 11/07/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 12:45	
T172941-55 ADL 44-B [Soil] Sampled 11/07/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 12:45	
T172941-56 ADL 44-C [Soil] Sampled 11/07/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 12:45	
T172941-57 ADL 45-A [Soil] Sampled 11/07/17 13:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 13:30	
T172941-58 ADL 45-B [Soil] Sampled 11/07/17 13:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 13:30	
T172941-59 ADL 45-C [Soil] Sampled 11/07/17 13:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 13:30	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-60 ADL 13-A [Soil] Sampled 11/07/17 14:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 14:00	
T172941-61 ADL 13-B [Soil] Sampled 11/07/17 14:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 14:00	
T172941-62 ADL 13-C [Soil] Sampled 11/07/17 14:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 14:00	
T172941-63 ADL 12-A [Soil] Sampled 11/07/17 14:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 14:30	
T172941-64 ADL 12-B [Soil] Sampled 11/07/17 14:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 14:30	
T172941-65 ADL 12-C [Soil] Sampled 11/07/17 14:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 14:30	
T172941-66 ADL 10-A [Soil] Sampled 11/07/17 15:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 15:00	
STLC Pb	12/04/17 15:00	5	05/06/18 15:00	
STLC Leaching Procedure Metals	12/04/17 15:00	5	11/21/17 15:00	
T172941-67 ADL 10-B [Soil] Sampled 11/07/17 15:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 15:00	
T172941-68 ADL 10-C [Soil] Sampled 11/07/17 15:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 15:00	
T172941-69 ADL 08-A [Soil] Sampled 11/07/17 15:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 15:45	
STLC Pb	12/04/17 15:00	5	05/06/18 15:45	
STLC Leaching Procedure Metals	12/04/17 15:00	5	11/21/17 15:45	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-70 ADL 08-B [Soil] Sampled 11/07/17 15:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 15:45	
T172941-71 ADL 08-C [Soil] Sampled 11/07/17 15:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 15:45	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.

Project: SR99/120 Interchange

Project Manager: Lisa Nguyen

Project Number: [none]

Report To:

Blackburn Consulting-West Sac.

Ryan Schmidt

2491 Boatman Ave.

West Sacramento, CA -

Date Due: 11/17/17 17:00 (5 day TAT)

Received By: Sunny Lounethone

Date Received: 11/10/17 10:55

Logged In By: Sunny Lounethone

Date Logged In: 11/10/17 12:00

Samples Received at: 5.3°C

Custody Seals Yes Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir No

Analysis	Due	TAT	Expires	Comments
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T172941-01 ADL 34-A [Soil] Sampled 11/06/17 09:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:00
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T172941-02 ADL 34-B [Soil] Sampled 11/06/17 09:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:00
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T172941-03 ADL 36-A [Soil] Sampled 11/06/17 09:30 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:30
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T172941-04 ADL 36-B [Soil] Sampled 11/06/17 09:30 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:30
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T172941-05 ADL 36-C [Soil] Sampled 11/06/17 09:30 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 09:30
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T172941-06 ADL 38-A [Soil] Sampled 11/06/17 10:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 10:00
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T172941-07 ADL 38-B [Soil] Sampled 11/06/17 10:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/05/18 10:00
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WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-08 ADL 38-C [Soil] Sampled 11/06/17 10:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 10:00	
T172941-09 ADL 46-A [Soil] Sampled 11/06/17 10:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 10:30	
T172941-10 ADL 46-B [Soil] Sampled 11/06/17 10:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 10:30	
T172941-11 ADL 46-C [Soil] Sampled 11/06/17 10:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 10:30	
T172941-12 ADL 47-A [Soil] Sampled 11/06/17 11:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:00	
T172941-13 ADL 47-B [Soil] Sampled 11/06/17 11:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:00	
T172941-14 ADL 47-C [Soil] Sampled 11/06/17 11:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:00	
T172941-15 ADL 48-A [Soil] Sampled 11/06/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:30	
T172941-16 ADL 48-B [Soil] Sampled 11/06/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:30	
T172941-17 ADL 48-C [Soil] Sampled 11/06/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 11:30	
T172941-18 ADL 49-A [Soil] Sampled 11/06/17 12:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/05/18 12:00	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.

Project Manager: Lisa Nguyen

Project: SR99/120 Interchange

Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-19 ADL 49-B [Soil] Sampled 11/06/17 12:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:00	
T172941-20 ADL 49-C [Soil] Sampled 11/06/17 12:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:00	
T172941-21 ADL 50-A [Soil] Sampled 11/06/17 12:30 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:30	
T172941-22 ADL 50-B [Soil] Sampled 11/06/17 12:30 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:30	
T172941-23 ADL 50-C [Soil] Sampled 11/06/17 12:30 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/05/18 12:30	
T172941-24 ADL 35-A [Soil] Sampled 11/06/17 13:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:00	
T172941-25 ADL 35-B [Soil] Sampled 11/06/17 13:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:00	
T172941-26 ADL 35-C [Soil] Sampled 11/06/17 13:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:00	
T172941-27 ADL 37-A [Soil] Sampled 11/06/17 13:30 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:30	
pH soil 9045	11/30/17 15:00	5	11/07/17 13:30	11/29/17 11:36, proceed with the analysis with samples outside the holding time criteria.
T172941-28 ADL 37-B [Soil] Sampled 11/06/17 13:30 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:30	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.

Project Manager: Lisa Nguyen

Project: SR99/120 Interchange

Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-29 ADL 37-C [Soil] Sampled 11/06/17 13:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 13:30	
T172941-30 ADL 25-A [Soil] Sampled 11/06/17 14:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 14:00	
T172941-31 ADL 25-B [Soil] Sampled 11/06/17 14:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 14:00	
T172941-32 ADL 25-C [Soil] Sampled 11/06/17 14:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 14:00	
T172941-33 ADL 26-A [Soil] Sampled 11/06/17 14:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 14:30	
STLC Pb	12/01/17 15:00	4	05/05/18 14:30	
STLC Leaching Procedure Metals	12/01/17 15:00	4	11/20/17 14:30	
T172941-34 ADL 26-B [Soil] Sampled 11/06/17 14:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 14:30	
STLC Pb	12/01/17 15:00	4	05/05/18 14:30	
STLC Leaching Procedure Metals	12/01/17 15:00	4	11/20/17 14:30	
T172941-35 ADL 26-C [Soil] Sampled 11/06/17 14:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/05/18 14:30	
T172941-36 ADL 24-A [Soil] Sampled 11/07/17 09:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 09:00	
T172941-37 ADL 24-B [Soil] Sampled 11/07/17 09:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 09:00	
T172941-38 ADL 24-C [Soil] Sampled 11/07/17 09:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 09:00	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.

Project Manager: Lisa Nguyen

Project: SR99/120 Interchange

Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-39 ADL 22-A [Soil] Sampled 11/07/17 09:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 09:45	
T172941-40 ADL 22-B [Soil] Sampled 11/07/17 09:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 09:45	
T172941-41 ADL 22-C [Soil] Sampled 11/07/17 09:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 09:45	
T172941-42 ADL 20-A [Soil] Sampled 11/07/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 10:15	
T172941-43 ADL 20-B [Soil] Sampled 11/07/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 10:15	
T172941-44 ADL 20-C [Soil] Sampled 11/07/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 10:15	
T172941-45 ADL 18-A [Soil] Sampled 11/07/17 10:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 10:45	
T172941-46 ADL 18-B [Soil] Sampled 11/07/17 10:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 10:45	
T172941-47 ADL 18-C [Soil] Sampled 11/07/17 10:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 10:45	
T172941-48 ADL 15-A [Soil] Sampled 11/07/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 11:30	
T172941-49 ADL 15-B [Soil] Sampled 11/07/17 11:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 11:30	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.

Project Manager: Lisa Nguyen

Project: SR99/120 Interchange

Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-50 ADL 15-C [Soil] Sampled 11/07/17 11:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 11:30	
STLC Pb	12/01/17 15:00	4	05/06/18 11:30	
STLC Leaching Procedure Metals	12/01/17 15:00	4	11/21/17 11:30	
T172941-51 ADL 16-A [Soil] Sampled 11/07/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 12:00	
T172941-52 ADL 16-B [Soil] Sampled 11/07/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 12:00	
T172941-53 ADL 16-C [Soil] Sampled 11/07/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 12:00	
T172941-54 ADL 44-A [Soil] Sampled 11/07/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 12:45	
T172941-55 ADL 44-B [Soil] Sampled 11/07/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 12:45	
T172941-56 ADL 44-C [Soil] Sampled 11/07/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 12:45	
T172941-57 ADL 45-A [Soil] Sampled 11/07/17 13:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 13:30	
T172941-58 ADL 45-B [Soil] Sampled 11/07/17 13:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 13:30	
T172941-59 ADL 45-C [Soil] Sampled 11/07/17 13:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/06/18 13:30	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-60 ADL 13-A [Soil] Sampled 11/07/17 14:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/06/18 14:00	
T172941-61 ADL 13-B [Soil] Sampled 11/07/17 14:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/06/18 14:00	
T172941-62 ADL 13-C [Soil] Sampled 11/07/17 14:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/06/18 14:00	
T172941-63 ADL 12-A [Soil] Sampled 11/07/17 14:30 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/06/18 14:30	
T172941-64 ADL 12-B [Soil] Sampled 11/07/17 14:30 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/06/18 14:30	
T172941-65 ADL 12-C [Soil] Sampled 11/07/17 14:30 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/06/18 14:30	
T172941-66 ADL 10-A [Soil] Sampled 11/07/17 15:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/06/18 15:00	
STLC Pb	12/01/17 15:00	4	05/06/18 15:00	
STLC Leaching Procedure Metals	12/01/17 15:00	4	11/21/17 15:00	
T172941-67 ADL 10-B [Soil] Sampled 11/07/17 15:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/06/18 15:00	
T172941-68 ADL 10-C [Soil] Sampled 11/07/17 15:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/06/18 15:00	
T172941-69 ADL 08-A [Soil] Sampled 11/07/17 15:45 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/06/18 15:45	
STLC Pb	12/01/17 15:00	4	05/06/18 15:45	
STLC Leaching Procedure Metals	12/01/17 15:00	4	11/21/17 15:45	

WORK ORDER

T172941

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T172941-70 ADL 08-B [Soil] Sampled 11/07/17 15:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 15:45	
T172941-71 ADL 08-C [Soil] Sampled 11/07/17 15:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/06/18 15:45	



25712 Commercentre Drive
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949.297.5027 Fax

01 December 2017

Ryan Schmidt
Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento, CA -
RE: SR99/120 Interchange

Enclosed are the results of analyses for samples received by the laboratory on 11/10/17 10:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Nguyen
Project Manager Assistant



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Lake Forest, California 92630
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949.297.5027 Fax

Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
12/01/17 17:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ADL 09-C	T172943-06	Soil	11/08/17 09:45	11/10/17 10:55
ADL 14-A	T172943-25	Soil	11/08/17 15:00	11/10/17 10:55
ADL 14-C	T172943-27	Soil	11/08/17 15:00	11/10/17 10:55
ADL 19-A	T172943-31	Soil	11/09/17 09:00	11/10/17 10:55
ADL 21-A	T172943-34	Soil	11/09/17 09:45	11/10/17 10:55
ADL 29-A	T172943-43	Soil	11/09/17 12:00	11/10/17 10:55

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.

Lisa Nguyen, Project Manager Assistant

Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
12/01/17 17:05

DETECTIONS SUMMARY

Sample ID: ADL 09-C

Laboratory ID: T172943-06

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
pH	6.7	0.1	pH Units	EPA 9045B	O-09

Sample ID: ADL 14-A

Laboratory ID: T172943-25

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	7.2	0.10	mg/l	STLC Waste Extraction T	

Sample ID: ADL 14-C

Laboratory ID: T172943-27

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
pH	6.3	0.1	pH Units	EPA 9045B	O-09

Sample ID: ADL 19-A

Laboratory ID: T172943-31

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	3.3	0.10	mg/l	STLC Waste Extraction T	

Sample ID: ADL 21-A

Laboratory ID: T172943-34

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
pH	6.8	0.1	pH Units	EPA 9045B	O-09

Sample ID: ADL 29-A

Laboratory ID: T172943-43

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Lead	0.56	0.10	mg/l	STLC Waste Extraction T	

SunStar Laboratories, Inc.

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2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
12/01/17 17:05

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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
12/01/17 17:05

ADL 09-C
T172943-06 (Soil)

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

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

pH	6.7	0.1	pH Units	1	7112918	11/29/17	11/29/17	EPA 9045B	O-09
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SunStar Laboratories, Inc.

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Lisa Nguyen, Project Manager Assistant



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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
12/01/17 17:05

ADL 14-A
T172943-25 (Soil)

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

STLC Metals by 6000/7000 Series Methods

Lead	7.2	0.10	mg/l	1	7112927	11/29/17	12/01/17	STLC Waste Extraction Test	
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SunStar Laboratories, Inc.

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Lisa Nguyen, Project Manager Assistant



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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
12/01/17 17:05

ADL 14-C
T172943-27 (Soil)

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

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

pH	6.3	0.1	pH Units	1	7112918	11/29/17	11/29/17	EPA 9045B	O-09
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SunStar Laboratories, Inc.

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2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
12/01/17 17:05

ADL 19-A
T172943-31 (Soil)

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

STLC Metals by 6000/7000 Series Methods

Lead	3.3	0.10	mg/l	1	7112927	11/29/17	12/01/17	STLC Waste Extraction Test	
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SunStar Laboratories, Inc.

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Blackburn Consulting-West Sac.
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West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
12/01/17 17:05

ADL 21-A
T172943-34 (Soil)

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

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods

pH	6.8	0.1	pH Units	1	7112918	11/29/17	11/29/17	EPA 9045B	O-09
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SunStar Laboratories, Inc.

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Lisa Nguyen, Project Manager Assistant



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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
12/01/17 17:05

ADL 29-A
T172943-43 (Soil)

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

STLC Metals by 6000/7000 Series Methods

Lead	0.56	0.10	mg/l	1	7112927	11/29/17	12/01/17	STLC Waste Extraction Test	
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SunStar Laboratories, Inc.

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Lisa Nguyen, Project Manager Assistant



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Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
12/01/17 17:05

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 7112927 - STLC Metals

Blank (7112927-BLK1)

Prepared: 11/29/17 Analyzed: 12/01/17

Lead	ND	0.10	mg/l
Chromium	ND	0.10	"
Barium	ND	0.10	"

LCS (7112927-BS1)

Prepared: 11/29/17 Analyzed: 12/01/17

Lead	10.2	0.10	mg/l	10.0		102	75-125
Chromium	9.82	0.10	"	10.0		98.2	0-200
Barium	9.77	0.10	"	10.0		97.7	0-200
Cadmium	9.75	0.10	"	10.0		97.5	0-200

Matrix Spike (7112927-MS1)

Source: T172943-25

Prepared: 11/29/17 Analyzed: 12/01/17

Lead	15.8	0.10	mg/l	10.0	7.19	86.4	75-125
Chromium	9.52	0.10	"	10.0	0.0972	94.3	0-200
Barium	13.4	0.10	"	10.0	4.81	85.5	0-200
Cadmium	9.36	0.10	"	10.0	ND	93.6	0-200

Matrix Spike Dup (7112927-MSD1)

Source: T172943-25

Prepared: 11/29/17 Analyzed: 12/01/17

Lead	16.0	0.10	mg/l	10.0	7.19	88.0	75-125	1.00	30
Chromium	9.57	0.10	"	10.0	0.0972	94.7	0-200	0.441	200
Barium	13.5	0.10	"	10.0	4.81	87.0	0-200	1.14	200
Cadmium	9.37	0.10	"	10.0	ND	93.7	0-200	0.0253	200

SunStar Laboratories, Inc.

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Lisa Nguyen, Project Manager Assistant



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West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
12/01/17 17:05

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 7112918 - General Preparation

Duplicate (7112918-DUP1)

Source: T172941-27

Prepared & Analyzed: 11/29/17

pH	8.04	0.1	pH Units	8.05	0.124	20	O-09
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SunStar Laboratories, Inc.

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Lisa Nguyen, Project Manager Assistant



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Blackburn Consulting-West Sac.
2491 Boatman Ave.
West Sacramento CA, -

Project: SR99/120 Interchange
Project Number: 2998.X
Project Manager: Ryan Schmidt

Reported:
12/01/17 17:05

Notes and Definitions

O-09 The sample was analyzed outside the EPA recommended holding time of 24 hours.

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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Lisa Nguyen, Project Manager Assistant

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE
25712 Commerce Centre Drive, Lake Forest, CA 92630
949-297-5020

Client: Blackburn Consulting
Address: _____
Phone: 707 537 5776 Fax: _____
Project Manager: Ryan Schmidt

Date: 11/9/17 Page: 3 of 4
Project Name: SZ99/120 Interchange
Collector: _____ Client Project #: 2998.8
Batch #: T172943 EDF #: _____

[illegible]

Sample disposal Instructions: Disposal @ \$2.00 each _____

Return to client

Pickup

COC 160742

Client: Blackburn Consulting
Address: _____
Phone: 707 537 5776 Fax: _____
Project Manager: Rygen Schmidt

Date: 11/9/17 Page: 4 of 4
Project Name: SE99/120 Interchange
Collector: TT172943 Client Project #: 2998.X
Batch #: _____ EDF #: _____

[illegible]

Sample disposal instructions: Disposal @ \$2.00 each _____

Return to client

Pickup

COC 160743

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T172943

Client Name: Blackburn Consulting - West Sacramento Project: SR99/120 Interchange

Delivered by: ☐ Client ☐ SunStar Courier ☒ GSO ☐ FedEx ☐ Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: Sunny Date/Time Lab Received: 11-10-17 10:55

Total number of coolers received: 1

Temperature:	Cooler #1	5.5	°C +/- the CF (- 0.2°C) =	5.3	°C corrected temperature
Temperature:	Cooler #2		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature:	Cooler #3		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)			Within criteria?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If NO:					
Samples received on ice?			<input type="checkbox"/> Yes		<input type="checkbox"/> No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?			<input type="checkbox"/> Yes → Acceptable		<input type="checkbox"/> No → Complete Non-Conformance Sheet

Custody seals intact on cooler/sample ☒ Yes ☐ No* ☐ N/A

Sample containers intact ☒ Yes ☐ No*

Sample labels match Chain of Custody IDs ☒ 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: DM 11-10-17

Comments:

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # _____ T172943 _____

▪ **COOLERS**

- ☐ Not Received (received COC only)
- ☐ Leaking/Damaged
- ☐ Other:

▪ **CUSTODY SEALS**

- ☐ None
- ☐ Not Intact

▪ **TEMPERATURE (Temp criteria = $\leq 6^{\circ}\text{C}$)**

- ☐ Cooler/Sample Temp(s)
- ☐ Temperature Blank(s)

▪ **CHAIN OF CUSTODY (COC)**

- ☐ Not relinquished by client; No date/time relinquished
- ☐ Incomplete information provided
- ☐ COC not received – notify PM

▪ **CONTAINERS**

- ☐ Leaking ☐ Broken
- ☐ Extra ☐ Missing

▪ **LABELS**

- ☐ Not the same sample ID / info as on the COC
- ☐ Incomplete Information
- ☐ Markings/Info illegible

▪ **SAMPLES**

- ☐ Samples **NOT RECEIVED** but listed on COC
- ☐ Samples received but **NOT LISTED** on COC
- ☐ Logged based on Label Information and not COC
- ☐ Logged according to Work Plan and not COC
- ☐ Logged in, **ON HOLD** until further notice
- ☐ Insufficient quantities for analysis
- ☐ Improper container used
- ☐ Mislabelled as to tests, preservatives, etc.
- ☐ Holding time expired – list sample ID and test
- ☐ Not preserved/Improper preservative used
- ☐ Without Labels, no information on containers
- ☐ Other

Comments:

COC was filled out improperly.

Sample fractioning only if broken container compromises other samples or if out of temp reading impacts more than one cooler

Fraction													Preser.
VOA													

Lisa

From: Ryan Schmidt [ryans@blackburnconsulting.com]
Sent: Monday, November 27, 2017 2:43 PM
To: Lisa
Subject: RE: Report for SR99/120 Interchange (T172943)

We will need STLC-WET testing for the following samples from this report:

ADL 14-A
ADL 19-A
ADL 29-A

Thanks!

From: Lisa [<mailto:lisa@sunstarlabs.com>]
Sent: Friday, November 17, 2017 2:18 PM
To: Ryan Schmidt <ryans@blackburnconsulting.com>
Subject: Report for SR99/120 Interchange (T172943)

Hello Ryan,

Attached is the final report for the following:

Project: SR99/120 Interchange
Project Number: 2998.x

Please let me know if you have any concerns or need any further analyses. Thank you for choosing SunStar Labs.

Lisa Nguyen
Project Manager Assistant



25712 Commercentre Dr., Lake Forest, CA 92630
Office: (949) 297-5020 | Fax: (949) 297-5027
CA ELAP Certification: 2250 | CA Small Business Certification: 31511

Shipping Alert:

Please note that SunStar Laboratories will be observing the Thanksgiving holiday on Thursday and Friday, November 23th and 24th. In addition, GSO will not have scheduled service on Thursday, November 23th. If you have any short hold samples arriving on Wednesday or during these days, please contact your Project Manager in advance to ensure all holding times are met for your samples. We appreciate your business and hope that you have a fantastic and safe holiday!

Lisa

From: Ryan Schmidt [ryans@blackburnconsulting.com]
Sent: Wednesday, November 29, 2017 2:27 PM
To: Lisa
Subject: RE: Report for SR99/120 Interchange (T172943) and (T172941)

Please proceed, Thanks!

Ryan Schmidt | Project Engineer | Cell: (707)537-5776

Blackburn Consulting | 2491 Boatman Avenue, West Sacramento, CA 95691 | *Geotechnical* | *Geo-Environmental* | *Construction Services* | *Forensics*
"Our Signature is Excellence"

From: Lisa [mailto:lisa@sunstarlabs.com]
Sent: Wednesday, November 29, 2017 2:26 PM
To: Ryan Schmidt <ryans@blackburnconsulting.com>
Subject: RE: Report for SR99/120 Interchange (T172943) and (T172941)

I can expedite the samples to be delivered by end of business tomorrow. Would you like to proceed?

Lisa Nguyen
Project Manager Assistant



25712 Commercentre Dr., Lake Forest, CA 92630
Office: (949) 297-5020 | Fax: (949) 297-5027
CA ELAP Certification: 2250 | CA Small Business Certification: 31511

From: Ryan Schmidt [mailto:ryans@blackburnconsulting.com]
Sent: Wednesday, November 29, 2017 12:59 PM
To: Lisa
Subject: RE: Report for SR99/120 Interchange (T172943) and (T172941)

Hey Lisa sorry to keep bothering you. But can we expedite all testing at this point, I just got approval for it. And also, for the stlc wet are we first using the citric method?

Get [Outlook for Android](#)

From: Lisa <lisa@sunstarlabs.com>
Sent: Wednesday, November 29, 2017 11:57:26 AM
To: Ryan Schmidt
Subject: RE: Report for SR99/120 Interchange (T172943) and (T172941)

Attached are the additional work orders with pH analysis you've requested. I don't believe amount of sample will be a problem, but I will let you know if anything comes out.

Thank you,

Lisa Nguyen
Project Manager Assistant



25712 Commercentre Dr., Lake Forest, CA 92630
Office: (949) 297-5020 | Fax: (949) 297-5027
CA ELAP Certification: 2250 | CA Small Business Certification: 31511

From: Ryan Schmidt [<mailto:ryans@blackburnconsulting.com>]
Sent: Wednesday, November 29, 2017 11:36 AM
To: Lisa
Subject: RE: Report for SR99/120 Interchange (T172943) and (T172941)

Let's still proceed. Thanks. Let me know if the samples listed are not available!

Ryan Schmidt | Project Engineer | Cell: (707)537-5776
Blackburn Consulting | 2491 Boatman Avenue, West Sacramento, CA 95691 | *Geotechnical* | *Geo-Environmental* | *Construction Services* | *Forensics*
"Our Signature is Excellence"

From: Lisa [<mailto:lisa@sunstarlabs.com>]
Sent: Wednesday, November 29, 2017 11:35 AM
To: Ryan Schmidt <ryans@blackburnconsulting.com>
Subject: RE: Report for SR99/120 Interchange (T172943) and (T172941)

Hello Ryan,

Sure. The standard TAT is 5 days. It's a simple test and the chemists are fairly quick with that test, so I don't believe it should be a problem with them having results ready by the time all the other analyses requested are due. However, the soils are out of hold time criteria for pH analysis. Would you still want to proceed? I will also have to confirm if we have enough samples as well and will get back to you shortly on this.

Thank you,

Lisa Nguyen
Project Manager Assistant



25712 Commercentre Dr., Lake Forest, CA 92630
Office: (949) 297-5020 | Fax: (949) 297-5027
CA ELAP Certification: 2250 | CA Small Business Certification: 31511

From: Ryan Schmidt [<mailto:ryans@blackburnconsulting.com>]
Sent: Wednesday, November 29, 2017 11:27 AM
To: Lisa
Subject: RE: Report for SR99/120 Interchange (T172943) and (T172941)

Lisa can we test 4 random samples (ADL 19B, ADL 37A, ADL 9C, and ADL 21A) from both work orders for this project for pH and have those results included in the final report as well? Not sure if you can combine both reports once all analysis has been completed. Also what is the TAT for pH?

Thanks

Ryan Schmidt | Project Engineer | Cell: (707)537-5776
Blackburn Consulting | 2491 Boatman Avenue, West Sacramento, CA 95691 | *Geotechnical* | *Geo-Environmental* | *Construction Services* | *Forensics*
"Our Signature is Excellence"

From: Lisa [<mailto:lisa@sunstarlabs.com>]
Sent: Monday, November 27, 2017 3:46 PM
To: Ryan Schmidt <ryans@blackburnconsulting.com>
Subject: RE: Report for SR99/120 Interchange (T172943)

Attached is the additional work order with STLC Pb on a standard TAT that you've requested. Results are scheduled to be delivered by end of business on 12/04/17. Please carefully review the attachments and let me know if you have any questions or concerns.

Thank you,

Lisa Nguyen
Project Manager Assistant



25712 Commercentre Dr., Lake Forest, CA 92630
Office: (949) 297-5020 | Fax: (949) 297-5027
CA ELAP Certification: 2250 | CA Small Business Certification: 31511

From: Ryan Schmidt [<mailto:ryans@blackburnconsulting.com>]
Sent: Monday, November 27, 2017 2:43 PM
To: Lisa
Subject: RE: Report for SR99/120 Interchange (T172943)

We will need STLC-WET testing for the following samples from this report:

ADL 14-A
ADL 19-A
ADL 29-A

Thanks!

From: Lisa [<mailto:lisa@sunstarlabs.com>]
Sent: Friday, November 17, 2017 2:18 PM
To: Ryan Schmidt <ryans@blackburnconsulting.com>
Subject: Report for SR99/120 Interchange (T172943)

Hello Ryan,

Attached is the final report for the following:

Project: SR99/120 Interchange
Project Number: 2998.x

Please let me know if you have any concerns or need any further analyses. Thank you for choosing SunStar Labs.

Lisa Nguyen
Project Manager Assistant



25712 Commercentre Dr., Lake Forest, CA 92630
Office: (949) 297-5020 | Fax: (949) 297-5027
CA ELAP Certification: 2250 | CA Small Business Certification: 31511

Shipping Alert:

Please note that SunStar Laboratories will be observing the Thanksgiving holiday on Thursday and Friday, November 23th and 24th. In addition, GSO will not have scheduled service on Thursday, November 23th. If you have any short hold samples arriving on Wednesday or during these days, please contact your Project Manager in advance to ensure all holding times are met for your samples. We appreciate your business and hope that you have a fantastic and safe holiday!

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.

Project: SR99/120 Interchange

Project Manager: Lisa Nguyen

Project Number: 2998.X

Report To:

Blackburn Consulting-West Sac.

Ryan Schmidt

2491 Boatman Ave.

West Sacramento, CA -

Date Due: 11/17/17 17:00 (5 day TAT)

Received By: Dan Marteski

Date Received: 11/10/17 10:55

Logged In By: Dan Marteski

Date Logged In: 11/10/17 12:25

Samples Received at: 5.3°C

Custody Seals Yes Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
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T172943-01 ADL 07-A [Soil] Sampled 11/08/17 09:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:00
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T172943-02 ADL 07-B [Soil] Sampled 11/08/17 09:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:00
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T172943-03 ADL 07-C [Soil] Sampled 11/08/17 09:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:00
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T172943-04 ADL 09-A [Soil] Sampled 11/08/17 09:45 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:45
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T172943-05 ADL 09-B [Soil] Sampled 11/08/17 09:45 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:45
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T172943-06 ADL 09-C [Soil] Sampled 11/08/17 09:45 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:45
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T172943-07 ADL 11-A [Soil] Sampled 11/08/17 10:30 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 10:30
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WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-08 ADL 11-B [Soil] Sampled 11/08/17 10:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 10:30	
T172943-09 ADL 11-C [Soil] Sampled 11/08/17 10:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 10:30	
T172943-10 ADL 39-A [Soil] Sampled 11/08/17 11:15 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 11:15	
T172943-11 ADL 39-B [Soil] Sampled 11/08/17 11:15 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 11:15	
T172943-12 ADL 39-C [Soil] Sampled 11/08/17 11:15 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 11:15	
T172943-13 ADL 41-A [Soil] Sampled 11/08/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:00	
T172943-14 ADL 41-B [Soil] Sampled 11/08/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:00	
T172943-15 ADL 41-C [Soil] Sampled 11/08/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:00	
T172943-16 ADL 43-A [Soil] Sampled 11/08/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:45	
T172943-17 ADL 43-B [Soil] Sampled 11/08/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:45	
T172943-18 ADL 43-C [Soil] Sampled 11/08/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:45	

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-19 ADL 40-A [Soil] Sampled 11/08/17 13:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/07/18 13:30	
T172943-20 ADL 40-B [Soil] Sampled 11/08/17 13:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/07/18 13:30	
T172943-21 ADL 40-C [Soil] Sampled 11/08/17 13:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/07/18 13:30	
T172943-22 ADL 42-A [Soil] Sampled 11/08/17 14:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/07/18 14:15	
T172943-23 ADL 42-B [Soil] Sampled 11/08/17 14:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/07/18 14:15	
T172943-24 ADL 42-C [Soil] Sampled 11/08/17 14:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/07/18 14:15	
T172943-25 ADL 14-A [Soil] Sampled 11/08/17 15:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/07/18 15:00	
T172943-26 ADL 14-B [Soil] Sampled 11/08/17 15:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/07/18 15:00	
T172943-27 ADL 14-C [Soil] Sampled 11/08/17 15:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/07/18 15:00	
T172943-28 ADL 17-A [Soil] Sampled 11/08/17 15:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/07/18 15:45	
T172943-29 ADL 17-B [Soil] Sampled 11/08/17 15:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/07/18 15:45	

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-30 ADL 17-C [Soil] Sampled 11/08/17 15:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/07/18 15:45	
T172943-31 ADL 19-A [Soil] Sampled 11/09/17 09:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:00	
T172943-32 ADL 19-B [Soil] Sampled 11/09/17 09:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:00	
T172943-33 ADL 19-C [Soil] Sampled 11/09/17 09:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:00	
T172943-34 ADL 21-A [Soil] Sampled 11/09/17 09:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:45	
T172943-35 ADL 21-B [Soil] Sampled 11/09/17 09:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:45	
T172943-36 ADL 21-C [Soil] Sampled 11/09/17 09:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:45	
T172943-37 ADL 23-A [Soil] Sampled 11/09/17 10:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:30	
T172943-38 ADL 23-B [Soil] Sampled 11/09/17 10:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:30	
T172943-39 ADL 23-C [Soil] Sampled 11/09/17 10:30 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:30	
T172943-40 ADL 28-A [Soil] Sampled 11/09/17 11:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 11:15	

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-41 ADL 28-B [Soil] Sampled 11/09/17 11:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 11:15	
T172943-42 ADL 28-C [Soil] Sampled 11/09/17 11:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 11:15	
T172943-43 ADL 29-A [Soil] Sampled 11/09/17 12:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 12:00	
T172943-44 ADL 29-B [Soil] Sampled 11/09/17 12:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 12:00	
T172943-45 ADL 29-C [Soil] Sampled 11/09/17 12:00 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 12:00	
T172943-46 ADL 27-A [Soil] Sampled 11/09/17 12:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 12:45	
T172943-47 ADL 27-B [Soil] Sampled 11/09/17 12:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 12:45	
T172943-48 ADL 27-C [Soil] Sampled 11/09/17 12:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 12:45	
T172943-49 ADL 30-A [Soil] Sampled 11/09/17 09:20 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:20	
T172943-50 ADL 30-B [Soil] Sampled 11/09/17 09:20 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:20	
T172943-51 ADL 30-C [Soil] Sampled 11/09/17 09:20 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:20	

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-52 ADL 31-A [Soil] Sampled 11/09/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:15	
T172943-53 ADL 31-B [Soil] Sampled 11/09/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:15	
T172943-54 ADL 31-C [Soil] Sampled 11/09/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:15	
T172943-55 ADL 32-A [Soil] Sampled 11/09/17 10:50 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:50	
T172943-56 ADL 32-B [Soil] Sampled 11/09/17 10:50 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:50	
T172943-57 ADL 32-C [Soil] Sampled 11/09/17 10:50 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:50	
T172943-58 ADL 33-A [Soil] Sampled 11/09/17 11:35 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 11:35	
T172943-59 ADL 33-B [Soil] Sampled 11/09/17 11:35 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 11:35	
T172943-60 ADL 33-C [Soil] Sampled 11/09/17 11:35 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 11:35	

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.

Project: SR99/120 Interchange

Project Manager: Lisa Nguyen

Project Number: 2998.X

Report To:

Blackburn Consulting-West Sac.

Ryan Schmidt

2491 Boatman Ave.

West Sacramento, CA -

Date Due: 11/17/17 17:00 (5 day TAT)

Received By: Dan Marteski

Date Received: 11/10/17 10:55

Logged In By: Dan Marteski

Date Logged In: 11/10/17 12:25

Samples Received at: 5.3°C

Custody Seals Yes Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
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T172943-01 ADL 07-A [Soil] Sampled 11/08/17 09:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:00
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T172943-02 ADL 07-B [Soil] Sampled 11/08/17 09:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:00
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T172943-03 ADL 07-C [Soil] Sampled 11/08/17 09:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:00
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T172943-04 ADL 09-A [Soil] Sampled 11/08/17 09:45 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:45
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T172943-05 ADL 09-B [Soil] Sampled 11/08/17 09:45 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:45
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T172943-06 ADL 09-C [Soil] Sampled 11/08/17 09:45 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:45
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T172943-07 ADL 11-A [Soil] Sampled 11/08/17 10:30 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 10:30
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WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-08 ADL 11-B [Soil] Sampled 11/08/17 10:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 10:30	
T172943-09 ADL 11-C [Soil] Sampled 11/08/17 10:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 10:30	
T172943-10 ADL 39-A [Soil] Sampled 11/08/17 11:15 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 11:15	
T172943-11 ADL 39-B [Soil] Sampled 11/08/17 11:15 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 11:15	
T172943-12 ADL 39-C [Soil] Sampled 11/08/17 11:15 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 11:15	
T172943-13 ADL 41-A [Soil] Sampled 11/08/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:00	
T172943-14 ADL 41-B [Soil] Sampled 11/08/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:00	
T172943-15 ADL 41-C [Soil] Sampled 11/08/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:00	
T172943-16 ADL 43-A [Soil] Sampled 11/08/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:45	
T172943-17 ADL 43-B [Soil] Sampled 11/08/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:45	
T172943-18 ADL 43-C [Soil] Sampled 11/08/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:45	

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.

Project: SR99/120 Interchange

Project Manager: Lisa Nguyen

Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-19 ADL 40-A [Soil] Sampled 11/08/17 13:30 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 13:30	
T172943-20 ADL 40-B [Soil] Sampled 11/08/17 13:30 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 13:30	
T172943-21 ADL 40-C [Soil] Sampled 11/08/17 13:30 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 13:30	
T172943-22 ADL 42-A [Soil] Sampled 11/08/17 14:15 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 14:15	
T172943-23 ADL 42-B [Soil] Sampled 11/08/17 14:15 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 14:15	
T172943-24 ADL 42-C [Soil] Sampled 11/08/17 14:15 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 14:15	
T172943-25 ADL 14-A [Soil] Sampled 11/08/17 15:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 15:00	
STLC Pb	12/04/17 15:00	5	05/07/18 15:00	
STLC Leaching Procedure Metals	12/04/17 15:00	5	11/22/17 15:00	
T172943-26 ADL 14-B [Soil] Sampled 11/08/17 15:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 15:00	
T172943-27 ADL 14-C [Soil] Sampled 11/08/17 15:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 15:00	
T172943-28 ADL 17-A [Soil] Sampled 11/08/17 15:45 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 15:45	

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.

Project Manager: Lisa Nguyen

Project: SR99/120 Interchange

Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-29 ADL 17-B [Soil] Sampled 11/08/17 15:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 15:45	
T172943-30 ADL 17-C [Soil] Sampled 11/08/17 15:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 15:45	
T172943-31 ADL 19-A [Soil] Sampled 11/09/17 09:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 09:00	
STLC Pb	12/04/17 15:00	5	05/08/18 09:00	
STLC Leaching Procedure Metals	12/04/17 15:00	5	11/23/17 09:00	
T172943-32 ADL 19-B [Soil] Sampled 11/09/17 09:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 09:00	
T172943-33 ADL 19-C [Soil] Sampled 11/09/17 09:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 09:00	
T172943-34 ADL 21-A [Soil] Sampled 11/09/17 09:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 09:45	
T172943-35 ADL 21-B [Soil] Sampled 11/09/17 09:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 09:45	
T172943-36 ADL 21-C [Soil] Sampled 11/09/17 09:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 09:45	
T172943-37 ADL 23-A [Soil] Sampled 11/09/17 10:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 10:30	
T172943-38 ADL 23-B [Soil] Sampled 11/09/17 10:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 10:30	

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-39 ADL 23-C [Soil] Sampled 11/09/17 10:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 10:30	
T172943-40 ADL 28-A [Soil] Sampled 11/09/17 11:15 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 11:15	
T172943-41 ADL 28-B [Soil] Sampled 11/09/17 11:15 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 11:15	
T172943-42 ADL 28-C [Soil] Sampled 11/09/17 11:15 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 11:15	
T172943-43 ADL 29-A [Soil] Sampled 11/09/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 12:00	
STLC Pb	12/04/17 15:00	5	05/08/18 12:00	
STLC Leaching Procedure Metals	12/04/17 15:00	5	11/23/17 12:00	
T172943-44 ADL 29-B [Soil] Sampled 11/09/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 12:00	
T172943-45 ADL 29-C [Soil] Sampled 11/09/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 12:00	
T172943-46 ADL 27-A [Soil] Sampled 11/09/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 12:45	
T172943-47 ADL 27-B [Soil] Sampled 11/09/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 12:45	
T172943-48 ADL 27-C [Soil] Sampled 11/09/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 12:45	

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-49 ADL 30-A [Soil] Sampled 11/09/17 09:20 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:20	
T172943-50 ADL 30-B [Soil] Sampled 11/09/17 09:20 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:20	
T172943-51 ADL 30-C [Soil] Sampled 11/09/17 09:20 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:20	
T172943-52 ADL 31-A [Soil] Sampled 11/09/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:15	
T172943-53 ADL 31-B [Soil] Sampled 11/09/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:15	
T172943-54 ADL 31-C [Soil] Sampled 11/09/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:15	
T172943-55 ADL 32-A [Soil] Sampled 11/09/17 10:50 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:50	
T172943-56 ADL 32-B [Soil] Sampled 11/09/17 10:50 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:50	
T172943-57 ADL 32-C [Soil] Sampled 11/09/17 10:50 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:50	
T172943-58 ADL 33-A [Soil] Sampled 11/09/17 11:35 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 11:35	
T172943-59 ADL 33-B [Soil] Sampled 11/09/17 11:35 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 11:35	

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.

Project Manager: Lisa Nguyen

Project: SR99/120 Interchange

Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
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T172943-60 ADL 33-C [Soil] Sampled 11/09/17 11:35 (GMT-08:00) Pacific Time (US &				
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6010 Pb	11/17/17 15:00	5	05/08/18 11:35	
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WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.

Project: SR99/120 Interchange

Project Manager: Lisa Nguyen

Project Number: 2998.X

Report To:

Blackburn Consulting-West Sac.

Ryan Schmidt

2491 Boatman Ave.

West Sacramento, CA -

Date Due: 11/17/17 17:00 (5 day TAT)

Received By: Dan Marteski

Date Received: 11/10/17 10:55

Logged In By: Dan Marteski

Date Logged In: 11/10/17 12:25

Samples Received at: 5.3°C

Custody Seals Yes Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
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T172943-01 ADL 07-A [Soil] Sampled 11/08/17 09:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:00
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T172943-02 ADL 07-B [Soil] Sampled 11/08/17 09:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:00
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T172943-03 ADL 07-C [Soil] Sampled 11/08/17 09:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:00
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T172943-04 ADL 09-A [Soil] Sampled 11/08/17 09:45 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:45
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T172943-05 ADL 09-B [Soil] Sampled 11/08/17 09:45 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:45
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T172943-06 ADL 09-C [Soil] Sampled 11/08/17 09:45 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:45
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pH soil 9045

12/06/17 15:00

5

11/09/17 09:45

11/29/17 11:36, proceed with the analysis with samples outside the holding time criteria.

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-07 ADL 11-A [Soil] Sampled 11/08/17 10:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 10:30	
T172943-08 ADL 11-B [Soil] Sampled 11/08/17 10:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 10:30	
T172943-09 ADL 11-C [Soil] Sampled 11/08/17 10:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 10:30	
T172943-10 ADL 39-A [Soil] Sampled 11/08/17 11:15 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 11:15	
T172943-11 ADL 39-B [Soil] Sampled 11/08/17 11:15 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 11:15	
T172943-12 ADL 39-C [Soil] Sampled 11/08/17 11:15 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 11:15	
T172943-13 ADL 41-A [Soil] Sampled 11/08/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:00	
T172943-14 ADL 41-B [Soil] Sampled 11/08/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:00	
T172943-15 ADL 41-C [Soil] Sampled 11/08/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:00	
T172943-16 ADL 43-A [Soil] Sampled 11/08/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:45	
T172943-17 ADL 43-B [Soil] Sampled 11/08/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:45	

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.

Project Manager: Lisa Nguyen

Project: SR99/120 Interchange

Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-18 ADL 43-C [Soil] Sampled 11/08/17 12:45 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:45	
T172943-19 ADL 40-A [Soil] Sampled 11/08/17 13:30 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 13:30	
T172943-20 ADL 40-B [Soil] Sampled 11/08/17 13:30 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 13:30	
T172943-21 ADL 40-C [Soil] Sampled 11/08/17 13:30 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 13:30	
T172943-22 ADL 42-A [Soil] Sampled 11/08/17 14:15 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 14:15	
T172943-23 ADL 42-B [Soil] Sampled 11/08/17 14:15 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 14:15	
T172943-24 ADL 42-C [Soil] Sampled 11/08/17 14:15 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 14:15	
T172943-25 ADL 14-A [Soil] Sampled 11/08/17 15:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 15:00	
STLC Pb	12/04/17 15:00	5	05/07/18 15:00	
STLC Leaching Procedure Metals	12/04/17 15:00	5	11/22/17 15:00	
T172943-26 ADL 14-B [Soil] Sampled 11/08/17 15:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 15:00	
T172943-27 ADL 14-C [Soil] Sampled 11/08/17 15:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 15:00	
pH soil 9045	12/06/17 15:00	5	11/09/17 15:00	11/29/17 11:36, proceed with the analysis with samples outside the holding time criteria.

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.

Project Manager: Lisa Nguyen

Project: SR99/120 Interchange

Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-28 ADL 17-A [Soil] Sampled 11/08/17 15:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 15:45	
T172943-29 ADL 17-B [Soil] Sampled 11/08/17 15:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 15:45	
T172943-30 ADL 17-C [Soil] Sampled 11/08/17 15:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 15:45	
T172943-31 ADL 19-A [Soil] Sampled 11/09/17 09:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 09:00	
STLC Pb	12/04/17 15:00	5	05/08/18 09:00	
STLC Leaching Procedure Metals	12/04/17 15:00	5	11/23/17 09:00	
T172943-32 ADL 19-B [Soil] Sampled 11/09/17 09:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 09:00	
T172943-33 ADL 19-C [Soil] Sampled 11/09/17 09:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 09:00	
T172943-34 ADL 21-A [Soil] Sampled 11/09/17 09:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 09:45	
pH soil 9045	12/06/17 15:00	5	11/10/17 09:45	11/29/17 11:36, proceed with the analysis with samples outside the holding time criteria.
T172943-35 ADL 21-B [Soil] Sampled 11/09/17 09:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 09:45	
T172943-36 ADL 21-C [Soil] Sampled 11/09/17 09:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 09:45	
T172943-37 ADL 23-A [Soil] Sampled 11/09/17 10:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 10:30	

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.

Project: SR99/120 Interchange

Project Manager: Lisa Nguyen

Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-38 ADL 23-B [Soil] Sampled 11/09/17 10:30 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/08/18 10:30	
T172943-39 ADL 23-C [Soil] Sampled 11/09/17 10:30 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/08/18 10:30	
T172943-40 ADL 28-A [Soil] Sampled 11/09/17 11:15 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/08/18 11:15	
T172943-41 ADL 28-B [Soil] Sampled 11/09/17 11:15 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/08/18 11:15	
T172943-42 ADL 28-C [Soil] Sampled 11/09/17 11:15 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/08/18 11:15	
T172943-43 ADL 29-A [Soil] Sampled 11/09/17 12:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/08/18 12:00	
STLC Pb	12/04/17 15:00	5	05/08/18 12:00	
STLC Leaching Procedure Metals	12/04/17 15:00	5	11/23/17 12:00	
T172943-44 ADL 29-B [Soil] Sampled 11/09/17 12:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/08/18 12:00	
T172943-45 ADL 29-C [Soil] Sampled 11/09/17 12:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/08/18 12:00	
T172943-46 ADL 27-A [Soil] Sampled 11/09/17 12:45 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/08/18 12:45	
T172943-47 ADL 27-B [Soil] Sampled 11/09/17 12:45 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/08/18 12:45	

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-48 ADL 27-C [Soil] Sampled 11/09/17 12:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 12:45	
T172943-49 ADL 30-A [Soil] Sampled 11/09/17 09:20 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:20	
T172943-50 ADL 30-B [Soil] Sampled 11/09/17 09:20 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:20	
T172943-51 ADL 30-C [Soil] Sampled 11/09/17 09:20 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:20	
T172943-52 ADL 31-A [Soil] Sampled 11/09/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:15	
T172943-53 ADL 31-B [Soil] Sampled 11/09/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:15	
T172943-54 ADL 31-C [Soil] Sampled 11/09/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:15	
T172943-55 ADL 32-A [Soil] Sampled 11/09/17 10:50 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:50	
T172943-56 ADL 32-B [Soil] Sampled 11/09/17 10:50 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:50	
T172943-57 ADL 32-C [Soil] Sampled 11/09/17 10:50 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:50	
T172943-58 ADL 33-A [Soil] Sampled 11/09/17 11:35 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 11:35	

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.

Project Manager: Lisa Nguyen

Project: SR99/120 Interchange

Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-59 ADL 33-B [Soil] Sampled 11/09/17 11:35 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/08/18 11:35	
T172943-60 ADL 33-C [Soil] Sampled 11/09/17 11:35 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/08/18 11:35	

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.

Project: SR99/120 Interchange

Project Manager: Lisa Nguyen

Project Number: 2998.X

Report To:

Blackburn Consulting-West Sac.

Ryan Schmidt

2491 Boatman Ave.

West Sacramento, CA -

Date Due: 11/17/17 17:00 (5 day TAT)

Received By: Dan Marteski

Date Received: 11/10/17 10:55

Logged In By: Dan Marteski

Date Logged In: 11/10/17 12:25

Samples Received at: 5.3°C

Custody Seals Yes Received On Ice Yes

Containers Intact Yes

COC/Labels Agree Yes

Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
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T172943-01 ADL 07-A [Soil] Sampled 11/08/17 09:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:00
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T172943-02 ADL 07-B [Soil] Sampled 11/08/17 09:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:00
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T172943-03 ADL 07-C [Soil] Sampled 11/08/17 09:00 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:00
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T172943-04 ADL 09-A [Soil] Sampled 11/08/17 09:45 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:45
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T172943-05 ADL 09-B [Soil] Sampled 11/08/17 09:45 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:45
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T172943-06 ADL 09-C [Soil] Sampled 11/08/17 09:45 (GMT-08:00) Pacific Time

(US &

6010 Pb	11/17/17 15:00	5	05/07/18 09:45
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pH soil 9045

11/30/17 15:00

5

11/09/17 09:45

11/29/17 11:36, proceed with the analysis with samples outside the holding time criteria.

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.

Project: SR99/120 Interchange

Project Manager: Lisa Nguyen

Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-07 ADL 11-A [Soil] Sampled 11/08/17 10:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 10:30	
T172943-08 ADL 11-B [Soil] Sampled 11/08/17 10:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 10:30	
T172943-09 ADL 11-C [Soil] Sampled 11/08/17 10:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 10:30	
T172943-10 ADL 39-A [Soil] Sampled 11/08/17 11:15 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 11:15	
T172943-11 ADL 39-B [Soil] Sampled 11/08/17 11:15 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 11:15	
T172943-12 ADL 39-C [Soil] Sampled 11/08/17 11:15 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 11:15	
T172943-13 ADL 41-A [Soil] Sampled 11/08/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:00	
T172943-14 ADL 41-B [Soil] Sampled 11/08/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:00	
T172943-15 ADL 41-C [Soil] Sampled 11/08/17 12:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:00	
T172943-16 ADL 43-A [Soil] Sampled 11/08/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:45	
T172943-17 ADL 43-B [Soil] Sampled 11/08/17 12:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:45	

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.

Project Manager: Lisa Nguyen

Project: SR99/120 Interchange

Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-18 ADL 43-C [Soil] Sampled 11/08/17 12:45 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 12:45	
T172943-19 ADL 40-A [Soil] Sampled 11/08/17 13:30 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 13:30	
T172943-20 ADL 40-B [Soil] Sampled 11/08/17 13:30 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 13:30	
T172943-21 ADL 40-C [Soil] Sampled 11/08/17 13:30 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 13:30	
T172943-22 ADL 42-A [Soil] Sampled 11/08/17 14:15 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 14:15	
T172943-23 ADL 42-B [Soil] Sampled 11/08/17 14:15 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 14:15	
T172943-24 ADL 42-C [Soil] Sampled 11/08/17 14:15 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 14:15	
T172943-25 ADL 14-A [Soil] Sampled 11/08/17 15:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 15:00	
STLC Pb	12/01/17 15:00	4	05/07/18 15:00	
STLC Leaching Procedure Metals	12/01/17 15:00	4	11/22/17 15:00	
T172943-26 ADL 14-B [Soil] Sampled 11/08/17 15:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 15:00	
T172943-27 ADL 14-C [Soil] Sampled 11/08/17 15:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/07/18 15:00	
pH soil 9045	11/30/17 15:00	5	11/09/17 15:00	11/29/17 11:36, proceed with the analysis with samples outside the holding time criteria.

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-28 ADL 17-A [Soil] Sampled 11/08/17 15:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 15:45	
T172943-29 ADL 17-B [Soil] Sampled 11/08/17 15:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 15:45	
T172943-30 ADL 17-C [Soil] Sampled 11/08/17 15:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/07/18 15:45	
T172943-31 ADL 19-A [Soil] Sampled 11/09/17 09:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 09:00	
STLC Pb	12/01/17 15:00	4	05/08/18 09:00	
STLC Leaching Procedure Metals	12/01/17 15:00	4	11/23/17 09:00	
T172943-32 ADL 19-B [Soil] Sampled 11/09/17 09:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 09:00	
T172943-33 ADL 19-C [Soil] Sampled 11/09/17 09:00 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 09:00	
T172943-34 ADL 21-A [Soil] Sampled 11/09/17 09:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 09:45	
pH soil 9045	11/30/17 15:00	5	11/10/17 09:45	11/29/17 11:36, proceed with the analysis with samples outside the holding time criteria.
T172943-35 ADL 21-B [Soil] Sampled 11/09/17 09:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 09:45	
T172943-36 ADL 21-C [Soil] Sampled 11/09/17 09:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 09:45	
T172943-37 ADL 23-A [Soil] Sampled 11/09/17 10:30 (GMT-08:00) Pacific Time (US &				
6010 Pb	11/17/17 15:00	5	05/08/18 10:30	

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.

Project: SR99/120 Interchange

Project Manager: Lisa Nguyen

Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-38 ADL 23-B [Soil] Sampled 11/09/17 10:30 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/08/18 10:30	
T172943-39 ADL 23-C [Soil] Sampled 11/09/17 10:30 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/08/18 10:30	
T172943-40 ADL 28-A [Soil] Sampled 11/09/17 11:15 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/08/18 11:15	
T172943-41 ADL 28-B [Soil] Sampled 11/09/17 11:15 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/08/18 11:15	
T172943-42 ADL 28-C [Soil] Sampled 11/09/17 11:15 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/08/18 11:15	
T172943-43 ADL 29-A [Soil] Sampled 11/09/17 12:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/08/18 12:00	
STLC Pb	12/01/17 15:00	4	05/08/18 12:00	
STLC Leaching Procedure Metals	12/01/17 15:00	4	11/23/17 12:00	
T172943-44 ADL 29-B [Soil] Sampled 11/09/17 12:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/08/18 12:00	
T172943-45 ADL 29-C [Soil] Sampled 11/09/17 12:00 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/08/18 12:00	
T172943-46 ADL 27-A [Soil] Sampled 11/09/17 12:45 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/08/18 12:45	
T172943-47 ADL 27-B [Soil] Sampled 11/09/17 12:45 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/08/18 12:45	

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.
Project: SR99/120 Interchange

Project Manager: Lisa Nguyen
Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-48 ADL 27-C [Soil] Sampled 11/09/17 12:45 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 12:45	
T172943-49 ADL 30-A [Soil] Sampled 11/09/17 09:20 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:20	
T172943-50 ADL 30-B [Soil] Sampled 11/09/17 09:20 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:20	
T172943-51 ADL 30-C [Soil] Sampled 11/09/17 09:20 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 09:20	
T172943-52 ADL 31-A [Soil] Sampled 11/09/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:15	
T172943-53 ADL 31-B [Soil] Sampled 11/09/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:15	
T172943-54 ADL 31-C [Soil] Sampled 11/09/17 10:15 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:15	
T172943-55 ADL 32-A [Soil] Sampled 11/09/17 10:50 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:50	
T172943-56 ADL 32-B [Soil] Sampled 11/09/17 10:50 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:50	
T172943-57 ADL 32-C [Soil] Sampled 11/09/17 10:50 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 10:50	
T172943-58 ADL 33-A [Soil] Sampled 11/09/17 11:35 (GMT-08:00) Pacific Time				
(US & 6010 Pb	11/17/17 15:00	5	05/08/18 11:35	

WORK ORDER

T172943

Client: Blackburn Consulting-West Sac.

Project Manager: Lisa Nguyen

Project: SR99/120 Interchange

Project Number: 2998.X

Analysis	Due	TAT	Expires	Comments
T172943-59 ADL 33-B [Soil] Sampled 11/09/17 11:35 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/08/18 11:35	
T172943-60 ADL 33-C [Soil] Sampled 11/09/17 11:35 (GMT-08:00) Pacific Time				
(US &				
6010 Pb	11/17/17 15:00	5	05/08/18 11:35	

State Route 99/120 Interchange Improvement Project Aerially Deposited Lead (ADL) Assessment

APPENDIX C

Statistical Analysis



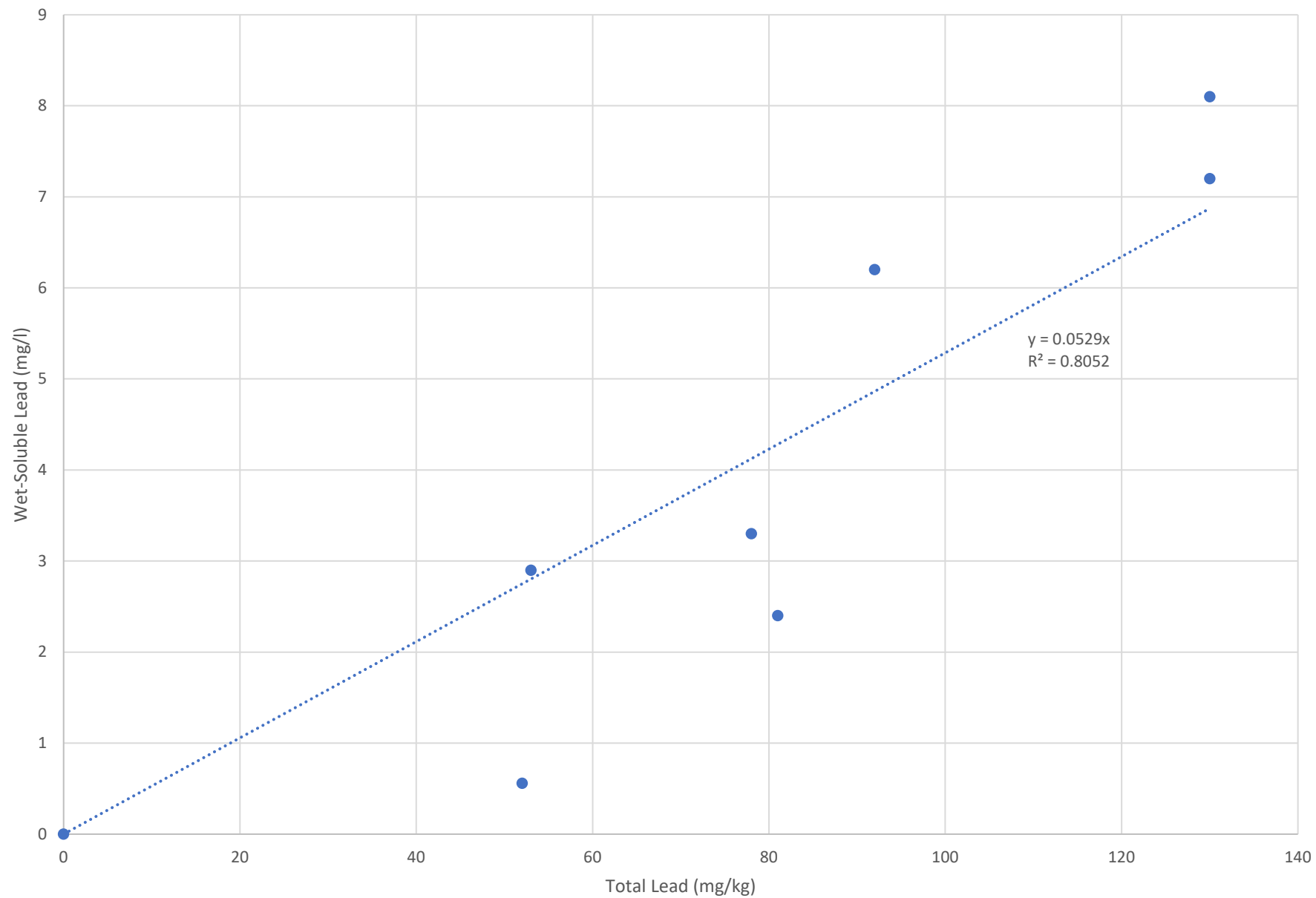
Nonparametric UCL Statistics for Data Sets with Non-Detects					
User Selected Options					
Date/Time of Computation		ProUCL 5.111/28/2017 1:20:31 PM			
From File		All Data (no outliers).xls			
Full Precision		OFF			
Confidence Coefficient		95%			
Number of Bootstrap Operations		2000			
Lead (0-6)					
General Statistics					
Total Number of Observations		44	Number of Distinct Observations		19
Number of Detects		26	Number of Non-Detects		18
Number of Distinct Detects		18	Number of Distinct Non-Detects		1
Minimum Detect		10	Minimum Non-Detect		5
Maximum Detect		130	Maximum Non-Detect		5
Variance Detects		1288	Percent Non-Detects		40.91%
Mean Detects		35.31	SD Detects		35.88
Median Detects		19	CV Detects		1.016
Skewness Detects		1.798	Kurtosis Detects		2.184
Mean of Logged Detects		3.211	SD of Logged Detects		0.785
Nonparametric Distribution Free UCL Statistics					
Data do not follow a Discernible Distribution at 5% Significance Level					
Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs					
Mean		22.91	Standard Error of Mean		4.748
SD		30.88	95% KM (BCA) UCL		31.11
95% KM (t) UCL		30.89	95% KM (Percentile Bootstrap) UCL		31.16
95% KM (z) UCL		30.72	95% KM Bootstrap t UCL		32.93
90% KM Chebyshev UCL		37.15	95% KM Chebyshev UCL		43.6
97.5% KM Chebyshev UCL		52.56	99% KM Chebyshev UCL		70.15
Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution					
KM SD (logged)		0.985	95% Critical H Value (KM-Log)		2.35
KM Mean (logged)		2.556	KM Geo Mean		12.88
KM Standard Error of Mean (logged)		0.151	95% H-UCL (KM -Log)		29.76
Suggested UCL to Use					
95% KM (Chebyshev) UCL		43.6			
Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.					
Recommendations are based upon data size, data distribution, and skewness.					
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).					
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.					

Normal UCL Statistics for Data Sets with Non-Detects				
User Selected Options				
Date/Time of Computation	ProUCL 5.111/28/2017 12:18:03 PM			
From File	All Data (no outliers).xls			
Full Precision	OFF			
Confidence Coefficient	95%			
Number of Bootstrap Operations	2000			
Lead (12-18)				
General Statistics				
Total Number of Observations	43	Number of Distinct Observations	14	
Number of Detects	16	Number of Non-Detects	27	
Number of Distinct Detects	13	Number of Distinct Non-Detects	1	
Minimum Detect	9.9	Minimum Non-Detect	5	
Maximum Detect	41	Maximum Non-Detect	5	
Variance Detects	90.28	Percent Non-Detects	62.79%	
Mean Detects	21.43	SD Detects	9.502	
Median Detects	19.5	CV Detects	0.443	
Skewness Detects	0.807	Kurtosis Detects	-0.197	
Mean of Logged Detects	2.975	SD of Logged Detects	0.437	
Normal GOF Test on Detects Only				
Shapiro Wilk Test Statistic	0.911	Shapiro Wilk GOF Test		
5% Shapiro Wilk Critical Value	0.887	Detected Data appear Normal at 5% Significance Level		
Lilliefors Test Statistic	0.166	Lilliefors GOF Test		
5% Lilliefors Critical Value	0.213	Detected Data appear Normal at 5% Significance Level		
Detected Data appear Normal at 5% Significance Level				
Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs				
KM Mean	11.11	KM Variance	1.532	
KM SD	9.725	KM Standard Error of Mean	94.57	
95% KM (BCA) UCL	13.7	97.5% KM (BCA) UCL	14.21	
95% KM (t) UCL	13.69	95% KM (Percentile Bootstrap) UCL	13.77	
95% KM (z) UCL	13.63	95% KM Bootstrap t UCL	14.07	
90% KM Chebyshev UCL	15.71	95% KM Chebyshev UCL	17.79	
97.5% KM Chebyshev UCL	20.68	99% KM Chebyshev UCL	26.35	
DL/2 Statistics				
DL/2 Normal		DL/2 Log-Transformed		
Mean in Original Scale	9.544	Mean in Log Scale	1.682	
SD in Original Scale	10.86	SD in Log Scale	1.04	
95% t UCL (Assumes normality)	12.33	95% H-Stat UCL	13.6	
DL/2 is not a recommended method, provided for comparisons and historical reasons				
Suggested UCL to Use				
95% KM (t) UCL	13.69			
Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness.				
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.				

Normal UCL Statistics for Data Sets with Non-Detects										
User Selected Options										
Date/Time of Computation		ProUCL 5.111/28/2017 12:18:03 PM								
From File		All Data (no outliers).xls								
Full Precision		OFF								
Confidence Coefficient		95%								
Number of Bootstrap Operations		2000								
Lead (24-30)										
General Statistics										
Total Number of Observations		43		Number of Distinct Observations		8				
Number of Detects		8		Number of Non-Detects		35				
Number of Distinct Detects		7		Number of Distinct Non-Detects		1				
Minimum Detect		16		Minimum Non-Detect		5				
Maximum Detect		53		Maximum Non-Detect		5				
Variance Detects		197.4		Percent Non-Detects		81.4%				
Mean Detects		30		SD Detects		14.05				
Median Detects		24		CV Detects		0.468				
Skewness Detects		0.945		Kurtosis Detects		-0.738				
Mean of Logged Detects		3.313		SD of Logged Detects		0.44				
Normal GOF Test on Detects Only										
Shapiro Wilk Test Statistic		0.848		Shapiro Wilk GOF Test						
5% Shapiro Wilk Critical Value		0.818		Detected Data appear Normal at 5% Significance Level						
Lilliefors Test Statistic		0.237		Lilliefors GOF Test						
5% Lilliefors Critical Value		0.283		Detected Data appear Normal at 5% Significance Level						
Detected Data appear Normal at 5% Significance Level										
Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs										
KM Mean		9.651		KM Variance		1.836				
KM SD		11.26		KM Standard Error of Mean		126.8				
95% KM (BCA) UCL		12.63		97.5% KM (BCA) UCL		13.56				
95% KM (t) UCL		12.74		95% KM (Percentile Bootstrap) UCL		12.63				
95% KM (z) UCL		12.67		95% KM Bootstrap t UCL		13.64				
90% KM Chebyshev UCL		15.16		95% KM Chebyshev UCL		17.65				
97.5% KM Chebyshev UCL		21.11		99% KM Chebyshev UCL		27.92				
DL/2 Statistics										
DL/2 Normal				DL/2 Log-Transformed						
Mean in Original Scale		7.616		Mean in Log Scale		1.362				
SD in Original Scale		12.25		SD in Log Scale		0.961				
95% t UCL (Assumes normality)		10.76		95% H-Stat UCL		8.734				
DL/2 is not a recommended method, provided for comparisons and historical reasons										
Suggested UCL to Use										
95% KM (t) UCL		12.74								
Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.										
Recommendations are based upon data size, data distribution, and skewness.										
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).										
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.										

Nonparametric UCL Statistics for Data Sets with Non-Detects				
User Selected Options				
Date/Time of Computation	ProUCL 5.112/3/2017 9:38:02 PM			
From File	All Data (no outliers).xls			
Full Precision	OFF			
Confidence Coefficient	95%			
Number of Bootstrap Operations	2000			
Lead (0-30)				
General Statistics				
Total Number of Observations	130	Number of Distinct Observations	31	
Number of Detects	50	Number of Non-Detects	80	
Number of Distinct Detects	30	Number of Distinct Non-Detects	1	
Minimum Detect	9.9	Minimum Non-Detect	5	
Maximum Detect	130	Maximum Non-Detect	5	
Variance Detects	751.7	Percent Non-Detects	61.54%	
Mean Detects	30.02	SD Detects	27.42	
Median Detects	20.5	CV Detects	0.913	
Skewness Detects	2.486	Kurtosis Detects	6.156	
Mean of Logged Detects	3.152	SD of Logged Detects	0.645	
Nonparametric Distribution Free UCL Statistics				
Data do not follow a Discernible Distribution at 5% Significance Level				
Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs				
Mean	14.62	Standard Error of Mean	1.84	
SD	20.77	95% KM (BCA) UCL	17.9	
95% KM (t) UCL	17.67	95% KM (Percentile Bootstrap) UCL	17.69	
95% KM (z) UCL	17.65	95% KM Bootstrap t UCL	18.45	
90% KM Chebyshev UCL	20.14	95% KM Chebyshev UCL	22.64	
97.5% KM Chebyshev UCL	26.12	99% KM Chebyshev UCL	32.93	
Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution				
KM SD (logged)	0.849	95% Critical H Value (KM-Log)	2.063	
KM Mean (logged)	2.203	KM Geo Mean	9.049	
KM Standard Error of Mean (logged)	0.0752	95% H-UCL (KM -Log)	15.13	
Suggested UCL to Use				
95% KM (Chebyshev) UCL	22.64			
Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.				
Recommendations are based upon data size, data distribution, and skewness.				
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).				
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.				

WET-Soluble Lead Linear Regression



State Route 99/120 Interchange Improvement Project Aerially Deposited Lead (ADL) Assessment

APPENDIX D

Site Photographs



PHOTO REPORT

*SR 99/120 Interchange Improvement Project
Manteca, California*

*BCI File No. 2998.X
Photos Taken October 2017*



Photo 1: SR 120 Southbound just after exiting SR 99.



Photo 2: SR 99 Southbound just after exiting SR 120.

PHOTO REPORT

SR 99/120 Interchange Improvement Project
Manteca, California

BCI File No. 2998.X
Photos Taken October 2017



Photo 3: Austin Road exit on the south side of SR 99.



Photo 4: Austin Road exit along railway.

PHOTO REPORT

*SR 99/120 Interchange Improvement Project
Manteca, California*

*BCI File No. 2998.X
Photos Taken October 2017*



Photo 5: Austin Road on-ramp to Southbound 99.



Photo 6: Frontage road parallel to SR 99 northbound.

PHOTO REPORT

*SR 99/120 Interchange Improvement Project
Manteca, California*

*BCI File No. 2998.X
Photos Taken October 2017*



Photo 7: Austin Road exit north of SR 99.



Photo 8: Loop connecting SR 120 eastbound with SR 99 northbound and SR 99 northbound with SR 120 westbound.