



**Aerially Deposited Lead and Limited
Phase II Subsurface Investigation Report**

**MAGNOLIA AVENUE BRIDGE WIDENING PROJECT
(EL CAMINO AVENUE TO 1,000 FEET EAST OF ALL AMERICAN
WAY, APPROX TRADEMARK CIRCLE)
Corona, Riverside County, California
CITY PROJECT NO. 2015-15
FEDERAL AID PROJECT NO. STPL-5104 (046)**

**Converse Project No. 18-16-113-01
November 4, 2021**

Prepared For:

**City of Corona
400 South Vincentia Avenue, #210
Corona, California 92822**

Prepared By:

**Converse Consultants
2021 Rancho Drive
Suite 1
Redlands, California 92373**



Converse Consultants

Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

November 4, 2021

City of Corona
400 S. Vincentia Avenue, #210
Corona, California 92882

Subject: AERIALLY DEPOSITED LEAD and LIMITED PHASE II SUBSURFACE INVESTIGATION REPORT
Magnolia Avenue Bridge Widening Project (El Camino Avenue to 1,000 Feet East of All American Way, Approx Trademark Circle)
City of Corona, Riverside County, California
Converse Project No. 18-16-113-01

To Whom It May Concern:

Converse Consultants (Converse) is pleased to present this *Aerially Deposited Lead (ADL) and Limited Phase II Limited Subsurface Investigation Report* for the referenced site. The sampling was conducted on September 28, 2021 to evaluate the surface soils for possible concentrations of ADL, and to evaluate potential total petroleum hydrocarbon (TPH) contamination at 1450 Magnolia Avenue.

We appreciate the opportunity to be of service. Should you have any questions or comments regarding this report, please contact either Norman Eke at (626) 930-1260 or Michael Van Fleet at (626) 930-1267.

Sincerely,

CONVERSE CONSULTANTS

Norman S. Eke
Senior Vice President

Michael Van Fleet, PG #7869
Senior Geologist

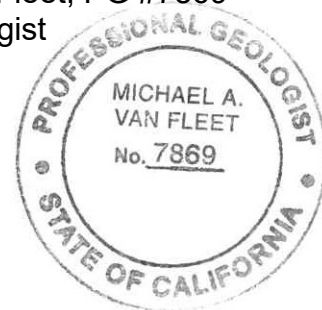


Table of Contents

	<u>Page</u>
1.0 BACKGROUND	1
2.0 WORKPLAN AND PERMITS	1
3.0 ADL SOIL SAMPLING	1
4.0 PHASE II SUBSURFACE INVESTIGATION SOIL BORINGS	2
5.0 SAMPLE ANALYSIS	2
6.0 SUMMARY OF RESULTS	3
7.0 CONCLUSION	6
8.0 RELIANCE & LIMITATIONS	6

Figure

Figure 1	Project Location
Figure 2A	ADL Sample Locations – Temescal Wash
Figure 2B	ADL Sample Locations – 1480 Magnolia Avenue
Figure 2C	ADL Sample Locations – 1550 Magnolia Avenue
Figure 2D	ADL Sample Locations – 1375 Magnolia Avenue
Figure 3	Phase II Sample Locations – 1450 Magnolia Avenue

Tables

Table 1	Summary of TTLC Lead Results
Table 2	Summary of STLC Lead Results
Table 3	ADL-Contamination Classification

Appendix

Appendix A	Analytical Reports and Chain of Custody Documentation
------------	---



1.0 Background

Based on the information provided by CNS Engineering, Inc (herein referred to as CNS), and RFP 18-035CA dated March 7, 2018 issued by the City of Corona, the area that is included in this assessment is Magnolia Avenue/Magnolia Avenue Bridge from El Camino Avenue to 1,000 feet east of All American Way in the City of Corona. The approximate Project Extents are indicated on Figure 1. The assessment consisted of sampling of soils within the project area for aerially deposited lead (ADL) from vehicle emissions, as well as sampling of soils at 1450 Magnolia Avenue for possible TPH contamination.

On Tuesday, September 28, 2021, Converse Consultants (Converse) performed the ADL and Phase II sampling in accordance with our Workplan. The work was completed or supervised by the following Converse staff:

- Michael Van Fleet, California Professional Geologist (PG) No. 7869
- Spencer Wagner, Environmental Professional (EP)

2.0 Workplan and Permits

Prior to collecting samples, the following steps were completed:

- A Workplan outlining the methodology of the ADL sampling, dated March 21, 2018, was completed.
- Appropriate encroachment permits were obtained from the City of Corona, and right-of-entry agreements were entered into with private property owners.

3.0 ADL Soil Sampling

Soil borings were completed at 16 different locations to depths of 3 feet below ground surface (bgs). The borings were placed in exposed soil on the shoulders and slopes adjacent to Magnolia Avenue. Boring locations are included on Figures 2A through 2D.

Borings were advanced using a hand-auger, and samples were collected directly into laboratory supplied 4-oz glass jars. Samples were collected from depths of

- 0 to 0.5 feet bgs
- 1.0 to 1.5 feet bgs, and



- 2.5 to 3.0 feet bgs.

Samples were properly labeled, and then stored in a chilled container. Samples were labeled and identified on the chain of custody in the following manner:

Sample ID Number	Example:	ADL1 - 0.5
Project Number		18-16-113-01
Date		9/28/21
Time		935

4.0 Phase II Subsurface Investigation Soil Borings

Three (3) soil borings were completed at 1450 Magnolia Avenue based on findings in the Converse Consultants, Initial Site Assessment (ISA) Report, dated November 20, 2019. Converse presented the following finding:

- Potential oil contaminated soil was covered by concrete in the 1990s. The specific location of this contaminated soil is unknown.

Based on these findings, Converse recommended soil sampling in the parking lot on the north side of 1450 Magnolia Avenue in order to evaluate the soil for the presence of TPH.

Three (3) borings were completed to depths of 10 feet bgs using a direct-push Geoprobe rig. Soil samples were collected in acetate sleeves at depths of 2, 5, and 10 feet bgs. Sub-samples were collected in encore sample containers in accordance with EPA Method 5035. Sample sleeves were then capped, labeled, and stored in a chilled container. Boring locations are included on Figure 3 – Phase II Sample Locations.

5.0 Sample Analysis

All soil samples were delivered under standard United States Environmental Protection Agency (EPA) protocol, including chain-of-custody documentation to Enviro-Chem, Inc., Laboratories in Pomona, California. Enviro-Chem is certified by the California Department of Health Services, Environmental Laboratory Accreditation Program (ELAP) to conduct the tests requested.



ADL Soil Samples

Initially, all of the ADL samples were requested to be homogenized and then analyzed for Total Threshold Limit Concentration (TTLC) lead using Environmental Protection Agency (EPA) Method 6010.

Additional sample analyses were requested for five (5) of the 48 samples, in general accordance with procedures outlined in the Workplan. Samples were requested to be evaluated for soluble lead concentrations in accordance with the Soluble Threshold Limit Concentration (STLC) method (also identified as the CA-WET method). Samples with soluble lead concentrations equal to or higher than the threshold of 5 milligrams per liter (mg/L) were also tested with the modified STLC method using de-ionized water (DI-WET method), and the Toxicity Characteristic Leaching Procedure (TCLP) method.

Phase II Subsurface Investigation Soil Samples

Soil samples were requested to be homogenized and then analyzed in accordance with EPA Test Method 8015M for diesel and heavy-oil range TPH. The sub samples collected in encore containers were analyzed in accordance with EPA Method 8015M for gasoline range TPH.

Copies of the analytical reports are provided in Appendix A.

6.0 Summary of Results

ADL Soil Samples

The results of this assessment were evaluated in accordance with criteria presented in a 2016 agreement between the California Department of Toxic Substances Control (DTSC) and the California Department of Transportation (CalTrans) regarding aerially deposited lead (ADL) contaminated soil in State highway right-of-way (ADL Agreement). Based on this ADL Agreement, ADL-Contaminated Soil is defined as excavated soil with total lead concentrations greater than 80 milligrams per kilogram (mg/kg) and/or 5 mg/L extractable lead, as determined by the STLC/CA-WET method, based on 95 percent upper confidence limit (95% UCL) concentrations.

Lead was reported in samples at concentrations ranging from 2.5 mg/kg to 24.5 mg/kg. All of the TTLC lead concentrations were less than threshold of 80 mk/kg. A summary of the results for total (TTLC) lead is presented in the following table.



Table 1 – Summary of TTLC Lead Results

Boring No.	Depth (feet bgs)	Lead Conc. (mg/kg)	Boring No.	Depth (feet bgs)	Lead Conc. (mg/kg)
ADL1	0.5	14.9	ADL11	0.5	23.6
	1.5	5.56		1.5	14.0
	3	7.49		3	7.14
ADL2	0.5	14.2	ADL12	0.5	19.2
	1.5	14.2		1.5	7.00
	3	9.17		3	24.5
ADL3	0.5	16.9	ADL13	0.5	6.86
	1.5	8.10		1.5	12.5
	3	2.50		3	9.47
ADL4	0.5	13.0	ADL14	0.5	14.0
	1.5	11.8		1.5	8.53
	3	3.84		3	11.1
ADL5	0.5	9.13	ADL15	0.5	9.44
	1.5	9.62		1.5	8.06
	3	8.83		3	12.0
ADL6	0.5	11.2	ADL16	0.5	10.4
	1.5	8.25		1.5	18.0
	3	12.7		3	10.6
ADL7	0.5	4.5			
	1.5	22.1			
	3	2.94			
ADL8	0.5	5.11			
	1.5	4.53			
	3	4.88			
ADL9	0.5	15.8			
	1.5	7.10			
	3	6.48			
ADL10	0.5	16.0			
	1.5	10.3			
	3	4.25			

bgs: below ground surface
MDL: Method Detection Limit
POL: Practical Quantitation Limit
J: Concentration detected is an estimated value between the MDL and POL
TTLC: Total Threshold Limit Concentration
mg/kg: milligrams per kilogram

STLC (CA-WET) method analysis was requested for samples ADL1 – 0.5, ADL7 – 0.5, ADL11-0.5, ADL12-3.0, and ADL16 – 1.5 which were generally representative of the range of total lead concentrations, and also generally provided a representative spatial distribution over the project area.

All of the STLC (CA-WET) lead concentrations were less than threshold of 0.5 mg/L; therefore, no further analysis of soluble lead concentrations in these samples using the

DI-WET and TCLP methods was required. Below table summarizes the lead results of STLC (CA-WET) analysis.

Table 2 – Summary of STLC Lead Results

Sample No.	TTLc (mg/kg)	STLC (mg/L)
ADL1 – 0.5	14.9	0.543
ADL7 – 0.5	4.5	0.956
ADL11 – 0.5	23.6	1.01
ADL12 – 3.0	24.5	0.742
ADL16 – 1.5	18.0	0.613

mg/L: milligrams per Liter

STLC: Soluble Threshold Limit Concentration

Phase II Subsurface Investigation Soil Samples

All nine (9) soil samples collected as part of the investigation were non-detect for TPH.

Evaluation of Results

Based on criteria presented in the current ADL Agreement, soil is considered clean and appropriate for unrestricted land use with regard to lead if total concentrations based on a 95% upper confidence limit (95% UCL) are less than 80 mg/kg, and/or 5 mg/L extractable lead based on a 95% UCL of DI-WET concentrations. DTSC notification would be required if 95% UCL concentrations of total lead exceed 80 mg/kg total, or extractable lead exceeds 5 mg/L. Per the Agreement, ADL-contaminated soil may still be reused within the project area, subject to certain covering requirements, so long as extractable lead concentrations by the TCLP method are less than 5 mg/L. If lead concentrations exceed the criteria for covered reuse, these soils would be subject to handling as hazardous waste.

The minimum cover requirements for various categories of ADL-contaminated soils are provided in the following table.

Table 3 – ADL-Contamination Classification

Classification	Definition	Allowed Management
Type COM	80 mg/kg < TTLc lead < 320 mg/kg, and STLC lead < 5 mg/L	Commercial use only either on SHS or other commercial property
Type R1	320 mg/kg < TTLc lead < 1600 mg/kg, or STLC lead > 5 mg/L and DI-WET < 1.5 mg/L	SHS under minimum 1 foot of soil



Type R2	1600 mg/kg < TTLC lead < 3200 mg/kg, or STLC lead > 5 mg/L and DI WET < 150 mg/L	SHS under pavement
Type Z0	Excess, and 320 mg/kg < TTLC lead < 1000 mg/kg, and STLC lead < 5 mg/L	Class II Disposal
Type Z2	Excess or exceeds Type R2 limits, and TTLC lead > 1000 mg/kg or STLC lead > 5 mg/L	Class I Disposal as CA hazardous waste
Type Z3	TCLP lead > 5 mg/L	Class I Disposal as RCRA hazardous waste

None of the samples analyzed had reported concentrations of lead exceeding the total (TTLC) threshold of 80 mg/kg. In addition, select samples representative of the range of lead concentrations, and generally representative of the entire project area were further evaluated using STLC (CA-WET) method analysis. All reported soluble (STLC) lead concentrations were less than the threshold of 5.0 mg/L.

7.0 Conclusion

ADL Sampling

Soils across the project site are considered to be clean and appropriate for unrestricted land use without further testing, notification, or handling restrictions.

Phase II Subsurface Investigation Sampling

Soils in the vicinity of the three (3) borings completed in the parking lot on the north side of 1450 Magnolia Avenue do not appear to be impacted with TPH.

8.0 Reliance & Limitations

This letter report is for the sole benefit and exclusive use of the City of Corona as it pertains to the Magnolia Avenue Bridge Widening Project, which is located in the City of Corona, Riverside County, California. Our services have been performed in accordance with the terms and conditions under which these services have been provided. The Scope of Services associated with the report was designed solely in accordance with the objectives, schedule, budget, and risk-management preferences of City of Corona.



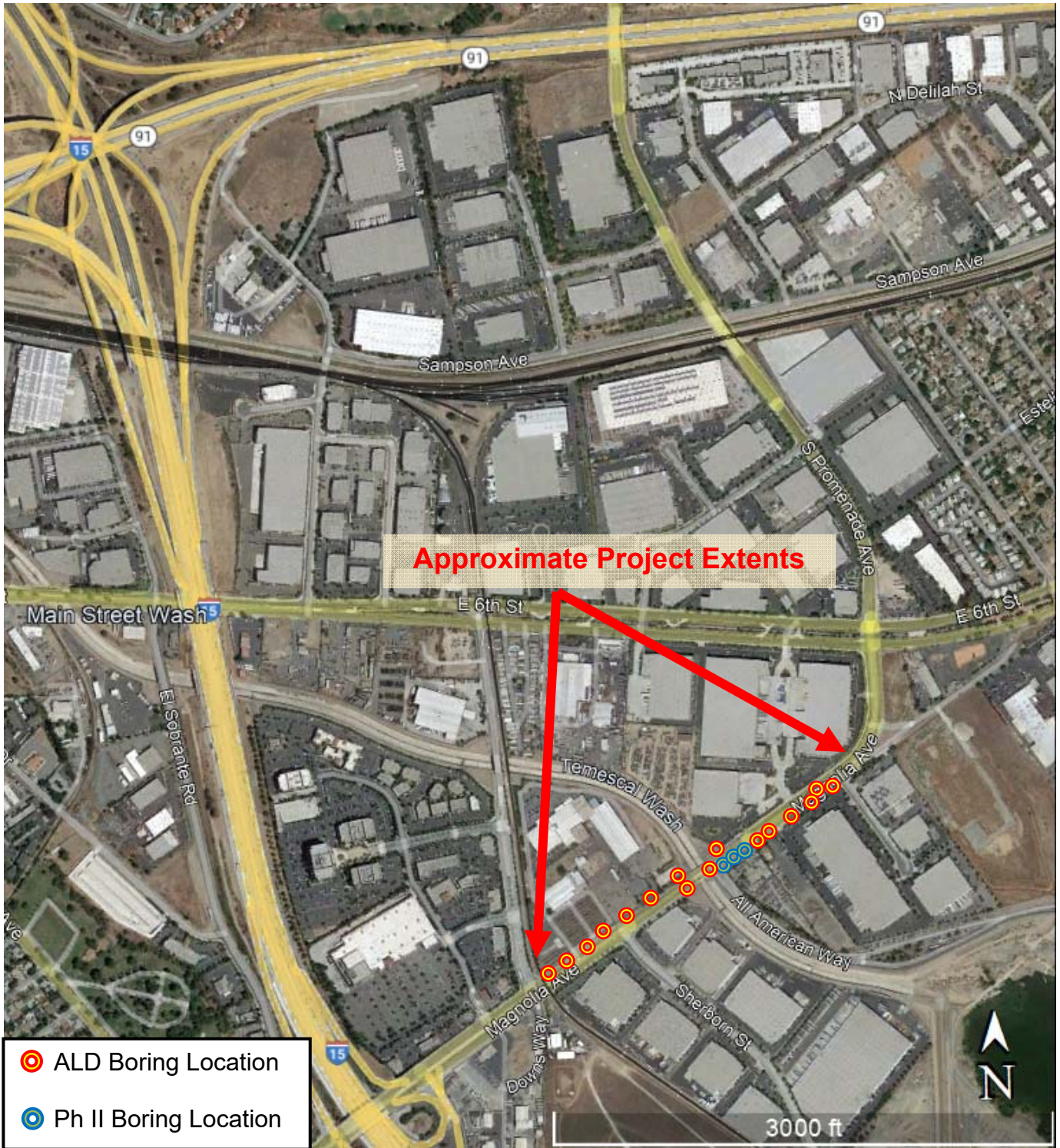
The preparation of this report has been in accordance with generally accepted environmental practices. No other warranty, either express or implied, is made. This report should not be regarded as a guarantee that no further contamination beyond that which could be detected within the scope of this assessment is present at the Site. Converse makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others. It is possible that information exists beyond the scope of this assessment. It is not possible to absolutely confirm that no hazardous materials and/or substances exist at the Site. If none are identified as part of a limited scope of work, such a conclusion should not be construed as a guaranteed absence of such materials, but merely the results of the evaluation of the Site at the time of the assessment. Also, events may occur after the Site visit, which may result in contamination of the Site. Additional information, which was not found or available to Converse at the time of report preparation, may result in a modification of the conclusions and recommendations presented.

Any reliance on this report by Third Parties shall be at the Third Party's sole risk.



Figures





PROJECT LOCATION



Near Flood Control – South of Magnolia Avenue
 Corona, California



Converse Consultants



ADL SAMPLE LOCATIONS



Near Temescal Wash and Magnolia Avenue
Corona, California



Converse Consultants

FIGURE 2A



ADL SAMPLE LOCATIONS



1480 Magnolia Avenue
Corona, California



Converse Consultants

FIGURE 2B



ADL SAMPLE LOCATIONS



1550 Magnolia Avenue
Corona, California



Converse Consultants

FIGURE 2C



ADL SAMPLE LOCATIONS



1375 Magnolia Avenue
Corona, California



Converse Consultants

FIGURE 2D



PHASE II SAMPLE LOCATIONS



1450 Magnolia Avenue
Corona, California



Converse Consultants

FIGURE 3

Analytical Report and Chain of Custody

Appendix A



Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: October 4, 2021

Mr. Michael Van Fleet
Converse Consultants
717 s. Myrtle Avenue
Monrovia, CA 91016
Tel: (626) 930-1200 E-Mail: MVanFleet@ConverseConsultants.com

Project: **1450 Magnolia Street, Corona, CA**
Project No.: **18-16-113-01**
Lab I.D.: **210928-38 through -46**

Dear Mr. Van Fleet:

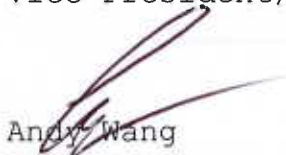
The **analytical results** for the soil samples, received by our laboratory on September 28, 2021, are attached. The samples were received chilled, intact and accompanying chain of custody.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets
Vice President/Program Manager



Andy Wang
Laboratory Manager

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: Converse Consultants
717 S. Myrtle Avenue, Monrovia, CA 91016
Tel: (626) 930-1200 E-Mail: MVanFleet@ConverseConsultants.com

PROJECT: 1450 magnolia Street, Corona, CA
PROJECT No.: 18-16-113-01

MATRIX: SOIL
DATE SAMPLED: 09/28/21
REPORT TO: Mr. MICHAEL VAN FLEET
DATE RECEIVED: 09/28/21
DATE EXTRACTED: 09/29/21
DATE ANALYZED: 09/29/21
DATE REPORTED: 10/04/21

TOTAL PETROLEUM HYDROCARBONS (TPH) - CARBON CHAIN ANALYSIS
METHOD: EPA 8015B
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

Table with 7 columns: SAMPLE I.D., LAB I.D., C4-C10, DF, C10-C28, C28-C35, DF. Rows include samples SB1-2 to SB3-10 and a METHOD BLANK row. PQL values are listed at the bottom: 0.100*, 10, 50.

COMMENTS

C4-C10 = GASOLINE RANGE
C10-C28 = DIESEL RANGE
C28-C35 = MOTOR OIL RANGE
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = DF X PQL
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT
* = GASOLINE RANGE ANALYZED USING 5030B/8015B PURGE & TRAP ON 09/29/21

Data Reviewed and Approved by: [Signature]
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro Chem, Inc

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905

Fax (909)590-5907

Gas/BTEX QC

Date Analyzed: 9/29/2021

Units: mg/Kg (PPM)

Matrix: Soil/Solid/Sludge/Liquid

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **210929-LCS 1/2**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %REC	ACP %RPD
Gasoline Range	0.00	0.500	0.503	101%	0.494	99%	2%	75-125	<20%

LCS STD RECOVERY:

Analyte	spk conc	LCS	% REC	ACP
Gasoline Range	0.500	0.508	102%	75-125

Surrogate Recovery	ACP %REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	210928-38	210928-39	210928-40	210928-41	210928-42	210928-43	210928-44
BFB	70-130	129%	197*	197*	197*	224*	198*	200*	198*

Surrogate Recovery	ACP %REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		210928-45	210928-46						
BFB	70-130	226*	199*						

Surrogate Recovery	ACP %REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.						
BFB	70-130					

* = Surrogate fail due to matrix interference (If marked)

Note: LCS, MS, MSD are in control therefore results are in control.

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: *Amy*

Final Reviewer: *P*

Enviro Chem, Inc

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

8015B QA/QC Report

Date Analyzed: 9/29/2021

Units: mg/Kg (ppm)

Matrix: Soil/Solid/Sludge/Liquid

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **210929-LCS 1/2**

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
C10~C28 Range	0.0	200	202	101%	238	119%	16%	75-125	0-20%

LCS STD RECOVERY:

Analyte	spk conc	LCS	% REC	ACP
C10~C28 Range	200	180	90%	75-125

Analyzed and Reviewed By: Amy

Final Reviewer: [Signature]

Enviro-Chem, Inc. Laboratories

1214 E. Lexington Avenue,
Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

CA-DHS ELAP CERTIFICATE #1555

Turnaround Time

- Same Day
- 24 Hours
- 48 Hours
- 72 Hours
- 1 Week (Standard)
- Other:

Misc./PO#

SAMPLE ID	LAB ID	SAMPLING TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required				COMMENTS	
		DATE	TIME										
SB1-2	21092838	9/28/21	742	Soil	3		Refrigerated	X					
-5	39		746					X					
-10	40		750					X					
SB2-2	41		820					X					
-5	42		824					X					
-10	43		826					X					
SB3-2	44		850					X					
-5	45		858					X					
-10	46		902					X					

5015 M

1 x pt
1 x Encl

Company Name: Converse Consultants
Address: 717 S Myrtle Avenue
City/State/Zip: Monrovia, CA 91016

Project Contact: Mike Van Fleet
Tel: 626 930-1200
Fax/Email: mvanfleet@converseconsultants.com

Sampler's Signature:
Project Name/ID: 18-16-113-01
1450 Magnolia Street
Corona, CA

Relinquished by:	Received by:	Date & Time: 9/28/2021 1:13 PM
Relinquished by:	Received by:	Date & Time:
Relinquished by:	Received by:	Date & Time:

Instructions for Sample Storage After Analysis:
 Dispose of Return to Client Store (30 Days)
 Other:

CHAIN OF CUSTODY RECORD

Date: 9/28/2021

WHITE WITH SAMPLE • YELLOW TO CLIENT

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: October 4, 2021

Mr. Michael Van Fleet
Converse Consultants
717 s. Myrtle Avenue
Monrovia, CA 91016
Tel: (626) 930-1200 E-Mail: MVanFleet@ConverseConsultants.com

Project: **Magnolia St**
Project No.: **18-16-113-01**
Lab I.D.: **210928-47 through -94**

Dear Mr. Van Fleet:

The **analytical results** for the soil samples, received by our laboratory on September 28, 2021, are attached. The samples were received chilled, intact, and accompanying chain of custody.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets
Vice President/Program Manager



Andy Wang
Laboratory Manager

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: Converse Consultants
717 S. Myrtle Avenue, Monrovia, CA 91016
Tel: (626) 930-1200 E-Mail: MVanFleet@ConverseConsultants.com

PROJECT: Magnolia St. PROJECT No.: 18-16-113-01
MATRIX: SOIL DATE RECEIVED: 09/28/21
DATE SAMPLED: 09/28/21 DATE ANALYZED: 09/30/21
REPORT TO: Mr. MICHAEL VAN FLEET DATE REPORTED: 10/04/21

EPA 6010B FOR TTLC-LEAD; PAGE 1 OF 3
UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

Table with 4 columns: SAMPLE I.D., LAB I.D., TTLC-LEAD RESULT, DF. Rows include samples ADL1-0.5 through ADL7-1.5 and a Method Blank row.

PQL 0.50

COMMENTS:

DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = DF X PQL
ND = Non-Detected or below the Actual Detection Limit
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
STLC Limit for lead = 5 PPM
* = STLC analysis is recommended (if marked)
*** = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: [Signature]
CAL-DHS ELAP CERTIFICATE No.: 1555

QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 9/30/2021

Unit : Mg/KG(ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic (As)	210928-55	50.0	97	PASS	2.38	50.0	43.6	82%	43.6	82%	0%
Lead(Pb)	210928-55	50.0	102	PASS	2.50	50.0	38.6	72%	38.7	72%	0%

ANALYSIS DATE. :

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD

MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic (As)	PASS	PASS	PASS	PASS
Lead(Pb)	FAIL*	FAIL*	PASS	PASS
Accepted Range	75 ~ 125	75 ~ 125	85 ~ 115	0 ~ 20

*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

ANALYST: _____

FINAL REVIEWER: _____

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: Converse Consultants
717 S. Myrtle Avenue, Monrovia, CA 91016
Tel: (626) 930-1200 E-Mail: MVanFleet@ConverseConsultants.com

PROJECT: Magnolia St. PROJECT No.: 18-16-113-01
MATRIX: SOIL DATE RECEIVED: 09/28/21
DATE SAMPLED: 09/28/21 DATE ANALYZED: 09/30/21
REPORT TO: Mr. MICHAEL VAN FLEET DATE REPORTED: 10/04/21

EPA 6010B FOR TTLC-LEAD; PAGE 2 OF 3
UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

Table with 4 columns: SAMPLE I.D., LAB I.D., TTLC-LEAD RESULT, DF. Rows include sample IDs like ADL7-3.0, ADL8-0.5, etc., with corresponding lab IDs and results.

Method Blank --- ND 1

PQL 0.50

COMMENTS:

DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = DF X PQL
ND = Non-Detected or below the Actual Detection Limit
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
STLC Limit for lead = 5 PPM
* = STLC analysis is recommended (if marked)
*** = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: [Signature]
CAL-DHS ELAP CERTIFICATE No.: 1555

QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 9/30/2021

Unit : Mg/KG(ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic (As)	210928-76	50.0	97	PASS	3.30	50.0	48.7	91%	48.9	91%	0%
Lead(Pb)	210928-76	50.0	102	PASS	4.25	50.0	44.0	80%	44.0	80%	0%

ANALYSIS DATE. :

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD

MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic (As)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Accepted Range	75 ~ 125	75 ~ 125	85 ~ 115	0 ~ 20

*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

ANALYST: _____

FINAL REVIEWER: _____

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: Converse Consultants
717 S. Myrtle Avenue, Monrovia, CA 91016
Tel: (626) 930-1200 E-Mail: MVanFleet@ConverseConsultants.com

PROJECT: Magnolia St. PROJECT No.: 18-16-113-01
MATRIX: SOIL DATE RECEIVED: 09/28/21
DATE SAMPLED: 09/28/21 DATE ANALYZED: 09/30/21
REPORT TO: Mr. MICHAEL VAN FLEET DATE REPORTED: 10/04/21

EPA 6010B FOR TTLC-LEAD; PAGE 3 OF 3
UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

Table with 4 columns: SAMPLE I.D., LAB I.D., TTLC-LEAD RESULT, DF. Rows include sample IDs like ADL14-1.5 and Method Blank.

PQL 0.50

COMMENTS:

DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = DF X PQL
ND = Non-Detected or below the Actual Detection Limit
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
STLC Limit for lead = 5 PPM
* = STLC analysis is recommended (if marked)
*** = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: [Signature]
CAL-DHS ELAP CERTIFICATE No.: 1555

QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 9/30/2021

Unit : Mg/KG(ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic (As)	210928-90	50.0	98	PASS	4.13	50.0	44.6	81%	44.9	82%	1%
Lead(Pb)	210928-90	50.0	100	PASS	8.06	50.0	43.1	70%	43.3	70%	1%

ANALYSIS DATE. :

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD

MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic (As)	PASS	PASS	PASS	PASS
Lead(Pb)	FAIL*	FAIL*	PASS	PASS
Accepted Range	75 ~ 125	75 ~ 125	85 ~ 115	0 ~ 20

*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

ANALYST: _____

FINAL REVIEWER: _____

Enviro-Chem, Inc. Laboratories

1214 E. Lexington Avenue,
Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

CA-DHS ELAP CERTIFICATE #1555

Turnaround Time

- Same Day
- 24 Hours
- 48 Hours
- 72 Hours
- 1 Week (Standard)
- Other:

MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	60/0-Lead							Misc./PO#

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required							COMMENTS	
		DATE	TIME													
ADL1 - 0.5	2/09/21-47	9/28/21	935	Soil	1		icaps	X								
- 1.5	-48		938					X								
- 3.0	-49		943					X								
ADL2 - 0.5	-50		945					X								
- 1.5	-51		948					X								
- 3.0	-52		949					X								
ADL3 - 0.5	-53		1000					X								
- 1.5	-54		1001					X								
- 3.0	-55		1006					X								
ADL4 - 0.5	-56		1009					X								
- 1.5	-57		1011					X								
- 3.0	-58		1014					X								
ADL5 - 0.5	-59		1017					X								
- 1.5	-60		1019					X								
- 3.0	-61		1021													

Company Name: <u>Converse Consultants</u>		Project Contact: <u>Mike Van Fleet</u>		Sampler's Signature: 	
Address: <u>717 S Myrtle Avenue</u>		Tel: <u>626 930-1200</u>		Project Name/ID: <u>18-16-113-01</u>	
City/State/Zip: <u>MARINA, CA 91016</u>		Fax/Email: <u>mvanfleet@converseconsultants.com</u>		Magndia St	
Relinquished by: 	Received by: 	Date & Time: <u>9/28/2021 1:14 PM</u>	Instructions for Sample Storage After Analysis:		
Relinquished by:	Received by:	Date & Time:	<input type="checkbox"/> Dispose of <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Store (30 Days)		
Relinquished by:	Received by:	Date & Time:	<input type="checkbox"/> Other:		

CHAIN OF CUSTODY RECORD

Date: 9/28/2021

WHITE WITH SAMPLE • YELLOW TO CLIENT

Enviro – Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: October 7, 2021

Mr. Michael Van Fleet
Converse Consultants
717 s. Myrtle Avenue
Monrovia, CA 91016

Tel: (626) 930-1200 E-Mail: MVanFleet@ConverseConsultants.com

Project: **Magnolia St**
Project No.: **18-16-113-01**
Lab I.D.: **210928-47 through -94**

Dear Mr. Van Fleet:

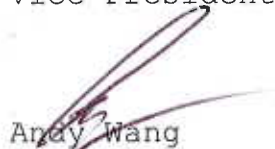
The **additional STLC-Pb results** for the soil samples, received by our laboratory on September 28, 2021, are attached. The samples were received chilled, intact, and accompanying chain of custody.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets
Vice President/Program Manager



Andy Wang
Laboratory Manager

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: Converse Consultants
717 S. Myrtle Avenue, Monrovia, CA 91016
Tel: (626) 930-1200 E-Mail: MVanFleet@ConverseConsultants.com

PROJECT: Magnolia St. PROJECT No.: 18-16-113-01
MATRIX: SOIL DATE RECEIVED: 09/28/21
DATE SAMPLED: 09/28/21 DATE ANALYZED: 10/05-07/21
REPORT TO: MR. MICHAEL VAN FLEET DATE REPORTED: 10/07/21

EPA 6010B FOR STLC-LEAD
UNIT: mg/L IN THE STLC LEACHATE

Table with 4 columns: SAMPLE I.D., LAB I.D., STLC-LEAD RESULT, DF. Rows include ADL1-0.5, ADL7-1.5, ADL11-0.5, ADL12-3.0, ADL16-1.5, Method Blank, and PQL.

COMMENTS:

DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = DF X PQL
ND = Non-Detected or below the Actual Detection Limit
STLC = Soluble Threshold Limit Concentration
mg/L = Milligram Per Liter = PPM
*** = The concentration exceeds the STLC Limit @ 5 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: [Signature]
CAL-DHS ELAP CERTIFICATE No.: 1555

QA/QC for Metals Analysis --STLC

Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 10/7/2021

Unit : mg/L (ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Chromium(Cr)	210928-93	5.00	99	PASS	0.065	5.00	3.78	74%	3.8	74%	1%
Copper(Cu)	210928-93	5.00	101	PASS	0.726	5.00	4.56	77%	4.54	76%	1%
Lead(Pb)	210928-93	5.00	100	PASS	0.613	5.00	3.89	66%	3.89	66%	0%

ANALYSIS DATE: 10/5/2021

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	211005-14	0.0125	97	PASS	0	0.0125	0.0109	87%	0.0112	90%	3%

MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Chromium(Cr)	FAIL*	FAIL*	PASS	PASS
Copper(Cu)	PASS	PASS	PASS	PASS
Lead(Pb)	FAIL*	FAIL*	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
Accepted Range	75 ~ 125	75 ~ 125	85 ~ 115	0 ~ 20

ANALYST:  _____

FINAL REVIEWER:  _____

*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

Fwd: 1450 Magnolia St., Corona, CA / 18-16-113-01

1 message

Curtis B. Desilets <curt.envirocheminc@gmail.com> Tue, Oct 5, 2021 at 1:48 PM
To: Jessica Lin <envirocheminc@gmail.com>, Jessica Huang <jesshuang04@gmail.com>, Edward Liu <eeliu2002@yahoo.com>, Andy Wang <liangche@gmail.com>, Pearl Wong <pw.envirocheminc@gmail.com>

See below about the Converse TTLC Lead samples we reported yesterday. Please get them started. - Curtis

----- Forwarded message -----
From: **Michael A. Van Fleet** <mvanfleet@converseconsultants.com>
Date: Tue, Oct 5, 2021 at 10:06 AM
Subject: RE: 1450 Magnolia St., Corona, CA / 18-16-113-01
To: Curtis B. Desilets <curt.envirocheminc@gmail.com>
Cc: Spencer Wagner <swagner@converseconsultants.com>

Hi Curt,

Happy to see that all the TTLC results are low. For QAQC purposes we need to have some samples analyzed for STLC lead. Please analyze the following on a standard TAT:

- ADL1-0.5 47
- ADL7-1.5 66
- ADL11-0.5 77
- ADL12-3.0 82
- ADL16-1.5 93

Thanks,

Mike

Enviro-Chem, Inc. Laboratories

1214 E. Lexington Avenue,
Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

CA-DHS ELAP CERTIFICATE #1555

Turnaround Time

- Same Day
- 24 Hours
- 48 Hours
- 72 Hours
- 1 Week (Standard)
- Other: _____

Misc./PO# _____

SAMPLE ID	LAB ID	SAMPLING DATE TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required				COMMENTS
		DATE	TIME									
ADL1-0.5	2/09/18-47	9/28/21	935	Soil	1		icopast	X				
-1.5	-48		938					X				
-3.0	-49		943					X				
ADL2-0.5	-50		945					X				
-1.5	-51		948					X				
-3.0	-52		949					X				
ADL3-0.5	-53		1000					X				
-1.5	-54		1001					X				
-3.0	-55		1006					X				
ADL4-0.5	-56		1009					X				
-1.5	-57		1011					X				
-3.0	-58		1014					X				
ADL5-0.5	-59		1017					X				
-1.5	-60		1019					X				
-3.0	-61		1021									

6010-Lead

Company Name: Converse Consultants

Project Contact: Mike Van Fleet

Sampler's Signature: 

Address: 717 S Myrtle Avenue

Tel: 626 930-1200

Project Name/ID: 18-16-113-01

City/State/Zip: Monrovia, CA 91016

Fax/Email: mvanfleet@converseconsultants.com

Magnolia St

Relinquished by: 

Received by: 

Date & Time: 9/28/2021 1:14 PM

Instructions for Sample Storage After Analysis:

Relinquished by: _____

Received by: _____

Date & Time: _____

Dispose of Return to Client Store (30 Days)

Relinquished by: _____

Received by: _____

Date & Time: _____

Other: _____

CHAIN OF CUSTODY RECORD

Date: 9/28/2021

WHITE WITH SAMPLE • YELLOW TO CLIENT

Page 1 of 4

Enviro-Chem, Inc. Laboratories

1214 E. Lexington Avenue,
Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

CA-DHS ELAP CERTIFICATE #1555

Turnaround Time

- Same Day
- 24 Hours
- 48 Hours
- 72 Hours
- 1 Week (Standard)
- Other:

MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	6010 - Lead					Misc./PO#

SAMPLE ID	LAB ID	SAMPLING DATE	TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required					COMMENTS	
ADL6 - 0.5	21098-62	9/28/21	1026	Soil	1		1 Capact	X						
- 1.5	- 63		1028					X						
- 3.0	- 64		1030					X						
ADL7 - 0.5	- 65		1041					X						
- 1.5	- 66		1043					X						
- 3.0	- 67		1045					X						
ADL8 - 0.5	- 68		1053					X						
- 1.5	- 69		1055					X						
- 3.0	- 70		1057					X						
ADL9 - 0.5	- 71		1115					X						
- 1.5	- 72		1117					X						
- 3.0	- 73		1119					X						
ADL10 - 0.5	- 74		1130					X						
- 1.5	- 75		1132					X						
- 3.0	- 76		1134					X						

Company Name: <u>Converse Consultants</u>		Project Contact: <u>Mite Van Fleet</u>		Sampler's Signature: 	
Address: <u>717 S Myrtle Avenue</u>		Tel: <u>626 930-1200</u>		Project Name/ID: <u>18-16-113-01</u>	
City/State/Zip: <u>Monrovia, CA 91016</u>		Fax/Email: <u>m.vanfleet@converseconsultants.com</u>		<u>Magnolia St</u>	
Relinquished by: 	Received by: 	Date & Time: <u>9/28/2021 1:14 PM</u>	Instructions for Sample Storage After Analysis:		
Relinquished by:	Received by:	Date & Time:	<input type="radio"/> Dispose of <input type="radio"/> Return to Client <input checked="" type="checkbox"/> Store (30 Days)		
Relinquished by:	Received by:	Date & Time:	<input type="radio"/> Other:		

CHAIN OF CUSTODY RECORD

Date: 9/28/2021

WHITE WITH SAMPLE • YELLOW TO CLIENT

