

# Definitions/Glossary

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213374-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
ID	Analyte identified by RT & presence of single mass ion

### GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.
N	Presumptive evidence of material.

### HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

TestAmerica Irvine

# Definitions/Glossary

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213374-1

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## Glossary (Continued)

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Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)

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# Accreditation/Certification Summary

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213374-1

## Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-18 *
Arizona	State Program	9	AZ0671	10-14-18
California	LA Cty Sanitation Districts	9	10256	06-30-18 *
California	State Program	9	CA ELAP 2706	06-30-18 *
Guam	State Program	9	Cert. No. 17-003R	01-23-19
Hawaii	State Program	9	N/A	01-29-19
Kansas	NELAP	7	E-10420	07-31-18
Nevada	State Program	9	CA015312018-1	07-31-18
New Mexico	State Program	6	N/A	01-29-19
Oregon	NELAP	10	4028	01-29-19
USDA	Federal		P330-15-00184	07-08-18 *
Washington	State Program	10	C900	09-03-18

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Irvine

TestAmerica Irvine  
 17451 Berrian Ave  
 Suite 100  
 Irvine, CA 92614  
 Phone: 949.261.1022 Fax:

Chain of Custody Record 211657

TestAmerica  
 THE LEADER IN ENVIRONMENTAL TESTING  
 TestAmerica Laboratories, Inc.  
 TAL-8210 (0713)

VG 4/72

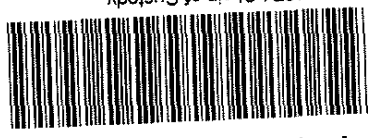
Regulatory Program:  DW  NPDES  RCRA  Other:

Client Contact  
 Company Name: CUA / Republic  
 Address: 11415 W. Bernardo St  
 City/State/Zip: San Diego, CA 92127  
 Phone: 858-451-1022  
 Fax: 858-451-1022  
 Project Name: Republic Service  
 Site: Sunshine City Landfill  
 P.O.#: 44007851

Project Manager: Kyle Weichman  
 Tel/Fax: 858-451-1133  
 Analysis Turnaround Time  
 CALENDAR DAYS  WORKING DAYS  
 TAT if different from Below  
 2 weeks  
 1 week  
 2 days  
 1 day

Site Contact: Sid Magana  
 Lab Contact: Sid Magana  
 Date: 6-12-18  
 Carrier: G.A. King Trucking  
 COC No: 1 of 2 COCS  
 Sampler: AS, BS, MC  
 For Lab Use Only:  
 Walk-in Client:  
 Lab Sampling:  
 Job / SDG No.:

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	8268B - VOCs	310.1 - Total	30.2 - Ammonia	300.0 - Chloride	Bromide, Nitrate	Sulfate	ED10.1 - TDS	ED4.15.1 - TDC	ED4.340.2 - Fluoride	ED4.396.2 - Sulfide	M-HSD - COC	Carbon Dioxide	8227D 1.4 - Diene	Sample Specific Notes
CM-9R3	6/12/18	1810S	G	GW	13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CM-1DR		0935			13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CM-11R		1035			13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MW-5		1120		MW	13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Subdrain (N)		1218		MW	13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Duplicate				GW	13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MW-13R		1320			13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
RZ-2		1146			13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MW-6		1035			13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MW-14		0914			13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	



Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other  
 Possible Hazard Identification:  Non-hazard  Flammable  Skin Irritant  Poison B  Unknown  
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

Special Instructions/QC Requirements & Comments: \* EPA Method 8260 includes all 40 CFR Part 258 Appendix 1 VOCs Dichlorodifluoromethane, MRE, and 1,4-Dioxane  
 Therm ID No.:  
 Date/Time: 6/12/18 1410  
 Date/Time: 6/12/18 1650

Relinquished by:	Relinquished by:	Relinquished by:	Company:	Date/Time:	Company:	Date/Time:	Company:	Date/Time:
[Signature]	[Signature]	[Signature]	See Log	6/12/18 1410	FA IRV	6/12/18 1650	FA IRV	6/12/18 1650

1R-506 1.09/1.9 1.3/1.3 1.6/1.6 1.9/1.9



Regulatory Program:  DW  NPDES  RCRA  Other:

Client Contact  
Company Name: CLA / Republic  
Address: 1145 W. Bernardo Ct  
City/State/Zip: San Diego CA 92127  
Phone: 858-451-5113  
Fax: 858-451-1083  
Project Name: Republic Service  
Site: Sunshine Syn. Ponds (1)  
PO #: 4400-7851

Project Manager: Kyle Giddens Site Contact: Josh Mills Date: 6-12-18  
Tel/Fax: 858-451-1136 Lab Contact: Unaski Carrier: T/A  
COC No: 7 of 7 COCs  
Sampler: AS, RS, MC

Analysis Turnaround Time  
 CALENDAR DAYS  WORKING DAYS  
TAT if different from Below  
 2 weeks  1 week  2 days  1 day

For Lab Use Only:  
Walk-in Client:   
Lab Sampling:   
Job / SDG No:

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes
OCAR	6/12/18	-	G	LF	4	X	EX 8260B-VCS*	
OCRS	↓	-	↓	↓	2	X		
TestAmerica Irvine								
17461 Berian Ave Suite 100 Irvine, CA 92614 Phone: 949.261.1022 Fax:								

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other  
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Special Instructions/QC Requirements & Comments: \*EPA 8260 includes all 40 CFR part 258 Appendix 1 VOCs, Dichlorodifluoromethane, MTBE and 1,4-Dioxane.

Custody Seal No.:  Yes  No  
Relinquished by: [Signature] Date/Time: 6/12/18 1410  
Relinquished by: [Signature] Date/Time: 6-12-18 1410  
Relinquished by: [Signature] Date/Time: 6/12/18 1658

Received by: [Signature] Date/Time: 6/12/18 1410  
Received by: [Signature] Date/Time: 6-12-18 1410  
Received in Laboratory by: [Signature] Date/Time: 6/12/18 1658

Company: Healogs  
Company: Healogs  
Company: Healogs

Company: TA  
Company: TA  
Company: TA



## Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 440-213374-1

**Login Number: 213374**

**List Number: 1**

**Creator: Soderblom, Tim**

**List Source: TestAmerica Irvine**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-213518-1

Client Project/Site: Republic Sunshine Canyon

For:

Geo-Logic Associates

11415 West Bernardo Court

Suite 200

San Diego, California 92127

Attn: Kyle Welchans



Authorized for release by:

6/27/2018 5:47:19 PM

Rossina Tomova, Project Manager I

(949)261-1022

[rossina.tomova@testamericainc.com](mailto:rossina.tomova@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Sample Summary

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-213518-1	DW-1	Water	06/13/18 10:15	06/13/18 17:13
440-213518-2	DW-2	Water	06/13/18 11:54	06/13/18 17:13
440-213518-3	DW-3	Water	06/13/18 13:15	06/13/18 17:13
440-213518-4	DW-5	Water	06/13/18 09:38	06/13/18 17:13
440-213518-5	MW-1	Water	06/13/18 10:25	06/13/18 17:13
440-213518-6	MW-9	Water	06/13/18 08:15	06/13/18 17:13
440-213518-7	Extraction Trench	Water	06/13/18 11:20	06/13/18 17:13
440-213518-8	QCAB	Water	06/13/18 00:01	06/13/18 17:13
440-213518-9	QCTB	Water	06/13/18 00:01	06/13/18 17:13



# Case Narrative

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

**Job ID: 440-213518-1**

**Laboratory: TestAmerica Irvine**

## Narrative

### Job Narrative 440-213518-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 6/13/2018 6:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.5° C, 0.8° C and 1.3° C.

#### GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### HPLC/IC

Method(s) 300.0: The following samples were diluted for Bromide or Fluoride due to the nature of the sample matrix: DW-1 (440-213518-1), MW-9 (440-213518-6) and Extraction Trench (440-213518-7). Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The following samples were diluted for Nitrate as N due to the nature of the sample matrix: DW-1 (440-213518-1), MW-1 (440-213518-5), MW-9 (440-213518-6) and Extraction Trench (440-213518-7). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Method(s) 6010B: The serial dilution performed for the following sample associated with batch 440-483904 was outside control limits for Boron and Magnesium: (440-213518-K-1-A SD)

Method(s) 6010B: The method blank for preparation batch 440-483392 and analytical batch 440-483904 contained Calcium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 6010B: The method blank for preparation batch 440-483392 and analytical batch 440-483901 contained Sodium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

Method(s) SM 5310C: The continuing calibration blank (CCB) for analytical batch 440-482280 contained Total Organic Carbon above the reporting limit (RL). All reported samples associated with this CCB contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Organic Prep

Method(s) 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-482875. 3520C\_1625/8270-NDMA/SIM 1,4 Dioxane/1,4 Dioxane.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Client Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

**Client Sample ID: DW-1**

**Lab Sample ID: 440-213518-1**

**Date Collected: 06/13/18 10:15**

**Matrix: Water**

**Date Received: 06/13/18 17:13**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			06/22/18 10:33	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 10:33	1
Acrolein	ND		50	2.5	ug/L			06/16/18 16:04	1
Acrylonitrile	ND		50	1.0	ug/L			06/16/18 16:04	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 10:33	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 10:33	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 10:33	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 10:33	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 10:33	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 10:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/22/18 10:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/22/18 10:33	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 10:33	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 10:33	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 10:33	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 10:33	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 10:33	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 10:33	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/22/18 10:33	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/22/18 10:33	1
2-Hexanone	ND		5.0	2.5	ug/L			06/22/18 10:33	1
Acetone	ND		20	10	ug/L			06/22/18 10:33	1
Acetonitrile	ND		20	10	ug/L			06/22/18 10:33	1
Acrolein	ND		5.0	2.5	ug/L			06/22/18 10:33	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/22/18 10:33	1
Benzene	ND		0.50	0.25	ug/L			06/22/18 10:33	1
Allyl chloride	ND		1.0	0.50	ug/L			06/22/18 10:33	1
Bromoform	ND		1.0	0.40	ug/L			06/22/18 10:33	1
Bromomethane	ND		0.50	0.25	ug/L			06/22/18 10:33	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/22/18 10:33	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/22/18 10:33	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/22/18 10:33	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/22/18 10:33	1
Chloroethane	ND		1.0	0.40	ug/L			06/22/18 10:33	1
Chloroform	ND		0.50	0.25	ug/L			06/22/18 10:33	1
Chloromethane	ND		0.50	0.25	ug/L			06/22/18 10:33	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 10:33	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 10:33	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/22/18 10:33	1
Dibromomethane	ND		0.50	0.25	ug/L			06/22/18 10:33	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/22/18 10:33	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/22/18 10:33	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 10:33	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/22/18 10:33	1
Iodomethane	ND		2.0	1.0	ug/L			06/22/18 10:33	1
Isobutyl alcohol	ND		25	13	ug/L			06/22/18 10:33	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/22/18 10:33	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/22/18 10:33	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 10:33	1

TestAmerica Irvine

# Client Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

**Client Sample ID: DW-1**

**Lab Sample ID: 440-213518-1**

**Date Collected: 06/13/18 10:15**

**Matrix: Water**

**Date Received: 06/13/18 17:13**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		2.0	0.88	ug/L			06/22/18 10:33	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/22/18 10:33	1
Naphthalene	ND		1.0	0.40	ug/L			06/22/18 10:33	1
o-Xylene	ND		0.50	0.25	ug/L			06/22/18 10:33	1
Propionitrile	ND		20	10	ug/L			06/22/18 10:33	1
Styrene	ND		0.50	0.25	ug/L			06/22/18 10:33	1
t-Butanol	ND		10	5.0	ug/L			06/22/18 10:33	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/22/18 10:33	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/22/18 10:33	1
Toluene	ND		0.50	0.25	ug/L			06/22/18 10:33	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 10:33	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 10:33	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/22/18 10:33	1
Trichloroethene	ND		0.50	0.25	ug/L			06/22/18 10:33	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/22/18 10:33	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/22/18 10:33	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/22/18 10:33	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/22/18 10:33	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/22/18 10:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/22/18 10:33	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	6.6	T J	ug/L		3.05			06/22/18 10:33	1
Unknown	22	T J	ug/L		17.64			06/22/18 10:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	116		80 - 128		06/16/18 16:04	1
4-Bromofluorobenzene (Surr)	99		80 - 120		06/16/18 16:04	1
Toluene-d8 (Surr)	104		80 - 128		06/22/18 10:33	1
4-Bromofluorobenzene (Surr)	96		80 - 120		06/22/18 10:33	1
Dibromofluoromethane (Surr)	114		76 - 132		06/16/18 16:04	1
Dibromofluoromethane (Surr)	101		76 - 132		06/22/18 10:33	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.99	0.25	ug/L		06/19/18 09:09	06/21/18 09:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	64		30 - 120	06/19/18 09:09	06/21/18 09:17	1

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0	0.50	mg/L			06/14/18 01:17	2
Nitrate as N	ND		0.22	0.11	mg/L			06/14/18 01:17	2
Chloride	14		1.0	0.50	mg/L			06/14/18 01:17	2
Fluoride	2.4		1.0	0.50	mg/L			06/14/18 01:17	2
Sulfate	1700		50	25	mg/L			06/14/18 01:36	100

**Method: 6010B - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	2.5		0.50	0.25	mg/L		06/21/18 09:43	06/23/18 11:35	1

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# Client Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

**Client Sample ID: DW-1**

**Lab Sample ID: 440-213518-1**

Date Collected: 06/13/18 10:15

Matrix: Water

Date Received: 06/13/18 17:13

**Method: 6010B - Metals (ICP) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		0.020	0.015	mg/L		06/21/18 09:43	06/23/18 11:35	1
<b>Magnesium</b>	<b>1.5</b>		0.020	0.010	mg/L		06/21/18 09:43	06/23/18 11:35	1
Iron	ND		0.10	0.050	mg/L		06/21/18 09:43	06/23/18 11:35	1
<b>Sodium</b>	<b>1100 B</b>		2.5	1.3	mg/L		06/21/18 09:43	06/23/18 13:15	5
<b>Calcium</b>	<b>2.8 B</b>		0.10	0.050	mg/L		06/21/18 09:43	06/23/18 11:35	1
<b>Boron</b>	<b>2.1</b>		0.050	0.025	mg/L		06/21/18 09:43	06/23/18 11:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chemical Oxygen Demand</b>	<b>11 J</b>		20	10	mg/L			06/21/18 13:55	1
<b>Total Dissolved Solids</b>	<b>3200</b>		50	25	mg/L			06/20/18 14:57	1
<b>Ammonia (as N)</b>	<b>0.76</b>		0.50	0.10	mg/L		06/18/18 04:00	06/18/18 07:00	1
<b>Total Sulfide</b>	<b>0.19</b>		0.050	0.027	mg/L			06/19/18 12:39	1
<b>Total Organic Carbon</b>	<b>3.2</b>		0.10	0.050	mg/L			06/14/18 14:37	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Alkalinity as CaCO3</b>	<b>520</b>		4.0	4.0	mg/L			06/14/18 05:29	1
<b>Bicarbonate Alkalinity as CaCO3</b>	<b>420</b>		4.0	4.0	mg/L			06/14/18 05:29	1
Carbon Dioxide, Free	ND		2.0	2.0	mg/L			06/21/18 11:48	1

**Client Sample ID: DW-2**

**Lab Sample ID: 440-213518-2**

Date Collected: 06/13/18 11:54

Matrix: Water

Date Received: 06/13/18 17:13

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			06/22/18 12:19	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 12:19	1
Acrolein	ND		50	2.5	ug/L			06/16/18 16:28	1
Acrylonitrile	ND		50	1.0	ug/L			06/16/18 16:28	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 12:19	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 12:19	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 12:19	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 12:19	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 12:19	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 12:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/22/18 12:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/22/18 12:19	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 12:19	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 12:19	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 12:19	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 12:19	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 12:19	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 12:19	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/22/18 12:19	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/22/18 12:19	1
2-Hexanone	ND		5.0	2.5	ug/L			06/22/18 12:19	1
Acetone	ND		20	10	ug/L			06/22/18 12:19	1
Acetonitrile	ND		20	10	ug/L			06/22/18 12:19	1
Acrolein	ND		5.0	2.5	ug/L			06/22/18 12:19	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/22/18 12:19	1

TestAmerica Irvine

# Client Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

**Client Sample ID: DW-2**

**Lab Sample ID: 440-213518-2**

Date Collected: 06/13/18 11:54

Matrix: Water

Date Received: 06/13/18 17:13

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			06/22/18 12:19	1
Allyl chloride	ND		1.0	0.50	ug/L			06/22/18 12:19	1
Bromoform	ND		1.0	0.40	ug/L			06/22/18 12:19	1
Bromomethane	ND		0.50	0.25	ug/L			06/22/18 12:19	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/22/18 12:19	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/22/18 12:19	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/22/18 12:19	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/22/18 12:19	1
Chloroethane	ND		1.0	0.40	ug/L			06/22/18 12:19	1
Chloroform	ND		0.50	0.25	ug/L			06/22/18 12:19	1
Chloromethane	ND		0.50	0.25	ug/L			06/22/18 12:19	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 12:19	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 12:19	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/22/18 12:19	1
Dibromomethane	ND		0.50	0.25	ug/L			06/22/18 12:19	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/22/18 12:19	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/22/18 12:19	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 12:19	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/22/18 12:19	1
Iodomethane	ND		2.0	1.0	ug/L			06/22/18 12:19	1
Isobutyl alcohol	ND		25	13	ug/L			06/22/18 12:19	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/22/18 12:19	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/22/18 12:19	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 12:19	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/22/18 12:19	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/22/18 12:19	1
Naphthalene	ND		1.0	0.40	ug/L			06/22/18 12:19	1
o-Xylene	ND		0.50	0.25	ug/L			06/22/18 12:19	1
Propionitrile	ND		20	10	ug/L			06/22/18 12:19	1
Styrene	ND		0.50	0.25	ug/L			06/22/18 12:19	1
t-Butanol	ND		10	5.0	ug/L			06/22/18 12:19	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/22/18 12:19	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/22/18 12:19	1
Toluene	ND		0.50	0.25	ug/L			06/22/18 12:19	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 12:19	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 12:19	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/22/18 12:19	1
Trichloroethene	ND		0.50	0.25	ug/L			06/22/18 12:19	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/22/18 12:19	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/22/18 12:19	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/22/18 12:19	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/22/18 12:19	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/22/18 12:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/22/18 12:19	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	2.8	TJ	ug/L		3.07			06/22/18 12:19	1
Unknown	11	TJ	ug/L		7.25			06/22/18 12:19	1
Unknown	13	TJ	ug/L		16.52			06/22/18 12:19	1

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# Client Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Client Sample ID: DW-2

## Lab Sample ID: 440-213518-2

Date Collected: 06/13/18 11:54

Matrix: Water

Date Received: 06/13/18 17:13

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	115		80 - 128		06/16/18 16:28	1
4-Bromofluorobenzene (Surr)	102		80 - 120		06/16/18 16:28	1
Toluene-d8 (Surr)	106		80 - 128		06/22/18 12:19	1
4-Bromofluorobenzene (Surr)	96		80 - 120		06/22/18 12:19	1
Dibromofluoromethane (Surr)	113		76 - 132		06/16/18 16:28	1
Dibromofluoromethane (Surr)	101		76 - 132		06/22/18 12:19	1

### Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.98	0.24	ug/L		06/19/18 09:09	06/21/18 09:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	76		30 - 120	06/19/18 09:09	06/21/18 09:40	1

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.11	0.055	mg/L			06/14/18 01:55	1
Sulfate	1100		25	13	mg/L			06/14/18 02:50	50

### Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.29	J	0.50	0.25	mg/L			06/14/18 01:55	1
Chloride	11		0.50	0.25	mg/L			06/14/18 01:55	1
Fluoride	0.51		0.50	0.25	mg/L			06/14/18 01:55	1

### Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	4.6		0.50	0.25	mg/L		06/21/18 09:43	06/23/18 11:47	1
Manganese	0.13		0.020	0.015	mg/L		06/21/18 09:43	06/23/18 11:47	1
Magnesium	65		0.020	0.010	mg/L		06/21/18 09:43	06/23/18 11:47	1
Iron	1.3		0.10	0.050	mg/L		06/21/18 09:43	06/23/18 11:47	1
Sodium	460	B	0.50	0.26	mg/L		06/21/18 09:43	06/23/18 13:28	1
Calcium	98	B	0.10	0.050	mg/L		06/21/18 09:43	06/23/18 11:47	1
Boron	0.60		0.050	0.025	mg/L		06/21/18 09:43	06/23/18 11:47	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		20	10	mg/L			06/21/18 13:55	1
Total Dissolved Solids	1900		20	10	mg/L			06/20/18 14:57	1
Ammonia (as N)	3.3		0.50	0.10	mg/L		06/18/18 04:00	06/18/18 07:00	1
Total Sulfide	ND		0.050	0.027	mg/L			06/19/18 12:39	1
Total Organic Carbon	1.6		0.10	0.050	mg/L			06/14/18 14:48	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	350		4.0	4.0	mg/L			06/14/18 05:50	1
Bicarbonate Alkalinity as CaCO3	350		4.0	4.0	mg/L			06/14/18 05:50	1
Carbon Dioxide, Free	25		2.0	2.0	mg/L			06/21/18 11:48	1

# Client Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

**Client Sample ID: DW-3**

**Lab Sample ID: 440-213518-3**

**Date Collected: 06/13/18 13:15**

**Matrix: Water**

**Date Received: 06/13/18 17:13**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			06/22/18 12:45	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 12:45	1
Acrolein	ND		50	2.5	ug/L			06/16/18 16:51	1
Acrylonitrile	ND		50	1.0	ug/L			06/16/18 16:51	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 12:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 12:45	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 12:45	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 12:45	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 12:45	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 12:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/22/18 12:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/22/18 12:45	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 12:45	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 12:45	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 12:45	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 12:45	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 12:45	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 12:45	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/22/18 12:45	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/22/18 12:45	1
2-Hexanone	ND		5.0	2.5	ug/L			06/22/18 12:45	1
Acetone	ND		20	10	ug/L			06/22/18 12:45	1
Acetonitrile	ND		20	10	ug/L			06/22/18 12:45	1
Acrolein	ND		5.0	2.5	ug/L			06/22/18 12:45	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/22/18 12:45	1
Benzene	ND		0.50	0.25	ug/L			06/22/18 12:45	1
Allyl chloride	ND		1.0	0.50	ug/L			06/22/18 12:45	1
Bromoform	ND		1.0	0.40	ug/L			06/22/18 12:45	1
Bromomethane	ND		0.50	0.25	ug/L			06/22/18 12:45	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/22/18 12:45	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/22/18 12:45	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/22/18 12:45	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/22/18 12:45	1
Chloroethane	ND		1.0	0.40	ug/L			06/22/18 12:45	1
Chloroform	ND		0.50	0.25	ug/L			06/22/18 12:45	1
Chloromethane	ND		0.50	0.25	ug/L			06/22/18 12:45	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 12:45	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 12:45	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/22/18 12:45	1
Dibromomethane	ND		0.50	0.25	ug/L			06/22/18 12:45	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/22/18 12:45	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/22/18 12:45	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 12:45	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/22/18 12:45	1
Iodomethane	ND		2.0	1.0	ug/L			06/22/18 12:45	1
Isobutyl alcohol	ND		25	13	ug/L			06/22/18 12:45	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/22/18 12:45	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/22/18 12:45	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 12:45	1

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# Client Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

**Client Sample ID: DW-3**

**Lab Sample ID: 440-213518-3**

Date Collected: 06/13/18 13:15

Matrix: Water

Date Received: 06/13/18 17:13

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		2.0	0.88	ug/L			06/22/18 12:45	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/22/18 12:45	1
Naphthalene	ND		1.0	0.40	ug/L			06/22/18 12:45	1
o-Xylene	ND		0.50	0.25	ug/L			06/22/18 12:45	1
Propionitrile	ND		20	10	ug/L			06/22/18 12:45	1
Styrene	ND		0.50	0.25	ug/L			06/22/18 12:45	1
t-Butanol	ND		10	5.0	ug/L			06/22/18 12:45	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/22/18 12:45	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/22/18 12:45	1
Toluene	ND		0.50	0.25	ug/L			06/22/18 12:45	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 12:45	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 12:45	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/22/18 12:45	1
Trichloroethene	ND		0.50	0.25	ug/L			06/22/18 12:45	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/22/18 12:45	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/22/18 12:45	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/22/18 12:45	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/22/18 12:45	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/22/18 12:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/22/18 12:45	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	11	TJ	ug/L		7.26			06/22/18 12:45	1
Unknown	11	TJ	ug/L		16.58			06/22/18 12:45	1
Unknown	3.6	TJ	ug/L		17.65			06/22/18 12:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	115		80 - 128		06/16/18 16:51	1
4-Bromofluorobenzene (Surr)	103		80 - 120		06/16/18 16:51	1
Toluene-d8 (Surr)	105		80 - 128		06/22/18 12:45	1
4-Bromofluorobenzene (Surr)	92		80 - 120		06/22/18 12:45	1
Dibromofluoromethane (Surr)	115		76 - 132		06/16/18 16:51	1
Dibromofluoromethane (Surr)	102		76 - 132		06/22/18 12:45	1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.99	0.25	ug/L		06/19/18 09:09	06/21/18 10:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	66		30 - 120	06/19/18 09:09	06/21/18 10:02	1

## Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.50	0.25	mg/L			06/14/18 03:46	1
Nitrate as N	ND		0.11	0.055	mg/L			06/14/18 03:46	1
Chloride	15		0.50	0.25	mg/L			06/14/18 03:46	1
Fluoride	0.37	J	0.50	0.25	mg/L			06/14/18 03:46	1
Sulfate	1200		25	13	mg/L			06/14/18 04:05	50

TestAmerica Irvine

# Client Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

**Client Sample ID: DW-3**

**Lab Sample ID: 440-213518-3**

Date Collected: 06/13/18 13:15

Matrix: Water

Date Received: 06/13/18 17:13

**Method: 6010B - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	9.2		0.50	0.25	mg/L		06/21/18 09:43	06/23/18 11:50	1
Manganese	0.46		0.020	0.015	mg/L		06/21/18 09:43	06/23/18 11:50	1
Magnesium	100		0.020	0.010	mg/L		06/21/18 09:43	06/23/18 11:50	1
Iron	0.62		0.10	0.050	mg/L		06/21/18 09:43	06/23/18 11:50	1
Sodium	72	B	0.50	0.26	mg/L		06/21/18 09:43	06/23/18 13:30	1
Calcium	290	B	0.10	0.050	mg/L		06/21/18 09:43	06/23/18 11:50	1
Boron	0.061		0.050	0.025	mg/L		06/21/18 09:43	06/23/18 11:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		20	10	mg/L			06/21/18 13:55	1
Total Dissolved Solids	1900		20	10	mg/L			06/20/18 14:57	1
Ammonia (as N)	2.4		0.50	0.10	mg/L		06/18/18 04:00	06/18/18 07:00	1
Total Sulfide	ND		0.050	0.027	mg/L			06/19/18 12:39	1
Total Organic Carbon	0.34		0.10	0.050	mg/L			06/15/18 08:02	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	150		4.0	4.0	mg/L			06/14/18 05:57	1
Bicarbonate Alkalinity as CaCO3	150		4.0	4.0	mg/L			06/14/18 05:57	1
Carbon Dioxide, Free	18		2.0	2.0	mg/L			06/21/18 11:48	1

**Client Sample ID: DW-5**

**Lab Sample ID: 440-213518-4**

Date Collected: 06/13/18 09:38

Matrix: Water

Date Received: 06/13/18 17:13

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			06/22/18 13:12	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 13:12	1
Acrolein	ND		50	2.5	ug/L			06/19/18 18:45	1
Acrylonitrile	ND		50	1.0	ug/L			06/19/18 18:45	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 13:12	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 13:12	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 13:12	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 13:12	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 13:12	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 13:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/22/18 13:12	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/22/18 13:12	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 13:12	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 13:12	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 13:12	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 13:12	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 13:12	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 13:12	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/22/18 13:12	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/22/18 13:12	1
2-Hexanone	ND		5.0	2.5	ug/L			06/22/18 13:12	1
Acetone	ND		20	10	ug/L			06/22/18 13:12	1
Acetonitrile	ND		20	10	ug/L			06/22/18 13:12	1
Acrolein	ND		5.0	2.5	ug/L			06/22/18 13:12	1

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# Client Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

**Client Sample ID: DW-5**

**Lab Sample ID: 440-213518-4**

Date Collected: 06/13/18 09:38

Matrix: Water

Date Received: 06/13/18 17:13

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	ND		2.0	1.0	ug/L			06/22/18 13:12	1
Benzene	ND		0.50	0.25	ug/L			06/22/18 13:12	1
Allyl chloride	ND		1.0	0.50	ug/L			06/22/18 13:12	1
Bromoform	ND		1.0	0.40	ug/L			06/22/18 13:12	1
Bromomethane	ND		0.50	0.25	ug/L			06/22/18 13:12	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/22/18 13:12	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/22/18 13:12	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/22/18 13:12	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/22/18 13:12	1
Chloroethane	ND		1.0	0.40	ug/L			06/22/18 13:12	1
Chloroform	ND		0.50	0.25	ug/L			06/22/18 13:12	1
Chloromethane	ND		0.50	0.25	ug/L			06/22/18 13:12	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 13:12	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 13:12	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/22/18 13:12	1
Dibromomethane	ND		0.50	0.25	ug/L			06/22/18 13:12	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/22/18 13:12	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/22/18 13:12	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 13:12	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/22/18 13:12	1
Iodomethane	ND		2.0	1.0	ug/L			06/22/18 13:12	1
Isobutyl alcohol	ND		25	13	ug/L			06/22/18 13:12	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/22/18 13:12	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/22/18 13:12	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 13:12	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/22/18 13:12	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/22/18 13:12	1
Naphthalene	ND		1.0	0.40	ug/L			06/22/18 13:12	1
o-Xylene	ND		0.50	0.25	ug/L			06/22/18 13:12	1
Propionitrile	ND		20	10	ug/L			06/22/18 13:12	1
Styrene	ND		0.50	0.25	ug/L			06/22/18 13:12	1
t-Butanol	ND		10	5.0	ug/L			06/22/18 13:12	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/22/18 13:12	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/22/18 13:12	1
Toluene	ND		0.50	0.25	ug/L			06/22/18 13:12	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 13:12	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 13:12	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/22/18 13:12	1
Trichloroethene	ND		0.50	0.25	ug/L			06/22/18 13:12	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/22/18 13:12	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/22/18 13:12	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/22/18 13:12	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/22/18 13:12	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/22/18 13:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/22/18 13:12	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Butane, 2,3-dimethyl-	13	T J N	ug/L		5.85	79-29-8		06/22/18 13:12	1
Unknown	11	T J	ug/L		7.26			06/22/18 13:12	1
Benzene, (2-methylpropyl)-	12	T J N	ug/L		13.01	538-93-2		06/22/18 13:12	1

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# Client Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

**Client Sample ID: DW-5**

**Lab Sample ID: 440-213518-4**

Date Collected: 06/13/18 09:38

Matrix: Water

Date Received: 06/13/18 17:13

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
1H-Indene, 2,3-dihydro-2,2-dimethyl-	8.9	T J N	ug/L		14.09	20836-11-7		06/22/18 13:12	1
1H-Indene, 2,3-dihydro-1,1-dimethyl-	8.9	T J N	ug/L		14.16	4912-92-9		06/22/18 13:12	1
Benzene, 1,2,3,4-tetramethyl-	31	T J N	ug/L		14.32	488-23-3		06/22/18 13:12	1
Unknown	16	T J	ug/L		15.07			06/22/18 13:12	1
Benzene, 1,3-dimethyl-5-(1-methylethyl)-	11	T J N	ug/L		15.53	4706-90-5		06/22/18 13:12	1
1H-Indene, 2,3-dihydro-4,7-dimethyl-	11	T J N	ug/L		15.93	6682-71-9		06/22/18 13:12	1
Unknown	8.7	T J	ug/L		16.16			06/22/18 13:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 128		06/19/18 18:45	1
4-Bromofluorobenzene (Surr)	93		80 - 120		06/19/18 18:45	1
Toluene-d8 (Surr)	104		80 - 128		06/22/18 13:12	1
4-Bromofluorobenzene (Surr)	96		80 - 120		06/22/18 13:12	1
Dibromofluoromethane (Surr)	98		76 - 132		06/19/18 18:45	1
Dibromofluoromethane (Surr)	106		76 - 132		06/22/18 13:12	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.99	0.25	ug/L		06/19/18 09:09	06/21/18 10:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	70		30 - 120	06/19/18 09:09	06/21/18 10:26	1

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.50	0.25	mg/L			06/14/18 04:23	1
Nitrate as N	ND		0.11	0.055	mg/L			06/14/18 04:23	1
Chloride	19		0.50	0.25	mg/L			06/14/18 04:23	1
Fluoride	3.5		0.50	0.25	mg/L			06/14/18 04:23	1
Sulfate	ND		0.50	0.25	mg/L			06/14/18 04:23	1

**Method: 6010B - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	1.4		0.50	0.25	mg/L		06/21/18 09:43	06/23/18 11:52	1
Manganese	0.093		0.020	0.015	mg/L		06/21/18 09:43	06/23/18 11:52	1
Magnesium	0.88		0.020	0.010	mg/L		06/21/18 09:43	06/23/18 11:52	1
Iron	0.12		0.10	0.050	mg/L		06/21/18 09:43	06/23/18 11:52	1
Sodium	460	B	0.50	0.26	mg/L		06/21/18 09:43	06/23/18 13:32	1
Calcium	5.4	B	0.10	0.050	mg/L		06/21/18 09:43	06/23/18 11:52	1
Boron	2.7		0.050	0.025	mg/L		06/21/18 09:43	06/23/18 11:52	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	20		20	10	mg/L			06/21/18 13:56	1
Total Dissolved Solids	1100		10	5.0	mg/L			06/20/18 14:57	1
Ammonia (as N)	0.44	J	0.50	0.10	mg/L		06/26/18 04:00	06/26/18 06:00	1
Total Sulfide	0.058		0.050	0.027	mg/L			06/19/18 12:39	1
Total Organic Carbon	7.3		0.10	0.050	mg/L			06/14/18 15:16	1

TestAmerica Irvine

# Client Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

**Client Sample ID: DW-5**

**Lab Sample ID: 440-213518-4**

Date Collected: 06/13/18 09:38

Matrix: Water

Date Received: 06/13/18 17:13

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	940		4.0	4.0	mg/L			06/14/18 06:14	1
Bicarbonate Alkalinity as CaCO3	910		4.0	4.0	mg/L			06/14/18 06:14	1
Carbon Dioxide, Free	7.0		2.0	2.0	mg/L			06/21/18 11:48	1

**Client Sample ID: MW-1**

**Lab Sample ID: 440-213518-5**

Date Collected: 06/13/18 10:25

Matrix: Water

Date Received: 06/13/18 17:13

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			06/22/18 13:38	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 13:38	1
Acrolein	ND		50	2.5	ug/L			06/19/18 20:08	1
Acrylonitrile	ND		50	1.0	ug/L			06/19/18 20:08	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 13:38	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 13:38	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 13:38	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 13:38	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 13:38	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 13:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/22/18 13:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/22/18 13:38	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 13:38	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 13:38	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 13:38	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 13:38	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 13:38	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 13:38	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/22/18 13:38	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/22/18 13:38	1
2-Hexanone	ND		5.0	2.5	ug/L			06/22/18 13:38	1
Acetone	ND		20	10	ug/L			06/22/18 13:38	1
Acetonitrile	ND		20	10	ug/L			06/22/18 13:38	1
Acrolein	ND		5.0	2.5	ug/L			06/22/18 13:38	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/22/18 13:38	1
Benzene	ND		0.50	0.25	ug/L			06/22/18 13:38	1
Allyl chloride	ND		1.0	0.50	ug/L			06/22/18 13:38	1
Bromoform	ND		1.0	0.40	ug/L			06/22/18 13:38	1
Bromomethane	ND		0.50	0.25	ug/L			06/22/18 13:38	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/22/18 13:38	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/22/18 13:38	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/22/18 13:38	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/22/18 13:38	1
Chloroethane	ND		1.0	0.40	ug/L			06/22/18 13:38	1
Chloroform	ND		0.50	0.25	ug/L			06/22/18 13:38	1
Chloromethane	ND		0.50	0.25	ug/L			06/22/18 13:38	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 13:38	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 13:38	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/22/18 13:38	1
Dibromomethane	ND		0.50	0.25	ug/L			06/22/18 13:38	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/22/18 13:38	1

TestAmerica Irvine

# Client Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

**Client Sample ID: MW-1**

**Lab Sample ID: 440-213518-5**

Date Collected: 06/13/18 10:25

Matrix: Water

Date Received: 06/13/18 17:13

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/22/18 13:38	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 13:38	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/22/18 13:38	1
Iodomethane	ND		2.0	1.0	ug/L			06/22/18 13:38	1
Isobutyl alcohol	ND		25	13	ug/L			06/22/18 13:38	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/22/18 13:38	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/22/18 13:38	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 13:38	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/22/18 13:38	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/22/18 13:38	1
Naphthalene	ND		1.0	0.40	ug/L			06/22/18 13:38	1
o-Xylene	ND		0.50	0.25	ug/L			06/22/18 13:38	1
Propionitrile	ND		20	10	ug/L			06/22/18 13:38	1
Styrene	ND		0.50	0.25	ug/L			06/22/18 13:38	1
t-Butanol	ND		10	5.0	ug/L			06/22/18 13:38	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/22/18 13:38	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/22/18 13:38	1
Toluene	ND		0.50	0.25	ug/L			06/22/18 13:38	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 13:38	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 13:38	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/22/18 13:38	1
Trichloroethene	ND		0.50	0.25	ug/L			06/22/18 13:38	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/22/18 13:38	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/22/18 13:38	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/22/18 13:38	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/22/18 13:38	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/22/18 13:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/22/18 13:38	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	11	T J	ug/L		7.26			06/22/18 13:38	1
Unknown	6.1	T J	ug/L		17.32			06/22/18 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 128		06/19/18 20:08	1
4-Bromofluorobenzene (Surr)	94		80 - 120		06/19/18 20:08	1
Toluene-d8 (Surr)	104		80 - 128		06/22/18 13:38	1
4-Bromofluorobenzene (Surr)	96		80 - 120		06/22/18 13:38	1
Dibromofluoromethane (Surr)	99		76 - 132		06/19/18 20:08	1
Dibromofluoromethane (Surr)	101		76 - 132		06/22/18 13:38	1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	11		0.98	0.25	ug/L		06/19/18 09:09	06/21/18 10:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	53		30 - 120	06/19/18 09:09	06/21/18 10:49	1

## Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	2.3		1.0	0.50	mg/L			06/14/18 05:01	2

TestAmerica Irvine

# Client Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

**Client Sample ID: MW-1**

**Lab Sample ID: 440-213518-5**

Date Collected: 06/13/18 10:25

Matrix: Water

Date Received: 06/13/18 17:13

**Method: 300.0 - Anions, Ion Chromatography (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.22	0.11	mg/L			06/14/18 05:01	2
Chloride	170		50	25	mg/L			06/14/18 05:19	100
Fluoride	1.8		1.0	0.50	mg/L			06/14/18 05:01	2
Sulfate	1400		50	25	mg/L			06/14/18 05:19	100

**Method: 6010B - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	25		0.50	0.25	mg/L		06/21/18 09:43	06/23/18 11:55	1
Manganese	2.4		0.020	0.015	mg/L		06/21/18 09:43	06/23/18 11:55	1
Magnesium	150		0.020	0.010	mg/L		06/21/18 09:43	06/23/18 11:55	1
Iron	44		0.10	0.050	mg/L		06/21/18 09:43	06/23/18 11:55	1
Sodium	320	B	0.50	0.26	mg/L		06/21/18 09:43	06/23/18 13:35	1
Calcium	330	B	0.10	0.050	mg/L		06/21/18 09:43	06/23/18 11:55	1
Boron	1.2		0.050	0.025	mg/L		06/21/18 09:43	06/23/18 11:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	81		20	10	mg/L			06/21/18 13:56	1
Total Dissolved Solids	3000		20	10	mg/L			06/20/18 14:57	1
Ammonia (as N)	3.7		0.50	0.10	mg/L		06/26/18 04:00	06/26/18 06:00	1
Total Sulfide	ND		0.050	0.027	mg/L			06/19/18 12:40	1
Total Organic Carbon	13		0.10	0.050	mg/L			06/14/18 15:58	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	600		4.0	4.0	mg/L			06/14/18 06:27	1
Bicarbonate Alkalinity as CaCO3	600		4.0	4.0	mg/L			06/14/18 06:27	1
Carbon Dioxide, Free	120		2.0	2.0	mg/L			06/21/18 11:48	1

**Client Sample ID: MW-9**

**Lab Sample ID: 440-213518-6**

Date Collected: 06/13/18 08:15

Matrix: Water

Date Received: 06/13/18 17:13

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			06/22/18 14:05	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 14:05	1
Acrolein	ND		50	2.5	ug/L			06/19/18 20:35	1
Acrylonitrile	ND		50	1.0	ug/L			06/19/18 20:35	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 14:05	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 14:05	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 14:05	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 14:05	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 14:05	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 14:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/22/18 14:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/22/18 14:05	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 14:05	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 14:05	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 14:05	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 14:05	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 14:05	1

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# Client Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

**Client Sample ID: MW-9**

**Lab Sample ID: 440-213518-6**

Date Collected: 06/13/18 08:15

Matrix: Water

Date Received: 06/13/18 17:13

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,4-Dichlorobenzene</b>	<b>0.26</b>	<b>J</b>	0.50	0.25	ug/L			06/22/18 14:05	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/22/18 14:05	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/22/18 14:05	1
2-Hexanone	ND		5.0	2.5	ug/L			06/22/18 14:05	1
Acetone	ND		20	10	ug/L			06/22/18 14:05	1
Acetonitrile	ND		20	10	ug/L			06/22/18 14:05	1
Acrolein	ND		5.0	2.5	ug/L			06/22/18 14:05	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/22/18 14:05	1
Benzene	ND		0.50	0.25	ug/L			06/22/18 14:05	1
Allyl chloride	ND		1.0	0.50	ug/L			06/22/18 14:05	1
Bromoform	ND		1.0	0.40	ug/L			06/22/18 14:05	1
Bromomethane	ND		0.50	0.25	ug/L			06/22/18 14:05	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/22/18 14:05	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/22/18 14:05	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/22/18 14:05	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/22/18 14:05	1
Chloroethane	ND		1.0	0.40	ug/L			06/22/18 14:05	1
Chloroform	ND		0.50	0.25	ug/L			06/22/18 14:05	1
Chloromethane	ND		0.50	0.25	ug/L			06/22/18 14:05	1
<b>cis-1,2-Dichloroethene</b>	<b>0.96</b>		0.50	0.25	ug/L			06/22/18 14:05	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 14:05	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/22/18 14:05	1
Dibromomethane	ND		0.50	0.25	ug/L			06/22/18 14:05	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/22/18 14:05	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/22/18 14:05	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 14:05	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/22/18 14:05	1
Iodomethane	ND		2.0	1.0	ug/L			06/22/18 14:05	1
Isobutyl alcohol	ND		25	13	ug/L			06/22/18 14:05	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/22/18 14:05	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/22/18 14:05	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 14:05	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/22/18 14:05	1
<b>Methyl tert-butyl ether</b>	<b>1.0</b>		0.50	0.25	ug/L			06/22/18 14:05	1
Naphthalene	ND		1.0	0.40	ug/L			06/22/18 14:05	1
o-Xylene	ND		0.50	0.25	ug/L			06/22/18 14:05	1
Propionitrile	ND		20	10	ug/L			06/22/18 14:05	1
Styrene	ND		0.50	0.25	ug/L			06/22/18 14:05	1
<b>t-Butanol</b>	<b>47</b>		10	5.0	ug/L			06/22/18 14:05	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/22/18 14:05	1
<b>Tetrahydrofuran</b>	<b>12</b>		10	5.0	ug/L			06/22/18 14:05	1
Toluene	ND		0.50	0.25	ug/L			06/22/18 14:05	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 14:05	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 14:05	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/22/18 14:05	1
Trichloroethene	ND		0.50	0.25	ug/L			06/22/18 14:05	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/22/18 14:05	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/22/18 14:05	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/22/18 14:05	1

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# Client Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

**Client Sample ID: MW-9**

**Lab Sample ID: 440-213518-6**

Date Collected: 06/13/18 08:15

Matrix: Water

Date Received: 06/13/18 17:13

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/22/18 14:05	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/22/18 14:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/22/18 14:05	1

**Tentatively Identified Compound**

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Silanol, trimethyl-	11	T J N	ug/L		5.78	1066-40-6		06/22/18 14:05	1
Unknown	11	T J	ug/L		7.25			06/22/18 14:05	1
Unknown	16	T J	ug/L		16.44			06/22/18 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 128		06/19/18 20:35	1
4-Bromofluorobenzene (Surr)	92		80 - 120		06/19/18 20:35	1
Toluene-d8 (Surr)	105		80 - 128		06/22/18 14:05	1
4-Bromofluorobenzene (Surr)	93		80 - 120		06/22/18 14:05	1
Dibromofluoromethane (Surr)	100		76 - 132		06/19/18 20:35	1
Dibromofluoromethane (Surr)	104		76 - 132		06/22/18 14:05	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	32		1.0	0.26	ug/L		06/19/18 09:09	06/21/18 11:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	54		30 - 120	06/19/18 09:09	06/21/18 11:12	1

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	5.2		2.5	1.3	mg/L			06/14/18 05:38	5
Nitrate as N	0.30	J	0.55	0.28	mg/L			06/14/18 05:38	5
Chloride	300		100	50	mg/L			06/14/18 05:56	200
Fluoride	1.8	J	2.5	1.3	mg/L			06/14/18 05:38	5
Sulfate	1500		100	50	mg/L			06/14/18 05:56	200

**Method: 6010B - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	33		0.50	0.25	mg/L		06/21/18 09:43	06/23/18 11:57	1
Manganese	3.6		0.020	0.015	mg/L		06/21/18 09:43	06/23/18 11:57	1
Magnesium	210		0.020	0.010	mg/L		06/21/18 09:43	06/23/18 11:57	1
Iron	67		0.10	0.050	mg/L		06/21/18 09:43	06/23/18 11:57	1
Sodium	510	B	0.50	0.26	mg/L		06/21/18 09:43	06/23/18 13:37	1
Calcium	430	B	0.10	0.050	mg/L		06/21/18 09:43	06/23/18 11:57	1
Boron	2.2		0.050	0.025	mg/L		06/21/18 09:43	06/23/18 11:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	220		20	10	mg/L			06/21/18 13:56	1
Total Dissolved Solids	3900		50	25	mg/L			06/20/18 14:57	1
Ammonia (as N)	16		2.5	0.50	mg/L		06/26/18 04:00	06/26/18 06:00	1
Total Sulfide	ND		0.050	0.027	mg/L			06/19/18 12:40	1
Total Organic Carbon	14		0.10	0.050	mg/L			06/14/18 16:15	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	1000		4.0	4.0	mg/L			06/14/18 06:44	1

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# Client Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Client Sample ID: MW-9

Lab Sample ID: 440-213518-6

Date Collected: 06/13/18 08:15

Matrix: Water

Date Received: 06/13/18 17:13

### General Chemistry (Continued)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	1000		4.0	4.0	mg/L			06/14/18 06:44	1
Carbon Dioxide, Free	150		2.0	2.0	mg/L			06/21/18 11:48	1

## Client Sample ID: Extraction Trench

Lab Sample ID: 440-213518-7

Date Collected: 06/13/18 11:20

Matrix: Water

Date Received: 06/13/18 17:13

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			06/22/18 14:31	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 14:31	1
Acrolein	ND		50	2.5	ug/L			06/19/18 21:03	1
Acrylonitrile	ND		50	1.0	ug/L			06/19/18 21:03	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 14:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 14:31	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 14:31	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 14:31	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 14:31	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 14:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/22/18 14:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/22/18 14:31	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 14:31	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 14:31	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 14:31	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 14:31	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 14:31	1
<b>1,4-Dichlorobenzene</b>	<b>1.5</b>		0.50	0.25	ug/L			06/22/18 14:31	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/22/18 14:31	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/22/18 14:31	1
2-Hexanone	ND		5.0	2.5	ug/L			06/22/18 14:31	1
Acetone	ND		20	10	ug/L			06/22/18 14:31	1
Acetonitrile	ND		20	10	ug/L			06/22/18 14:31	1
Acrolein	ND		5.0	2.5	ug/L			06/22/18 14:31	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/22/18 14:31	1
Benzene	ND		0.50	0.25	ug/L			06/22/18 14:31	1
Allyl chloride	ND		1.0	0.50	ug/L			06/22/18 14:31	1
Bromoform	ND		1.0	0.40	ug/L			06/22/18 14:31	1
Bromomethane	ND		0.50	0.25	ug/L			06/22/18 14:31	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/22/18 14:31	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/22/18 14:31	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/22/18 14:31	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/22/18 14:31	1
Chloroethane	ND		1.0	0.40	ug/L			06/22/18 14:31	1
Chloroform	ND		0.50	0.25	ug/L			06/22/18 14:31	1
Chloromethane	ND		0.50	0.25	ug/L			06/22/18 14:31	1
<b>cis-1,2-Dichloroethene</b>	<b>1.4</b>		0.50	0.25	ug/L			06/22/18 14:31	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 14:31	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/22/18 14:31	1
Dibromomethane	ND		0.50	0.25	ug/L			06/22/18 14:31	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/22/18 14:31	1

TestAmerica Irvine

# Client Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Client Sample ID: Extraction Trench

Lab Sample ID: 440-213518-7

Date Collected: 06/13/18 11:20

Matrix: Water

Date Received: 06/13/18 17:13

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/22/18 14:31	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 14:31	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/22/18 14:31	1
Iodomethane	ND		2.0	1.0	ug/L			06/22/18 14:31	1
Isobutyl alcohol	ND		25	13	ug/L			06/22/18 14:31	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/22/18 14:31	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/22/18 14:31	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 14:31	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/22/18 14:31	1
<b>Methyl tert-butyl ether</b>	<b>1.5</b>		0.50	0.25	ug/L			06/22/18 14:31	1
Naphthalene	ND		1.0	0.40	ug/L			06/22/18 14:31	1
o-Xylene	ND		0.50	0.25	ug/L			06/22/18 14:31	1
Propionitrile	ND		20	10	ug/L			06/22/18 14:31	1
Styrene	ND		0.50	0.25	ug/L			06/22/18 14:31	1
<b>t-Butanol</b>	<b>45</b>		10	5.0	ug/L			06/22/18 14:31	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/22/18 14:31	1
<b>Tetrahydrofuran</b>	<b>9.1 J</b>		10	5.0	ug/L			06/22/18 14:31	1
Toluene	ND		0.50	0.25	ug/L			06/22/18 14:31	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 14:31	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 14:31	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/22/18 14:31	1
Trichloroethene	ND		0.50	0.25	ug/L			06/22/18 14:31	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/22/18 14:31	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/22/18 14:31	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/22/18 14:31	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/22/18 14:31	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/22/18 14:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/22/18 14:31	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	4.3	T J	ug/L		3.31			06/22/18 14:31	1
Unknown	2.6	T J	ug/L		3.58			06/22/18 14:31	1
Unknown	10	T J	ug/L		5.78			06/22/18 14:31	1
Unknown	11	T J	ug/L		7.26			06/22/18 14:31	1
Unknown	3.5	T J	ug/L		15.76			06/22/18 14:31	1
Unknown	4.7	T J	ug/L		17.07			06/22/18 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 128		06/19/18 21:03	1
4-Bromofluorobenzene (Surr)	94		80 - 120		06/19/18 21:03	1
Toluene-d8 (Surr)	104		80 - 128		06/22/18 14:31	1
4-Bromofluorobenzene (Surr)	96		80 - 120		06/22/18 14:31	1
Dibromofluoromethane (Surr)	101		76 - 132		06/19/18 21:03	1
Dibromofluoromethane (Surr)	104		76 - 132		06/22/18 14:31	1

### Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,4-Dioxane</b>	<b>25</b>		0.99	0.25	ug/L		06/19/18 09:09	06/21/18 11:35	1

# Client Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Client Sample ID: Extraction Trench

## Lab Sample ID: 440-213518-7

Date Collected: 06/13/18 11:20

Matrix: Water

Date Received: 06/13/18 17:13

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	66		30 - 120	06/19/18 09:09	06/21/18 11:35	1

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	5.7		2.5	1.3	mg/L			06/14/18 06:15	5
Nitrate as N	0.39	J	0.55	0.28	mg/L			06/14/18 06:15	5
Chloride	350		100	50	mg/L			06/14/18 06:34	200
Fluoride	1.7	J	2.5	1.3	mg/L			06/14/18 06:15	5
Sulfate	1400		100	50	mg/L			06/14/18 06:34	200

### Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	33		0.50	0.25	mg/L		06/21/18 09:43	06/23/18 12:23	1
Manganese	4.2		0.020	0.015	mg/L		06/21/18 09:43	06/23/18 12:23	1
Magnesium	190		0.020	0.010	mg/L		06/21/18 09:43	06/23/18 12:23	1
Iron	56		0.10	0.050	mg/L		06/21/18 09:43	06/23/18 12:23	1
Sodium	430	B	0.50	0.26	mg/L		06/21/18 09:43	06/23/18 14:06	1
Calcium	390	B	0.10	0.050	mg/L		06/21/18 09:43	06/23/18 12:23	1
Boron	1.7		0.050	0.025	mg/L		06/21/18 09:43	06/23/18 12:23	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	190		20	10	mg/L			06/21/18 13:56	1
Total Dissolved Solids	3900		50	25	mg/L			06/20/18 14:57	1
Ammonia (as N)	12		2.5	0.50	mg/L		06/26/18 04:00	06/26/18 06:00	1
Total Sulfide	ND		0.050	0.027	mg/L			06/19/18 12:40	1
Total Organic Carbon	13		0.10	0.050	mg/L			06/14/18 16:31	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	1000		4.0	4.0	mg/L			06/14/18 07:02	1
Bicarbonate Alkalinity as CaCO3	1000		4.0	4.0	mg/L			06/14/18 07:02	1
Carbon Dioxide, Free	160		2.0	2.0	mg/L			06/21/18 12:04	1

## Client Sample ID: QCAB

## Lab Sample ID: 440-213518-8

Date Collected: 06/13/18 00:01

Matrix: Water

Date Received: 06/13/18 17:13

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			06/22/18 14:57	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 14:57	1
Acrolein	ND		50	2.5	ug/L			06/19/18 21:30	1
Acrylonitrile	ND		50	1.0	ug/L			06/19/18 21:30	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 14:57	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 14:57	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 14:57	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 14:57	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 14:57	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 14:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/22/18 14:57	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/22/18 14:57	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 14:57	1

TestAmerica Irvine

# Client Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

**Client Sample ID: QCAB**

**Lab Sample ID: 440-213518-8**

**Date Collected: 06/13/18 00:01**

**Matrix: Water**

**Date Received: 06/13/18 17:13**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 14:57	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 14:57	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 14:57	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 14:57	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 14:57	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/22/18 14:57	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/22/18 14:57	1
2-Hexanone	ND		5.0	2.5	ug/L			06/22/18 14:57	1
Acetone	ND		20	10	ug/L			06/22/18 14:57	1
Acetonitrile	ND		20	10	ug/L			06/22/18 14:57	1
Acrolein	ND		5.0	2.5	ug/L			06/22/18 14:57	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/22/18 14:57	1
Benzene	ND		0.50	0.25	ug/L			06/22/18 14:57	1
Allyl chloride	ND		1.0	0.50	ug/L			06/22/18 14:57	1
Bromoform	ND		1.0	0.40	ug/L			06/22/18 14:57	1
Bromomethane	ND		0.50	0.25	ug/L			06/22/18 14:57	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/22/18 14:57	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/22/18 14:57	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/22/18 14:57	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/22/18 14:57	1
Chloroethane	ND		1.0	0.40	ug/L			06/22/18 14:57	1
Chloroform	ND		0.50	0.25	ug/L			06/22/18 14:57	1
Chloromethane	ND		0.50	0.25	ug/L			06/22/18 14:57	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 14:57	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 14:57	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/22/18 14:57	1
Dibromomethane	ND		0.50	0.25	ug/L			06/22/18 14:57	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/22/18 14:57	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/22/18 14:57	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 14:57	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/22/18 14:57	1
Iodomethane	ND		2.0	1.0	ug/L			06/22/18 14:57	1
Isobutyl alcohol	ND		25	13	ug/L			06/22/18 14:57	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/22/18 14:57	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/22/18 14:57	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 14:57	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/22/18 14:57	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/22/18 14:57	1
Naphthalene	ND		1.0	0.40	ug/L			06/22/18 14:57	1
o-Xylene	ND		0.50	0.25	ug/L			06/22/18 14:57	1
Propionitrile	ND		20	10	ug/L			06/22/18 14:57	1
Styrene	ND		0.50	0.25	ug/L			06/22/18 14:57	1
t-Butanol	ND		10	5.0	ug/L			06/22/18 14:57	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/22/18 14:57	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/22/18 14:57	1
Toluene	ND		0.50	0.25	ug/L			06/22/18 14:57	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 14:57	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 14:57	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/22/18 14:57	1

TestAmerica Irvine

# Client Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

**Client Sample ID: QCAB**  
**Date Collected: 06/13/18 00:01**  
**Date Received: 06/13/18 17:13**

**Lab Sample ID: 440-213518-8**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.50	0.25	ug/L			06/22/18 14:57	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/22/18 14:57	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/22/18 14:57	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/22/18 14:57	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/22/18 14:57	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/22/18 14:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/22/18 14:57	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	2.8	T J	ug/L		3.30			06/22/18 14:57	1
Unknown	11	T J	ug/L		7.25			06/22/18 14:57	1
Unknown	21	T J	ug/L		17.55			06/22/18 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 128		06/19/18 21:30	1
4-Bromofluorobenzene (Surr)	96		80 - 120		06/19/18 21:30	1
Toluene-d8 (Surr)	103		80 - 128		06/22/18 14:57	1
4-Bromofluorobenzene (Surr)	98		80 - 120		06/22/18 14:57	1
Dibromofluoromethane (Surr)	99		76 - 132		06/19/18 21:30	1
Dibromofluoromethane (Surr)	103		76 - 132		06/22/18 14:57	1

**Client Sample ID: QCTB**  
**Date Collected: 06/13/18 00:01**  
**Date Received: 06/13/18 17:13**

**Lab Sample ID: 440-213518-9**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			06/22/18 15:23	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 15:23	1
Acrolein	ND		50	2.5	ug/L			06/19/18 21:58	1
Acrylonitrile	ND		50	1.0	ug/L			06/19/18 21:58	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 15:23	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 15:23	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 15:23	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 15:23	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 15:23	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 15:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/22/18 15:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/22/18 15:23	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 15:23	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 15:23	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 15:23	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 15:23	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 15:23	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 15:23	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/22/18 15:23	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/22/18 15:23	1
2-Hexanone	ND		5.0	2.5	ug/L			06/22/18 15:23	1
Acetone	ND		20	10	ug/L			06/22/18 15:23	1
Acetonitrile	ND		20	10	ug/L			06/22/18 15:23	1

TestAmerica Irvine

# Client Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

**Client Sample ID: QCTB**

**Lab Sample ID: 440-213518-9**

Date Collected: 06/13/18 00:01

Matrix: Water

Date Received: 06/13/18 17:13

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		5.0	2.5	ug/L			06/22/18 15:23	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/22/18 15:23	1
Benzene	ND		0.50	0.25	ug/L			06/22/18 15:23	1
Allyl chloride	ND		1.0	0.50	ug/L			06/22/18 15:23	1
Bromoform	ND		1.0	0.40	ug/L			06/22/18 15:23	1
Bromomethane	ND		0.50	0.25	ug/L			06/22/18 15:23	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/22/18 15:23	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/22/18 15:23	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/22/18 15:23	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/22/18 15:23	1
Chloroethane	ND		1.0	0.40	ug/L			06/22/18 15:23	1
Chloroform	ND		0.50	0.25	ug/L			06/22/18 15:23	1
Chloromethane	ND		0.50	0.25	ug/L			06/22/18 15:23	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 15:23	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 15:23	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/22/18 15:23	1
Dibromomethane	ND		0.50	0.25	ug/L			06/22/18 15:23	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/22/18 15:23	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/22/18 15:23	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 15:23	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/22/18 15:23	1
Iodomethane	ND		2.0	1.0	ug/L			06/22/18 15:23	1
Isobutyl alcohol	ND		25	13	ug/L			06/22/18 15:23	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/22/18 15:23	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/22/18 15:23	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 15:23	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/22/18 15:23	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/22/18 15:23	1
Naphthalene	ND		1.0	0.40	ug/L			06/22/18 15:23	1
o-Xylene	ND		0.50	0.25	ug/L			06/22/18 15:23	1
Propionitrile	ND		20	10	ug/L			06/22/18 15:23	1
Styrene	ND		0.50	0.25	ug/L			06/22/18 15:23	1
t-Butanol	ND		10	5.0	ug/L			06/22/18 15:23	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/22/18 15:23	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/22/18 15:23	1
Toluene	ND		0.50	0.25	ug/L			06/22/18 15:23	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 15:23	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 15:23	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/22/18 15:23	1
Trichloroethene	ND		0.50	0.25	ug/L			06/22/18 15:23	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/22/18 15:23	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/22/18 15:23	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/22/18 15:23	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/22/18 15:23	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/22/18 15:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/22/18 15:23	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	4.4	TJ	ug/L		3.31			06/22/18 15:23	1
Unknown	11	TJ	ug/L		7.26			06/22/18 15:23	1

TestAmerica Irvine

# Client Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

**Client Sample ID: QCTB**

**Lab Sample ID: 440-213518-9**

Date Collected: 06/13/18 00:01

Matrix: Water

Date Received: 06/13/18 17:13

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Unknown	21	TJ	ug/L		16.21			06/22/18 15:23	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Toluene-d8 (Surr)	106		80 - 128					06/19/18 21:58	1
4-Bromofluorobenzene (Surr)	95		80 - 120					06/19/18 21:58	1
Toluene-d8 (Surr)	105		80 - 128					06/22/18 15:23	1
4-Bromofluorobenzene (Surr)	96		80 - 120					06/22/18 15:23	1
Dibromofluoromethane (Surr)	97		76 - 132					06/19/18 21:58	1
Dibromofluoromethane (Surr)	104		76 - 132					06/22/18 15:23	1



# Method Summary

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL IRV
300.0	Anions, Ion Chromatography	MCAWW	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
410.4	COD	MCAWW	TAL IRV
SM 2320B	Alkalinity	SM	TAL IRV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
SM 4500 CO2 C	Free Carbon Dioxide	SM	TAL IRV
SM 4500 NH3 D	Ammonia	SM	TAL IRV
SM 4500 S2 D	Sulfide, Total	SM	TAL IRV
SM 5310C	TOC	SM	TAL IRV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
SM 4500 NH3 B	Distillation, Ammonia	SM	TAL IRV

#### Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

# Lab Chronicle

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Client Sample ID: DW-1

Date Collected: 06/13/18 10:15

Date Received: 06/13/18 17:13

## Lab Sample ID: 440-213518-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	483613	06/22/18 10:33	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	482498	06/16/18 16:04	WK	TAL IRV
Total/NA	Prep	3520C			1015 mL	1.0 mL	482875	06/19/18 09:09	JS1	TAL IRV
Total/NA	Analysis	8270C		1			483345	06/21/18 09:17	ANW	TAL IRV
Total/NA	Analysis	300.0		2			481846	06/14/18 01:17	NN	TAL IRV
Total/NA	Analysis	300.0		2			481847	06/14/18 01:17	NN	TAL IRV
Total/NA	Analysis	300.0		100			481847	06/14/18 01:36	NN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	483392	06/21/18 09:43	MN1	TAL IRV
Total Recoverable	Analysis	6010B		5			483901	06/23/18 13:15	P1R	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	483392	06/21/18 09:43	MN1	TAL IRV
Total Recoverable	Analysis	6010B		1			483904	06/23/18 11:35	P1R	TAL IRV
Total/NA	Analysis	410.4		1	2.5 mL	2.5 mL	483463	06/21/18 13:55	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			482100	06/14/18 05:29	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	483125	06/20/18 14:57	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	483440	06/21/18 11:48	KYP	TAL IRV
Total/NA	Prep	SM 4500 NH3 B			50 mL	50 mL	482564	06/18/18 04:00	YZ	TAL IRV
Total/NA	Analysis	SM 4500 NH3 D		1			482583	06/18/18 07:00	YZ	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	482933	06/19/18 12:39	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	482280	06/14/18 14:37	YZ	TAL IRV

## Client Sample ID: DW-2

Date Collected: 06/13/18 11:54

Date Received: 06/13/18 17:13

## Lab Sample ID: 440-213518-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	483613	06/22/18 12:19	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	482498	06/16/18 16:28	WK	TAL IRV
Total/NA	Prep	3520C			1025 mL	1.0 mL	482875	06/19/18 09:09	JS1	TAL IRV
Total/NA	Analysis	8270C		1			483345	06/21/18 09:40	ANW	TAL IRV
Total/NA	Analysis	300.0		1			481846	06/14/18 01:55	NN	TAL IRV
Total/NA	Analysis	300.0	DL	1			481847	06/14/18 01:55	NN	TAL IRV
Total/NA	Analysis	300.0		50			481847	06/14/18 02:50	NN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	483392	06/21/18 09:43	MN1	TAL IRV
Total Recoverable	Analysis	6010B		1			483901	06/23/18 13:28	P1R	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	483392	06/21/18 09:43	MN1	TAL IRV
Total Recoverable	Analysis	6010B		1			483904	06/23/18 11:47	P1R	TAL IRV
Total/NA	Analysis	410.4		1	2.5 mL	2.5 mL	483463	06/21/18 13:55	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			482100	06/14/18 05:50	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	483125	06/20/18 14:57	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	483440	06/21/18 11:48	KYP	TAL IRV
Total/NA	Prep	SM 4500 NH3 B			50 mL	50 mL	482564	06/18/18 04:00	YZ	TAL IRV

TestAmerica Irvine

# Lab Chronicle

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Client Sample ID: DW-2

Date Collected: 06/13/18 11:54

Date Received: 06/13/18 17:13

## Lab Sample ID: 440-213518-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NH3 D		1			482583	06/18/18 07:00	YZ	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	482933	06/19/18 12:39	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	482280	06/14/18 14:48	YZ	TAL IRV

## Client Sample ID: DW-3

Date Collected: 06/13/18 13:15

Date Received: 06/13/18 17:13

## Lab Sample ID: 440-213518-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	483613	06/22/18 12:45	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	482498	06/16/18 16:51	WK	TAL IRV
Total/NA	Prep	3520C			1010 mL	1.0 mL	482875	06/19/18 09:09	JS1	TAL IRV
Total/NA	Analysis	8270C		1			483345	06/21/18 10:02	ANW	TAL IRV
Total/NA	Analysis	300.0		1			481846	06/14/18 03:46	NN	TAL IRV
Total/NA	Analysis	300.0		1			481847	06/14/18 03:46	NN	TAL IRV
Total/NA	Analysis	300.0		50			481847	06/14/18 04:05	NN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	483392	06/21/18 09:43	MN1	TAL IRV
Total Recoverable	Analysis	6010B		1			483901	06/23/18 13:30	P1R	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	483392	06/21/18 09:43	MN1	TAL IRV
Total Recoverable	Analysis	6010B		1			483904	06/23/18 11:50	P1R	TAL IRV
Total/NA	Analysis	410.4		1	2.5 mL	2.5 mL	483463	06/21/18 13:55	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			482100	06/14/18 05:57	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	483125	06/20/18 14:57	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	483440	06/21/18 11:48	KYP	TAL IRV
Total/NA	Prep	SM 4500 NH3 B			50 mL	50 mL	482564	06/18/18 04:00	YZ	TAL IRV
Total/NA	Analysis	SM 4500 NH3 D		1			482583	06/18/18 07:00	YZ	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	482933	06/19/18 12:39	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	482361	06/15/18 08:02	YZ	TAL IRV

## Client Sample ID: DW-5

Date Collected: 06/13/18 09:38

Date Received: 06/13/18 17:13

## Lab Sample ID: 440-213518-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	483613	06/22/18 13:12	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	482990	06/19/18 18:45	WK	TAL IRV
Total/NA	Prep	3520C			1010 mL	1.0 mL	482875	06/19/18 09:09	JS1	TAL IRV
Total/NA	Analysis	8270C		1			483345	06/21/18 10:26	ANW	TAL IRV
Total/NA	Analysis	300.0		1			481846	06/14/18 04:23	NN	TAL IRV
Total/NA	Analysis	300.0		1			481847	06/14/18 04:23	NN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	483392	06/21/18 09:43	MN1	TAL IRV

TestAmerica Irvine

# Lab Chronicle

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

**Client Sample ID: DW-5**

Date Collected: 06/13/18 09:38

Date Received: 06/13/18 17:13

**Lab Sample ID: 440-213518-4**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6010B		1			483901	06/23/18 13:32	P1R	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	483392	06/21/18 09:43	MN1	TAL IRV
Total Recoverable	Analysis	6010B		1			483904	06/23/18 11:52	P1R	TAL IRV
Total/NA	Analysis	410.4		1	2.5 mL	2.5 mL	483463	06/21/18 13:56	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			482100	06/14/18 06:14	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	483125	06/20/18 14:57	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	483440	06/21/18 11:48	KYP	TAL IRV
Total/NA	Prep	SM 4500 NH3 B			50 mL	50 mL	484187	06/26/18 04:00	YZ	TAL IRV
Total/NA	Analysis	SM 4500 NH3 D		1			484212	06/26/18 06:00	YZ	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	482933	06/19/18 12:39	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	482280	06/14/18 15:16	YZ	TAL IRV

**Client Sample ID: MW-1**

Date Collected: 06/13/18 10:25

Date Received: 06/13/18 17:13

**Lab Sample ID: 440-213518-5**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	483613	06/22/18 13:38	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	482990	06/19/18 20:08	WK	TAL IRV
Total/NA	Prep	3520C			1020 mL	1.0 mL	482875	06/19/18 09:09	JS1	TAL IRV
Total/NA	Analysis	8270C		1			483345	06/21/18 10:49	ANW	TAL IRV
Total/NA	Analysis	300.0		2			481846	06/14/18 05:01	NN	TAL IRV
Total/NA	Analysis	300.0		2			481847	06/14/18 05:01	NN	TAL IRV
Total/NA	Analysis	300.0		100			481847	06/14/18 05:19	NN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	483392	06/21/18 09:43	MN1	TAL IRV
Total Recoverable	Analysis	6010B		1			483901	06/23/18 13:35	P1R	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	483392	06/21/18 09:43	MN1	TAL IRV
Total Recoverable	Analysis	6010B		1			483904	06/23/18 11:55	P1R	TAL IRV
Total/NA	Analysis	410.4		1	2.5 mL	2.5 mL	483463	06/21/18 13:56	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			482100	06/14/18 06:27	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	483125	06/20/18 14:57	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	483440	06/21/18 11:48	KYP	TAL IRV
Total/NA	Prep	SM 4500 NH3 B			50 mL	50 mL	484187	06/26/18 04:00	YZ	TAL IRV
Total/NA	Analysis	SM 4500 NH3 D		1			484212	06/26/18 06:00	YZ	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	482933	06/19/18 12:40	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	482280	06/14/18 15:58	YZ	TAL IRV

# Lab Chronicle

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Client Sample ID: MW-9

Date Collected: 06/13/18 08:15

Date Received: 06/13/18 17:13

## Lab Sample ID: 440-213518-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	483613	06/22/18 14:05	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	482990	06/19/18 20:35	WK	TAL IRV
Total/NA	Prep	3520C			975 mL	1.0 mL	482875	06/19/18 09:09	JS1	TAL IRV
Total/NA	Analysis	8270C		1			483345	06/21/18 11:12	ANW	TAL IRV
Total/NA	Analysis	300.0		5	5 mL	1.0 mL	481846	06/14/18 05:38	NN	TAL IRV
Total/NA	Analysis	300.0		5	5 mL	1.0 mL	481847	06/14/18 05:38	NN	TAL IRV
Total/NA	Analysis	300.0		200			481847	06/14/18 05:56	NN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	483392	06/21/18 09:43	MN1	TAL IRV
Total Recoverable	Analysis	6010B		1			483901	06/23/18 13:37	P1R	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	483392	06/21/18 09:43	MN1	TAL IRV
Total Recoverable	Analysis	6010B		1			483904	06/23/18 11:57	P1R	TAL IRV
Total/NA	Analysis	410.4		1	2.5 mL	2.5 mL	483463	06/21/18 13:56	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			482100	06/14/18 06:44	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	483125	06/20/18 14:57	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	483440	06/21/18 11:48	KYP	TAL IRV
Total/NA	Prep	SM 4500 NH3 B			10 mL	50 mL	484187	06/26/18 04:00	YZ	TAL IRV
Total/NA	Analysis	SM 4500 NH3 D		1			484212	06/26/18 06:00	YZ	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	482933	06/19/18 12:40	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	482280	06/14/18 16:15	YZ	TAL IRV

## Client Sample ID: Extraction Trench

Date Collected: 06/13/18 11:20

Date Received: 06/13/18 17:13

## Lab Sample ID: 440-213518-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	483613	06/22/18 14:31	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	482990	06/19/18 21:03	WK	TAL IRV
Total/NA	Prep	3520C			1015 mL	1.0 mL	482875	06/19/18 09:09	JS1	TAL IRV
Total/NA	Analysis	8270C		1			483345	06/21/18 11:35	ANW	TAL IRV
Total/NA	Analysis	300.0		5	5 mL	1.0 mL	481846	06/14/18 06:15	NN	TAL IRV
Total/NA	Analysis	300.0		5	5 mL	1.0 mL	481847	06/14/18 06:15	NN	TAL IRV
Total/NA	Analysis	300.0		200			481847	06/14/18 06:34	NN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	483392	06/21/18 09:43	MN1	TAL IRV
Total Recoverable	Analysis	6010B		1			483901	06/23/18 14:06	P1R	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	483392	06/21/18 09:43	MN1	TAL IRV
Total Recoverable	Analysis	6010B		1			483904	06/23/18 12:23	P1R	TAL IRV
Total/NA	Analysis	410.4		1	2.5 mL	2.5 mL	483463	06/21/18 13:56	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			482100	06/14/18 07:02	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	483125	06/20/18 14:57	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	483440	06/21/18 12:04	KYP	TAL IRV
Total/NA	Prep	SM 4500 NH3 B			10 mL	50 mL	484187	06/26/18 04:00	YZ	TAL IRV

TestAmerica Irvine

# Lab Chronicle

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Client Sample ID: Extraction Trench

Lab Sample ID: 440-213518-7

Date Collected: 06/13/18 11:20

Matrix: Water

Date Received: 06/13/18 17:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NH3 D		1			484212	06/26/18 06:00	YZ	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	482933	06/19/18 12:40	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	482280	06/14/18 16:31	YZ	TAL IRV

## Client Sample ID: QCAB

Lab Sample ID: 440-213518-8

Date Collected: 06/13/18 00:01

Matrix: Water

Date Received: 06/13/18 17:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	483613	06/22/18 14:57	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	482990	06/19/18 21:30	WK	TAL IRV

## Client Sample ID: QCTB

Lab Sample ID: 440-213518-9

Date Collected: 06/13/18 00:01

Matrix: Water

Date Received: 06/13/18 17:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	483613	06/22/18 15:23	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	482990	06/19/18 21:58	WK	TAL IRV

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

# QC Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 440-482498/4**

**Matrix: Water**

**Analysis Batch: 482498**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		50	2.5	ug/L			06/16/18 09:09	1
Acrylonitrile	ND		50	1.0	ug/L			06/16/18 09:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	113		80 - 128		06/16/18 09:09	1
4-Bromofluorobenzene (Surr)	102		80 - 120		06/16/18 09:09	1
Dibromofluoromethane (Surr)	114		76 - 132		06/16/18 09:09	1

**Lab Sample ID: LCS 440-482498/5**

**Matrix: Water**

**Analysis Batch: 482498**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acrolein	25.0	19.3	J	ug/L		77	10 - 145
Acrylonitrile	250	263		ug/L		105	48 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	106		80 - 128
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	114		76 - 132

**Lab Sample ID: 440-213075-A-8 MS**

**Matrix: Water**

**Analysis Batch: 482498**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acrolein	ND		250	209	J	ug/L		84	10 - 147
Acrylonitrile	ND		2500	2630		ug/L		105	38 - 144

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	110		80 - 128
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	113		76 - 132

**Lab Sample ID: 440-213075-A-8 MSD**

**Matrix: Water**

**Analysis Batch: 482498**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acrolein	ND		250	218	J	ug/L		87	10 - 147	4	40
Acrylonitrile	ND		2500	2570		ug/L		103	38 - 144	2	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	109		80 - 128
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	111		76 - 132

TestAmerica Irvine

# QC Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 440-482990/4**

**Matrix: Water**

**Analysis Batch: 482990**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		50	2.5	ug/L			06/19/18 17:50	1
Acrylonitrile	ND		50	1.0	ug/L			06/19/18 17:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		80 - 128		06/19/18 17:50	1
4-Bromofluorobenzene (Surr)	95		80 - 120		06/19/18 17:50	1
Dibromofluoromethane (Surr)	98		76 - 132		06/19/18 17:50	1

**Lab Sample ID: LCS 440-482990/5**

**Matrix: Water**

**Analysis Batch: 482990**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acrolein	25.0	23.3	J	ug/L		93	10 - 145
Acrylonitrile	250	313		ug/L		125	48 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	101		80 - 128
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	99		76 - 132

**Lab Sample ID: 440-213518-4 MS**

**Matrix: Water**

**Analysis Batch: 482990**

**Client Sample ID: DW-5**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acrolein	ND		25.0	18.3	J	ug/L		73	10 - 147
Acrylonitrile	ND		250	279		ug/L		112	38 - 144

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	100		80 - 128
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	101		76 - 132

**Lab Sample ID: 440-213518-4 MSD**

**Matrix: Water**

**Analysis Batch: 482990**

**Client Sample ID: DW-5**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acrolein	ND		25.0	19.0	J	ug/L		76	10 - 147	4	40
Acrylonitrile	ND		250	291		ug/L		116	38 - 144	4	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	100		80 - 128
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	99		76 - 132

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# QC Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 440-483613/4**

**Matrix: Water**

**Analysis Batch: 483613**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			06/22/18 08:57	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/22/18 08:57	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/22/18 08:57	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/22/18 08:57	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/22/18 08:57	1
2-Hexanone	ND		5.0	2.5	ug/L			06/22/18 08:57	1
Acetone	ND		20	10	ug/L			06/22/18 08:57	1
Acetonitrile	ND		20	10	ug/L			06/22/18 08:57	1
Acrolein	ND		5.0	2.5	ug/L			06/22/18 08:57	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/22/18 08:57	1
Benzene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Allyl chloride	ND		1.0	0.50	ug/L			06/22/18 08:57	1
Bromoform	ND		1.0	0.40	ug/L			06/22/18 08:57	1
Bromomethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/22/18 08:57	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Chloroethane	ND		1.0	0.40	ug/L			06/22/18 08:57	1
Chloroform	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Chloromethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Dibromomethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/22/18 08:57	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 08:57	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Iodomethane	ND		2.0	1.0	ug/L			06/22/18 08:57	1
Isobutyl alcohol	ND		25	13	ug/L			06/22/18 08:57	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/22/18 08:57	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/22/18 08:57	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 08:57	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/22/18 08:57	1

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# QC Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 440-483613/4**

**Matrix: Water**

**Analysis Batch: 483613**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Naphthalene	ND		1.0	0.40	ug/L			06/22/18 08:57	1
o-Xylene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Propionitrile	ND		20	10	ug/L			06/22/18 08:57	1
Styrene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
t-Butanol	ND		10	5.0	ug/L			06/22/18 08:57	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/22/18 08:57	1
Toluene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/22/18 08:57	1
Trichloroethene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/22/18 08:57	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/22/18 08:57	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/22/18 08:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/22/18 08:57	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Unknown	5.28	T J	ug/L		15.72			06/22/18 08:57	1
Unknown	10.8	T J	ug/L		17.47			06/22/18 08:57	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	104		80 - 128		06/22/18 08:57	1
4-Bromofluorobenzene (Surr)	97		80 - 120		06/22/18 08:57	1
Dibromofluoromethane (Surr)	103		76 - 132		06/22/18 08:57	1

**Lab Sample ID: LCS 440-483613/5**

**Matrix: Water**

**Analysis Batch: 483613**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	25.0	26.5		ug/L		106	60 - 141
1,1,1-Trichloroethane	25.0	26.4		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.7		ug/L		95	63 - 130
1,1,2-Trichloroethane	25.0	25.6		ug/L		102	70 - 130
1,1-Dichloroethane	25.0	25.6		ug/L		102	64 - 130
1,1-Dichloroethene	25.0	25.1		ug/L		100	70 - 130
1,1-Dichloropropene	25.0	25.6		ug/L		102	70 - 130
1,2,4-Trichlorobenzene	25.0	28.3		ug/L		113	60 - 140
1,2-Dibromo-3-Chloropropane	25.0	23.8		ug/L		95	52 - 140
1,2-Dichlorobenzene	25.0	27.3		ug/L		109	70 - 130
1,2-Dichloroethane	25.0	26.4		ug/L		106	57 - 138
1,2-Dichloropropane	25.0	25.2		ug/L		101	67 - 130

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# QC Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 440-483613/5**

**Matrix: Water**

**Analysis Batch: 483613**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	25.0	26.6		ug/L		107	70 - 130
1,3-Dichloropropane	25.0	24.3		ug/L		97	70 - 130
1,4-Dichlorobenzene	25.0	26.6		ug/L		107	70 - 130
2,2-Dichloropropane	25.0	27.0		ug/L		108	68 - 141
2-Hexanone	25.0	26.6		ug/L		106	10 - 150
Acetone	25.0	26.0		ug/L		104	10 - 150
Acetonitrile	250	245		ug/L		98	49 - 142
Acrolein	25.0	14.5		ug/L		58	10 - 145
Benzene	25.0	25.7		ug/L		103	68 - 130
Bromoform	25.0	27.7		ug/L		111	60 - 148
Bromomethane	25.0	24.4		ug/L		97	64 - 139
Carbon disulfide	25.0	24.8		ug/L		99	52 - 136
Carbon tetrachloride	25.0	27.2		ug/L		109	60 - 150
Chlorobenzene	25.0	25.7		ug/L		103	70 - 130
Bromochloromethane	25.0	26.7		ug/L		107	70 - 130
Chloroethane	25.0	23.8		ug/L		95	64 - 135
Chloroform	25.0	26.1		ug/L		104	70 - 130
Chloromethane	25.0	23.9		ug/L		96	47 - 140
cis-1,2-Dichloroethene	25.0	26.5		ug/L		106	70 - 133
cis-1,3-Dichloropropene	25.0	26.4		ug/L		106	70 - 133
Dibromochloromethane	25.0	26.8		ug/L		107	69 - 145
Dibromomethane	25.0	25.7		ug/L		103	70 - 130
Bromodichloromethane	25.0	25.9		ug/L		103	70 - 132
Dichlorodifluoromethane	25.0	21.1		ug/L		84	29 - 150
Ethylbenzene	25.0	26.3		ug/L		105	70 - 130
m,p-Xylene	25.0	25.5		ug/L		102	70 - 130
Methylene Chloride	25.0	23.0		ug/L		92	52 - 130
Methyl tert-butyl ether	25.0	25.3		ug/L		101	63 - 131
Naphthalene	25.0	27.1		ug/L		109	60 - 140
o-Xylene	25.0	25.5		ug/L		102	70 - 130
Styrene	25.0	25.7		ug/L		103	70 - 134
t-Butanol	250	275		ug/L		110	70 - 130
Tetrachloroethene	25.0	26.8		ug/L		107	70 - 130
Toluene	25.0	26.3		ug/L		105	70 - 130
trans-1,2-Dichloroethene	25.0	26.3		ug/L		105	70 - 130
trans-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 132
Trichloroethene	25.0	26.1		ug/L		104	70 - 130
Trichlorofluoromethane	25.0	25.0		ug/L		100	60 - 150
Vinyl acetate	25.0	25.0		ug/L		100	48 - 140
Vinyl chloride	25.0	21.8		ug/L		87	59 - 133
1,2-Dibromoethane (EDB)	25.0	25.4		ug/L		102	70 - 130
2-Butanone (MEK)	25.0	22.7		ug/L		91	44 - 150
4-Methyl-2-pentanone (MIBK)	25.0	25.7		ug/L		103	59 - 149

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	100		80 - 128
4-Bromofluorobenzene (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	103		76 - 132

TestAmerica Irvine

# QC Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

**Lab Sample ID: 440-213518-1 MS**

**Matrix: Water**

**Analysis Batch: 483613**

**Client Sample ID: DW-1**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2,3-Trichloropropane	ND		25.0	25.2		ug/L		101	60 - 130
1,1,1,2-Tetrachloroethane	ND		25.0	26.3		ug/L		105	60 - 149
1,1,1-Trichloroethane	ND		25.0	26.2		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	ND		25.0	23.3		ug/L		93	63 - 130
1,1,2-Trichloroethane	ND		25.0	24.8		ug/L		99	70 - 130
1,1-Dichloroethane	ND		25.0	24.8		ug/L		99	65 - 130
1,1-Dichloroethene	ND		25.0	24.1		ug/L		96	70 - 130
1,1-Dichloropropene	ND		25.0	25.2		ug/L		101	64 - 130
1,2,4-Trichlorobenzene	ND		25.0	28.1		ug/L		112	60 - 140
1,2-Dibromo-3-Chloropropane	ND		25.0	23.6		ug/L		95	48 - 140
1,2-Dichlorobenzene	ND		25.0	26.1		ug/L		104	70 - 130
1,2-Dichloroethane	ND		25.0	26.0		ug/L		104	56 - 146
1,2-Dichloropropane	ND		25.0	24.4		ug/L		98	69 - 130
1,3-Dichlorobenzene	ND		25.0	25.2		ug/L		101	70 - 130
1,3-Dichloropropane	ND		25.0	24.4		ug/L		97	70 - 130
1,4-Dichlorobenzene	ND		25.0	25.3		ug/L		101	70 - 130
2,2-Dichloropropane	ND		25.0	26.0		ug/L		104	69 - 138
2-Hexanone	ND		25.0	26.9		ug/L		108	10 - 150
Acetone	ND		25.0	24.7		ug/L		99	10 - 150
Acetonitrile	ND		250	256		ug/L		102	37 - 140
Acrolein	ND		25.0	15.1		ug/L		60	10 - 147
Benzene	ND		25.0	25.2		ug/L		101	66 - 130
Bromoform	ND		25.0	27.7		ug/L		111	59 - 150
Bromomethane	ND		25.0	23.8		ug/L		95	62 - 131
Carbon disulfide	ND		25.0	23.3		ug/L		93	49 - 140
Carbon tetrachloride	ND		25.0	26.4		ug/L		106	60 - 150
Chlorobenzene	ND		25.0	25.6		ug/L		102	70 - 130
Bromochloromethane	ND		25.0	26.3		ug/L		105	70 - 130
Chloroethane	ND		25.0	23.2		ug/L		93	68 - 130
Chloroform	ND		25.0	25.9		ug/L		103	70 - 130
Chloromethane	ND		25.0	22.7		ug/L		91	39 - 144
cis-1,2-Dichloroethene	ND		25.0	25.5		ug/L		102	70 - 130
cis-1,3-Dichloropropene	ND		25.0	25.7		ug/L		103	70 - 133
Dibromochloromethane	ND		25.0	26.0		ug/L		104	70 - 148
Dibromomethane	ND		25.0	25.2		ug/L		101	70 - 130
Bromodichloromethane	ND		25.0	25.9		ug/L		104	70 - 138
Dichlorodifluoromethane	ND		25.0	20.6		ug/L		82	25 - 142
Ethylbenzene	ND		25.0	25.6		ug/L		102	70 - 130
m,p-Xylene	ND		25.0	24.6		ug/L		98	70 - 133
Methylene Chloride	ND		25.0	22.8		ug/L		91	52 - 130
Methyl tert-butyl ether	ND		25.0	25.9		ug/L		104	70 - 130
Naphthalene	ND		25.0	26.6		ug/L		106	60 - 140
o-Xylene	ND		25.0	24.7		ug/L		99	70 - 133
Styrene	ND		25.0	25.6		ug/L		102	29 - 150
t-Butanol	ND		250	266		ug/L		106	70 - 130
Tetrachloroethene	ND		25.0	26.0		ug/L		104	70 - 137
Toluene	ND		25.0	25.9		ug/L		104	70 - 130
trans-1,2-Dichloroethene	ND		25.0	25.8		ug/L		103	70 - 130
trans-1,3-Dichloropropene	ND		25.0	25.4		ug/L		102	70 - 138
Trichloroethene	ND		25.0	25.2		ug/L		101	70 - 130

TestAmerica Irvine

# QC Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 440-213518-1 MS**

**Matrix: Water**

**Analysis Batch: 483613**

**Client Sample ID: DW-1**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	ND		25.0	24.7		ug/L		99	60 - 150
Vinyl acetate	ND		25.0	24.8		ug/L		99	23 - 150
Vinyl chloride	ND		25.0	21.3		ug/L		85	50 - 137
1,2-Dibromoethane (EDB)	ND		25.0	25.9		ug/L		104	70 - 131
2-Butanone (MEK)	ND		25.0	24.1		ug/L		97	48 - 140
4-Methyl-2-pentanone (MIBK)	ND		25.0	26.7		ug/L		107	52 - 150

Surrogate	MS %Recovery	MS Qualifier	MS Limits
Toluene-d8 (Surr)	101		80 - 128
4-Bromofluorobenzene (Surr)	92		80 - 120
Dibromofluoromethane (Surr)	104		76 - 132

**Lab Sample ID: 440-213518-1 MSD**

**Matrix: Water**

**Analysis Batch: 483613**

**Client Sample ID: DW-1**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		25.0	23.3		ug/L		93	60 - 130	8	30
1,1,1,2-Tetrachloroethane	ND		25.0	26.1		ug/L		105	60 - 149	1	20
1,1,1-Trichloroethane	ND		25.0	25.8		ug/L		103	70 - 130	2	20
1,1,2,2-Tetrachloroethane	ND		25.0	21.9		ug/L		88	63 - 130	6	30
1,1,2-Trichloroethane	ND		25.0	24.6		ug/L		98	70 - 130	1	25
1,1-Dichloroethane	ND		25.0	24.7		ug/L		99	65 - 130	1	20
1,1-Dichloroethene	ND		25.0	23.9		ug/L		96	70 - 130	0	20
1,1-Dichloropropene	ND		25.0	25.1		ug/L		101	64 - 130	0	20
1,2,4-Trichlorobenzene	ND		25.0	27.1		ug/L		108	60 - 140	4	20
1,2-Dibromo-3-Chloropropane	ND		25.0	21.6		ug/L		86	48 - 140	9	30
1,2-Dichlorobenzene	ND		25.0	25.0		ug/L		100	70 - 130	4	20
1,2-Dichloroethane	ND		25.0	25.2		ug/L		101	56 - 146	3	20
1,2-Dichloropropane	ND		25.0	24.6		ug/L		98	69 - 130	0	20
1,3-Dichlorobenzene	ND		25.0	24.7		ug/L		99	70 - 130	2	20
1,3-Dichloropropane	ND		25.0	23.7		ug/L		95	70 - 130	3	25
1,4-Dichlorobenzene	ND		25.0	24.6		ug/L		99	70 - 130	3	20
2,2-Dichloropropane	ND		25.0	26.0		ug/L		104	69 - 138	0	25
2-Hexanone	ND		25.0	25.4		ug/L		102	10 - 150	6	35
Acetone	ND		25.0	23.4		ug/L		94	10 - 150	5	35
Acetonitrile	ND		250	235		ug/L		94	37 - 140	8	40
Acrolein	ND		25.0	14.6		ug/L		59	10 - 147	3	40
Benzene	ND		25.0	25.0		ug/L		100	66 - 130	1	20
Bromoform	ND		25.0	26.6		ug/L		106	59 - 150	4	25
Bromomethane	ND		25.0	23.2		ug/L		93	62 - 131	3	25
Carbon disulfide	ND		25.0	23.4		ug/L		94	49 - 140	0	20
Carbon tetrachloride	ND		25.0	26.1		ug/L		104	60 - 150	1	25
Chlorobenzene	ND		25.0	25.0		ug/L		100	70 - 130	2	20
Bromochloromethane	ND		25.0	25.9		ug/L		104	70 - 130	2	25
Chloroethane	ND		25.0	22.8		ug/L		91	68 - 130	2	25
Chloroform	ND		25.0	25.0		ug/L		100	70 - 130	3	20
Chloromethane	ND		25.0	22.0		ug/L		88	39 - 144	3	25

TestAmerica Irvine

# QC Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-213518-1 MSD

Matrix: Water

Analysis Batch: 483613

Client Sample ID: DW-1

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
cis-1,2-Dichloroethene	ND		25.0	25.4		ug/L		102	70 - 130	0	20
cis-1,3-Dichloropropene	ND		25.0	25.1		ug/L		100	70 - 133	2	20
Dibromochloromethane	ND		25.0	25.8		ug/L		103	70 - 148	1	25
Dibromomethane	ND		25.0	24.3		ug/L		97	70 - 130	4	25
Bromodichloromethane	ND		25.0	25.4		ug/L		102	70 - 138	2	20
Dichlorodifluoromethane	ND		25.0	21.1		ug/L		84	25 - 142	2	30
Ethylbenzene	ND		25.0	25.4		ug/L		102	70 - 130	1	20
m,p-Xylene	ND		25.0	24.4		ug/L		98	70 - 133	1	25
Methylene Chloride	ND		25.0	22.3		ug/L		89	52 - 130	2	20
Methyl tert-butyl ether	ND		25.0	25.3		ug/L		101	70 - 130	3	25
Naphthalene	ND		25.0	25.1		ug/L		100	60 - 140	6	30
o-Xylene	ND		25.0	24.0		ug/L		96	70 - 133	3	20
Styrene	ND		25.0	25.0		ug/L		100	29 - 150	2	35
t-Butanol	ND		250	256		ug/L		102	70 - 130	4	25
Tetrachloroethene	ND		25.0	25.8		ug/L		103	70 - 137	1	20
Toluene	ND		25.0	25.8		ug/L		103	70 - 130	1	20
trans-1,2-Dichloroethene	ND		25.0	24.7		ug/L		99	70 - 130	4	20
trans-1,3-Dichloropropene	ND		25.0	25.1		ug/L		101	70 - 138	1	25
Trichloroethene	ND		25.0	25.4		ug/L		102	70 - 130	1	20
Trichlorofluoromethane	ND		25.0	24.5		ug/L		98	60 - 150	1	25
Vinyl acetate	ND		25.0	24.8		ug/L		99	23 - 150	0	30
Vinyl chloride	ND		25.0	20.9		ug/L		84	50 - 137	2	30
1,2-Dibromoethane (EDB)	ND		25.0	24.8		ug/L		99	70 - 131	4	25
2-Butanone (MEK)	ND		25.0	22.4		ug/L		90	48 - 140	7	40
4-Methyl-2-pentanone (MIBK)	ND		25.0	24.6		ug/L		98	52 - 150	8	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	101		80 - 128
4-Bromofluorobenzene (Surr)	92		80 - 120
Dibromofluoromethane (Surr)	104		76 - 132

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-482875/1-A

Matrix: Water

Analysis Batch: 483345

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 482875

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dioxane	ND		0.99	0.25	ug/L		06/19/18 09:09	06/21/18 08:10	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,4-Dioxane-d8 (Surr)	66		30 - 120	06/19/18 09:09	06/21/18 08:10	1

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# QC Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 440-482875/3-A**

**Matrix: Water**

**Analysis Batch: 483345**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 482875**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1.96	1.43		ug/L		73	35 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	68		30 - 120				

**Lab Sample ID: LCSD 440-482875/4-A**

**Matrix: Water**

**Analysis Batch: 483345**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 482875**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	1.96	1.52		ug/L		77	35 - 120	6	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,4-Dioxane-d8 (Surr)	70		30 - 120						

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 440-481846/42**

**Matrix: Water**

**Analysis Batch: 481846**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.11	0.055	mg/L			06/14/18 00:22	1

**Lab Sample ID: LCS 440-481846/43**

**Matrix: Water**

**Analysis Batch: 481846**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	1.13	1.07		mg/L		95	90 - 110

**Lab Sample ID: 440-213518-2 MS**

**Matrix: Water**

**Analysis Batch: 481846**

**Client Sample ID: DW-2**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	ND		1.13	1.02		mg/L		91	80 - 120

**Lab Sample ID: 440-213518-2 MSD**

**Matrix: Water**

**Analysis Batch: 481846**

**Client Sample ID: DW-2**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	ND		1.13	1.03		mg/L		91	80 - 120	1	20

TestAmerica Irvine

# QC Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 440-481847/42

Matrix: Water

Analysis Batch: 481847

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.50	0.25	mg/L			06/14/18 00:22	1
Chloride	ND		0.50	0.25	mg/L			06/14/18 00:22	1
Fluoride	ND		0.50	0.25	mg/L			06/14/18 00:22	1
Sulfate	ND		0.50	0.25	mg/L			06/14/18 00:22	1

Lab Sample ID: LCS 440-481847/43

Matrix: Water

Analysis Batch: 481847

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	5.00	4.84		mg/L		97	90 - 110
Chloride	5.00	4.67		mg/L		93	90 - 110
Fluoride	5.00	5.03		mg/L		101	90 - 110
Sulfate	5.00	4.88		mg/L		98	90 - 110

## Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 440-213518-2 MS

Matrix: Water

Analysis Batch: 481847

Client Sample ID: DW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide - DL	0.29	J	5.00	4.89		mg/L		92	80 - 120
Chloride - DL	11		5.00	16.1		mg/L		106	80 - 120
Fluoride - DL	0.51		5.00	5.54		mg/L		101	80 - 120
Sulfate - DL	1600	E	5.00	1570	E 4	mg/L		26	80 - 120

Lab Sample ID: 440-213518-2 MSD

Matrix: Water

Analysis Batch: 481847

Client Sample ID: DW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide - DL	0.29	J	5.00	4.85		mg/L		91	80 - 120	1	20
Chloride - DL	11		5.00	16.1		mg/L		106	80 - 120	0	20
Fluoride - DL	0.51		5.00	5.57		mg/L		101	80 - 120	1	20
Sulfate - DL	1600	E	5.00	1570	E 4	mg/L		42	80 - 120	0	20

## Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-483392/1-A

Matrix: Water

Analysis Batch: 483904

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 483392

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		0.50	0.25	mg/L		06/21/18 09:43	06/23/18 11:21	1
Manganese	ND		0.020	0.015	mg/L		06/21/18 09:43	06/23/18 11:21	1
Magnesium	ND		0.020	0.010	mg/L		06/21/18 09:43	06/23/18 11:21	1
Iron	ND		0.10	0.050	mg/L		06/21/18 09:43	06/23/18 11:21	1

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# QC Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: MB 440-483392/1-A**  
**Matrix: Water**  
**Analysis Batch: 483904**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 483392**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sodium	0.366	J	0.50	0.26	mg/L		06/21/18 09:43	06/23/18 11:21	1
Calcium	0.0860	J	0.10	0.050	mg/L		06/21/18 09:43	06/23/18 11:21	1
Boron	ND		0.050	0.025	mg/L		06/21/18 09:43	06/23/18 11:21	1

**Lab Sample ID: MB 440-483392/1-A**  
**Matrix: Water**  
**Analysis Batch: 483901**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 483392**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sodium	1.39		0.50	0.26	mg/L		06/21/18 09:43	06/23/18 12:47	1

**Lab Sample ID: LCS 440-483392/2-A**  
**Matrix: Water**  
**Analysis Batch: 483904**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 483392**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
							Result	Limits
Potassium	10.0	10.1		mg/L		101	80 - 120	
Manganese	1.00	0.992		mg/L		99	80 - 120	
Magnesium	5.00	4.88		mg/L		98	80 - 120	
Iron	1.00	1.01		mg/L		101	80 - 120	
Sodium	10.0	10.4		mg/L		104	80 - 120	
Calcium	5.00	5.07		mg/L		101	80 - 120	
Boron	1.00	0.994		mg/L		99	80 - 120	

**Lab Sample ID: LCS 440-483392/2-A**  
**Matrix: Water**  
**Analysis Batch: 483901**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 483392**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
							Result	Limits
Sodium	10.0	10.7		mg/L		107	80 - 120	

**Lab Sample ID: 440-213518-1 MS**  
**Matrix: Water**  
**Analysis Batch: 483904**

**Client Sample ID: DW-1**  
**Prep Type: Total Recoverable**  
**Prep Batch: 483392**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
									Result	Limits
Potassium	2.5		10.0	12.9		mg/L		105	75 - 125	
Manganese	ND		1.00	0.973		mg/L		97	75 - 125	
Magnesium	1.5		5.00	6.16		mg/L		94	75 - 125	
Iron	ND		1.00	1.06		mg/L		106	75 - 125	
Calcium	2.8	B	5.00	7.62		mg/L		97	75 - 125	
Boron	2.1		1.00	3.11		mg/L		102	75 - 125	

**Lab Sample ID: 440-213518-1 MS**  
**Matrix: Water**  
**Analysis Batch: 483901**

**Client Sample ID: DW-1**  
**Prep Type: Total Recoverable**  
**Prep Batch: 483392**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
									Result	Limits
Sodium	1100	B	10.0	1160	4	mg/L		154	75 - 125	

TestAmerica Irvine

# QC Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-213518-1 MSD

Matrix: Water

Analysis Batch: 483904

Client Sample ID: DW-1

Prep Type: Total Recoverable

Prep Batch: 483392

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Potassium	2.5		10.0	13.0		mg/L		105	75 - 125	0	20
Manganese	ND		1.00	0.966		mg/L		97	75 - 125	1	20
Magnesium	1.5		5.00	6.12		mg/L		93	75 - 125	1	20
Iron	ND		1.00	1.02		mg/L		102	75 - 125	4	20
Calcium	2.8	B	5.00	7.55		mg/L		95	75 - 125	1	20
Boron	2.1		1.00	3.12		mg/L		103	75 - 125	0	20

Lab Sample ID: 440-213518-1 MSD

Matrix: Water

Analysis Batch: 483901

Client Sample ID: DW-1

Prep Type: Total Recoverable

Prep Batch: 483392

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Sodium	1100	B	10.0	1180	4	mg/L		329	75 - 125	1	20

## Method: 410.4 - COD

Lab Sample ID: MB 440-483463/3

Matrix: Water

Analysis Batch: 483463

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chemical Oxygen Demand	ND		20	10	mg/L			06/21/18 13:55	1

Lab Sample ID: LCS 440-483463/4

Matrix: Water

Analysis Batch: 483463

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Chemical Oxygen Demand	200	199		mg/L		99	90 - 110

Lab Sample ID: 440-213518-1 MS

Matrix: Water

Analysis Batch: 483463

Client Sample ID: DW-1

Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				Limits
Chemical Oxygen Demand	11	J	200	207		mg/L		98	70 - 120

Lab Sample ID: 440-213518-1 MSD

Matrix: Water

Analysis Batch: 483463

Client Sample ID: DW-1

Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Chemical Oxygen Demand	11	J	200	207		mg/L		98	70 - 120	0	15

TestAmerica Irvine

# QC Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Method: 410.4 - COD (Continued)

**Lab Sample ID:** LCS 440-484151/5  
**Matrix:** Water  
**Analysis Batch:** 484151

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	80.0	70.1	*	mg/L		88	90 - 110

**Lab Sample ID:** LCS 440-484151/6  
**Matrix:** Water  
**Analysis Batch:** 484151

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	80.0	84.2		mg/L		105	90 - 110

**Lab Sample ID:** LCS 440-484151/7  
**Matrix:** Water  
**Analysis Batch:** 484151

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	80.0	76.1		mg/L		95	90 - 110

**Lab Sample ID:** LCS 440-484151/8  
**Matrix:** Water  
**Analysis Batch:** 484151

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	80.0	75.5		mg/L		94	90 - 110

## Method: SM 2320B - Alkalinity

**Lab Sample ID:** MB 440-482100/3  
**Matrix:** Water  
**Analysis Batch:** 482100

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	ND		4.0	4.0	mg/L			06/14/18 05:18	1
Bicarbonate Alkalinity as CaCO3	ND		4.0	4.0	mg/L			06/14/18 05:18	1

**Lab Sample ID:** LCS 440-482100/2  
**Matrix:** Water  
**Analysis Batch:** 482100

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity as CaCO3	98.9	97.0		mg/L		98	80 - 120

**Lab Sample ID:** 440-213518-1 DU  
**Matrix:** Water  
**Analysis Batch:** 482100

**Client Sample ID:** DW-1  
**Prep Type:** Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity as CaCO3	520		528		mg/L		1	20
Bicarbonate Alkalinity as CaCO3	420		431		mg/L		2	20

TestAmerica Irvine

# QC Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 440-483125/1  
Matrix: Water  
Analysis Batch: 483125

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	5.0	mg/L			06/20/18 09:59	1

Lab Sample ID: LCS 440-483125/2  
Matrix: Water  
Analysis Batch: 483125

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	992		mg/L		99	90 - 110

Lab Sample ID: 440-213518-1 DU  
Matrix: Water  
Analysis Batch: 483125

Client Sample ID: DW-1  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	3200		3160		mg/L		0.2	5

## Method: SM 4500 CO2 C - Free Carbon Dioxide

Lab Sample ID: MB 440-483440/1  
Matrix: Water  
Analysis Batch: 483440

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free	ND		2.0	2.0	mg/L			06/21/18 11:48	1

Lab Sample ID: 440-213374-I-1 DU  
Matrix: Water  
Analysis Batch: 483440

Client Sample ID: Duplicate  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Carbon Dioxide, Free	70		68.6		mg/L		3	20

## Method: SM 4500 NH3 D - Ammonia

Lab Sample ID: MB 440-482564/2-A  
Matrix: Water  
Analysis Batch: 482583

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 482564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.50	0.10	mg/L		06/18/18 04:00	06/18/18 07:00	1

Lab Sample ID: LCS 440-482564/1-A  
Matrix: Water  
Analysis Batch: 482583

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 482564

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	2.50	2.24		mg/L		90	85 - 115

TestAmerica Irvine

# QC Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Method: SM 4500 NH3 D - Ammonia (Continued)

**Lab Sample ID: MRL 440-482564/21-A**  
**Matrix: Water**  
**Analysis Batch: 482583**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 482564**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.500	0.494	J	mg/L		99	10 - 200

**Lab Sample ID: 440-213616-A-1-C MS**  
**Matrix: Water**  
**Analysis Batch: 482583**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 482564**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.85		2.50	3.22		mg/L		95	75 - 125

**Lab Sample ID: 440-213616-A-1-D MSD**  
**Matrix: Water**  
**Analysis Batch: 482583**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 482564**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	0.85		2.50	3.10		mg/L		90	75 - 125	4	15

**Lab Sample ID: 440-213616-A-1-B DU**  
**Matrix: Water**  
**Analysis Batch: 482583**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 482564**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia (as N)	0.85		0.879		mg/L		4	15

**Lab Sample ID: MB 440-484187/2-A**  
**Matrix: Water**  
**Analysis Batch: 484212**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 484187**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.50	0.10	mg/L		06/26/18 04:00	06/26/18 06:00	1

**Lab Sample ID: LCS 440-484187/1-A**  
**Matrix: Water**  
**Analysis Batch: 484212**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 484187**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	2.50	2.33		mg/L		93	85 - 115

**Lab Sample ID: 440-214325-A-3-B MS**  
**Matrix: Water**  
**Analysis Batch: 484212**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 484187**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	ND		2.50	2.50		mg/L		100	75 - 125

**Lab Sample ID: 440-214325-A-3-C MSD**  
**Matrix: Water**  
**Analysis Batch: 484212**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 484187**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	ND		2.50	2.50		mg/L		100	75 - 125	0	15

TestAmerica Irvine

# QC Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 440-482933/3  
 Matrix: Water  
 Analysis Batch: 482933

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Sulfide	ND		0.050	0.027	mg/L			06/19/18 12:38	1

Lab Sample ID: LCS 440-482933/4  
 Matrix: Water  
 Analysis Batch: 482933

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Sulfide	0.460	0.451		mg/L		98	80 - 120

Lab Sample ID: LCSD 440-482933/5  
 Matrix: Water  
 Analysis Batch: 482933

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Sulfide	0.460	0.455		mg/L		99	80 - 120	1	20

Lab Sample ID: 550-104381-A-1 MS  
 Matrix: Water  
 Analysis Batch: 482933

Client Sample ID: Matrix Spike  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Sulfide	ND		0.460	0.442		mg/L		96	70 - 130

Lab Sample ID: 550-104381-A-1 MSD  
 Matrix: Water  
 Analysis Batch: 482933

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Sulfide	ND		0.460	0.395		mg/L		86	70 - 130	11	30

## Method: SM 5310C - TOC

Lab Sample ID: MB 440-482280/8  
 Matrix: Water  
 Analysis Batch: 482280

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		0.10	0.050	mg/L			06/14/18 10:23	1

Lab Sample ID: LCS 440-482280/7  
 Matrix: Water  
 Analysis Batch: 482280

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	9.83		mg/L		98	90 - 110

# QC Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Method: SM 5310C - TOC (Continued)

**Lab Sample ID: MRL 440-482280/4**  
**Matrix: Water**  
**Analysis Batch: 482280**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	0.100	0.0761	J	mg/L		76	50 - 150

**Lab Sample ID: 440-213374-H-1 MS**  
**Matrix: Water**  
**Analysis Batch: 482280**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	6.5		10.0	16.9		mg/L		105	80 - 120

**Lab Sample ID: 440-213374-H-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 482280**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	6.5		10.0	16.9		mg/L		105	80 - 120	0	20

**Lab Sample ID: MB 440-482361/6**  
**Matrix: Water**  
**Analysis Batch: 482361**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		0.10	0.050	mg/L			06/15/18 07:51	1

**Lab Sample ID: LCS 440-482361/5**  
**Matrix: Water**  
**Analysis Batch: 482361**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.8		mg/L		108	90 - 110

**Lab Sample ID: MRL 440-482361/4**  
**Matrix: Water**  
**Analysis Batch: 482361**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	0.100	0.126		mg/L		126	50 - 150

**Lab Sample ID: 440-213518-3 MS**  
**Matrix: Water**  
**Analysis Batch: 482361**

**Client Sample ID: DW-3**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	0.34		10.0	10.8		mg/L		105	80 - 120

**Lab Sample ID: 440-213518-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 482361**

**Client Sample ID: DW-3**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	0.34		10.0	10.5		mg/L		102	80 - 120	3	20

TestAmerica Irvine

# QC Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

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# QC Association Summary

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## GC/MS VOA

### Analysis Batch: 482498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213518-1	DW-1	Total/NA	Water	8260B	
440-213518-2	DW-2	Total/NA	Water	8260B	
440-213518-3	DW-3	Total/NA	Water	8260B	
MB 440-482498/4	Method Blank	Total/NA	Water	8260B	
LCS 440-482498/5	Lab Control Sample	Total/NA	Water	8260B	
440-213075-A-8 MS	Matrix Spike	Total/NA	Water	8260B	
440-213075-A-8 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

### Analysis Batch: 482990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213518-4	DW-5	Total/NA	Water	8260B	
440-213518-5	MW-1	Total/NA	Water	8260B	
440-213518-6	MW-9	Total/NA	Water	8260B	
440-213518-7	Extraction Trench	Total/NA	Water	8260B	
440-213518-8	QCAB	Total/NA	Water	8260B	
440-213518-9	QCTB	Total/NA	Water	8260B	
MB 440-482990/4	Method Blank	Total/NA	Water	8260B	
LCS 440-482990/5	Lab Control Sample	Total/NA	Water	8260B	
440-213518-4 MS	DW-5	Total/NA	Water	8260B	
440-213518-4 MSD	DW-5	Total/NA	Water	8260B	

### Analysis Batch: 483613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213518-1	DW-1	Total/NA	Water	8260B	
440-213518-2	DW-2	Total/NA	Water	8260B	
440-213518-3	DW-3	Total/NA	Water	8260B	
440-213518-4	DW-5	Total/NA	Water	8260B	
440-213518-5	MW-1	Total/NA	Water	8260B	
440-213518-6	MW-9	Total/NA	Water	8260B	
440-213518-7	Extraction Trench	Total/NA	Water	8260B	
440-213518-8	QCAB	Total/NA	Water	8260B	
440-213518-9	QCTB	Total/NA	Water	8260B	
MB 440-483613/4	Method Blank	Total/NA	Water	8260B	
LCS 440-483613/5	Lab Control Sample	Total/NA	Water	8260B	
440-213518-1 MS	DW-1	Total/NA	Water	8260B	
440-213518-1 MSD	DW-1	Total/NA	Water	8260B	

## GC/MS Semi VOA

### Prep Batch: 482875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213518-1	DW-1	Total/NA	Water	3520C	
440-213518-2	DW-2	Total/NA	Water	3520C	
440-213518-3	DW-3	Total/NA	Water	3520C	
440-213518-4	DW-5	Total/NA	Water	3520C	
440-213518-5	MW-1	Total/NA	Water	3520C	
440-213518-6	MW-9	Total/NA	Water	3520C	
440-213518-7	Extraction Trench	Total/NA	Water	3520C	
MB 440-482875/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-482875/3-A	Lab Control Sample	Total/NA	Water	3520C	

TestAmerica Irvine

# QC Association Summary

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## GC/MS Semi VOA (Continued)

### Prep Batch: 482875 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 440-482875/4-A	Lab Control Sample Dup	Total/NA	Water	3520C	

### Analysis Batch: 483345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213518-1	DW-1	Total/NA	Water	8270C	482875
440-213518-2	DW-2	Total/NA	Water	8270C	482875
440-213518-3	DW-3	Total/NA	Water	8270C	482875
440-213518-4	DW-5	Total/NA	Water	8270C	482875
440-213518-5	MW-1	Total/NA	Water	8270C	482875
440-213518-6	MW-9	Total/NA	Water	8270C	482875
440-213518-7	Extraction Trench	Total/NA	Water	8270C	482875
MB 440-482875/1-A	Method Blank	Total/NA	Water	8270C	482875
LCS 440-482875/3-A	Lab Control Sample	Total/NA	Water	8270C	482875
LCSD 440-482875/4-A	Lab Control Sample Dup	Total/NA	Water	8270C	482875

## HPLC/IC

### Analysis Batch: 481846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213518-1	DW-1	Total/NA	Water	300.0	
440-213518-2	DW-2	Total/NA	Water	300.0	
440-213518-3	DW-3	Total/NA	Water	300.0	
440-213518-4	DW-5	Total/NA	Water	300.0	
440-213518-5	MW-1	Total/NA	Water	300.0	
440-213518-6	MW-9	Total/NA	Water	300.0	
440-213518-7	Extraction Trench	Total/NA	Water	300.0	
MB 440-481846/42	Method Blank	Total/NA	Water	300.0	
LCS 440-481846/43	Lab Control Sample	Total/NA	Water	300.0	
440-213518-2 MS	DW-2	Total/NA	Water	300.0	
440-213518-2 MSD	DW-2	Total/NA	Water	300.0	

### Analysis Batch: 481847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213518-1	DW-1	Total/NA	Water	300.0	
440-213518-1	DW-1	Total/NA	Water	300.0	
440-213518-2 - DL	DW-2	Total/NA	Water	300.0	
440-213518-2	DW-2	Total/NA	Water	300.0	
440-213518-3	DW-3	Total/NA	Water	300.0	
440-213518-3	DW-3	Total/NA	Water	300.0	
440-213518-4	DW-5	Total/NA	Water	300.0	
440-213518-5	MW-1	Total/NA	Water	300.0	
440-213518-5	MW-1	Total/NA	Water	300.0	
440-213518-6	MW-9	Total/NA	Water	300.0	
440-213518-6	MW-9	Total/NA	Water	300.0	
440-213518-7	Extraction Trench	Total/NA	Water	300.0	
440-213518-7	Extraction Trench	Total/NA	Water	300.0	
MB 440-481847/42	Method Blank	Total/NA	Water	300.0	
LCS 440-481847/43	Lab Control Sample	Total/NA	Water	300.0	
440-213518-2 MS - DL	DW-2	Total/NA	Water	300.0	
440-213518-2 MSD - DL	DW-2	Total/NA	Water	300.0	

TestAmerica Irvine

# QC Association Summary

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Metals

### Prep Batch: 483392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213518-1	DW-1	Total Recoverable	Water	3005A	
440-213518-2	DW-2	Total Recoverable	Water	3005A	
440-213518-3	DW-3	Total Recoverable	Water	3005A	
440-213518-4	DW-5	Total Recoverable	Water	3005A	
440-213518-5	MW-1	Total Recoverable	Water	3005A	
440-213518-6	MW-9	Total Recoverable	Water	3005A	
440-213518-7	Extraction Trench	Total Recoverable	Water	3005A	
MB 440-483392/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-483392/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-213518-1 MS	DW-1	Total Recoverable	Water	3005A	
440-213518-1 MSD	DW-1	Total Recoverable	Water	3005A	

### Analysis Batch: 483901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213518-1	DW-1	Total Recoverable	Water	6010B	483392
440-213518-2	DW-2	Total Recoverable	Water	6010B	483392
440-213518-3	DW-3	Total Recoverable	Water	6010B	483392
440-213518-4	DW-5	Total Recoverable	Water	6010B	483392
440-213518-5	MW-1	Total Recoverable	Water	6010B	483392
440-213518-6	MW-9	Total Recoverable	Water	6010B	483392
440-213518-7	Extraction Trench	Total Recoverable	Water	6010B	483392
MB 440-483392/1-A	Method Blank	Total Recoverable	Water	6010B	483392
LCS 440-483392/2-A	Lab Control Sample	Total Recoverable	Water	6010B	483392
440-213518-1 MS	DW-1	Total Recoverable	Water	6010B	483392
440-213518-1 MSD	DW-1	Total Recoverable	Water	6010B	483392

### Analysis Batch: 483904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213518-1	DW-1	Total Recoverable	Water	6010B	483392
440-213518-2	DW-2	Total Recoverable	Water	6010B	483392
440-213518-3	DW-3	Total Recoverable	Water	6010B	483392
440-213518-4	DW-5	Total Recoverable	Water	6010B	483392
440-213518-5	MW-1	Total Recoverable	Water	6010B	483392
440-213518-6	MW-9	Total Recoverable	Water	6010B	483392
440-213518-7	Extraction Trench	Total Recoverable	Water	6010B	483392
MB 440-483392/1-A	Method Blank	Total Recoverable	Water	6010B	483392
LCS 440-483392/2-A	Lab Control Sample	Total Recoverable	Water	6010B	483392
440-213518-1 MS	DW-1	Total Recoverable	Water	6010B	483392
440-213518-1 MSD	DW-1	Total Recoverable	Water	6010B	483392

## General Chemistry

### Analysis Batch: 482100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213518-1	DW-1	Total/NA	Water	SM 2320B	
440-213518-2	DW-2	Total/NA	Water	SM 2320B	
440-213518-3	DW-3	Total/NA	Water	SM 2320B	
440-213518-4	DW-5	Total/NA	Water	SM 2320B	
440-213518-5	MW-1	Total/NA	Water	SM 2320B	
440-213518-6	MW-9	Total/NA	Water	SM 2320B	

TestAmerica Irvine

# QC Association Summary

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## General Chemistry (Continued)

### Analysis Batch: 482100 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213518-7	Extraction Trench	Total/NA	Water	SM 2320B	
MB 440-482100/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 440-482100/2	Lab Control Sample	Total/NA	Water	SM 2320B	
440-213518-1 DU	DW-1	Total/NA	Water	SM 2320B	

### Analysis Batch: 482280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213518-1	DW-1	Total/NA	Water	SM 5310C	
440-213518-2	DW-2	Total/NA	Water	SM 5310C	
440-213518-4	DW-5	Total/NA	Water	SM 5310C	
440-213518-5	MW-1	Total/NA	Water	SM 5310C	
440-213518-6	MW-9	Total/NA	Water	SM 5310C	
440-213518-7	Extraction Trench	Total/NA	Water	SM 5310C	
MB 440-482280/8	Method Blank	Total/NA	Water	SM 5310C	
LCS 440-482280/7	Lab Control Sample	Total/NA	Water	SM 5310C	
MRL 440-482280/4	Lab Control Sample	Total/NA	Water	SM 5310C	
440-213374-H-1 MS	Matrix Spike	Total/NA	Water	SM 5310C	
440-213374-H-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310C	

### Analysis Batch: 482361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213518-3	DW-3	Total/NA	Water	SM 5310C	
MB 440-482361/6	Method Blank	Total/NA	Water	SM 5310C	
LCS 440-482361/5	Lab Control Sample	Total/NA	Water	SM 5310C	
MRL 440-482361/4	Lab Control Sample	Total/NA	Water	SM 5310C	
440-213518-3 MS	DW-3	Total/NA	Water	SM 5310C	
440-213518-3 MSD	DW-3	Total/NA	Water	SM 5310C	

### Prep Batch: 482564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213518-1	DW-1	Total/NA	Water	SM 4500 NH3 B	
440-213518-2	DW-2	Total/NA	Water	SM 4500 NH3 B	
440-213518-3	DW-3	Total/NA	Water	SM 4500 NH3 B	
MB 440-482564/2-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	
LCS 440-482564/1-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	
MRL 440-482564/21-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	
440-213616-A-1-C MS	Matrix Spike	Total/NA	Water	SM 4500 NH3 B	
440-213616-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 NH3 B	
440-213616-A-1-B DU	Duplicate	Total/NA	Water	SM 4500 NH3 B	

### Analysis Batch: 482583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213518-1	DW-1	Total/NA	Water	SM 4500 NH3 D	482564
440-213518-2	DW-2	Total/NA	Water	SM 4500 NH3 D	482564
440-213518-3	DW-3	Total/NA	Water	SM 4500 NH3 D	482564
MB 440-482564/2-A	Method Blank	Total/NA	Water	SM 4500 NH3 D	482564
LCS 440-482564/1-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 D	482564
MRL 440-482564/21-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 D	482564
440-213616-A-1-C MS	Matrix Spike	Total/NA	Water	SM 4500 NH3 D	482564
440-213616-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 NH3 D	482564
440-213616-A-1-B DU	Duplicate	Total/NA	Water	SM 4500 NH3 D	482564

TestAmerica Irvine

# QC Association Summary

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Analysis Batch: 482933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213518-1	DW-1	Total/NA	Water	SM 4500 S2 D	
440-213518-2	DW-2	Total/NA	Water	SM 4500 S2 D	
440-213518-3	DW-3	Total/NA	Water	SM 4500 S2 D	
440-213518-4	DW-5	Total/NA	Water	SM 4500 S2 D	
440-213518-5	MW-1	Total/NA	Water	SM 4500 S2 D	
440-213518-6	MW-9	Total/NA	Water	SM 4500 S2 D	
440-213518-7	Extraction Trench	Total/NA	Water	SM 4500 S2 D	
MB 440-482933/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 440-482933/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCS 440-482933/5	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
550-104381-A-1 MS	Matrix Spike	Total/NA	Water	SM 4500 S2 D	
550-104381-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 S2 D	

## Analysis Batch: 483125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213518-1	DW-1	Total/NA	Water	SM 2540C	
440-213518-2	DW-2	Total/NA	Water	SM 2540C	
440-213518-3	DW-3	Total/NA	Water	SM 2540C	
440-213518-4	DW-5	Total/NA	Water	SM 2540C	
440-213518-5	MW-1	Total/NA	Water	SM 2540C	
440-213518-6	MW-9	Total/NA	Water	SM 2540C	
440-213518-7	Extraction Trench	Total/NA	Water	SM 2540C	
MB 440-483125/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-483125/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-213518-1 DU	DW-1	Total/NA	Water	SM 2540C	

## Analysis Batch: 483440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213518-1	DW-1	Total/NA	Water	SM 4500 CO2 C	
440-213518-2	DW-2	Total/NA	Water	SM 4500 CO2 C	
440-213518-3	DW-3	Total/NA	Water	SM 4500 CO2 C	
440-213518-4	DW-5	Total/NA	Water	SM 4500 CO2 C	
440-213518-5	MW-1	Total/NA	Water	SM 4500 CO2 C	
440-213518-6	MW-9	Total/NA	Water	SM 4500 CO2 C	
440-213518-7	Extraction Trench	Total/NA	Water	SM 4500 CO2 C	
MB 440-483440/1	Method Blank	Total/NA	Water	SM 4500 CO2 C	
440-213374-l-1 DU	Duplicate	Total/NA	Water	SM 4500 CO2 C	

## Analysis Batch: 483463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213518-1	DW-1	Total/NA	Water	410.4	
440-213518-2	DW-2	Total/NA	Water	410.4	
440-213518-3	DW-3	Total/NA	Water	410.4	
440-213518-4	DW-5	Total/NA	Water	410.4	
440-213518-5	MW-1	Total/NA	Water	410.4	
440-213518-6	MW-9	Total/NA	Water	410.4	
440-213518-7	Extraction Trench	Total/NA	Water	410.4	
MB 440-483463/3	Method Blank	Total/NA	Water	410.4	
LCS 440-483463/4	Lab Control Sample	Total/NA	Water	410.4	
440-213518-1 MS	DW-1	Total/NA	Water	410.4	
440-213518-1 MSD	DW-1	Total/NA	Water	410.4	

# QC Association Summary

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## General Chemistry (Continued)

### Analysis Batch: 484151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-484151/5	Lab Control Sample	Total/NA	Water	410.4	
LCS 440-484151/6	Lab Control Sample	Total/NA	Water	410.4	
LCS 440-484151/7	Lab Control Sample	Total/NA	Water	410.4	
LCS 440-484151/8	Lab Control Sample	Total/NA	Water	410.4	

### Prep Batch: 484187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213518-4	DW-5	Total/NA	Water	SM 4500 NH3 B	
440-213518-5	MW-1	Total/NA	Water	SM 4500 NH3 B	
440-213518-6	MW-9	Total/NA	Water	SM 4500 NH3 B	
440-213518-7	Extraction Trench	Total/NA	Water	SM 4500 NH3 B	
MB 440-484187/2-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	
LCS 440-484187/1-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	
440-214325-A-3-B MS	Matrix Spike	Total/NA	Water	SM 4500 NH3 B	
440-214325-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 NH3 B	

### Analysis Batch: 484212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213518-4	DW-5	Total/NA	Water	SM 4500 NH3 D	484187
440-213518-5	MW-1	Total/NA	Water	SM 4500 NH3 D	484187
440-213518-6	MW-9	Total/NA	Water	SM 4500 NH3 D	484187
440-213518-7	Extraction Trench	Total/NA	Water	SM 4500 NH3 D	484187
MB 440-484187/2-A	Method Blank	Total/NA	Water	SM 4500 NH3 D	484187
LCS 440-484187/1-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 D	484187
440-214325-A-3-B MS	Matrix Spike	Total/NA	Water	SM 4500 NH3 D	484187
440-214325-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 NH3 D	484187

# Definitions/Glossary

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.
N	Presumptive evidence of material.

### HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

TestAmerica Irvine

# Definitions/Glossary

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

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## Glossary (Continued)

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Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)

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# Accreditation/Certification Summary

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213518-1

## Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-18 *
Arizona	State Program	9	AZ0671	10-14-18
California	LA Cty Sanitation Districts	9	10256	06-30-18 *
California	State Program	9	CA ELAP 2706	06-30-18 *
Guam	State Program	9	Cert. No. 17-003R	01-23-19
Hawaii	State Program	9	N/A	01-29-19
Kansas	NELAP	7	E-10420	07-31-18
Nevada	State Program	9	CA015312018-1	07-31-18
New Mexico	State Program	6	N/A	01-29-19
Oregon	NELAP	10	4028	01-29-19
USDA	Federal		P330-15-00184	07-08-18 *
Washington	State Program	10	C900	09-03-18

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Irvine

Chain of Custody Record

201016

TestAmerica  
THE LEADER IN ENVIRONMENTAL TESTING  
TestAmerica Laboratories, Inc.  
TAL-210 (0713)

TestAmerica Irvine  
17461 Berriman Ave  
Suite 100  
Irvine, CA 92614  
Phone: 949.261.1022 Fax:

Regulatory Program:  DW  NPDES  RCRA  Other:

Client Contact: Republic  
Company Name: GILA  
Address: 11415 W. Bernardo Ct  
City/State/Zip: S.B. CA 92727  
Phone: 951-431-1136  
Fax: 951-431-1087  
Project Name: Republic Services  
Site: Sunshine Environmental  
P O #: 92707851

Project Manager: KYON REVEN  
Tel/Fax: 951-431-1136  
Analysis Turnaround Time:  CALENDAR DAYS  WORKING DAYS  
TAT if different from Below: \_\_\_\_\_  
2 weeks  
1 week  
2 days  
1 day

Site Contact: TEST MILLS Date: 6-13-18  
Carrier: TVA

COC No. \_\_\_\_\_ of \_\_\_\_\_ COCs  
Sampler: ES, MC  
For Lab Use Only: \_\_\_\_\_  
Walk-in Client: \_\_\_\_\_  
Lab Sampling: \_\_\_\_\_  
Job / SDG No.: \_\_\_\_\_


Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)		Perform MS/MSD (Y/N)	
						Y	N	Y	N
DW-1	6/13/18	1015	G	AW	13			X	X
DW-2		1154			13			X	X
DW-3		1315			13			X	X
DW-5		0938			13			X	X
NW-1		1025			13			X	X
NW-9		0815			13			X	X
Extraction Trench		1120			13			X	X
QCRB					13			X	X
QCTR					13			X	X

Special Instructions: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other  
Possible Hazard Identification:  
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Special Instructions/QC Requirements & Comments: 8260 includes all uoc for par 258 approx 1 uoc's Dichlorodifluoromethane, 1.3/13 0.5/0.5 D.8/0.8

Preservation Used: \_\_\_\_\_  
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

440-213518 Chain of Custody

Barcode: 

Custody Seals Intact:  Yes  No  
Relinquished by: \_\_\_\_\_  
Relinquished by: \_\_\_\_\_  
Relinquished by: \_\_\_\_\_

Company: Geo-45R Date/Time: 6/13/18  
Company: Geo-45R Date/Time: 6/13/18  
Company: Geo-45R Date/Time: 6/13/18

Received by: \_\_\_\_\_  
Received in Laboratory by: \_\_\_\_\_

Company: TVA Date/Time: 6-13-18 1430  
Company: TVA Date/Time: 6-13-18 1830  
Company: TVA Date/Time: 6-13-18 1830

## Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 440-213518-1

**Login Number: 213518**

**List Number: 1**

**Creator: Soderblom, Tim**

**List Source: TestAmerica Irvine**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-213600-1

Client Project/Site: Republic Sunshine Canyon

For:

Geo-Logic Associates

11415 West Bernardo Court

Suite 200

San Diego, California 92127

Attn: Kyle Welchans



Authorized for release by:

6/28/2018 6:26:22 PM

Rossina Tomova, Project Manager I

(949)261-1022

[rossina.tomova@testamericainc.com](mailto:rossina.tomova@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Sample Summary

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-213600-1	PZ-4	Water	06/14/18 10:30	06/14/18 15:30
440-213600-2	MW-2A	Water	06/14/18 10:35	06/14/18 15:30
440-213600-3	MW-2B	Water	06/14/18 09:10	06/14/18 15:30
440-213600-4	DW-4	Water	06/14/18 07:58	06/14/18 15:30
440-213600-5	QCAB	Water	06/14/18 00:01	06/14/18 15:30
440-213600-6	QCTB	Water	06/14/18 00:01	06/14/18 15:30

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Case Narrative

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

**Job ID: 440-213600-1**

**Laboratory: TestAmerica Irvine**

## Narrative

### Job Narrative 440-213600-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 6/14/2018 3:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5° C.

#### GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### HPLC/IC

Method(s) 300.0: The following sample was diluted due to the nature of the sample matrix: DW-4 (440-213600-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Method(s) 6010B: The method blank for preparation batch 440-483476 and analytical batch 440-484640 contained Sodium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 6010B: The continuing calibration blank (CCB) for analytical batch 440-484640 contained Sodium above the method detection limit (MDL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

Method(s) 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-483148.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Client Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

**Client Sample ID: PZ-4**

**Lab Sample ID: 440-213600-1**

**Date Collected: 06/14/18 10:30**

**Matrix: Water**

**Date Received: 06/14/18 15:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			06/22/18 15:50	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 15:50	1
Acrolein	ND		50	2.5	ug/L			06/20/18 00:43	1
Acrylonitrile	ND		50	1.0	ug/L			06/20/18 00:43	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 15:50	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 15:50	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 15:50	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 15:50	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 15:50	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 15:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/22/18 15:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/22/18 15:50	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 15:50	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 15:50	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 15:50	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 15:50	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 15:50	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 15:50	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/22/18 15:50	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/22/18 15:50	1
2-Hexanone	ND		5.0	2.5	ug/L			06/22/18 15:50	1
Acetone	ND		20	10	ug/L			06/22/18 15:50	1
Acetonitrile	ND		20	10	ug/L			06/22/18 15:50	1
Acrolein	ND		5.0	2.5	ug/L			06/22/18 15:50	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/22/18 15:50	1
Benzene	ND		0.50	0.25	ug/L			06/22/18 15:50	1
Allyl chloride	ND		1.0	0.50	ug/L			06/22/18 15:50	1
Bromoform	ND		1.0	0.40	ug/L			06/22/18 15:50	1
Bromomethane	ND		0.50	0.25	ug/L			06/22/18 15:50	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/22/18 15:50	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/22/18 15:50	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/22/18 15:50	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/22/18 15:50	1
Chloroethane	ND		1.0	0.40	ug/L			06/22/18 15:50	1
Chloroform	ND		0.50	0.25	ug/L			06/22/18 15:50	1
Chloromethane	ND		0.50	0.25	ug/L			06/22/18 15:50	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 15:50	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 15:50	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/22/18 15:50	1
Dibromomethane	ND		0.50	0.25	ug/L			06/22/18 15:50	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/22/18 15:50	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/22/18 15:50	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 15:50	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/22/18 15:50	1
Iodomethane	ND		2.0	1.0	ug/L			06/22/18 15:50	1
Isobutyl alcohol	ND		25	13	ug/L			06/22/18 15:50	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/22/18 15:50	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/22/18 15:50	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 15:50	1

TestAmerica Irvine



# Client Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

**Client Sample ID: PZ-4**

**Lab Sample ID: 440-213600-1**

Date Collected: 06/14/18 10:30

Matrix: Water

Date Received: 06/14/18 15:30

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		2.0	0.88	ug/L			06/22/18 15:50	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/22/18 15:50	1
Naphthalene	ND		1.0	0.40	ug/L			06/22/18 15:50	1
o-Xylene	ND		0.50	0.25	ug/L			06/22/18 15:50	1
Propionitrile	ND		20	10	ug/L			06/22/18 15:50	1
Styrene	ND		0.50	0.25	ug/L			06/22/18 15:50	1
t-Butanol	ND		10	5.0	ug/L			06/22/18 15:50	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/22/18 15:50	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/22/18 15:50	1
Toluene	ND		0.50	0.25	ug/L			06/22/18 15:50	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 15:50	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 15:50	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/22/18 15:50	1
Trichloroethene	ND		0.50	0.25	ug/L			06/22/18 15:50	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/22/18 15:50	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/22/18 15:50	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/22/18 15:50	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/22/18 15:50	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/22/18 15:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/22/18 15:50	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	11	TJ	ug/L		7.25			06/22/18 15:50	1
Unknown	2.9	TJ	ug/L		15.32			06/22/18 15:50	1
Unknown	12	TJ	ug/L		17.12			06/22/18 15:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 128		06/20/18 00:43	1
4-Bromofluorobenzene (Surr)	95		80 - 120		06/20/18 00:43	1
Toluene-d8 (Surr)	107		80 - 128		06/22/18 15:50	1
4-Bromofluorobenzene (Surr)	96		80 - 120		06/22/18 15:50	1
Dibromofluoromethane (Surr)	99		76 - 132		06/20/18 00:43	1
Dibromofluoromethane (Surr)	99		76 - 132		06/22/18 15:50	1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.93	0.23	ug/L		06/20/18 10:46	06/21/18 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	79		30 - 120	06/20/18 10:46	06/21/18 14:42	1

## Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.50	0.25	mg/L			06/14/18 19:09	1
Nitrate as N	0.056	J	0.11	0.055	mg/L			06/14/18 19:09	1
Chloride	8.7		0.50	0.25	mg/L			06/14/18 19:09	1
Fluoride	1.1		0.50	0.25	mg/L			06/14/18 19:09	1
Sulfate	520		10	5.0	mg/L			06/14/18 19:25	20

TestAmerica Irvine

# Client Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

**Client Sample ID: PZ-4**

**Lab Sample ID: 440-213600-1**

Date Collected: 06/14/18 10:30

Matrix: Water

Date Received: 06/14/18 15:30

**Method: 6010B - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	4.2		0.50	0.25	mg/L		06/21/18 14:40	06/27/18 17:47	1
Manganese	0.10		0.020	0.015	mg/L		06/21/18 14:40	06/23/18 19:27	1
Magnesium	64		0.020	0.010	mg/L		06/21/18 14:40	06/23/18 19:27	1
Iron	0.80		0.10	0.050	mg/L		06/21/18 14:40	06/23/18 19:27	1
Sodium	130	B	0.50	0.26	mg/L		06/21/18 14:40	06/27/18 17:47	1
Calcium	110		0.10	0.050	mg/L		06/21/18 14:40	06/23/18 19:27	1
Boron	0.19		0.050	0.025	mg/L		06/21/18 14:40	06/23/18 19:27	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		20	10	mg/L			06/21/18 13:57	1
Total Dissolved Solids	1100		10	5.0	mg/L			06/21/18 09:12	1
Ammonia (as N)	2.5		0.50	0.10	mg/L		06/19/18 04:30	06/19/18 08:00	1
Total Sulfide	ND		0.050	0.027	mg/L			06/19/18 12:40	1
Total Organic Carbon	1.2		0.10	0.050	mg/L			06/15/18 08:55	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	320		4.0	4.0	mg/L			06/15/18 07:24	1
Bicarbonate Alkalinity as CaCO3	320		4.0	4.0	mg/L			06/15/18 07:24	1
Carbon Dioxide, Free	28		2.0	2.0	mg/L			06/22/18 15:50	1

**Client Sample ID: MW-2A**

**Lab Sample ID: 440-213600-2**

Date Collected: 06/14/18 10:35

Matrix: Water

Date Received: 06/14/18 15:30

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			06/22/18 16:16	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 16:16	1
Acrolein	ND		50	2.5	ug/L			06/20/18 00:15	1
Acrylonitrile	ND		50	1.0	ug/L			06/20/18 00:15	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 16:16	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 16:16	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 16:16	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 16:16	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 16:16	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 16:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/22/18 16:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/22/18 16:16	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 16:16	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 16:16	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 16:16	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 16:16	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 16:16	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 16:16	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/22/18 16:16	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/22/18 16:16	1
2-Hexanone	ND		5.0	2.5	ug/L			06/22/18 16:16	1
Acetone	ND		20	10	ug/L			06/22/18 16:16	1
Acetonitrile	ND		20	10	ug/L			06/22/18 16:16	1
Acrolein	ND		5.0	2.5	ug/L			06/22/18 16:16	1

TestAmerica Irvine

# Client Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

**Client Sample ID: MW-2A**

**Lab Sample ID: 440-213600-2**

**Date Collected: 06/14/18 10:35**

**Matrix: Water**

**Date Received: 06/14/18 15:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	ND		2.0	1.0	ug/L			06/22/18 16:16	1
Benzene	ND		0.50	0.25	ug/L			06/22/18 16:16	1
Allyl chloride	ND		1.0	0.50	ug/L			06/22/18 16:16	1
Bromoform	ND		1.0	0.40	ug/L			06/22/18 16:16	1
Bromomethane	ND		0.50	0.25	ug/L			06/22/18 16:16	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/22/18 16:16	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/22/18 16:16	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/22/18 16:16	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/22/18 16:16	1
Chloroethane	ND		1.0	0.40	ug/L			06/22/18 16:16	1
Chloroform	ND		0.50	0.25	ug/L			06/22/18 16:16	1
Chloromethane	ND		0.50	0.25	ug/L			06/22/18 16:16	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 16:16	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 16:16	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/22/18 16:16	1
Dibromomethane	ND		0.50	0.25	ug/L			06/22/18 16:16	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/22/18 16:16	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/22/18 16:16	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 16:16	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/22/18 16:16	1
Iodomethane	ND		2.0	1.0	ug/L			06/22/18 16:16	1
Isobutyl alcohol	ND		25	13	ug/L			06/22/18 16:16	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/22/18 16:16	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/22/18 16:16	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 16:16	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/22/18 16:16	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/22/18 16:16	1
Naphthalene	ND		1.0	0.40	ug/L			06/22/18 16:16	1
o-Xylene	ND		0.50	0.25	ug/L			06/22/18 16:16	1
Propionitrile	ND		20	10	ug/L			06/22/18 16:16	1
Styrene	ND		0.50	0.25	ug/L			06/22/18 16:16	1
t-Butanol	ND		10	5.0	ug/L			06/22/18 16:16	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/22/18 16:16	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/22/18 16:16	1
Toluene	ND		0.50	0.25	ug/L			06/22/18 16:16	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 16:16	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 16:16	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/22/18 16:16	1
Trichloroethene	ND		0.50	0.25	ug/L			06/22/18 16:16	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/22/18 16:16	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/22/18 16:16	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/22/18 16:16	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/22/18 16:16	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/22/18 16:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/22/18 16:16	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	11	TJ	ug/L		7.25			06/22/18 16:16	1
Unknown	3.0	TJ	ug/L		16.36			06/22/18 16:16	1
Unknown	4.0	TJ	ug/L		17.59			06/22/18 16:16	1

TestAmerica Irvine

# Client Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		80 - 128		06/20/18 00:15	1
4-Bromofluorobenzene (Surr)	96		80 - 120		06/20/18 00:15	1
Toluene-d8 (Surr)	105		80 - 128		06/22/18 16:16	1
4-Bromofluorobenzene (Surr)	93		80 - 120		06/22/18 16:16	1
Dibromofluoromethane (Surr)	100		76 - 132		06/20/18 00:15	1
Dibromofluoromethane (Surr)	103		76 - 132		06/22/18 16:16	1

### Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.93	0.23	ug/L		06/20/18 10:46	06/21/18 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	66		30 - 120	06/20/18 10:46	06/21/18 15:05	1

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.33	J	0.50	0.25	mg/L			06/14/18 19:42	1
Nitrate as N	ND		0.11	0.055	mg/L			06/14/18 19:42	1
Chloride	15		0.50	0.25	mg/L			06/14/18 19:42	1
Fluoride	1.1		0.50	0.25	mg/L			06/14/18 19:42	1
Sulfate	1500		25	13	mg/L			06/14/18 20:00	50

### Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	5.4		0.50	0.25	mg/L		06/21/18 14:40	06/27/18 17:57	1
Manganese	0.44		0.020	0.015	mg/L		06/21/18 14:40	06/23/18 19:40	1
Magnesium	110		0.020	0.010	mg/L		06/21/18 14:40	06/23/18 19:40	1
Iron	9.1		0.10	0.050	mg/L		06/21/18 14:40	06/23/18 19:40	1
Sodium	380	B	0.50	0.26	mg/L		06/21/18 14:40	06/27/18 17:57	1
Calcium	200		0.10	0.050	mg/L		06/21/18 14:40	06/23/18 19:40	1
Boron	0.55		0.050	0.025	mg/L		06/21/18 14:40	06/23/18 19:40	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		20	10	mg/L			06/21/18 13:57	1
Total Dissolved Solids	2700		20	10	mg/L			06/21/18 09:12	1
Ammonia (as N)	3.2		0.50	0.10	mg/L		06/19/18 04:30	06/19/18 08:00	1
Total Sulfide	ND		0.050	0.027	mg/L			06/19/18 12:40	1
Total Organic Carbon	2.8		0.10	0.050	mg/L			06/15/18 09:07	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	340		4.0	4.0	mg/L			06/15/18 07:36	1
Bicarbonate Alkalinity as CaCO3	340		4.0	4.0	mg/L			06/15/18 07:36	1
Carbon Dioxide, Free	48		2.0	2.0	mg/L			06/22/18 15:50	1

**Client Sample ID: MW-2B**

**Lab Sample ID: 440-213600-3**

**Date Collected: 06/14/18 09:10**

**Matrix: Water**

**Date Received: 06/14/18 15:30**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			06/22/18 16:43	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 16:43	1
Acrolein	ND		50	2.5	ug/L			06/19/18 23:48	1
Acrylonitrile	ND		50	1.0	ug/L			06/19/18 23:48	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 16:43	1

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# Client Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

**Client Sample ID: MW-2B**

**Lab Sample ID: 440-213600-3**

**Date Collected: 06/14/18 09:10**

**Matrix: Water**

**Date Received: 06/14/18 15:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 16:43	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 16:43	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 16:43	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 16:43	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 16:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/22/18 16:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/22/18 16:43	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 16:43	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 16:43	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 16:43	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 16:43	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 16:43	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 16:43	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/22/18 16:43	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/22/18 16:43	1
2-Hexanone	ND		5.0	2.5	ug/L			06/22/18 16:43	1
Acetone	ND		20	10	ug/L			06/22/18 16:43	1
Acetonitrile	ND		20	10	ug/L			06/22/18 16:43	1
Acrolein	ND		5.0	2.5	ug/L			06/22/18 16:43	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/22/18 16:43	1
Benzene	ND		0.50	0.25	ug/L			06/22/18 16:43	1
Allyl chloride	ND		1.0	0.50	ug/L			06/22/18 16:43	1
Bromoform	ND		1.0	0.40	ug/L			06/22/18 16:43	1
Bromomethane	ND		0.50	0.25	ug/L			06/22/18 16:43	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/22/18 16:43	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/22/18 16:43	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/22/18 16:43	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/22/18 16:43	1
Chloroethane	ND		1.0	0.40	ug/L			06/22/18 16:43	1
Chloroform	ND		0.50	0.25	ug/L			06/22/18 16:43	1
Chloromethane	ND		0.50	0.25	ug/L			06/22/18 16:43	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 16:43	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 16:43	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/22/18 16:43	1
Dibromomethane	ND		0.50	0.25	ug/L			06/22/18 16:43	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/22/18 16:43	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/22/18 16:43	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 16:43	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/22/18 16:43	1
Iodomethane	ND		2.0	1.0	ug/L			06/22/18 16:43	1
Isobutyl alcohol	ND		25	13	ug/L			06/22/18 16:43	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/22/18 16:43	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/22/18 16:43	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 16:43	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/22/18 16:43	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/22/18 16:43	1
Naphthalene	ND		1.0	0.40	ug/L			06/22/18 16:43	1
o-Xylene	ND		0.50	0.25	ug/L			06/22/18 16:43	1
Propionitrile	ND		20	10	ug/L			06/22/18 16:43	1

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# Client Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

**Client Sample ID: MW-2B**

**Lab Sample ID: 440-213600-3**

Date Collected: 06/14/18 09:10

Matrix: Water

Date Received: 06/14/18 15:30

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.50	0.25	ug/L			06/22/18 16:43	1
t-Butanol	ND		10	5.0	ug/L			06/22/18 16:43	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/22/18 16:43	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/22/18 16:43	1
Toluene	ND		0.50	0.25	ug/L			06/22/18 16:43	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 16:43	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 16:43	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/22/18 16:43	1
Trichloroethene	ND		0.50	0.25	ug/L			06/22/18 16:43	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/22/18 16:43	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/22/18 16:43	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/22/18 16:43	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/22/18 16:43	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/22/18 16:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/22/18 16:43	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	4.1	TJ	ug/L		3.27			06/22/18 16:43	1
Unknown	11	TJ	ug/L		7.25			06/22/18 16:43	1
Unknown	5.6	TJ	ug/L		16.36			06/22/18 16:43	1
Unknown	3.6	TJ	ug/L		17.06			06/22/18 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 128		06/19/18 23:48	1
4-Bromofluorobenzene (Surr)	96		80 - 120		06/19/18 23:48	1
Toluene-d8 (Surr)	104		80 - 128		06/22/18 16:43	1
4-Bromofluorobenzene (Surr)	96		80 - 120		06/22/18 16:43	1
Dibromofluoromethane (Surr)	97		76 - 132		06/19/18 23:48	1
Dibromofluoromethane (Surr)	102		76 - 132		06/22/18 16:43	1

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.0	0.25	ug/L		06/20/18 10:46	06/21/18 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	76		30 - 120	06/20/18 10:46	06/21/18 15:27	1

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.11	0.055	mg/L			06/14/18 20:17	1
Sulfate	1500		25	13	mg/L			06/14/18 21:08	50

**Method: 300.0 - Anions, Ion Chromatography - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.33	J	0.50	0.25	mg/L			06/14/18 20:17	1
Chloride	14		0.50	0.25	mg/L			06/14/18 20:17	1
Fluoride	0.76		0.50	0.25	mg/L			06/14/18 20:17	1

**Method: 6010B - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	4.6		0.50	0.25	mg/L		06/21/18 14:40	06/27/18 18:00	1

TestAmerica Irvine

# Client Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

**Client Sample ID: MW-2B**

**Lab Sample ID: 440-213600-3**

Date Collected: 06/14/18 09:10

Matrix: Water

Date Received: 06/14/18 15:30

**Method: 6010B - Metals (ICP) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.12		0.020	0.015	mg/L		06/21/18 14:40	06/23/18 19:42	1
Magnesium	93		0.020	0.010	mg/L		06/21/18 14:40	06/23/18 19:42	1
Iron	2.0		0.10	0.050	mg/L		06/21/18 14:40	06/23/18 19:42	1
Sodium	410	B	0.50	0.26	mg/L		06/21/18 14:40	06/27/18 18:00	1
Calcium	170		0.10	0.050	mg/L		06/21/18 14:40	06/23/18 19:42	1
Boron	0.55		0.050	0.025	mg/L		06/21/18 14:40	06/23/18 19:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		20	10	mg/L			06/21/18 13:57	1
Total Dissolved Solids	2700		20	10	mg/L			06/21/18 09:12	1
Ammonia (as N)	3.7		0.50	0.10	mg/L		06/21/18 08:00	06/21/18 09:00	1
Total Sulfide	ND		0.050	0.027	mg/L			06/19/18 12:40	1
Total Organic Carbon	1.8		0.10	0.050	mg/L			06/15/18 09:19	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	340		4.0	4.0	mg/L			06/15/18 07:47	1
Bicarbonate Alkalinity as CaCO3	340		4.0	4.0	mg/L			06/15/18 07:47	1
Carbon Dioxide, Free	19		2.0	2.0	mg/L			06/22/18 15:50	1

**Client Sample ID: DW-4**

**Lab Sample ID: 440-213600-4**

Date Collected: 06/14/18 07:58

Matrix: Water

Date Received: 06/14/18 15:30

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			06/22/18 17:09	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 17:09	1
Acrolein	ND		50	2.5	ug/L			06/19/18 23:20	1
Acrylonitrile	ND		50	1.0	ug/L			06/19/18 23:20	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 17:09	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 17:09	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 17:09	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 17:09	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 17:09	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 17:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/22/18 17:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/22/18 17:09	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 17:09	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 17:09	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 17:09	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 17:09	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 17:09	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 17:09	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/22/18 17:09	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/22/18 17:09	1
2-Hexanone	ND		5.0	2.5	ug/L			06/22/18 17:09	1
Acetone	ND		20	10	ug/L			06/22/18 17:09	1
Acetonitrile	ND		20	10	ug/L			06/22/18 17:09	1
Acrolein	ND		5.0	2.5	ug/L			06/22/18 17:09	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/22/18 17:09	1

TestAmerica Irvine

# Client Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

**Client Sample ID: DW-4**

**Lab Sample ID: 440-213600-4**

**Date Collected: 06/14/18 07:58**

**Matrix: Water**

**Date Received: 06/14/18 15:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			06/22/18 17:09	1
Allyl chloride	ND		1.0	0.50	ug/L			06/22/18 17:09	1
Bromoform	ND		1.0	0.40	ug/L			06/22/18 17:09	1
Bromomethane	ND		0.50	0.25	ug/L			06/22/18 17:09	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/22/18 17:09	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/22/18 17:09	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/22/18 17:09	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/22/18 17:09	1
Chloroethane	ND		1.0	0.40	ug/L			06/22/18 17:09	1
Chloroform	ND		0.50	0.25	ug/L			06/22/18 17:09	1
Chloromethane	ND		0.50	0.25	ug/L			06/22/18 17:09	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 17:09	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 17:09	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/22/18 17:09	1
Dibromomethane	ND		0.50	0.25	ug/L			06/22/18 17:09	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/22/18 17:09	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/22/18 17:09	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 17:09	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/22/18 17:09	1
Iodomethane	ND		2.0	1.0	ug/L			06/22/18 17:09	1
Isobutyl alcohol	ND		25	13	ug/L			06/22/18 17:09	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/22/18 17:09	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/22/18 17:09	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 17:09	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/22/18 17:09	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/22/18 17:09	1
Naphthalene	ND		1.0	0.40	ug/L			06/22/18 17:09	1
o-Xylene	ND		0.50	0.25	ug/L			06/22/18 17:09	1
Propionitrile	ND		20	10	ug/L			06/22/18 17:09	1
Styrene	ND		0.50	0.25	ug/L			06/22/18 17:09	1
t-Butanol	ND		10	5.0	ug/L			06/22/18 17:09	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/22/18 17:09	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/22/18 17:09	1
Toluene	ND		0.50	0.25	ug/L			06/22/18 17:09	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 17:09	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 17:09	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/22/18 17:09	1
Trichloroethene	ND		0.50	0.25	ug/L			06/22/18 17:09	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/22/18 17:09	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/22/18 17:09	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/22/18 17:09	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/22/18 17:09	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/22/18 17:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/22/18 17:09	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	10	TJ	ug/L		7.25			06/22/18 17:09	1
Unknown	3.4	TJ	ug/L		14.88			06/22/18 17:09	1
Unknown	3.9	TJ	ug/L		15.71			06/22/18 17:09	1

TestAmerica Irvine



# Client Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

**Client Sample ID: DW-4**

**Lab Sample ID: 440-213600-4**

Date Collected: 06/14/18 07:58

Matrix: Water

Date Received: 06/14/18 15:30

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
2-Ethylacridine	3.7	T J N	ug/L		16.65	1000147-64-9		06/22/18 17:09	1
Unknown	4.1	T J	ug/L		17.49			06/22/18 17:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 128					06/19/18 23:20	1
4-Bromofluorobenzene (Surr)	94		80 - 120					06/19/18 23:20	1
Toluene-d8 (Surr)	106		80 - 128					06/22/18 17:09	1
4-Bromofluorobenzene (Surr)	95		80 - 120					06/22/18 17:09	1
Dibromofluoromethane (Surr)	100		76 - 132					06/19/18 23:20	1
Dibromofluoromethane (Surr)	105		76 - 132					06/22/18 17:09	1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.94	0.23	ug/L		06/20/18 10:46	06/21/18 15:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	73		30 - 120				06/20/18 10:46	06/21/18 15:50	1

## Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0	0.50	mg/L			06/14/18 22:05	2
Nitrate as N	ND		0.22	0.11	mg/L			06/14/18 22:05	2
Chloride	13		1.0	0.50	mg/L			06/14/18 22:05	2
Fluoride	0.56	J	1.0	0.50	mg/L			06/14/18 22:05	2
Sulfate	1700		50	25	mg/L			06/14/18 22:22	100

## Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	5.0		0.50	0.25	mg/L		06/21/18 14:40	06/27/18 18:02	1
Manganese	0.13		0.020	0.015	mg/L		06/21/18 14:40	06/23/18 19:45	1
Magnesium	130		0.020	0.010	mg/L		06/21/18 14:40	06/23/18 19:45	1
Iron	1.8		0.10	0.050	mg/L		06/21/18 14:40	06/23/18 19:45	1
Sodium	500	B	0.50	0.26	mg/L		06/21/18 14:40	06/27/18 18:02	1
Calcium	200		0.10	0.050	mg/L		06/21/18 14:40	06/23/18 19:45	1
Boron	0.64		0.050	0.025	mg/L		06/21/18 14:40	06/23/18 19:45	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	13	J	20	10	mg/L			06/21/18 13:57	1
Total Dissolved Solids	2900		20	10	mg/L			06/21/18 09:12	1
Ammonia (as N)	4.5		0.50	0.10	mg/L		06/21/18 08:00	06/21/18 09:00	1
Total Sulfide	ND		0.050	0.027	mg/L			06/19/18 12:40	1
Total Organic Carbon	1.8		0.10	0.050	mg/L			06/15/18 09:57	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	340		4.0	4.0	mg/L			06/15/18 07:56	1
Bicarbonate Alkalinity as CaCO3	340		4.0	4.0	mg/L			06/15/18 07:56	1
Carbon Dioxide, Free	18		2.0	2.0	mg/L			06/22/18 15:50	1

TestAmerica Irvine

# Client Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

**Client Sample ID: QCAB**

**Lab Sample ID: 440-213600-5**

Date Collected: 06/14/18 00:01

Matrix: Water

Date Received: 06/14/18 15:30

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			06/22/18 17:36	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 17:36	1
Acrolein	ND		50	2.5	ug/L			06/19/18 22:53	1
Acrylonitrile	ND		50	1.0	ug/L			06/19/18 22:53	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 17:36	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 17:36	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 17:36	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 17:36	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 17:36	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 17:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/22/18 17:36	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/22/18 17:36	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 17:36	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 17:36	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 17:36	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 17:36	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 17:36	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 17:36	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/22/18 17:36	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/22/18 17:36	1
2-Hexanone	ND		5.0	2.5	ug/L			06/22/18 17:36	1
Acetone	ND		20	10	ug/L			06/22/18 17:36	1
Acetonitrile	ND		20	10	ug/L			06/22/18 17:36	1
Acrolein	ND		5.0	2.5	ug/L			06/22/18 17:36	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/22/18 17:36	1
Benzene	ND		0.50	0.25	ug/L			06/22/18 17:36	1
Allyl chloride	ND		1.0	0.50	ug/L			06/22/18 17:36	1
Bromoform	ND		1.0	0.40	ug/L			06/22/18 17:36	1
Bromomethane	ND		0.50	0.25	ug/L			06/22/18 17:36	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/22/18 17:36	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/22/18 17:36	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/22/18 17:36	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/22/18 17:36	1
Chloroethane	ND		1.0	0.40	ug/L			06/22/18 17:36	1
Chloroform	ND		0.50	0.25	ug/L			06/22/18 17:36	1
Chloromethane	ND		0.50	0.25	ug/L			06/22/18 17:36	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 17:36	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 17:36	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/22/18 17:36	1
Dibromomethane	ND		0.50	0.25	ug/L			06/22/18 17:36	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/22/18 17:36	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/22/18 17:36	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 17:36	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/22/18 17:36	1
Iodomethane	ND		2.0	1.0	ug/L			06/22/18 17:36	1
Isobutyl alcohol	ND		25	13	ug/L			06/22/18 17:36	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/22/18 17:36	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/22/18 17:36	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 17:36	1

TestAmerica Irvine

# Client Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

**Client Sample ID: QCAB**  
**Date Collected: 06/14/18 00:01**  
**Date Received: 06/14/18 15:30**

**Lab Sample ID: 440-213600-5**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		2.0	0.88	ug/L			06/22/18 17:36	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/22/18 17:36	1
Naphthalene	ND		1.0	0.40	ug/L			06/22/18 17:36	1
o-Xylene	ND		0.50	0.25	ug/L			06/22/18 17:36	1
Propionitrile	ND		20	10	ug/L			06/22/18 17:36	1
Styrene	ND		0.50	0.25	ug/L			06/22/18 17:36	1
t-Butanol	ND		10	5.0	ug/L			06/22/18 17:36	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/22/18 17:36	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/22/18 17:36	1
Toluene	ND		0.50	0.25	ug/L			06/22/18 17:36	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 17:36	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 17:36	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/22/18 17:36	1
Trichloroethene	ND		0.50	0.25	ug/L			06/22/18 17:36	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/22/18 17:36	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/22/18 17:36	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/22/18 17:36	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/22/18 17:36	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/22/18 17:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/22/18 17:36	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	11	TJ	ug/L		7.25			06/22/18 17:36	1
Unknown	17	TJ	ug/L		16.20			06/22/18 17:36	1
Unknown	3.4	TJ	ug/L		17.40			06/22/18 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	109		80 - 128		06/19/18 22:53	1
4-Bromofluorobenzene (Surr)	96		80 - 120		06/19/18 22:53	1
Toluene-d8 (Surr)	104		80 - 128		06/22/18 17:36	1
4-Bromofluorobenzene (Surr)	96		80 - 120		06/22/18 17:36	1
Dibromofluoromethane (Surr)	99		76 - 132		06/19/18 22:53	1
Dibromofluoromethane (Surr)	102		76 - 132		06/22/18 17:36	1

**Client Sample ID: QCTB**  
**Date Collected: 06/14/18 00:01**  
**Date Received: 06/14/18 15:30**

**Lab Sample ID: 440-213600-6**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			06/22/18 18:02	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 18:02	1
Acrolein	ND		50	2.5	ug/L			06/19/18 22:25	1
Acrylonitrile	ND		50	1.0	ug/L			06/19/18 22:25	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 18:02	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 18:02	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 18:02	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 18:02	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 18:02	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 18:02	1

TestAmerica Irvine

# Client Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

**Client Sample ID: QCTB**

**Lab Sample ID: 440-213600-6**

**Date Collected: 06/14/18 00:01**

**Matrix: Water**

**Date Received: 06/14/18 15:30**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/22/18 18:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/22/18 18:02	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 18:02	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 18:02	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 18:02	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 18:02	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 18:02	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 18:02	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/22/18 18:02	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/22/18 18:02	1
2-Hexanone	ND		5.0	2.5	ug/L			06/22/18 18:02	1
Acetone	ND		20	10	ug/L			06/22/18 18:02	1
Acetonitrile	ND		20	10	ug/L			06/22/18 18:02	1
Acrolein	ND		5.0	2.5	ug/L			06/22/18 18:02	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/22/18 18:02	1
Benzene	ND		0.50	0.25	ug/L			06/22/18 18:02	1
Allyl chloride	ND		1.0	0.50	ug/L			06/22/18 18:02	1
Bromoform	ND		1.0	0.40	ug/L			06/22/18 18:02	1
Bromomethane	ND		0.50	0.25	ug/L			06/22/18 18:02	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/22/18 18:02	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/22/18 18:02	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/22/18 18:02	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/22/18 18:02	1
Chloroethane	ND		1.0	0.40	ug/L			06/22/18 18:02	1
Chloroform	ND		0.50	0.25	ug/L			06/22/18 18:02	1
Chloromethane	ND		0.50	0.25	ug/L			06/22/18 18:02	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 18:02	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 18:02	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/22/18 18:02	1
Dibromomethane	ND		0.50	0.25	ug/L			06/22/18 18:02	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/22/18 18:02	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/22/18 18:02	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 18:02	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/22/18 18:02	1
Iodomethane	ND		2.0	1.0	ug/L			06/22/18 18:02	1
Isobutyl alcohol	ND		25	13	ug/L			06/22/18 18:02	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/22/18 18:02	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/22/18 18:02	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 18:02	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/22/18 18:02	1
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/22/18 18:02	1
Naphthalene	ND		1.0	0.40	ug/L			06/22/18 18:02	1
o-Xylene	ND		0.50	0.25	ug/L			06/22/18 18:02	1
Propionitrile	ND		20	10	ug/L			06/22/18 18:02	1
Styrene	ND		0.50	0.25	ug/L			06/22/18 18:02	1
t-Butanol	ND		10	5.0	ug/L			06/22/18 18:02	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/22/18 18:02	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/22/18 18:02	1
Toluene	ND		0.50	0.25	ug/L			06/22/18 18:02	1

TestAmerica Irvine

# Client Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

**Client Sample ID: QCTB**

**Lab Sample ID: 440-213600-6**

Date Collected: 06/14/18 00:01

Matrix: Water

Date Received: 06/14/18 15:30

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 18:02	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 18:02	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/22/18 18:02	1
Trichloroethene	ND		0.50	0.25	ug/L			06/22/18 18:02	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/22/18 18:02	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/22/18 18:02	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/22/18 18:02	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/22/18 18:02	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/22/18 18:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/22/18 18:02	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	11	TJ	ug/L		7.25			06/22/18 18:02	1
Unknown	2.9	TJ	ug/L		15.14			06/22/18 18:02	1
Unknown	9.9	TJ	ug/L		16.57			06/22/18 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		80 - 128		06/19/18 22:25	1
4-Bromofluorobenzene (Surr)	95		80 - 120		06/19/18 22:25	1
Toluene-d8 (Surr)	103		80 - 128		06/22/18 18:02	1
4-Bromofluorobenzene (Surr)	96		80 - 120		06/22/18 18:02	1
Dibromofluoromethane (Surr)	97		76 - 132		06/19/18 22:25	1
Dibromofluoromethane (Surr)	108		76 - 132		06/22/18 18:02	1

# Method Summary

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL IRV
300.0	Anions, Ion Chromatography	MCAWW	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
410.4	COD	MCAWW	TAL IRV
SM 2320B	Alkalinity	SM	TAL IRV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
SM 4500 CO2 C	Free Carbon Dioxide	SM	TAL IRV
SM 4500 NH3 D	Ammonia	SM	TAL IRV
SM 4500 S2 D	Sulfide, Total	SM	TAL IRV
SM 5310C	TOC	SM	TAL IRV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
SM 4500 NH3 B	Distillation, Ammonia	SM	TAL IRV

#### Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

# Lab Chronicle

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

**Client Sample ID: PZ-4**

Date Collected: 06/14/18 10:30

Date Received: 06/14/18 15:30

**Lab Sample ID: 440-213600-1**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	483613	06/22/18 15:50	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	482990	06/20/18 00:43	WK	TAL IRV
Total/NA	Prep	3520C			1070 mL	1.0 mL	483148	06/20/18 10:46	AP	TAL IRV
Total/NA	Analysis	8270C		1			483345	06/21/18 14:42	ANW	TAL IRV
Total/NA	Analysis	300.0		1	5 mL	1.0 mL	482112	06/14/18 19:09	NTN	TAL IRV
Total/NA	Analysis	300.0		1	5 mL	1.0 mL	482113	06/14/18 19:09	NTN	TAL IRV
Total/NA	Analysis	300.0		20			482113	06/14/18 19:25	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	483476	06/21/18 14:40	JL	TAL IRV
Total Recoverable	Analysis	6010B		1			484019	06/23/18 19:27	TJW	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	483476	06/21/18 14:40	JL	TAL IRV
Total Recoverable	Analysis	6010B		1			484640	06/27/18 17:47	P1R	TAL IRV
Total/NA	Analysis	410.4		1	2.5 mL	2.5 mL	483463	06/21/18 13:57	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			482326	06/15/18 07:24	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	483384	06/21/18 09:12	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	483763	06/22/18 15:50	XL	TAL IRV
Total/NA	Prep	SM 4500 NH3 B			50 mL	50 mL	482836	06/19/18 04:30	YZ	TAL IRV
Total/NA	Analysis	SM 4500 NH3 D		1			482861	06/19/18 08:00	YZ	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	482933	06/19/18 12:40	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	482361	06/15/18 08:55	YZ	TAL IRV

**Client Sample ID: MW-2A**

Date Collected: 06/14/18 10:35

Date Received: 06/14/18 15:30

**Lab Sample ID: 440-213600-2**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	483613	06/22/18 16:16	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	482990	06/20/18 00:15	WK	TAL IRV
Total/NA	Prep	3520C			1070 mL	1.0 mL	483148	06/20/18 10:46	AP	TAL IRV
Total/NA	Analysis	8270C		1			483345	06/21/18 15:05	ANW	TAL IRV
Total/NA	Analysis	300.0		1	5 mL	1.0 mL	482112	06/14/18 19:42	NTN	TAL IRV
Total/NA	Analysis	300.0		1	5 mL	1.0 mL	482113	06/14/18 19:42	NTN	TAL IRV
Total/NA	Analysis	300.0		50			482113	06/14/18 20:00	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	483476	06/21/18 14:40	JL	TAL IRV
Total Recoverable	Analysis	6010B		1			484019	06/23/18 19:40	TJW	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	483476	06/21/18 14:40	JL	TAL IRV
Total Recoverable	Analysis	6010B		1			484640	06/27/18 17:57	P1R	TAL IRV
Total/NA	Analysis	410.4		1	2.5 mL	2.5 mL	483463	06/21/18 13:57	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			482326	06/15/18 07:36	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	483384	06/21/18 09:12	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	483763	06/22/18 15:50	XL	TAL IRV
Total/NA	Prep	SM 4500 NH3 B			50 mL	50 mL	482836	06/19/18 04:30	YZ	TAL IRV

TestAmerica Irvine

# Lab Chronicle

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

## Client Sample ID: MW-2A

Date Collected: 06/14/18 10:35

Date Received: 06/14/18 15:30

## Lab Sample ID: 440-213600-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NH3 D		1			482861	06/19/18 08:00	YZ	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	482933	06/19/18 12:40	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	482361	06/15/18 09:07	YZ	TAL IRV

## Client Sample ID: MW-2B

Date Collected: 06/14/18 09:10

Date Received: 06/14/18 15:30

## Lab Sample ID: 440-213600-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	483613	06/22/18 16:43	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	482990	06/19/18 23:48	WK	TAL IRV
Total/NA	Prep	3520C			1005 mL	1.0 mL	483148	06/20/18 10:46	AP	TAL IRV
Total/NA	Analysis	8270C		1			483345	06/21/18 15:27	ANW	TAL IRV
Total/NA	Analysis	300.0		1	5 mL	1.0 mL	482112	06/14/18 20:17	NTN	TAL IRV
Total/NA	Analysis	300.0	DL	1	5 mL	1.0 mL	482113	06/14/18 20:17	NTN	TAL IRV
Total/NA	Analysis	300.0		50			482113	06/14/18 21:08	NTN	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	483476	06/21/18 14:40	JL	TAL IRV
Total Recoverable	Analysis	6010B		1			484019	06/23/18 19:42	TJW	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	483476	06/21/18 14:40	JL	TAL IRV
Total Recoverable	Analysis	6010B		1			484640	06/27/18 18:00	P1R	TAL IRV
Total/NA	Analysis	410.4		1	2.5 mL	2.5 mL	483463	06/21/18 13:57	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			482326	06/15/18 07:47	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	483384	06/21/18 09:12	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	483763	06/22/18 15:50	XL	TAL IRV
Total/NA	Prep	SM 4500 NH3 B			50 mL	50 mL	483365	06/21/18 08:00	YZ	TAL IRV
Total/NA	Analysis	SM 4500 NH3 D		1			483397	06/21/18 09:00	YZ	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	482933	06/19/18 12:40	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	482361	06/15/18 09:19	YZ	TAL IRV

## Client Sample ID: DW-4

Date Collected: 06/14/18 07:58

Date Received: 06/14/18 15:30

## Lab Sample ID: 440-213600-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	483613	06/22/18 17:09	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	482990	06/19/18 23:20	WK	TAL IRV
Total/NA	Prep	3520C			1065 mL	1.0 mL	483148	06/20/18 10:46	AP	TAL IRV
Total/NA	Analysis	8270C		1			483345	06/21/18 15:50	ANW	TAL IRV
Total/NA	Analysis	300.0		2			482112	06/14/18 22:05	NTN	TAL IRV
Total/NA	Analysis	300.0		2			482113	06/14/18 22:05	NTN	TAL IRV
Total/NA	Analysis	300.0		100			482113	06/14/18 22:22	NTN	TAL IRV

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# Lab Chronicle

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

## Client Sample ID: DW-4

Date Collected: 06/14/18 07:58

Date Received: 06/14/18 15:30

## Lab Sample ID: 440-213600-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	483476	06/21/18 14:40	JL	TAL IRV
Total Recoverable	Analysis	6010B		1			484019	06/23/18 19:45	TJW	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	483476	06/21/18 14:40	JL	TAL IRV
Total Recoverable	Analysis	6010B		1			484640	06/27/18 18:02	P1R	TAL IRV
Total/NA	Analysis	410.4		1	2.5 mL	2.5 mL	483463	06/21/18 13:57	KYP	TAL IRV
Total/NA	Analysis	SM 2320B		1			482326	06/15/18 07:56	YZ	TAL IRV
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	483384	06/21/18 09:12	XL	TAL IRV
Total/NA	Analysis	SM 4500 CO2 C		1	25 mL	25 mL	483763	06/22/18 15:50	XL	TAL IRV
Total/NA	Prep	SM 4500 NH3 B			50 mL	50 mL	483365	06/21/18 08:00	YZ	TAL IRV
Total/NA	Analysis	SM 4500 NH3 D		1			483397	06/21/18 09:00	YZ	TAL IRV
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	482933	06/19/18 12:40	KMY	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	482361	06/15/18 09:57	YZ	TAL IRV

## Client Sample ID: QCAB

Date Collected: 06/14/18 00:01

Date Received: 06/14/18 15:30

## Lab Sample ID: 440-213600-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	483613	06/22/18 17:36	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	482990	06/19/18 22:53	WK	TAL IRV

## Client Sample ID: QCTB

Date Collected: 06/14/18 00:01

Date Received: 06/14/18 15:30

## Lab Sample ID: 440-213600-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	483613	06/22/18 18:02	RM	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	482990	06/19/18 22:25	WK	TAL IRV

### Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

# QC Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 440-482990/4**

**Matrix: Water**

**Analysis Batch: 482990**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acrolein	ND		50	2.5	ug/L			06/19/18 17:50	1
Acrylonitrile	ND		50	1.0	ug/L			06/19/18 17:50	1
Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
Toluene-d8 (Surr)	106		80 - 128		06/19/18 17:50	1			
4-Bromofluorobenzene (Surr)	95		80 - 120		06/19/18 17:50	1			
Dibromofluoromethane (Surr)	98		76 - 132		06/19/18 17:50	1			

**Lab Sample ID: LCS 440-482990/5**

**Matrix: Water**

**Analysis Batch: 482990**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Acrolein	25.0	23.3	J	ug/L		93	10 - 145
Acrylonitrile	250	313		ug/L		125	48 - 140
Surrogate	LCS LCS		Limits				
	%Recovery	Qualifier					
Toluene-d8 (Surr)	101		80 - 128				
4-Bromofluorobenzene (Surr)	93		80 - 120				
Dibromofluoromethane (Surr)	99		76 - 132				

**Lab Sample ID: 440-213518-D-4 MS**

**Matrix: Water**

**Analysis Batch: 482990**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Acrolein	ND		25.0	18.3	J	ug/L		73	10 - 147
Acrylonitrile	ND		250	279		ug/L		112	38 - 144
Surrogate	MS MS		Limits						
	%Recovery	Qualifier							
Toluene-d8 (Surr)	100		80 - 128						
4-Bromofluorobenzene (Surr)	91		80 - 120						
Dibromofluoromethane (Surr)	101		76 - 132						

**Lab Sample ID: 440-213518-D-4 MSD**

**Matrix: Water**

**Analysis Batch: 482990**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	Limit
				Result	Qualifier						
Acrolein	ND		25.0	19.0	J	ug/L		76	10 - 147	4	40
Acrylonitrile	ND		250	291		ug/L		116	38 - 144	4	40
Surrogate	MSD MSD		Limits								
	%Recovery	Qualifier									
Toluene-d8 (Surr)	100		80 - 128								
4-Bromofluorobenzene (Surr)	96		80 - 120								
Dibromofluoromethane (Surr)	99		76 - 132								

TestAmerica Irvine

# QC Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 440-483613/4**

**Matrix: Water**

**Analysis Batch: 483613**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			06/22/18 08:57	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			06/22/18 08:57	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			06/22/18 08:57	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			06/22/18 08:57	1
2-Chloro-1,3-butadiene	ND		1.0	0.50	ug/L			06/22/18 08:57	1
2-Hexanone	ND		5.0	2.5	ug/L			06/22/18 08:57	1
Acetone	ND		20	10	ug/L			06/22/18 08:57	1
Acetonitrile	ND		20	10	ug/L			06/22/18 08:57	1
Acrolein	ND		5.0	2.5	ug/L			06/22/18 08:57	1
Acrylonitrile	ND		2.0	1.0	ug/L			06/22/18 08:57	1
Benzene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Allyl chloride	ND		1.0	0.50	ug/L			06/22/18 08:57	1
Bromoform	ND		1.0	0.40	ug/L			06/22/18 08:57	1
Bromomethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Carbon disulfide	ND		1.0	0.50	ug/L			06/22/18 08:57	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Chlorobenzene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Bromochloromethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Chloroethane	ND		1.0	0.40	ug/L			06/22/18 08:57	1
Chloroform	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Chloromethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Dibromochloromethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Dibromomethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Bromodichloromethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			06/22/18 08:57	1
Ethyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 08:57	1
Ethylbenzene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Iodomethane	ND		2.0	1.0	ug/L			06/22/18 08:57	1
Isobutyl alcohol	ND		25	13	ug/L			06/22/18 08:57	1
m,p-Xylene	ND		1.0	0.50	ug/L			06/22/18 08:57	1
Methylacrylonitrile	ND		10	2.5	ug/L			06/22/18 08:57	1
Methyl methacrylate	ND		2.0	1.0	ug/L			06/22/18 08:57	1
Methylene Chloride	ND		2.0	0.88	ug/L			06/22/18 08:57	1

TestAmerica Irvine

# QC Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 440-483613/4**

**Matrix: Water**

**Analysis Batch: 483613**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Naphthalene	ND		1.0	0.40	ug/L			06/22/18 08:57	1
o-Xylene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Propionitrile	ND		20	10	ug/L			06/22/18 08:57	1
Styrene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
t-Butanol	ND		10	5.0	ug/L			06/22/18 08:57	1
Tetrachloroethene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Tetrahydrofuran	ND		10	5.0	ug/L			06/22/18 08:57	1
Toluene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
trans-1,4-Dichloro-2-butene	ND		5.0	2.5	ug/L			06/22/18 08:57	1
Trichloroethene	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			06/22/18 08:57	1
Vinyl acetate	ND		4.0	2.0	ug/L			06/22/18 08:57	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/22/18 08:57	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			06/22/18 08:57	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			06/22/18 08:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.5	ug/L			06/22/18 08:57	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Unknown	5.28	T J	ug/L		15.72			06/22/18 08:57	1
Unknown	10.8	T J	ug/L		17.47			06/22/18 08:57	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	104		80 - 128		06/22/18 08:57	1
4-Bromofluorobenzene (Surr)	97		80 - 120		06/22/18 08:57	1
Dibromofluoromethane (Surr)	103		76 - 132		06/22/18 08:57	1

**Lab Sample ID: LCS 440-483613/5**

**Matrix: Water**

**Analysis Batch: 483613**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	26.5		ug/L		106	60 - 141
1,1,1-Trichloroethane	25.0	26.4		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.7		ug/L		95	63 - 130
1,1,2-Trichloroethane	25.0	25.6		ug/L		102	70 - 130
1,1-Dichloroethane	25.0	25.6		ug/L		102	64 - 130
1,1-Dichloroethene	25.0	25.1		ug/L		100	70 - 130
1,1-Dichloropropene	25.0	25.6		ug/L		102	70 - 130
1,2,4-Trichlorobenzene	25.0	28.3		ug/L		113	60 - 140
1,2-Dibromo-3-Chloropropane	25.0	23.8		ug/L		95	52 - 140
1,2-Dichlorobenzene	25.0	27.3		ug/L		109	70 - 130
1,2-Dichloroethane	25.0	26.4		ug/L		106	57 - 138
1,2-Dichloropropane	25.0	25.2		ug/L		101	67 - 130

TestAmerica Irvine

# QC Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 440-483613/5**

**Matrix: Water**

**Analysis Batch: 483613**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	25.0	26.6		ug/L		107	70 - 130
1,3-Dichloropropane	25.0	24.3		ug/L		97	70 - 130
1,4-Dichlorobenzene	25.0	26.6		ug/L		107	70 - 130
2,2-Dichloropropane	25.0	27.0		ug/L		108	68 - 141
2-Hexanone	25.0	26.6		ug/L		106	10 - 150
Acetone	25.0	26.0		ug/L		104	10 - 150
Acetonitrile	250	245		ug/L		98	49 - 142
Acrolein	25.0	14.5		ug/L		58	10 - 145
Benzene	25.0	25.7		ug/L		103	68 - 130
Bromoform	25.0	27.7		ug/L		111	60 - 148
Bromomethane	25.0	24.4		ug/L		97	64 - 139
Carbon disulfide	25.0	24.8		ug/L		99	52 - 136
Carbon tetrachloride	25.0	27.2		ug/L		109	60 - 150
Chlorobenzene	25.0	25.7		ug/L		103	70 - 130
Bromochloromethane	25.0	26.7		ug/L		107	70 - 130
Chloroethane	25.0	23.8		ug/L		95	64 - 135
Chloroform	25.0	26.1		ug/L		104	70 - 130
Chloromethane	25.0	23.9		ug/L		96	47 - 140
cis-1,2-Dichloroethene	25.0	26.5		ug/L		106	70 - 133
cis-1,3-Dichloropropene	25.0	26.4		ug/L		106	70 - 133
Dibromochloromethane	25.0	26.8		ug/L		107	69 - 145
Dibromomethane	25.0	25.7		ug/L		103	70 - 130
Bromodichloromethane	25.0	25.9		ug/L		103	70 - 132
Dichlorodifluoromethane	25.0	21.1		ug/L		84	29 - 150
Ethylbenzene	25.0	26.3		ug/L		105	70 - 130
m,p-Xylene	25.0	25.5		ug/L		102	70 - 130
Methylene Chloride	25.0	23.0		ug/L		92	52 - 130
Methyl tert-butyl ether	25.0	25.3		ug/L		101	63 - 131
Naphthalene	25.0	27.1		ug/L		109	60 - 140
o-Xylene	25.0	25.5		ug/L		102	70 - 130
Styrene	25.0	25.7		ug/L		103	70 - 134
t-Butanol	250	275		ug/L		110	70 - 130
Tetrachloroethene	25.0	26.8		ug/L		107	70 - 130
Toluene	25.0	26.3		ug/L		105	70 - 130
trans-1,2-Dichloroethene	25.0	26.3		ug/L		105	70 - 130
trans-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 132
Trichloroethene	25.0	26.1		ug/L		104	70 - 130
Trichlorofluoromethane	25.0	25.0		ug/L		100	60 - 150
Vinyl acetate	25.0	25.0		ug/L		100	48 - 140
Vinyl chloride	25.0	21.8		ug/L		87	59 - 133
1,2-Dibromoethane (EDB)	25.0	25.4		ug/L		102	70 - 130
2-Butanone (MEK)	25.0	22.7		ug/L		91	44 - 150
4-Methyl-2-pentanone (MIBK)	25.0	25.7		ug/L		103	59 - 149

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	100		80 - 128
4-Bromofluorobenzene (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	103		76 - 132

TestAmerica Irvine

# QC Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

**Lab Sample ID: 440-213518-A-1 MS**

**Matrix: Water**

**Analysis Batch: 483613**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2,3-Trichloropropane	ND		25.0	25.2		ug/L		101	60 - 130
1,1,1,2-Tetrachloroethane	ND		25.0	26.3		ug/L		105	60 - 149
1,1,1-Trichloroethane	ND		25.0	26.2		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	ND		25.0	23.3		ug/L		93	63 - 130
1,1,2-Trichloroethane	ND		25.0	24.8		ug/L		99	70 - 130
1,1-Dichloroethane	ND		25.0	24.8		ug/L		99	65 - 130
1,1-Dichloroethene	ND		25.0	24.1		ug/L		96	70 - 130
1,1-Dichloropropene	ND		25.0	25.2		ug/L		101	64 - 130
1,2,4-Trichlorobenzene	ND		25.0	28.1		ug/L		112	60 - 140
1,2-Dibromo-3-Chloropropane	ND		25.0	23.6		ug/L		95	48 - 140
1,2-Dichlorobenzene	ND		25.0	26.1		ug/L		104	70 - 130
1,2-Dichloroethane	ND		25.0	26.0		ug/L		104	56 - 146
1,2-Dichloropropane	ND		25.0	24.4		ug/L		98	69 - 130
1,3-Dichlorobenzene	ND		25.0	25.2		ug/L		101	70 - 130
1,3-Dichloropropane	ND		25.0	24.4		ug/L		97	70 - 130
1,4-Dichlorobenzene	ND		25.0	25.3		ug/L		101	70 - 130
2,2-Dichloropropane	ND		25.0	26.0		ug/L		104	69 - 138
2-Hexanone	ND		25.0	26.9		ug/L		108	10 - 150
Acetone	ND		25.0	24.7		ug/L		99	10 - 150
Acetonitrile	ND		250	256		ug/L		102	37 - 140
Acrolein	ND		25.0	15.1		ug/L		60	10 - 147
Benzene	ND		25.0	25.2		ug/L		101	66 - 130
Bromoform	ND		25.0	27.7		ug/L		111	59 - 150
Bromomethane	ND		25.0	23.8		ug/L		95	62 - 131
Carbon disulfide	ND		25.0	23.3		ug/L		93	49 - 140
Carbon tetrachloride	ND		25.0	26.4		ug/L		106	60 - 150
Chlorobenzene	ND		25.0	25.6		ug/L		102	70 - 130
Bromochloromethane	ND		25.0	26.3		ug/L		105	70 - 130
Chloroethane	ND		25.0	23.2		ug/L		93	68 - 130
Chloroform	ND		25.0	25.9		ug/L		103	70 - 130
Chloromethane	ND		25.0	22.7		ug/L		91	39 - 144
cis-1,2-Dichloroethene	ND		25.0	25.5		ug/L		102	70 - 130
cis-1,3-Dichloropropene	ND		25.0	25.7		ug/L		103	70 - 133
Dibromochloromethane	ND		25.0	26.0		ug/L		104	70 - 148
Dibromomethane	ND		25.0	25.2		ug/L		101	70 - 130
Bromodichloromethane	ND		25.0	25.9		ug/L		104	70 - 138
Dichlorodifluoromethane	ND		25.0	20.6		ug/L		82	25 - 142
Ethylbenzene	ND		25.0	25.6		ug/L		102	70 - 130
m,p-Xylene	ND		25.0	24.6		ug/L		98	70 - 133
Methylene Chloride	ND		25.0	22.8		ug/L		91	52 - 130
Methyl tert-butyl ether	ND		25.0	25.9		ug/L		104	70 - 130
Naphthalene	ND		25.0	26.6		ug/L		106	60 - 140
o-Xylene	ND		25.0	24.7		ug/L		99	70 - 133
Styrene	ND		25.0	25.6		ug/L		102	29 - 150
t-Butanol	ND		250	266		ug/L		106	70 - 130
Tetrachloroethene	ND		25.0	26.0		ug/L		104	70 - 137
Toluene	ND		25.0	25.9		ug/L		104	70 - 130
trans-1,2-Dichloroethene	ND		25.0	25.8		ug/L		103	70 - 130
trans-1,3-Dichloropropene	ND		25.0	25.4		ug/L		102	70 - 138
Trichloroethene	ND		25.0	25.2		ug/L		101	70 - 130

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# QC Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 440-213518-A-1 MS**

**Matrix: Water**

**Analysis Batch: 483613**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	ND		25.0	24.7		ug/L		99	60 - 150
Vinyl acetate	ND		25.0	24.8		ug/L		99	23 - 150
Vinyl chloride	ND		25.0	21.3		ug/L		85	50 - 137
1,2-Dibromoethane (EDB)	ND		25.0	25.9		ug/L		104	70 - 131
2-Butanone (MEK)	ND		25.0	24.1		ug/L		97	48 - 140
4-Methyl-2-pentanone (MIBK)	ND		25.0	26.7		ug/L		107	52 - 150

Surrogate	MS %Recovery	MS Qualifier	MS Limits
Toluene-d8 (Surr)	101		80 - 128
4-Bromofluorobenzene (Surr)	92		80 - 120
Dibromofluoromethane (Surr)	104		76 - 132

**Lab Sample ID: 440-213518-A-1 MSD**

**Matrix: Water**

**Analysis Batch: 483613**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		25.0	23.3		ug/L		93	60 - 130	8	30
1,1,1,2-Tetrachloroethane	ND		25.0	26.1		ug/L		105	60 - 149	1	20
1,1,1-Trichloroethane	ND		25.0	25.8		ug/L		103	70 - 130	2	20
1,1,2,2-Tetrachloroethane	ND		25.0	21.9		ug/L		88	63 - 130	6	30
1,1,2-Trichloroethane	ND		25.0	24.6		ug/L		98	70 - 130	1	25
1,1-Dichloroethane	ND		25.0	24.7		ug/L		99	65 - 130	1	20
1,1-Dichloroethene	ND		25.0	23.9		ug/L		96	70 - 130	0	20
1,1-Dichloropropene	ND		25.0	25.1		ug/L		101	64 - 130	0	20
1,2,4-Trichlorobenzene	ND		25.0	27.1		ug/L		108	60 - 140	4	20
1,2-Dibromo-3-Chloropropane	ND		25.0	21.6		ug/L		86	48 - 140	9	30
1,2-Dichlorobenzene	ND		25.0	25.0		ug/L		100	70 - 130	4	20
1,2-Dichloroethane	ND		25.0	25.2		ug/L		101	56 - 146	3	20
1,2-Dichloropropane	ND		25.0	24.6		ug/L		98	69 - 130	0	20
1,3-Dichlorobenzene	ND		25.0	24.7		ug/L		99	70 - 130	2	20
1,3-Dichloropropane	ND		25.0	23.7		ug/L		95	70 - 130	3	25
1,4-Dichlorobenzene	ND		25.0	24.6		ug/L		99	70 - 130	3	20
2,2-Dichloropropane	ND		25.0	26.0		ug/L		104	69 - 138	0	25
2-Hexanone	ND		25.0	25.4		ug/L		102	10 - 150	6	35
Acetone	ND		25.0	23.4		ug/L		94	10 - 150	5	35
Acetonitrile	ND		250	235		ug/L		94	37 - 140	8	40
Acrolein	ND		25.0	14.6		ug/L		59	10 - 147	3	40
Benzene	ND		25.0	25.0		ug/L		100	66 - 130	1	20
Bromoform	ND		25.0	26.6		ug/L		106	59 - 150	4	25
Bromomethane	ND		25.0	23.2		ug/L		93	62 - 131	3	25
Carbon disulfide	ND		25.0	23.4		ug/L		94	49 - 140	0	20
Carbon tetrachloride	ND		25.0	26.1		ug/L		104	60 - 150	1	25
Chlorobenzene	ND		25.0	25.0		ug/L		100	70 - 130	2	20
Bromochloromethane	ND		25.0	25.9		ug/L		104	70 - 130	2	25
Chloroethane	ND		25.0	22.8		ug/L		91	68 - 130	2	25
Chloroform	ND		25.0	25.0		ug/L		100	70 - 130	3	20
Chloromethane	ND		25.0	22.0		ug/L		88	39 - 144	3	25

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# QC Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-213518-A-1 MSD

Matrix: Water

Analysis Batch: 483613

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
cis-1,2-Dichloroethene	ND		25.0	25.4		ug/L		102	70 - 130	0	20
cis-1,3-Dichloropropene	ND		25.0	25.1		ug/L		100	70 - 133	2	20
Dibromochloromethane	ND		25.0	25.8		ug/L		103	70 - 148	1	25
Dibromomethane	ND		25.0	24.3		ug/L		97	70 - 130	4	25
Bromodichloromethane	ND		25.0	25.4		ug/L		102	70 - 138	2	20
Dichlorodifluoromethane	ND		25.0	21.1		ug/L		84	25 - 142	2	30
Ethylbenzene	ND		25.0	25.4		ug/L		102	70 - 130	1	20
m,p-Xylene	ND		25.0	24.4		ug/L		98	70 - 133	1	25
Methylene Chloride	ND		25.0	22.3		ug/L		89	52 - 130	2	20
Methyl tert-butyl ether	ND		25.0	25.3		ug/L		101	70 - 130	3	25
Naphthalene	ND		25.0	25.1		ug/L		100	60 - 140	6	30
o-Xylene	ND		25.0	24.0		ug/L		96	70 - 133	3	20
Styrene	ND		25.0	25.0		ug/L		100	29 - 150	2	35
t-Butanol	ND		250	256		ug/L		102	70 - 130	4	25
Tetrachloroethene	ND		25.0	25.8		ug/L		103	70 - 137	1	20
Toluene	ND		25.0	25.8		ug/L		103	70 - 130	1	20
trans-1,2-Dichloroethene	ND		25.0	24.7		ug/L		99	70 - 130	4	20
trans-1,3-Dichloropropene	ND		25.0	25.1		ug/L		101	70 - 138	1	25
Trichloroethene	ND		25.0	25.4		ug/L		102	70 - 130	1	20
Trichlorofluoromethane	ND		25.0	24.5		ug/L		98	60 - 150	1	25
Vinyl acetate	ND		25.0	24.8		ug/L		99	23 - 150	0	30
Vinyl chloride	ND		25.0	20.9		ug/L		84	50 - 137	2	30
1,2-Dibromoethane (EDB)	ND		25.0	24.8		ug/L		99	70 - 131	4	25
2-Butanone (MEK)	ND		25.0	22.4		ug/L		90	48 - 140	7	40
4-Methyl-2-pentanone (MIBK)	ND		25.0	24.6		ug/L		98	52 - 150	8	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	101		80 - 128
4-Bromofluorobenzene (Surr)	92		80 - 120
Dibromofluoromethane (Surr)	104		76 - 132

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-483148/1-A

Matrix: Water

Analysis Batch: 483345

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 483148

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dioxane	ND		1.0	0.26	ug/L		06/20/18 10:46	06/21/18 13:34	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,4-Dioxane-d8 (Surr)	72		30 - 120	06/20/18 10:46	06/21/18 13:34	1

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# QC Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID:** LCS 440-483148/2-A  
**Matrix:** Water  
**Analysis Batch:** 483345

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 483148

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.04	1.43		ug/L		70	35 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	68		30 - 120				

**Lab Sample ID:** LCSD 440-483148/3-A  
**Matrix:** Water  
**Analysis Batch:** 483345

**Client Sample ID:** Lab Control Sample Dup  
**Prep Type:** Total/NA  
**Prep Batch:** 483148

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	2.04	1.52		ug/L		75	35 - 120	7	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,4-Dioxane-d8 (Surr)	70		30 - 120						

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID:** MB 440-482112/6  
**Matrix:** Water  
**Analysis Batch:** 482112

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.11	0.055	mg/L			06/14/18 11:55	1

**Lab Sample ID:** LCS 440-482112/5  
**Matrix:** Water  
**Analysis Batch:** 482112

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	1.13	1.11		mg/L		98	90 - 110

**Lab Sample ID:** 440-213600-3 MS  
**Matrix:** Water  
**Analysis Batch:** 482112

**Client Sample ID:** MW-2B  
**Prep Type:** Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	ND		1.13	1.08		mg/L		95	80 - 120

**Lab Sample ID:** 440-213600-3 MSD  
**Matrix:** Water  
**Analysis Batch:** 482112

**Client Sample ID:** MW-2B  
**Prep Type:** Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	ND		1.13	1.09		mg/L		96	80 - 120	1	20

TestAmerica Irvine

# QC Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: MB 440-482113/6**

**Matrix: Water**

**Analysis Batch: 482113**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.50	0.25	mg/L			06/14/18 11:55	1
Chloride	ND		0.50	0.25	mg/L			06/14/18 11:55	1
Fluoride	ND		0.50	0.25	mg/L			06/14/18 11:55	1
Sulfate	ND		0.50	0.25	mg/L			06/14/18 11:55	1

**Lab Sample ID: LCS 440-482113/5**

**Matrix: Water**

**Analysis Batch: 482113**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	5.00	4.77		mg/L		95	90 - 110
Chloride	5.00	4.69		mg/L		94	90 - 110
Fluoride	5.00	4.71		mg/L		94	90 - 110
Sulfate	5.00	5.00		mg/L		100	90 - 110

## Method: 300.0 - Anions, Ion Chromatography - DL

**Lab Sample ID: 440-213600-3 MS**

**Matrix: Water**

**Analysis Batch: 482113**

**Client Sample ID: MW-2B**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide - DL	0.33	J	5.00	4.85		mg/L		90	80 - 120
Chloride - DL	14		5.00	19.4		mg/L		101	80 - 120
Fluoride - DL	0.76		5.00	5.74		mg/L		99	80 - 120
Sulfate - DL	2200	E	5.00	2200	E 4	mg/L		-89	80 - 120

**Lab Sample ID: 440-213600-3 MSD**

**Matrix: Water**

**Analysis Batch: 482113**

**Client Sample ID: MW-2B**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide - DL	0.33	J	5.00	4.84		mg/L		90	80 - 120	0	20
Chloride - DL	14		5.00	19.5		mg/L		103	80 - 120	0	20
Fluoride - DL	0.76		5.00	5.77		mg/L		100	80 - 120	1	20
Sulfate - DL	2200	E	5.00	2200	E 4	mg/L		-55	80 - 120	0	20

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 440-483476/1-A**

**Matrix: Water**

**Analysis Batch: 484019**

**Client Sample ID: Method Blank**

**Prep Type: Total Recoverable**

**Prep Batch: 483476**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		0.020	0.015	mg/L		06/21/18 14:40	06/23/18 19:22	1
Magnesium	ND		0.020	0.010	mg/L		06/21/18 14:40	06/23/18 19:22	1
Iron	ND		0.10	0.050	mg/L		06/21/18 14:40	06/23/18 19:22	1
Calcium	ND		0.10	0.050	mg/L		06/21/18 14:40	06/23/18 19:22	1

TestAmerica Irvine

# QC Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

## Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 440-483476/1-A  
Matrix: Water  
Analysis Batch: 484019

Client Sample ID: Method Blank  
Prep Type: Total Recoverable  
Prep Batch: 483476

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.050	0.025	mg/L		06/21/18 14:40	06/23/18 19:22	1

Lab Sample ID: MB 440-483476/1-A  
Matrix: Water  
Analysis Batch: 484640

Client Sample ID: Method Blank  
Prep Type: Total Recoverable  
Prep Batch: 483476

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		0.50	0.25	mg/L		06/21/18 14:40	06/27/18 17:42	1
Sodium	0.321	J	0.50	0.26	mg/L		06/21/18 14:40	06/27/18 17:42	1

Lab Sample ID: LCS 440-483476/2-A  
Matrix: Water  
Analysis Batch: 484019

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 483476

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	1.00	0.963		mg/L		96	80 - 120
Magnesium	5.00	4.45		mg/L		89	80 - 120
Iron	1.00	0.988		mg/L		99	80 - 120
Calcium	5.00	4.87		mg/L		97	80 - 120
Boron	1.00	0.965		mg/L		96	80 - 120

Lab Sample ID: LCS 440-483476/2-A  
Matrix: Water  
Analysis Batch: 484640

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 483476

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	10.0	10.2		mg/L		102	80 - 120
Sodium	10.0	10.5		mg/L		105	80 - 120

Lab Sample ID: 440-213600-1 MS  
Matrix: Water  
Analysis Batch: 484019

Client Sample ID: PZ-4  
Prep Type: Total Recoverable  
Prep Batch: 483476

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.10		1.00	1.01		mg/L		91	75 - 125
Magnesium	64		5.00	66.3	4	mg/L		43	75 - 125
Iron	0.80		1.00	1.65		mg/L		85	75 - 125
Calcium	110		5.00	116	4	mg/L		40	75 - 125
Boron	0.19		1.00	1.15		mg/L		96	75 - 125

Lab Sample ID: 440-213600-1 MS  
Matrix: Water  
Analysis Batch: 484640

Client Sample ID: PZ-4  
Prep Type: Total Recoverable  
Prep Batch: 483476

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	4.2		10.0	14.6		mg/L		103	75 - 125
Sodium	130	B	10.0	135	4	mg/L		85	75 - 125

# QC Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

## Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-213600-1 MSD

Matrix: Water

Analysis Batch: 484019

Client Sample ID: PZ-4

Prep Type: Total Recoverable

Prep Batch: 483476

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Manganese	0.10		1.00	1.06		mg/L		96	75 - 125	5	20
Magnesium	64		5.00	68.9	4	mg/L		95	75 - 125	4	20
Iron	0.80		1.00	1.73		mg/L		93	75 - 125	4	20
Calcium	110		5.00	120	4	mg/L		130	75 - 125	4	20
Boron	0.19		1.00	1.20		mg/L		101	75 - 125	5	20

Lab Sample ID: 440-213600-1 MSD

Matrix: Water

Analysis Batch: 484640

Client Sample ID: PZ-4

Prep Type: Total Recoverable

Prep Batch: 483476

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Potassium	4.2		10.0	15.5		mg/L		113	75 - 125	6	20
Sodium	130	B	10.0	142	4	mg/L		156	75 - 125	5	20

## Method: 410.4 - COD

Lab Sample ID: MB 440-483463/3

Matrix: Water

Analysis Batch: 483463

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chemical Oxygen Demand	ND		20	10	mg/L			06/21/18 13:55	1

Lab Sample ID: LCS 440-483463/4

Matrix: Water

Analysis Batch: 483463

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Chemical Oxygen Demand	200	199		mg/L		99	90 - 110

Lab Sample ID: 440-213600-1 MS

Matrix: Water

Analysis Batch: 483463

Client Sample ID: PZ-4

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Chemical Oxygen Demand	ND		200	211		mg/L		106	70 - 120

Lab Sample ID: 440-213600-1 MSD

Matrix: Water

Analysis Batch: 483463

Client Sample ID: PZ-4

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Chemical Oxygen Demand	ND		200	192		mg/L		96	70 - 120	9	15

TestAmerica Irvine

# QC Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

## Method: SM 2320B - Alkalinity

**Lab Sample ID: MB 440-482326/3**  
**Matrix: Water**  
**Analysis Batch: 482326**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	ND		4.0	4.0	mg/L			06/15/18 04:54	1
Bicarbonate Alkalinity as CaCO3	ND		4.0	4.0	mg/L			06/15/18 04:54	1

**Lab Sample ID: LCS 440-482326/2**  
**Matrix: Water**  
**Analysis Batch: 482326**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity as CaCO3	98.9	97.2		mg/L		98	80 - 120

**Lab Sample ID: 440-213571-A-4 DU**  
**Matrix: Water**  
**Analysis Batch: 482326**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity as CaCO3	88		93.0		mg/L		6	20
Bicarbonate Alkalinity as CaCO3	88		93.0		mg/L		6	20

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 440-483384/1**  
**Matrix: Water**  
**Analysis Batch: 483384**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	5.0	mg/L			06/21/18 09:12	1

**Lab Sample ID: LCS 440-483384/2**  
**Matrix: Water**  
**Analysis Batch: 483384**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	968		mg/L		97	90 - 110

**Lab Sample ID: 440-213600-1 DU**  
**Matrix: Water**  
**Analysis Batch: 483384**

**Client Sample ID: PZ-4**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1100		1150		mg/L		2	5

## Method: SM 4500 CO2 C - Free Carbon Dioxide

**Lab Sample ID: MB 440-483763/1**  
**Matrix: Water**  
**Analysis Batch: 483763**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon Dioxide, Free	ND		2.0	2.0	mg/L			06/22/18 15:50	1

TestAmerica Irvine

# QC Sample Results

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

**Lab Sample ID: 440-213600-1 DU**  
**Matrix: Water**  
**Analysis Batch: 483763**

**Client Sample ID: PZ-4**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Carbon Dioxide, Free	28		28.2		mg/L		0	20

**Lab Sample ID: 440-213600-2 DU**  
**Matrix: Water**  
**Analysis Batch: 483763**

**Client Sample ID: MW-2A**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Carbon Dioxide, Free	48		45.8		mg/L		4	20

**Lab Sample ID: 440-213600-3 DU**  
**Matrix: Water**  
**Analysis Batch: 483763**

**Client Sample ID: MW-2B**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Carbon Dioxide, Free	19		19.4		mg/L		0	20

**Lab Sample ID: 440-213600-4 DU**  
**Matrix: Water**  
**Analysis Batch: 483763**

**Client Sample ID: DW-4**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Carbon Dioxide, Free	18		19.4		mg/L		10	20

## Method: SM 4500 NH3 D - Ammonia

**Lab Sample ID: MB 440-482836/2-A**  
**Matrix: Water**  
**Analysis Batch: 482861**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 482836**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.50	0.10	mg/L		06/19/18 04:30	06/19/18 08:00	1

**Lab Sample ID: LCS 440-482836/1-A**  
**Matrix: Water**  
**Analysis Batch: 482861**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 482836**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia (as N)	2.50	2.25		mg/L		90	85 - 115

**Lab Sample ID: 440-213806-A-3-B MS**  
**Matrix: Water**  
**Analysis Batch: 482861**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 482836**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia (as N)	ND		2.50	2.51		mg/L		100	75 - 125

**Lab Sample ID: 440-213806-A-3-C MSD**  
**Matrix: Water**  
**Analysis Batch: 482861**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 482836**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia (as N)	ND		2.50	2.42		mg/L		97	75 - 125	4	15

TestAmerica Irvine

# QC Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

**Lab Sample ID: MB 440-483365/2-A**  
**Matrix: Water**  
**Analysis Batch: 483397**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 483365**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	ND		0.50	0.10	mg/L		06/21/18 08:00	06/21/18 09:00	1

**Lab Sample ID: LCS 440-483365/1-A**  
**Matrix: Water**  
**Analysis Batch: 483397**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 483365**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	2.50	2.40		mg/L		96	85 - 115

**Lab Sample ID: 440-214043-A-1-B MS**  
**Matrix: Water**  
**Analysis Batch: 483397**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 483365**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.35	J	2.50	2.78		mg/L		97	75 - 125

**Lab Sample ID: 440-214043-A-1-C MSD**  
**Matrix: Water**  
**Analysis Batch: 483397**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 483365**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	0.35	J	2.50	2.78		mg/L		97	75 - 125	0	15

## Method: SM 4500 S2 D - Sulfide, Total

**Lab Sample ID: MB 440-482933/3**  
**Matrix: Water**  
**Analysis Batch: 482933**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Sulfide	ND		0.050	0.027	mg/L			06/19/18 12:38	1

**Lab Sample ID: LCS 440-482933/4**  
**Matrix: Water**  
**Analysis Batch: 482933**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Sulfide	0.460	0.451		mg/L		98	80 - 120

**Lab Sample ID: LCSD 440-482933/5**  
**Matrix: Water**  
**Analysis Batch: 482933**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Sulfide	0.460	0.455		mg/L		99	80 - 120	1	20

# QC Sample Results

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

## Method: SM 4500 S2 D - Sulfide, Total (Continued)

Lab Sample ID: 550-104381-A-1 MS  
 Matrix: Water  
 Analysis Batch: 482933

Client Sample ID: Matrix Spike  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Sulfide	ND		0.460	0.442		mg/L		96	70 - 130

Lab Sample ID: 550-104381-A-1 MSD  
 Matrix: Water  
 Analysis Batch: 482933

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Sulfide	ND		0.460	0.395		mg/L		86	70 - 130	11	30

## Method: SM 5310C - TOC

Lab Sample ID: MB 440-482361/6  
 Matrix: Water  
 Analysis Batch: 482361

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		0.10	0.050	mg/L			06/15/18 07:51	1

Lab Sample ID: LCS 440-482361/5  
 Matrix: Water  
 Analysis Batch: 482361

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.8		mg/L		108	90 - 110

Lab Sample ID: MRL 440-482361/4  
 Matrix: Water  
 Analysis Batch: 482361

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	0.100	0.126		mg/L		126	50 - 150

Lab Sample ID: 440-213518-H-3 MS  
 Matrix: Water  
 Analysis Batch: 482361

Client Sample ID: Matrix Spike  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	0.34		10.0	10.8		mg/L		105	80 - 120

Lab Sample ID: 440-213518-H-3 MSD  
 Matrix: Water  
 Analysis Batch: 482361

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	0.34		10.0	10.5		mg/L		102	80 - 120	3	20

TestAmerica Irvine



# QC Association Summary

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

## GC/MS VOA

### Analysis Batch: 482990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213600-1	PZ-4	Total/NA	Water	8260B	
440-213600-2	MW-2A	Total/NA	Water	8260B	
440-213600-3	MW-2B	Total/NA	Water	8260B	
440-213600-4	DW-4	Total/NA	Water	8260B	
440-213600-5	QCAB	Total/NA	Water	8260B	
440-213600-6	QCTB	Total/NA	Water	8260B	
MB 440-482990/4	Method Blank	Total/NA	Water	8260B	
LCS 440-482990/5	Lab Control Sample	Total/NA	Water	8260B	
440-213518-D-4 MS	Matrix Spike	Total/NA	Water	8260B	
440-213518-D-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

### Analysis Batch: 483613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213600-1	PZ-4	Total/NA	Water	8260B	
440-213600-2	MW-2A	Total/NA	Water	8260B	
440-213600-3	MW-2B	Total/NA	Water	8260B	
440-213600-4	DW-4	Total/NA	Water	8260B	
440-213600-5	QCAB	Total/NA	Water	8260B	
440-213600-6	QCTB	Total/NA	Water	8260B	
MB 440-483613/4	Method Blank	Total/NA	Water	8260B	
LCS 440-483613/5	Lab Control Sample	Total/NA	Water	8260B	
440-213518-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-213518-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

## GC/MS Semi VOA

### Prep Batch: 483148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213600-1	PZ-4	Total/NA	Water	3520C	
440-213600-2	MW-2A	Total/NA	Water	3520C	
440-213600-3	MW-2B	Total/NA	Water	3520C	
440-213600-4	DW-4	Total/NA	Water	3520C	
MB 440-483148/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-483148/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-483148/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

### Analysis Batch: 483345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213600-1	PZ-4	Total/NA	Water	8270C	483148
440-213600-2	MW-2A	Total/NA	Water	8270C	483148
440-213600-3	MW-2B	Total/NA	Water	8270C	483148
440-213600-4	DW-4	Total/NA	Water	8270C	483148
MB 440-483148/1-A	Method Blank	Total/NA	Water	8270C	483148
LCS 440-483148/2-A	Lab Control Sample	Total/NA	Water	8270C	483148
LCSD 440-483148/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	483148

# QC Association Summary

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

## HPLC/IC

### Analysis Batch: 482112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213600-1	PZ-4	Total/NA	Water	300.0	
440-213600-2	MW-2A	Total/NA	Water	300.0	
440-213600-3	MW-2B	Total/NA	Water	300.0	
440-213600-4	DW-4	Total/NA	Water	300.0	
MB 440-482112/6	Method Blank	Total/NA	Water	300.0	
LCS 440-482112/5	Lab Control Sample	Total/NA	Water	300.0	
440-213600-3 MS	MW-2B	Total/NA	Water	300.0	
440-213600-3 MSD	MW-2B	Total/NA	Water	300.0	

### Analysis Batch: 482113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213600-1	PZ-4	Total/NA	Water	300.0	
440-213600-1	PZ-4	Total/NA	Water	300.0	
440-213600-2	MW-2A	Total/NA	Water	300.0	
440-213600-2	MW-2A	Total/NA	Water	300.0	
440-213600-3 - DL	MW-2B	Total/NA	Water	300.0	
440-213600-3	MW-2B	Total/NA	Water	300.0	
440-213600-4	DW-4	Total/NA	Water	300.0	
440-213600-4	DW-4	Total/NA	Water	300.0	
MB 440-482113/6	Method Blank	Total/NA	Water	300.0	
LCS 440-482113/5	Lab Control Sample	Total/NA	Water	300.0	
440-213600-3 MS - DL	MW-2B	Total/NA	Water	300.0	
440-213600-3 MSD - DL	MW-2B	Total/NA	Water	300.0	

## Metals

### Prep Batch: 483476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213600-1	PZ-4	Total Recoverable	Water	3005A	
440-213600-2	MW-2A	Total Recoverable	Water	3005A	
440-213600-3	MW-2B	Total Recoverable	Water	3005A	
440-213600-4	DW-4	Total Recoverable	Water	3005A	
MB 440-483476/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-483476/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-213600-1 MS	PZ-4	Total Recoverable	Water	3005A	
440-213600-1 MSD	PZ-4	Total Recoverable	Water	3005A	

### Analysis Batch: 484019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213600-1	PZ-4	Total Recoverable	Water	6010B	483476
440-213600-2	MW-2A	Total Recoverable	Water	6010B	483476
440-213600-3	MW-2B	Total Recoverable	Water	6010B	483476
440-213600-4	DW-4	Total Recoverable	Water	6010B	483476
MB 440-483476/1-A	Method Blank	Total Recoverable	Water	6010B	483476
LCS 440-483476/2-A	Lab Control Sample	Total Recoverable	Water	6010B	483476
440-213600-1 MS	PZ-4	Total Recoverable	Water	6010B	483476
440-213600-1 MSD	PZ-4	Total Recoverable	Water	6010B	483476

# QC Association Summary

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

## Metals (Continued)

### Analysis Batch: 484640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213600-1	PZ-4	Total Recoverable	Water	6010B	483476
440-213600-2	MW-2A	Total Recoverable	Water	6010B	483476
440-213600-3	MW-2B	Total Recoverable	Water	6010B	483476
440-213600-4	DW-4	Total Recoverable	Water	6010B	483476
MB 440-483476/1-A	Method Blank	Total Recoverable	Water	6010B	483476
LCS 440-483476/2-A	Lab Control Sample	Total Recoverable	Water	6010B	483476
440-213600-1 MS	PZ-4	Total Recoverable	Water	6010B	483476
440-213600-1 MSD	PZ-4	Total Recoverable	Water	6010B	483476

## General Chemistry

### Analysis Batch: 482326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213600-1	PZ-4	Total/NA	Water	SM 2320B	
440-213600-2	MW-2A	Total/NA	Water	SM 2320B	
440-213600-3	MW-2B	Total/NA	Water	SM 2320B	
440-213600-4	DW-4	Total/NA	Water	SM 2320B	
MB 440-482326/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 440-482326/2	Lab Control Sample	Total/NA	Water	SM 2320B	
440-213571-A-4 DU	Duplicate	Total/NA	Water	SM 2320B	

### Analysis Batch: 482361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213600-1	PZ-4	Total/NA	Water	SM 5310C	
440-213600-2	MW-2A	Total/NA	Water	SM 5310C	
440-213600-3	MW-2B	Total/NA	Water	SM 5310C	
440-213600-4	DW-4	Total/NA	Water	SM 5310C	
MB 440-482361/6	Method Blank	Total/NA	Water	SM 5310C	
LCS 440-482361/5	Lab Control Sample	Total/NA	Water	SM 5310C	
MRL 440-482361/4	Lab Control Sample	Total/NA	Water	SM 5310C	
440-213518-H-3 MS	Matrix Spike	Total/NA	Water	SM 5310C	
440-213518-H-3 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310C	

### Prep Batch: 482836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213600-1	PZ-4	Total/NA	Water	SM 4500 NH3 B	
440-213600-2	MW-2A	Total/NA	Water	SM 4500 NH3 B	
MB 440-482836/2-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	
LCS 440-482836/1-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	
440-213806-A-3-B MS	Matrix Spike	Total/NA	Water	SM 4500 NH3 B	
440-213806-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 NH3 B	

### Analysis Batch: 482861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213600-1	PZ-4	Total/NA	Water	SM 4500 NH3 D	482836
440-213600-2	MW-2A	Total/NA	Water	SM 4500 NH3 D	482836
MB 440-482836/2-A	Method Blank	Total/NA	Water	SM 4500 NH3 D	482836
LCS 440-482836/1-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 D	482836
440-213806-A-3-B MS	Matrix Spike	Total/NA	Water	SM 4500 NH3 D	482836
440-213806-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 NH3 D	482836

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# QC Association Summary

Client: Geo-Logic Associates  
 Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

## General Chemistry (Continued)

### Analysis Batch: 482933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213600-1	PZ-4	Total/NA	Water	SM 4500 S2 D	
440-213600-2	MW-2A	Total/NA	Water	SM 4500 S2 D	
440-213600-3	MW-2B	Total/NA	Water	SM 4500 S2 D	
440-213600-4	DW-4	Total/NA	Water	SM 4500 S2 D	
MB 440-482933/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 440-482933/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCS D 440-482933/5	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	
550-104381-A-1 MS	Matrix Spike	Total/NA	Water	SM 4500 S2 D	
550-104381-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 S2 D	

### Prep Batch: 483365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213600-3	MW-2B	Total/NA	Water	SM 4500 NH3 B	
440-213600-4	DW-4	Total/NA	Water	SM 4500 NH3 B	
MB 440-483365/2-A	Method Blank	Total/NA	Water	SM 4500 NH3 B	
LCS 440-483365/1-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 B	
440-214043-A-1-B MS	Matrix Spike	Total/NA	Water	SM 4500 NH3 B	
440-214043-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 NH3 B	

### Analysis Batch: 483384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213600-1	PZ-4	Total/NA	Water	SM 2540C	
440-213600-2	MW-2A	Total/NA	Water	SM 2540C	
440-213600-3	MW-2B	Total/NA	Water	SM 2540C	
440-213600-4	DW-4	Total/NA	Water	SM 2540C	
MB 440-483384/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 440-483384/2	Lab Control Sample	Total/NA	Water	SM 2540C	
440-213600-1 DU	PZ-4	Total/NA	Water	SM 2540C	

### Analysis Batch: 483397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213600-3	MW-2B	Total/NA	Water	SM 4500 NH3 D	483365
440-213600-4	DW-4	Total/NA	Water	SM 4500 NH3 D	483365
MB 440-483365/2-A	Method Blank	Total/NA	Water	SM 4500 NH3 D	483365
LCS 440-483365/1-A	Lab Control Sample	Total/NA	Water	SM 4500 NH3 D	483365
440-214043-A-1-B MS	Matrix Spike	Total/NA	Water	SM 4500 NH3 D	483365
440-214043-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 NH3 D	483365

### Analysis Batch: 483463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213600-1	PZ-4	Total/NA	Water	410.4	
440-213600-2	MW-2A	Total/NA	Water	410.4	
440-213600-3	MW-2B	Total/NA	Water	410.4	
440-213600-4	DW-4	Total/NA	Water	410.4	
MB 440-483463/3	Method Blank	Total/NA	Water	410.4	
LCS 440-483463/4	Lab Control Sample	Total/NA	Water	410.4	
440-213600-1 MS	PZ-4	Total/NA	Water	410.4	
440-213600-1 MSD	PZ-4	Total/NA	Water	410.4	

# QC Association Summary

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

## General Chemistry (Continued)

### Analysis Batch: 483763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-213600-1	PZ-4	Total/NA	Water	SM 4500 CO2 C	
440-213600-2	MW-2A	Total/NA	Water	SM 4500 CO2 C	
440-213600-3	MW-2B	Total/NA	Water	SM 4500 CO2 C	
440-213600-4	DW-4	Total/NA	Water	SM 4500 CO2 C	
MB 440-483763/1	Method Blank	Total/NA	Water	SM 4500 CO2 C	
440-213600-1 DU	PZ-4	Total/NA	Water	SM 4500 CO2 C	
440-213600-2 DU	MW-2A	Total/NA	Water	SM 4500 CO2 C	
440-213600-3 DU	MW-2B	Total/NA	Water	SM 4500 CO2 C	
440-213600-4 DU	DW-4	Total/NA	Water	SM 4500 CO2 C	

# Definitions/Glossary

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.
N	Presumptive evidence of material.

### HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica Irvine

# Accreditation/Certification Summary

Client: Geo-Logic Associates  
Project/Site: Republic Sunshine Canyon

TestAmerica Job ID: 440-213600-1

## Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-19
Arizona	State Program	9	AZ0671	10-14-18
California	LA Cty Sanitation Districts	9	10256	06-30-18 *
California	State Program	9	CA ELAP 2706	06-30-18 *
Guam	State Program	9	Cert. No. 17-003R	01-23-19
Hawaii	State Program	9	N/A	01-29-19
Kansas	NELAP	7	E-10420	07-31-18
Nevada	State Program	9	CA015312018-1	07-31-18
New Mexico	State Program	6	N/A	01-29-19
Oregon	NELAP	10	4028	01-29-19
USDA	Federal		P330-15-00184	07-08-18 *
Washington	State Program	10	C900	09-03-18

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Irvine





## Login Sample Receipt Checklist

Client: Geo-Logic Associates

Job Number: 440-213600-1

**Login Number: 213600**

**List Number: 1**

**Creator: Soderblom, Tim**

**List Source: TestAmerica Irvine**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## **APPENDIX C**

### **MONTHLY VADOSE ZONE GAS MONITORING REPORTS**

SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

TECHNICIAN: <u>AROMO</u>		TEMPERATURE: <u>68</u>		BARO. PRESSURE: <u>28.06</u>					
GEM SERIAL #: <u>G504643</u>		WEATHER CONDITIONS: <u>SUNNY</u>							
PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
213									
A-13	1-24-18	814	+0.7	0	2.6	17.2	80.2	2	
B-29	1-24-18	816	+1.10	0	2.6	17.1	80.3	2	
C-45	1-24-18	818	-0.25	0	.1	21.6	78.3	3	
D-61	1-24-18	824	-0.40	0	.1	21.6	78.3	4	
E-77	1-24-18	830	-19.01	0	.1	21.6	78.3	4	
214									
A-13	1-24-18	843	+0.06	0	4.7	13.2	82.1	2	
B-30	1-24-18	847	-2.32	0	2.9	19.9	77.2	2	
C-48	1-24-18	851	-1.86	0	2.5	18.9	78.3	3	
215									
A-13	1-24-18	946	-0.36	0	4.8	9.9	85.3	2	
B-30	1-24-18	948	-0.10	0	4.8	12.0	83.2	2	
C-47	1-24-18	952	+0.46	0	.1	20.3	79.2	3	
D-64	1-24-18	958	-0.01	0	.2	19.9	79.9	4	
E-81	1-24-18	1003	-0.02	0	3.8	11.9	84.8	4	
216									
A-14	1-24-18	914	+0.05	0	.1	21.5	78.4	2	
B-43	1-24-18	917	-0.09	0	.3	21.1	78.6	2	
C-62	1-24-18	921	-0.07	0	.1	20.8	79.1	3	
D-86	1-24-18	925	+0.01	0	.1	20.6	79.3	4	
E-110	1-24-18	931	+0.00	0	.7	19.3	80.0	4	
217									
A-13	1-24-18	1047	-0.01	0	10.2	11.0	78.8	2	
B-30	1-24-18	1051	+0.03	0	4.1	17.1	78.8	2	
218R									
A-11	1-24-18	1116	+0.02	0	21.5	.1	78.5	2	
B-26.5	1-24-18	1119	-0.33	.1	29.9	.6	70.4	2	
B-30	1-24-18	1124	+0.25	0	19.4	15.9	64.7	2	
219									
A-13	1-24-18	1137	+0.04	0	.6	20.7	78.7	2	
B-64	1-24-18	1141	7.06	0	4.0	12.2	83.8	2	
C-115	1-24-18	1143	+0.06	0	.1	21.4	78.5	3	
D-166	1-24-18	1147	+0.02	0	0	21.5	78.5	4	
E-217	1-24-18	1152	0	0	2.7	15.4	81.5	4	

SCS SIGNATURE: \_\_\_\_\_



LEA SIGNATURE \_\_\_\_\_

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
220									
A-14								2	
B-40								2	
C-87								3	
D-124								4	
E-158								4	
220B									
A-14								2	
B-38								2	
C-62								3	
D-86								4	
E-110								4	
221									
A-13								2	
B-56								2	
C-99								3	
D-142								4	
E-185								4	
222									
A-13								2	
B-54.8								2	
C-96.5								3	
D-138.3								4	
E-180								4	
223									
A-13								2	
B-37.5								2	
C-62								3	
D-86.5								4	
E-111								4	
224									
A-13	1-24-18	1321	0	0	4	70.5	78.1	2	
B-67.5	1-24-18	1324	+0.01	0	.1	21.0	78.9	2	
C-122	1-24-18	1330	+0.24	0	0	21.1	78.9	3	
D-177.5	1-24-18	1335	-8.95	0	0	21.2	78.8	4	
E-232	1-24-18	1340	-6.22	0	0	21.3	78.7	4	

SCS SINGNATURE: 

LEA SIGNATURE: \_\_\_\_\_

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
225									
A-13	1-24-18	1350	-1.08	0	1.5	20.7	78.8	2	
B-72	1-24-18	1353	-4.94	0	1.3	21.1	78.6	2	
C-1131	1-24-18	1356	-8.86	0	1.6	20.7	78.7	3	
D-190	1-24-18	1400	-8.62	0	1.1	21.5	78.4	4	
E-244	1-24-18	1406	-7.88	0	1.4	21.1	78.5	4	
226									
A-13	1-24-18	1420	-1.01	0	1.1	21.7	78.2	2	
B-64	1-24-18	1424	-10.47	0	0	21.7	78.3	2	
C-114	1-24-18	1427	-9.70	0	0	21.8	78.2	3	
D-164	1-24-18	1436	-10.45	0	0	21.9	78.1	4	
E-208	1-24-18	1436	-10.46	0	1.1	21.9	78.0	4	
227									
A-13	1-24-18	1445	+1.03	0	1.5	20.5	79.0	2	
B-48.7	1-24-18	1448	+1.12	0	1.1	21.7	78.2	2	
C-84.4	1-24-18	1451	+2.25	0	2.1	14.3	83.6	3	
D-114	1-24-18	1454	+3.34	0	1.7	16.5	81.8	4	
E-115.7	1-24-18	1458	+0.09	0	1.9	16.6	82.5	4	
228									
A-13	1-24-18	1507	+1.21	0	1.9	20.3	78.8	2	
B-63	1-24-18	1509	+1.06	0	1.5	20.4	79.1	2	
C-113	1-24-18	1512	+5.32	0	1.4	12.8	85.8	3	
D-163	1-24-18	1518	+1.31	0	1.7	20.7	78.6	4	
E-213	1-24-18	1519	+5.50	0	3.3	14.0	82.7	4	
229									
A-13	1-24-18	1548	-1.36	0	1.1	19.2	79.7	2	
B-48.7	1-24-18	1550	-10.10	0	1.1	21.7	78.2	2	
C-84.4	1-24-18	1555	-12.57	0	1.1	21.3	78.6	3	
D-114	1-24-18	1557	-13.71	0	1.8	19.5	79.7	4	
E-155.7	1-24-18	1601	-20.19	0	1.1	21.3	78.6	4	
230									
A-16								2	REMOVED DUE TO CONSTRUCTION
B-33								2	REMOVED DUE TO CONSTRUCTION
C-50								3	REMOVED DUE TO CONSTRUCTION
231									
A-13								2	REMOVED DUE TO CONSTRUCTION
B-26								2	REMOVED DUE TO CONSTRUCTION
C-39								3	REMOVED DUE TO CONSTRUCTION
D-51								4	REMOVED DUE TO CONSTRUCTION
E-66								4	REMOVED DUE TO CONSTRUCTION

SCS SIGNATURE:



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SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
220	01/24/18	<del>12:58</del>	<del>+25</del>	<del>0.0</del>	<del>4.5</del>	<del>8.1</del>	<del>87.4</del>		
A-14		13:57	+25	0.0	4.5	8.1	87.4	2	
B-40		14:01	+31	0.0	5.0	9.9	85.1	2	
C-87		14:06	+34	0.0	7.9	6.8	85.3	3	
D-124		14:12	+07	0.0	12.1	3.0	84.9	4	
E-158		14:19	+18	0.1	13.7	1.0	85.2	4	
220B	01/24/18								
A-14	14:26	<del>13:58</del>	+08	0.0	3.9	13.0	83.1	2	
B-38		14:30	+15	0.0	9.0	1.7	89.3	2	
C-62		14:35	+32	0.1	9.7	0.4	89.8	3	
D-86		14:44	+24	0.0	9.3	0.7	90.0	4	
E-110		14:50	+18	0.0	6.8	3.7	89.5	4	
221	01/24/18								
A-13		15:05	-01	0.0	1.1	16.6	82.3	2	
B-56		15:09	+06	0.0	7.5	0.9	91.6	2	
C-99		15:15	+46	0.1	10.4	0.0	89.5	3	
D-142		15:25	+19	0.0	4.1	2.0	93.9	4	
E-185		15:31	+04	0.0	0.7	19.3	80.0	4	
222	01/24/18								
A-13		15:40	+02	0.0	4.1	15.7	80.2	2	
B-54.8		15:43	+01	0.0	6.1	9.4	84.5	2	
C-96.5		15:48	+04	0.0	0.1	20.1	79.8	3	
D-138.3		15:54	-01	0.0	4.4	14.3	81.3	4	
E-180		16:00	+03	0.0	1.1	14.0	84.9	4	
223	01/24/18								
A-13		16:13	+01	0.0	4.3	8.6	87.1	2	
B-37.5		16:17	+00	0.0	4.6	8.5	86.9	2	
C-62		16:22	-02	0.0	7.7	8.3	84.0	3	
D-86.5		16:27	-01	0.0	1.3	17.9	80.8	4	
E-111		16:33	-03	0.0	2.5	15.1	82.4	4	
224									
A-13								2	
B-67.5								2	
C-122								3	
D-177.5								4	
E-232								4	


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SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: <u>AROMO</u>		TEMPERATURE: <u>62</u>		BARO. PRESSURE: <u>28.07</u>					
GEM SERIAL #: <u>G504643</u>				WEATHER CONDITIONS: <u>PARTLY CLOUDY</u>					
PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202									
A-10								2	REMOVED DUE TO CONSTRUCTION
B-25								2	
C-38								3	
203									
A-10	1-25-18	1457	+3.38	0	3.8	18.3	77.9	2	
B-25	1-25-18	1459	+1.09	0	3.9	17.7	78.4	2	
C-40	1-25-18	1501	+7.04	0	2.5	18.8	78.7	3	
206									
A-10	1-25-18	1519	+1.05	0	10.0	9.9	80.1	2	
B-25	1-25-18	1521	+1.04	0	12.0	10.1	77.9	2	
C-40	1-25-18	1523	+1.31	0	16.1	8.9	75.0	3	
207									
A-10	1-25-18	1641	-1.09	0	1.1	20.6	78.3	2	
B-25	1-25-18	1644	-5.72	0	.7	21.1	78.2	2	
C-40	1-25-18	1647	+1.31	0	.1	21.6	78.3	3	
208									LOCK HAS BEGUN CUT
A-9.1	1-25-18	1025	+1.12	0	4.5	17.2	78.3	2	
B-25	1-25-18	1028	+1.04	0	8.3	13.6	78.1	2	
C-40	1-25-18	1031	+1.07	0	11.3	9.3	79.4	3	
210									LOCK HAS BEGUN CUT
A-10	1-25-18	927	-1.38	0	.2	21.7	78.1	2	
B-25	1-25-18	930	-1.32	0	.2	21.6	78.2	2	
C-39	1-25-18	933	-1.06	0	.1	21.7	78.2	3	
242									
C-42	1-25-18	1004	+1.09	0	3.4	16.4	80.2	3	
D-60	1-25-18	1008	+1.12	0	6.9	5.9	87.2	4	
E-78	1-25-18	1013	+1.43	0	4.8	12.6	82.6	4	
243									
A-11	1-25-18	1314	+1.35	0	12.9	.5	86.6	2	
B-20	1-25-18	1316	+1.12	0	10.7	2.5	88.8	2	
C-33	1-25-18	1320	+1.02	0	3.3	14.1	82.6	3	

SCS SIGNATURE: 

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SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
244									
A-11	1-25-18	946	+0.02	0	17.5	2.4	82.1	2	
B-21	1-25-18	949	+0.03	0	19.2	2.4	78.4	2	
C-36	1-25-18	952	-0.02	0	17.7	6.7	75.6	3	
245									
A-11	1-25-18	1334	+0.05	0	14.2	4.1	81.7	2	
B-20	1-25-18	1336	+0.07	0	18.5	5.0	76.5	2	
C-35	1-25-18	1339	+0.12	0	15.6	5.4	78.0	3	
D-50	1-25-18	1343	+0.16	0	17.6	1.8	81.6	4	
E-64	1-25-18	1348	+0.15	0	8.3	41.9	79.8	4	
246									REMOVED DUE TO CONSTRUCTION
A-9								2	
B-16								2	
205R									
A-11	1-25-18	1100	+0.09	0	10.1	7.6	82.3	2	
B-20	1-25-18	1103	+0.05	.1	23.9	2.8	73.2	2	
C-33	1-25-18	1106	-0.06	1.5	35.6	2.4	60.5	3	
D-48	1-25-18	1110	+0.01	2.6	38.3	.1	59.0	4	
E-62	1-25-18	1115	+0.12	.4	29.4	.2	70.0	4	
239									
A-11	1-25-18	900	+0.12	0	15.1	8.7	76.2	2	
B-20	1-25-18	903	+0.11	0	.1	21.8	78.1	2	
C-35	1-25-18	906	+0.11	0	.1	21.9	78.0	3	
D-50	1-25-18	910	+0.12	0	.1	21.9	78.0	4	
E-64	1-25-18	915	+0.08	0	.1	22.0	77.9	4	
240									
A-11	1-25-18	827	+0.09	0	21.7	1.8	76.5	2	
B-20	1-25-18	829	+0.11	0	.2	21.8	78.0	2	
C-33	1-25-18	832	+0.05	0	.1	21.8	78.1	3	
D-49	1-25-18	838	+0.12	0	.1	21.8	78.1	4	
E-61	1-25-18	843	+0.10	.6	.1	21.7	77.6	4	

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## Sunshine Canyon Landfill - Monitoring Probes Data - 02/01/2018 to 02/28/2018

Point Name	Record Date	CH4 (% by vol)	CO2 (% by vol)	O2 (% by vol)	Bal Gas (% by vol)	Rel Press ("H2O)	Comments
P-203A	2/15/2018 10:18	0.00	3.50	17.80	78.70	0.04	
P-203B	2/15/2018 10:22	0.00	4.70	16.10	79.20	-0.01	
P-203C	2/15/2018 10:26	0.00	4.20	16.00	79.80	-0.02	
P-206A	2/15/2018 10:10	0.00	8.80	12.50	78.70	-0.31	
P-206B	2/15/2018 10:12	0.00	12.40	10.10	77.50	-0.29	
P-206C	2/15/2018 10:16	0.00	21.20	5.30	73.50	-0.27	
P-207A	2/15/2018 10:23	0.00	0.80	20.20	79.00	-0.56	
P-207B	2/15/2018 10:25	0.00	0.50	20.50	79.00	-25.63	
P-207C	2/15/2018 10:29	0.00	0.00	20.80	79.20	-0.18	
P-208A	2/15/2018 09:58	0.00	3.60	18.10	78.30	-0.29	
P-208B	2/15/2018 10:00	0.00	7.40	13.60	79.00	-0.33	
P-208C	2/15/2018 10:03	0.00	10.40	10.00	79.60	-0.28	
P-210A	2/15/2018 09:09	0.00	0.10	20.90	79.00	-0.72	
P-210B	2/15/2018 09:11	0.00	0.10	20.80	79.10	-0.37	
P-210C	2/15/2018 09:15	0.00	0.10	20.90	79.00	-0.44	
P-213A	2/13/2018 08:49	0.00	1.80	17.80	80.40	-0.18	
P-213B	2/13/2018 08:52	0.00	0.00	21.00	79.00	-0.23	
P-213C	2/13/2018 08:56	0.00	0.00	21.10	78.90	-0.89	
P-213D	2/13/2018 09:01	0.00	0.00	21.00	79.00	-1.11	
P-213E	2/13/2018 09:06	0.00	0.00	20.90	79.10	-16.36	
P-214A	2/13/2018 09:18	0.00	8.20	7.70	84.10	-0.37	
P-214A	2/13/2018 09:21	0.00	8.20	7.80	84.00	-0.37	
P-214B	2/13/2018 09:24	0.10	0.10	20.50	79.30	-4.65	
P-214C	2/13/2018 09:31	0.10	1.90	19.20	78.80	-3.47	
P-215A	2/13/2018 09:46	0.00	3.90	12.70	83.40	-0.29	
P-215B	2/13/2018 09:49	0.00	1.90	18.30	79.80	-0.33	
P-215C	2/13/2018 09:53	0.00	0.00	21.00	79.00	-1.66	
P-215D	2/13/2018 09:58	0.00	1.20	18.70	80.10	0.04	
P-215E	2/13/2018 10:03	0.00	3.40	13.00	83.60	-0.24	
P-216A	2/13/2018 10:22	0.00	0.00	20.60	79.40	-0.17	



## Sunshine Canyon Landfill - Monitoring Probes Data - 02/01/2018 to 02/28/2018

Point Name	Record Date	CH4 (% by vol)	CO2 (% by vol)	O2 (% by vol)	Bal Gas (% by vol)	Rel Press ("H2O)	Comments
P-216B	2/13/2018 10:25	0.00	0.00	20.70	79.30	-0.37	
P-216C	2/13/2018 10:29	0.00	0.00	20.60	79.40	-0.21	
P-216D	2/13/2018 10:34	0.00	0.00	20.70	79.30	-0.26	
P-216E	2/13/2018 10:39	0.00	0.00	20.60	79.40	-0.25	
P-217A	2/13/2018 10:49	0.00	5.40	15.50	79.10	-0.18	
P-217B	2/13/2018 10:52	0.00	3.20	18.00	78.80	-0.20	
P-219A	2/13/2018 11:32	0.00	0.50	20.20	79.30	-0.17	
P-219B	2/13/2018 11:35	0.00	4.30	10.60	85.10	-0.07	
P-219C	2/13/2018 11:39	0.00	0.20	20.60	79.20	-0.17	
P-219D	2/13/2018 11:44	0.00	0.00	21.20	78.80	-0.17	
P-219E	2/13/2018 11:49	0.00	2.30	15.70	82.00	-0.17	
P-220A	2/13/2018 08:31	0.00	4.20	15.40	80.40	-0.02	
P-220B	2/13/2018 08:36	0.00	0.10	21.10	78.80	-0.01	
P-220C	2/13/2018 08:41	0.00	0.50	20.50	79.00	-0.03	
P-220D	2/13/2018 08:47	0.00	0.10	21.20	78.70	-0.07	
P-220E	2/13/2018 08:53	0.00	0.70	19.30	80.00	-0.12	
P-221A	2/13/2018 09:31	0.00	1.10	19.40	79.50	0.03	
P-221B	2/13/2018 09:34	0.00	0.50	19.70	79.80	-0.04	
P-221C	2/13/2018 09:39	0.00	0.70	19.70	79.60	-0.58	
P-221D	2/13/2018 09:44	0.00	0.10	19.90	80.00	-0.18	
P-221E	2/13/2018 09:51	0.00	0.10	19.70	80.20	-0.06	
P-222A	2/13/2018 10:25	0.00	2.20	19.10	78.70	-0.01	
P-222B	2/13/2018 10:29	0.00	0.10	20.90	79.00	-0.04	
P-222C	2/13/2018 10:34	0.00	0.10	20.90	79.00	-0.03	
P-222D	2/13/2018 10:40	0.00	2.50	18.40	79.10	-0.09	
P-222E	2/13/2018 10:49	0.00	0.10	20.60	79.30	-0.31	
P-223A	2/13/2018 10:59	0.00	4.30	8.80	86.90	0.04	
P-223B	2/13/2018 11:03	0.00	5.50	6.40	88.10	-0.03	
P-223C	2/13/2018 11:08	0.00	0.50	19.70	79.80	0.01	
P-223D	2/13/2018 11:13	0.00	1.40	17.90	80.70	-0.03	



## Sunshine Canyon Landfill - Monitoring Probes Data - 02/01/2018 to 02/28/2018

Point Name	Record Date	CH4 (% by vol)	CO2 (% by vol)	O2 (% by vol)	Bal Gas (% by vol)	Rel Press ("H2O)	Comments
P-223E	2/13/2018 11:20	0.00	3.10	13.80	83.10	-0.01	
P-224A	2/13/2018 11:34	0.00	0.20	20.60	79.20	-0.02	
P-224B	2/13/2018 11:37	0.00	0.00	20.80	79.20	-0.05	
P-224C	2/13/2018 11:42	0.00	0.00	20.90	79.10	-0.07	
P-224D	2/13/2018 11:47	0.00	0.00	21.00	79.00	-11.99	
P-224E	2/13/2018 11:53	0.00	0.00	21.00	79.00	-9.10	
P-225A	2/13/2018 14:05	0.00	0.60	20.60	78.80	-0.06	
P-225B	2/13/2018 14:09	0.00	0.30	21.00	78.70	-5.54	
P-225C	2/13/2018 14:13	0.00	0.70	20.80	78.50	-10.45	
P-225D	2/13/2018 14:20	0.00	0.10	20.90	79.00	-10.88	
P-225E	2/13/2018 14:25	0.00	0.40	20.60	79.00	-10.18	
P-226A	2/13/2018 14:33	0.00	0.10	21.00	78.90	-0.04	
P-226B	2/13/2018 14:37	0.00	0.10	21.10	78.80	-12.15	
P-226C	2/13/2018 14:43	0.00	0.10	21.00	78.90	-12.10	
P-226D	2/13/2018 14:49	0.00	0.10	21.30	78.60	-12.49	
P-226E	2/13/2018 14:56	0.00	0.10	20.90	79.00	-12.75	
P-227A	2/13/2018 13:58	0.00	0.10	22.60	77.30	-0.21	
P-227B	2/13/2018 14:01	0.00	0.00	22.60	77.40	-1.26	
P-227C	2/13/2018 14:05	0.00	0.00	22.70	77.30	-1.13	
P-227D	2/13/2018 14:12	0.00	1.60	17.50	80.90	-0.91	
P-227E	2/13/2018 14:17	0.00	1.90	18.40	79.70	-0.48	
P-228A	2/13/2018 14:24	0.00	0.80	20.70	78.50	-0.21	
P-228B	2/13/2018 14:26	0.00	3.00	14.80	82.20	-1.26	
P-228C	2/13/2018 14:30	0.00	0.00	23.00	77.00	-0.93	
P-228D	2/13/2018 14:35	0.00	1.00	21.80	77.20	-0.48	
P-228E	2/13/2018 14:39	0.00	0.90	22.00	77.10	-0.66	
P-229A	2/13/2018 13:35	0.00	0.70	19.70	79.60	-1.17	
P-229B	2/13/2018 13:38	0.00	0.30	21.00	78.70	-11.11	
P-229C	2/13/2018 13:41	0.00	0.10	22.00	77.90	-15.10	
P-229D	2/13/2018 13:46	0.00	0.40	21.20	78.40	-16.74	



## Sunshine Canyon Landfill - Monitoring Probes Data - 02/01/2018 to 02/28/2018

Point Name	Record Date	CH4 (% by vol)	CO2 (% by vol)	O2 (% by vol)	Bal Gas (% by vol)	Rel Press ("H2O)	Comments
P-229E	2/13/2018 13:51	0.00	0.00	22.70	77.30	-22.50	
P-239A	2/15/2018 08:45	0.00	11.70	12.20	76.10	-0.07	
P-239B	2/15/2018 08:48	0.00	0.10	21.40	78.50	-0.37	
P-239C	2/15/2018 08:52	0.00	0.10	21.30	78.60	-0.38	
P-239D	2/15/2018 08:57	0.00	0.10	21.20	78.70	-0.39	
P-239E	2/15/2018 09:06	0.00	0.10	21.20	78.70	-0.35	
P-240A	2/15/2018 08:20	0.00	14.90	8.20	76.90	-0.50	
P-240A	2/20/2018 13:25	0.00	19.30	4.00	76.70	-0.01	
P-240B	2/15/2018 08:23	0.00	0.10	21.00	78.90	-0.46	
P-240B	2/20/2018 13:29	0.00	0.10	20.90	79.00	-0.02	
P-240C	2/15/2018 08:27	0.00	0.10	21.20	78.70	-0.45	
P-240C	2/20/2018 13:33	0.00	0.10	21.10	78.80	0.03	
P-240D	2/15/2018 08:32	0.00	0.10	21.40	78.50	-0.43	
P-240D	2/20/2018 13:39	0.00	0.10	21.00	78.90	0.02	
P-240E	2/15/2018 08:36	3.60	0.20	20.70	75.50	-0.44	
P-240E	2/20/2018 13:45	0.20	0.10	21.10	78.60	0.01	
P-241A	2/13/2018 08:22	0.00	0.00	20.40	79.60	-18.22	
P-241B	2/13/2018 08:25	0.00	0.00	20.50	79.50	-11.38	
P-241C	2/13/2018 08:29	0.00	0.00	20.60	79.40	-0.61	
P-241D	2/13/2018 08:33	0.00	0.00	20.70	79.30	-11.12	
P-241E	2/13/2018 08:38	0.00	0.00	20.80	79.20	-8.58	
P-242C	2/15/2018 09:23	0.00	3.00	16.30	80.70	0.07	
P-242D	2/15/2018 09:28	0.00	7.90	2.90	89.20	-0.34	
P-242E	2/15/2018 09:32	0.00	5.20	12.10	82.70	-0.02	
P-243A	2/15/2018 10:37	0.00	12.50	0.10	87.40	-0.02	
P-243B	2/15/2018 10:41	0.00	3.80	13.30	82.90	-0.03	
P-243C	2/15/2018 10:46	0.00	3.20	13.90	82.90	0.00	
P-244A	2/15/2018 09:40	0.00	15.50	2.20	82.30	-0.42	
P-244B	2/15/2018 09:44	0.10	17.00	4.60	78.30	-0.37	
P-244C	2/15/2018 09:50	0.00	17.10	7.60	75.30	-0.39	



## Sunshine Canyon Landfill - Monitoring Probes Data - 02/01/2018 to 02/28/2018

Point Name	Record Date	CH4 (% by vol)	CO2 (% by vol)	O2 (% by vol)	Bal Gas (% by vol)	Rel Press ("H2O)	Comments
P-245A	2/15/2018 09:44	0.00	12.20	6.40	81.40	-0.02	
P-245B	2/15/2018 09:48	0.00	21.40	2.00	76.60	-0.04	
P-245C	2/15/2018 09:53	0.00	21.90	0.70	77.40	-0.02	
P-245D	2/15/2018 09:58	0.00	18.10	0.50	81.40	-0.07	
P-245E	2/15/2018 10:05	0.00	0.10	20.60	79.30	-0.14	
P-205RA	2/15/2018 10:48	0.00	11.50	6.40	82.10	-0.23	
P-205RB	2/15/2018 10:51	0.30	13.20	11.00	75.50	0.11	
P-205RC	2/15/2018 10:57	1.40	34.20	4.10	60.30	0.51	
P-205RD	2/15/2018 11:02	2.50	43.90	0.20	53.40	-0.24	
P-205RE	2/15/2018 11:07	1.50	36.40	0.10	62.00	-0.17	
P-218RA	2/13/2018 11:06	0.00	26.60	0.10	73.30	-0.19	
P-218RB	2/13/2018 11:08	0.10	26.90	5.10	67.90	0.39	
P-218RC	2/13/2018 11:14	0.00	13.00	17.60	69.40	-0.21	
P-220BA	2/13/2018 09:01	0.00	3.30	17.60	79.10	0.01	
P-220BB	2/13/2018 09:05	0.00	0.20	20.70	79.10	-0.15	
P-220BC	2/13/2018 09:09	0.00	4.60	15.10	80.30	-0.43	
P-220BD	2/13/2018 09:15	0.00	5.30	14.50	80.20	-0.47	
P-220BE	2/13/2018 09:21	0.00	1.90	18.90	79.20	-0.31	

### TOTAL PROBES

138	<b>MAX</b>	3.60	43.90	23.00	89.20	0.51
	<b>MIN</b>	0.00	0.00	0.10	53.40	-25.63



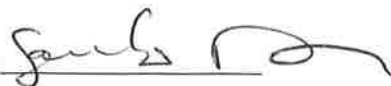
SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

Saulo Diaz

02/20/18

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
244									
A-11								2	
B-21								2	
C-36								3	
245									
A-11								2	
B-20								2	
C-35								3	
D-50								4	
E-64								4	
246									
A-9								2	REMOVED DUE TO CONSTRUCTION
B-16								2	REMOVED DUE TO CONSTRUCTION
205R									
A-11								2	
B-20								2	
C-33								3	
D-48								4	
E-62								4	
239									
A-11								2	
B-20								2	
C-35								3	
D-50								4	
E-64								4	
240									
A-11	02/20/18	13:25	-0.01	0.0	19.3	4.0	76.7	2	
B-20	02/20/18	13:29	-0.02	0.0	0.1	20.9	79.0	2	
C-33	02/20/18	13:33	+0.03	0.0	0.1	21.1	78.8	3	
D-49	02/20/18	13:39	+0.02	0.0	0.1	21.0	78.9	4	
E-61	02/20/18	13:45	+0.01	0.2	0.1	21.1	78.6	4	

SCS SINGNATURE:



LEA SIGNATURE: \_\_\_\_\_



SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

TECHNICIAN: <u>A Romo</u>			TEMPERATURE: <u>64</u>		BARO. PRESSURE: <u>30.2</u>				
GEM SERIAL #: <u>6503926</u>			WEATHER CONDITIONS: <u>SUNNY</u>						
PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
213									
A-13	3-27-18	835	+0.06	0	.1	21.7	78.2	2	
B-29	3-27-18	838	+0.05	0	.1	21.7	78.2	2	
C-45	3-27-18	841	-0.57	0	.1	21.8	78.1	3	
D-61	3-27-18	845	-0.85	0	0	21.8	78.2	4	
E-77	3-27-18	850	-15.16	0	.1	21.8	78.1	4	
214									
A-13	3-27-18	859	-2.83	0	.3	21.7	78.0	2	
B-30	3-27-18	902	-3.54	0	.3	21.2	78.5	2	
C-48	3-27-18	905	-2.84	0	.3	21.9	77.8	3	
215									
A-13	3-27-18	930	-0.19	0	3.4	12.8	83.8	2	
B-30	3-27-18	933	+0.07	0	5.0	12.6	82.4	2	
C-47	3-27-18	936	+0.32	0	.1	21.3	78.6	3	
D-64	3-27-18	940	-0.57	0	.1	21.2	78.7	4	
E-81	3-27-18	945	-0.26	0	3.0	13.6	83.4	4	
216									
A-14	3-27-18	959	-0.05	0	.1	21.7	78.2	2	
B-43	3-27-18	1002	-0.05	0	.1	21.8	78.1	2	
C-62	3-27-18	1005	0	0	.1	21.6	78.3	3	
D-86	3-27-18	1009	-0.01	0	0	21.6	78.4	4	
E-110	3-27-18	1015	+0.24	0	.1	21.3	78.6	4	
217									
A-13	3-27-18	1028	-0.46	0	8.0	12.9	79.1	2	
B-30	3-27-18	1031	-0.57	0	4.1	15.7	80.2	2	
218R									
A-11	3-27-18	1045	+0.12	0	23.7	0	76.3	2	
B-26.5	3-27-18	1048	+0.17	0	29.5	0	70.5	2	
B-30	3-27-18	1051	+0.06	0	28.0	13.4	58.6	2	
219									
A-13	3-27-18	1107	+0.17	0	1.2	18.2	80.6	2	
B-64	3-27-18	1110	-0.14	0	4.1	9.2	86.7	2	
C-115	3-27-18	1113	+0.13	0	1.8	15.4	82.8	3	
D-166	3-27-18	1117	+0.61	0	.1	21.4	78.5	4	
E-217	3-27-18	1122	+0.11	0	2.1	14.8	83.1	4	

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LEA SIGNATURE \_\_\_\_\_

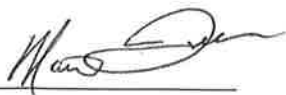
SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

M. QUEN

GEM # GSD4541

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
220	3/27/18		<del>+0.08</del>						
A-14		13:12	+0.08	1.8	8.1	0.2	89.9	2	
B-40		13:15	+0.11	0.1	7.7	3.2	89.0	2	
C-87		13:19	+0.16	0.4	10.2	3.6	85.8	3	
D-124	∨	13:24	+0.06	∅	13.6	1.3	85.1	3	
E-158	3/27/18	13:29	+0.24	0.4	13.0	0.5	86.1	4	
220B	3/27/18								
A-14		13:36	+0.02	∅	2.8	16.5	80.7	2	VAULT NEEDS LOCK (RED)
B-38		13:40	+0.08	∅	0.1	20.9	79.0	2	
C-62		13:44	+0.03	∅	4.3	14.3	81.4	3	
D-86	∨	13:49	-0.03	∅	6.9	8.8	84.3	4	
E-110	3/27/18	13:54	+0.02	∅	2.6	16.4	81.0	4	
221									
A-13	3/27/18	14:01	-0.02	∅	1.4	18.3	80.3	2	
B-56		14:05	+0.09	∅	1.0	18.5	80.5	2	
C-99		14:09	+0.08	∅	1.3	19.4	79.3	3	
D-142	∨	14:14	+0.07	∅	0.1	20.5	79.4	4	
E-185	3/27/18	14:19	+0.06	∅	0.1	20.8	79.1	4	
222									
A-13	3/27/18	14:25	+0.05	∅	4.2	15.7	80.1	2	
B-54.8		14:28	+0.04	∅	0.4	20.0	79.6	2	
C-96.5		14:33	+0.03	∅	0.3	20.5	79.2	3	
D-138.3	∨	14:38	-0.03	∅	4.3	15.6	80.1	4	
E-180	3/27/18	14:43	-0.00	∅	0.1	20.9	79.0	4	
223	3/27/18								
A-13		14:54	+0.05	0.1	4.3	8.2	87.4	2	
B-37.5		14:57	+0.04	0.1	3.8	9.3	86.8	2	
C-62		15:02	0.00	∅	0.9	18.3	80.8	3	
D-86.5	∨	15:07	+0.04	∅	1.7	15.9	82.4	4	
E-111	3/27/18	15:12	0.00	∅	1.7	15.6	82.7	4	
224									
A-13								2	
B-67.5								2	
C-122								3	
D-177.5								4	
E-232								4	

SCS SINGNATURE:



LEA SIGNATURE:



SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
225									
A-13	3-27-18	1434	+0.62	0	.4	21.1	78.5	2	
B-72	3-27-18	1437	-5.96	0	-1	21.7	78.2	2	
C-1131	3-27-18	1440	+10.55	0	.8	20.4	78.8	3	
D-190	3-27-18	1444	+10.92	0	0	21.6	78.4	4	
E-244	3-27-18	1449	-10.24	0	.5	20.4	79.1	4	
226									
A-13	3-27-18	1315	+1.12	0	0	21.9	78.1	2	
B-64	3-27-18	1318	-12.43	0	.1	21.9	78.0	2	
C-114	3-27-18	1321	-12.32	0	.1	22.3	77.6	3	
D-164	3-27-18	1325	-12.44	0	0	22.6	77.4	4	
E-208	3-27-18	1330	-13.13	0	0	22.9	77.1	4	
227									
A-13	3-27-18	1339	+1.17	0	0	22.8	77.2	2	
B-48.7	3-27-18	1342	-4.6	0	0	22.5	77.5	2	
C-84.4	3-27-18	1346	-5.55	0	.3	21.8	77.9	3	
D-114	3-27-18	1350	-1.88	0	.2	22.0	77.8	4	
E-115.7	3-27-18	1355	-4.0	0	.6	21.1	78.3	4	
228									
A-13	3-27-18	1409	-1.3	0	.3	21.3	78.4	2	
B-63	3-27-18	1407	-6.0	0	2.5	15.0	82.5	2	
C-113	3-27-18	1410	-1.31	0	.3	21.8	77.9	3	
D-163	3-27-18	1414	-3.9	0	1.7	20.1	78.2	4	
E-213	3-27-18	1419	-4.3	0	2.4	17.6	80.0	4	
229									
A-13	3-27-18	1527	-1.77	0	.7	15.5	83.8	2	
B-48.7	3-27-18	1530	-11.66	0	.3	16.6	83.1	2	
C-84.4	3-27-18	1533	-13.71	0	0	17.8	82.2	3	
D-114	3-27-18	1537	-15.96	0	.5	16.6	82.9	4	
E-155.7	3-27-18	1542	-23.38	0	0	18.5	81.5	4	
230									
A-16								2	REMOVED DUE TO CONSTRUCTION
B-33								2	REMOVED DUE TO CONSTRUCTION
C-50								3	REMOVED DUE TO CONSTRUCTION
231									
A-13								2	REMOVED DUE TO CONSTRUCTION
B-26								2	REMOVED DUE TO CONSTRUCTION
C-39								3	REMOVED DUE TO CONSTRUCTION
D-51								4	REMOVED DUE TO CONSTRUCTION
E-66								4	REMOVED DUE TO CONSTRUCTION

2806

SCS SIGNATURE:



LEA SIGNATURE:

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SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: Saulo Diaz			TEMPERATURE: 72°F		BARO. PRESSURE: 30.1"				
GEM SERIAL #: G504541			WEATHER CONDITIONS: clear & sunny						
PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202									
A-10								2	REMOVED DUE TO CONSTRUCTION
B-25								2	REMOVED DUE TO CONSTRUCTION
C-38								3	REMOVED DUE TO CONSTRUCTION
203									
A-10	03/29/18	08:06	+0.01	0.0	4.2	16.7	79.1	2	
B-25	03/29/18	08:09	+0.01	0.0	4.3	16.6	79.1	2	
C-40	03/29/18	08:14	-0.01	0.0	3.6	17.0	79.4	3	
206									
A-10								2	
B-25								2	
C-40								3	
207									
A-10	03/29/18	10:33	-0.28	0.0	1.2	19.2	79.6	2	
B-25	03/29/18	10:37	-0.02	0.0	0.5	19.7	79.8	2	
C-40	03/29/18	10:42	+0.07	0.0	0.1	20.2	79.7	3	
208									
A-9.1								2	
B-25								2	
C-40								3	
210									
A-10								2	
B-25								2	
C-39								3	
242									
C-42								3	
D-60								4	
E-78								4	
243									
A-11	03/29/18	09:34	+0.01	0.1	13.1	0.1	86.7	2	
B-20	03/29/18	09:38	-0.06	0.0	11.3	2.1	86.6	2	
C-33	03/29/18	09:41	-0.03	0.0	2.6	14.7	82.7	3	

SCS SIGNATURE: 

LEA SIGNATURE \_\_\_\_\_

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: <u>A Romo</u>			TEMPERATURE: <u>68</u>		BARO. PRESSURE: <u>28.17</u>				
GEM SERIAL #: <u>504643</u>			WEATHER CONDITIONS: <u>SUNNY</u>						
PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202									
A-10								2	REMOVED DUE TO CONSTRUCTION
B-25								2	REMOVED DUE TO CONSTRUCTION
C-38								3	REMOVED DUE TO CONSTRUCTION
203									
A-10								2	
B-25								2	
C-40								3	
206									
A-10	<u>3-29-18</u>	<u>1029</u>	<u>+0.2</u>	<u>0</u>	<u>9.3</u>	<u>7.2</u>	<u>83.5</u>	2	
B-25	<u>3-29-18</u>	<u>1032</u>	<u>0</u>	<u>0</u>	<u>13.1</u>	<u>5.5</u>	<u>81.4</u>	2	
C-40	<u>3-29-18</u>	<u>1035</u>	<u>-0.01</u>	<u>0</u>	<u>20.0</u>	<u>4.8</u>	<u>75.2</u>	3	
207									
A-10								2	
B-25								2	
C-40								3	
208									
A-9.1	<u>3-29-18</u>	<u>1015</u>	<u>+1.10</u>	<u>0</u>	<u>7.5</u>	<u>10.0</u>	<u>82.5</u>	2	
B-25	<u>3-29-18</u>	<u>1018</u>	<u>+0.82</u>	<u>0</u>	<u>13.4</u>	<u>6.3</u>	<u>80.3</u>	2	
C-40	<u>3-29-18</u>	<u>1021</u>	<u>+0.03</u>	<u>0</u>	<u>16.6</u>	<u>2.7</u>	<u>80.7</u>	3	
210									
A-10	<u>3-29-18</u>	<u>919</u>	<u>-0.63</u>	<u>0</u>	<u>.2</u>	<u>19.7</u>	<u>80.1</u>	2	
B-25	<u>3-29-18</u>	<u>922</u>	<u>-0.78</u>	<u>0</u>	<u>.2</u>	<u>19.7</u>	<u>80.1</u>	2	
C-39	<u>3-29-18</u>	<u>925</u>	<u>-1.17</u>	<u>0</u>	<u>.1</u>	<u>20.0</u>	<u>79.9</u>	3	
242									
C-42	<u>3-29-18</u>	<u>941</u>	<u>+0.04</u>	<u>0</u>	<u>2.9</u>	<u>17.3</u>	<u>79.8</u>	3	
D-60	<u>3-29-18</u>	<u>945</u>	<u>+0.09</u>	<u>0</u>	<u>6.5</u>	<u>5.7</u>	<u>87.8</u>	4	
E-78	<u>3-29-18</u>	<u>950</u>	<u>+0.08</u>	<u>0</u>	<u>4.6</u>	<u>14.7</u>	<u>80.7</u>	4	
243									
A-11								2	
B-20								2	
C-33								3	

SCS SIGNATURE: 

LEA SIGNATURE \_\_\_\_\_









SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

TECHNICIAN: Sawlo Diaz			TEMPERATURE: 60°F		BARO. PRESSURE: 30.2"				
GEM SERIAL #: 6504541			WEATHER CONDITIONS: Sunny / wind: NE 11 mph						
PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
213									
A-13	04/17/18	08:04	-0.05	0.0	0.1	21.0	78.9	2	
B-29	04/17/18	08:07	-0.03	0.0	0.1	21.1	78.8	2	
C-45	04/17/18	08:13	-0.55	0.0	0.1	21.0	78.9	3	
D-61	04/17/18	08:18	-0.81	0.0	0.1	21.0	78.9	4	
E-77	04/17/18	08:23	-14.49	0.0	0.1	21.0	78.9	4	
214									
A-13	04/17/18	09:11	-0.06	0.0	7.6	8.9	83.5	2	
B-30	04/17/18	09:14	-14.39	0.0	0.1	19.9	80.0	2	
C-48	04/17/18	09:20	-19.39	0.0	1.0	20.0	79.0	3	
215									
A-13	04/17/18	08:41	+0.02	0.0	3.7	13.6	82.7	2	
B-30	04/17/18	08:48	+0.02	0.0	4.5	12.6	82.9	2	
C-47	04/17/18	08:52	-0.00	0.0	0.1	20.2	79.7	3	
D-64	04/17/18	08:57	-0.03	0.0	0.3	19.7	80.0	4	
E-81	04/17/18	09:03	-0.02	0.0	3.0	14.2	82.8	4	
216									
A-14	04/17/18	09:34	-0.17	0.0	0.2	20.7	79.1	2	
B-43	04/17/18	09:38	-0.02	0.0	0.1	20.8	79.1	2	
C-62	04/17/18	09:43	-0.07	0.0	0.1	20.8	79.1	3	
D-86	04/17/18	09:49	-0.09	0.0	0.1	20.8	79.1	4	
E-110	04/17/18	09:54	-0.15	0.0	0.1	20.7	79.2	4	
217									
A-13	04/17/18	10:07	-0.01	0.0	7.1	13.1	79.8	2	
B-30	04/17/18	10:10	-0.04	0.0	6.6	12.6	80.8	2	
218R									
A-11	04/17/18	10:24	-0.05	0.0	24.6	0.0	75.4	2	
B-26.5	04/17/18	10:29	-0.11	0.0	26.0	0.0	74.0	2	
B-30	04/17/18	10:32	-1.93	0.0	1.8	19.0	79.2	2	
219									
A-13	04/17/18	10:45	-0.02	0.0	1.7	18.5	79.8	2	
B-64	04/17/18	10:48	-0.03	0.0	5.1	9.9	85.0	2	
C-115	04/17/18	10:52	-0.07	0.0	0.5	20.4	79.1	3	
D-166	04/17/18	10:59	-0.04	0.0	0.3	20.7	79.0	4	
E-217	04/17/18	11:04	-0.05	0.0	2.5	16.5	81.0	4	

SCS SIGNATURE: Sawlo Diaz

LEA SIGNATURE \_\_\_\_\_

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

ALBERT ROMO

GEM 6504543

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
220									
A-14	4-17-18	743	+1.13	0	6.2	11.2	82.6	2	
B-40	4-17-18	746	+1.18	0	.1	22.7	77.2	2	
C-87	4-17-18	749	+1.04	0	1.3	20.5	78.2	3	
D-124	4-17-18	753	+1.17	.1	.3	22.6	77.0	4	
E-158	4-17-18	758	-1.02	.3	.9	20.9	77.9	4	
220B									
A-14	4-17-18	811	+1.16	0	2.9	19.0	78.1	2	
B-38	4-17-18	814	+1.02	0	.1	22.9	77.0	2	
C-62	4-17-18	817	+1.16	0	4.8	14.0	81.2	3	
D-86	4-17-18	821	-1.50	0	4.4	16.2	79.4	4	
E-110	4-17-18	826	-1.16	0	3.5	17.9	78.6	4	
221									
A-13	4-17-18	841	+1.35	0	1.3	21.3	77.4	2	
B-56	4-17-18	844	-1.01	0	.6	21.9	77.5	2	
C-99	4-17-18	847	-1.29	0	1.2	21.6	77.2	3	
D-142	4-17-18	851	-1.04	0	.1	22.6	77.3	4	
E-185	4-17-18	856	+1.05	0	.1	22.5	77.4	4	
222									
A-13	4-17-18	904	+1.08	0	2.7	19.6	77.7	2	
B-54.8	4-17-18	907	+1.03	0	.1	22.3	77.6	2	
C-96.5	4-17-18	910	+1.04	0	.1	22.2	77.7	3	
D-138.3	4-17-18	914	-1.03	0	3.4	18.3	78.3	4	
E-180	4-17-18	919	+1.02	0	.1	22.0	77.9	4	
223									
A-13	4-17-18	952	+1.05	0	5.8	10.3	83.9	2	
B-37.5	4-17-18	955	+1.08	0	6.0	8.7	85.3	2	
C-62	4-17-18	958	+1.05	0	.8	20.5	78.7	3	
D-86.5	4-17-18	1002	+1.02	0	1.9	18.4	79.7	4	
E-111	4-17-18	1007	+1.19	0	3.2	16.0	80.8	4	
224									
A-13	4-17-18	1018	+1.02	0	.1	22.0	77.9	2	
B-67.5	4-17-18	1020	+1.04	0	0	22.0	78.0	2	
C-122	4-17-18	1023	-1.05	0	0	21.8	78.2	3	
D-177.5	4-17-18	1027	-13.70	0	0	21.6	78.4	4	
E-232	4-17-18	1032	-10.46	0	0	21.5	78.5	4	

SCS SIGNATURE:



LEA SIGNATURE:

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SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

ALBERT ROMO

GEM 6504543

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
225									
A-13	4-17-18	1041	-1.10	0	.6	21.1	78.3	2	
B-72	4-17-18	1045	-1.50	0	.3	20.9	78.8	2	
C-1131	4-17-18	1047	-11.60	0	1.1	20.1	78.8	3	
D-190	4-17-18	1051	-11.75	0	.1	21.3	78.6	4	
E-244	4-17-18	1056	-10.95	0	.8	20.4	78.8	4	
226									
A-13	4-17-18	1105	-1.05	0	0	21.5	78.5	2	
B-64	4-17-18	1108	-13.09	0	.1	21.5	78.4	2	
C-114	4-17-18	1110	-12.55	0	.1	21.6	78.3	3	
D-164	4-17-18	1114	-13.35	0	0	21.7	78.3	4	
E-208	4-17-18	1118	-14.04	0	0	21.6	78.4	4	
227									
A-13	4-17-18	1333	-1.12	0	0	20.3	77.7	2	
B-48.7	4-17-18	1336	-1.00	0	.2	21.7	78.1	2	
C-84.4	4-17-18	1338	-1.01	0	.3	21.3	78.4	3	
D-114	4-17-18	1342	-1.34	0	.4	20.9	78.7	4	
E-115.7	4-17-18	1347	-1.76	0	.5	20.5	79.0	4	
228									
A-13	4-17-18	1357	-1.18	0	.5	20.5	79.0	2	
B-63	4-17-18	1401	-1.14	0	3.6	12.5	83.9	2	
C-113	4-17-18	1404	-1.79	0	.2	21.8	78.0	3	
D-163	4-17-18	1407	-1.81	0	.7	21.3	78.0	4	
E-213	4-17-18	1412	-1.60	0	1.4	19.2	79.4	4	
229									
A-13								2	
B-48.7								2	
C-84.4								3	
D-114								4	
E-155.7								4	
230									
A-16								2	REMOVED DUE TO CONSTRUCTION
B-33								2	REMOVED DUE TO CONSTRUCTION
C-50								3	REMOVED DUE TO CONSTRUCTION
231									
A-13								2	REMOVED DUE TO CONSTRUCTION
B-26								2	REMOVED DUE TO CONSTRUCTION
C-39								3	REMOVED DUE TO CONSTRUCTION
D-51								4	REMOVED DUE TO CONSTRUCTION
E-66								4	REMOVED DUE TO CONSTRUCTION

SCS SIGNATURE:



LEA SIGNATURE:

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SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

SAULO DIAZ

GEM 6504541

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
225									
A-13								2	
B-72								2	
C-1131								3	
D-190								4	
E-244								4	
226									
A-13								2	
B-64								23	
C-114								3	
D-164								4	
E-208								4	
227									
A-13								2	
B-48.7								2	
C-84.4								3	
D-114								4	
E-115.7								4	
228									
A-13								2	
B-63								2	
C-113								3	
D-163								4	
E-213								4	
229									
A-13	04/17/18	11:25	-1.16	0.0	0.9	18.1	81.0	2	
B-48.7	04/17/18	11:32	-12.81	0.0	0.3	20.1	79.6	2	
C-84.4	04/17/18	11:36	-15.38	0.0	0.1	20.9	79.0	3	
D-114	04/17/18	11:41	-17.41	0.0	0.4	19.6	80.0	4	
E-155.7	04/17/18	11:48	-25.01	0.0	0.1	21.1	78.8	4	
230									
A-16								2	REMOVED DUE TO CONSTRUCTION
B-33								2	REMOVED DUE TO CONSTRUCTION
C-50								3	REMOVED DUE TO CONSTRUCTION
231									
A-13								2	REMOVED DUE TO CONSTRUCTION
B-26								2	REMOVED DUE TO CONSTRUCTION
C-39								3	REMOVED DUE TO CONSTRUCTION
D-51								4	REMOVED DUE TO CONSTRUCTION
E-66								4	REMOVED DUE TO CONSTRUCTION

SCS SIGNATURE: Saulo Diaz

LEA SIGNATURE: \_\_\_\_\_



SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: Saulo Diaz			TEMPERATURE: 53°F		BARO. PRESSURE: 30"				WEATHER CONDITIONS: Partly cloudy / wind: SW 7 mph
GEM SERIAL #: G504643									
PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202									
A-10								2	REMOVED DUE TO CONSTRUCTION
B-25								2	REMOVED DUE TO CONSTRUCTION
C-38								3	REMOVED DUE TO CONSTRUCTION
203									
A-10	04/19/18	08:09	+0.03	0.0	4.6	17.1	78.3	2	
B-25	04/19/18	08:12	-0.01	0.0	4.8	16.4	78.8	2	
C-40	04/19/18	08:17	-0.00	0.0	4.6	16.5	78.9	3	
206									
A-10	04/19/18	10:37	-0.03	0.0	11.2	9.6	79.2	2	
B-25	04/19/18	10:43	-0.03	0.0	13.8	6.5	79.7	2	
C-40	04/19/18	10:46	-0.08	0.0	21.3	3.9	74.8	3	
207									
A-10								2	
B-25								2	
C-40								3	
208									
A-9.1								2	
B-25								2	
C-40								3	
210									
A-10								2	
B-25								2	
C-39								3	
242									
C-42								3	
D-60								4	
E-78								4	
243									
A-11	04/19/18	09:36	-0.05	0.1	13.2	0.2	86.5	2	
B-20	04/19/18	09:40	+0.01	0.0	7.7	8.4	83.9	2	
C-33	04/19/18	09:45	0.00	0.0	5.8	11.4	82.8	3	

SCS SIGNATURE: 

LEA SIGNATURE \_\_\_\_\_



SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: <u>AROMO</u>			TEMPERATURE: <u>46</u>		BARO. PRESSURE: <u>28.06</u>				PURGE TIME (MIN)	COMMENTS
GEM SERIAL #: <u>G500390</u>			WEATHER CONDITIONS: <u>CLOUDY</u>							
PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL			
202										
A-10								2	REMOVED DUE TO CONSTRUCTION	
B-25								2	REMOVED DUE TO CONSTRUCTION	
C-38								3	REMOVED DUE TO CONSTRUCTION	
203										
A-10								2		
B-25								2		
C-40								3		
206										
A-10								2		
B-25								2		
C-40								3		
207										
A-10	4-19-18	1022	-0.43	0	1.8	19.5	78.7	2		
B-25	4-19-18	1025	-1.40	0	.3	21.0	78.7	2		
C-40	4-19-18	1028	-0.01	0	.1	21.2	78.7	3		
208										
A-9.1	4-19-18	1008	-0.13	0	8.6	11.0	80.4	2		
B-25	4-19-18	1010	-0.14	0	11.1	10.4	78.5	2		
C-40	4-19-18	1013	-0.26	0	9.3	11.9	78.8	3		
210										
A-10	4-19-18	824	-0.91	0	.2	21.6	78.2	2		
B-25	4-19-18	837	-0.96	0	.2	21.5	78.3	2		
C-39	4-19-18	840	-0.43	0	.1	21.6	78.3	3		
242										
C-42	4-19-18	855	-0.19	0	3.2	16.0	80.8	3		
D-60	4-19-18	858	-0.18	0	7.3	5.0	87.7	4		
E-78	4-19-18	902	-0.46	0	5.3	10.7	84.0	4		
243										
A-11								2		
B-20								2		
C-33								3		

SCS SIGNATURE: 

LEA SIGNATURE \_\_\_\_\_

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

SAULO DIAZ

GEM 6504643

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
244									
A-11								2	
B-21								2	
C-36								3	
245									
A-11	04/19/18	08:35	-0.02	0.0	14.0	4.0	82.0	2	
B-20	04/19/18	08:43	-0.01	0.0	25.3	0.4	74.3	2	
C-35	04/19/18	08:48	-0.01	0.0	22.8	0.3	76.9	3	
D-50	04/19/18	08:54	-0.03	0.0	18.7	0.4	80.9	4	
E-64	04/19/18	09:04	+0.05	0.1	7.4	8.2	84.3	4	
246									
A-9								2	REMOVED DUE TO CONSTRUCTION
B-16								2	REMOVED DUE TO CONSTRUCTION
205R									
A-11	04/19/18	09:55	0.00	0.0	8.7	5.6	86.7	2	
B-20	04/19/18	09:59	-0.01	0.4	24.5	0.9	74.2	2	
C-33	04/19/18	10:04	-0.14	0.2	35.3	0.2	64.3	3	
D-48	04/19/18	10:09	-0.10	2.9	43.4	0.0	53.7	4	
E-62	04/19/18	10:15	-0.59	0.9	29.8	0.0	69.3	4	
239									
A-11								2	
B-20								2	
C-35								3	
D-50								4	
E-64								4	
240									
A-11								2	
B-20								2	
C-33								3	
D-49								4	
E-61								4	

SCS SIGNATURE



LEA SIGNATURE: \_\_\_\_\_

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

A. ROMO

GEM # 6500390

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
244									
A-11	4-19-18	932	-0.25	0	17.6	9.1	82.3	2	
B-21	4-19-18	935	-0.23	0.2	16.5	9.1	78.2	2	
C-36	4-19-18	938	-0.47	0	8.9	16.0	78.1	3	
245									
A-11								2	
B-20								2	
C-35								3	
D-50								4	
E-64								4	
246									
A-9								2	REMOVED DUE TO CONSTRUCTION
B-16								2	REMOVED DUE TO CONSTRUCTION
205R									
A-11								2	
B-20								2	
C-33								3	
D-48								4	
E-62								4	
239									
A-11	4-19-18	807	-0.21	0	15.5	9.1	75.4	2	
B-20	4-19-18	816	-0.22	0	0.1	22.0	77.9	2	
C-35	4-19-18	813	+1.11	0	0.1	22.1	77.8	3	
D-50	4-19-18	817	-0.20	0	0.1	22.2	77.7	4	
E-64	4-19-18	822	-0.19	0	0.1	22.2	77.7	4	
240									
A-11	4-19-18	737	-0.23	0	15.8	7.3	76.9	2	
B-20	4-19-18	740	-15.26	0	0.3	21.2	78.5	2	
C-33	4-19-18	743	-0.18	0	0.1	21.5	78.4	3	
D-49	4-19-18	747	-0.22	0	0.1	21.7	78.2	4	
E-61	4-19-18	752	-0.21	0.2	0.1	21.8	77.9	4	

SCS SIGNATURE:



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SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

TECHNICIAN: A Romo			TEMPERATURE: 62		BARO. PRESSURE: 28.51				COMMENTS
GEM SERIAL #: 6500291			WEATHER CONDITIONS: cloudy						
PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	
213									
A-13	5-22-18	817	-0.01	0	.6	19.8	79.6	2	
B-29	5-22-18	820	-0.06	0	.1	20.7	79.2	2	
C-45	5-22-18	823	-0.07	0	.1	20.8	79.1	3	
D-61	5-22-18	827	-0.53	0	.1	20.9	79.0	4	
E-77	5-22-18	831	-13.20	0	.1	21.1	78.8	4	
214									
A-13	5-22-18	842	-0.05	0	7.5	11.9	80.6	2	
B-30	5-22-18	845	-10.48	0	.1	21.0	78.9	2	
C-48	5-22-18	847	-14.20	0	.1	20.9	79.0	3	
215									
A-13	5-22-18	855	+0.04	0	4.7	9.5	85.8	2	
B-30	5-22-18	858	-0.01	0	.1	20.8	79.1	2	
C-47	5-22-18	901	+0.07	0	.1	20.8	79.1	3	
D-64	5-22-18	904	+0.04	0	.2	20.6	79.2	4	
E-81	5-22-18	909	+0.02	0	2.8	14.1	83.1	4	
216									
A-14	5-18-22	921	+0.01	0	.1	20.9	79.0	2	
B-43	5-18-22	924	+0.04	0	.1	20.9	79.0	2	
C-62	5-18-22	927	+0.02	0	.1	21.0	78.9	3	
D-86	5-18-22	931	+0.04	0	.1	21.1	78.8	4	
E-110	5-18-22	935	+0.02	0	.3	20.8	78.9	4	
217									
A-13	5-22-18	948	0	0	5.5	15.0	79.5	2	
B-30	5-22-18	950	+0.01	0	4.3	17.0	79.7	2	
218R									
A-11	5-22-18	959	+0.04	.1	24.0	1.9	74.0	2	
B-26.5	5-22-18	1002	0	0	21.2	4.6	74.2	2	
B-30	5-22-18	1004	-0.40	0	2.2	20.3	77.5	2	
219									
A-13	5-22-18	1015	+0.02	0	2.2	18.0	79.8	2	
B-64	5-22-18	1022	+0.04	0	3.4	13.3	83.3	2	
C-115	5-22-18	1025	+0.04	0	.1	20.8	79.1	3	
D-166	5-22-18	1029	+0.13	0	.3	20.3	79.4	4	
E-217	5-22-18	1034	+0.07	0	4.0	11.2	84.8	4	

SCS SIGNATURE: \_\_\_\_\_

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SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

S. DIAZ

GEM 504643

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
220									
A-14	05/22/18	08:30	-0.01	0.0	4.3	16.7	79.0	2	
B-40	05/22/18	08:33	-0.01	0.0	1.6	19.3	79.1	2	
C-87	05/22/18	08:37	0.00	0.0	0.1	20.7	79.2	3	
D-124	05/22/18	08:43	-0.02	0.0	0.3	20.4	79.3	4	
E-158	05/22/18	08:50	-0.04	0.7	5.0	10.7	83.6	4	
220B									
A-14	05/22/18	09:00	+0.01	0.0	3.8	16.0	80.2	2	
B-38	05/22/18	09:04	-0.06	0.0	1.1	19.0	79.9	2	
C-62	05/22/18	09:09	-0.21	0.0	6.0	10.7	83.3	3	
D-86	05/22/18	09:17	-0.12	0.0	5.9	11.1	83.0	4	
E-110	05/22/18	09:24	-0.12	0.0	6.9	5.3	87.8	4	
221									
A-13	05/22/18	09:34	+0.03	0.0	1.4	19.3	79.3	2	
B-56	05/22/18	09:38	-0.02	0.0	0.7	20.0	79.3	2	
C-99	05/22/18	09:43	-0.10	0.0	1.0	20.1	78.9	3	
D-142	05/22/18	09:49	-0.02	0.0	0.0	21.1	78.9	4	
E-185	05/22/18	09:55	0.00	0.0	0.0	20.9	79.1	4	
222									
A-13	05/22/18	10:03	+0.01	0.0	2.1	19.0	78.9	2	
B-54.8	05/22/18	10:06	-0.02	0.0	0.0	21.0	79.0	2	
C-96.5	05/22/18	10:11	+0.01	0.0	0.1	20.9	79.0	3	
D-138.3	05/22/18	10:16	-0.01	0.0	3.5	16.4	80.1	4	
E-180	05/22/18	<del>10:19</del> 10:22	-0.03	0.0	0.1	20.8	79.1	4	
223									
A-13	05/22/18	10:35	-0.03	0.0	6.8	8.2	85.0	2	
B-37.5	05/22/18	10:38	+0.02	0.0	8.4	3.5	88.1	2	
C-62	05/22/18	10:43	-0.04	0.0	5.9	10.8	83.3	3	
D-86.5	05/22/18	10:49	-0.01	0.0	2.8	16.6	80.6	4	
E-111	05/22/18	10:54	+0.01	0.0	4.9	11.7	83.4	4	
224									
A-13	05/22/18	11:06	-0.01	0.0	0.6	20.4	79.0	2	
B-67.5	05/22/18	11:11	-0.01	0.0	0.0	21.0	79.0	2	
C-122	05/22/18	11:15	-0.04	0.0	0.0	21.0	79.0	3	
D-177.5	05/22/18	11:21	-12.24	0.0	0.0	21.0	79.0	4	
E-232	05/22/18	11:28	-8.67	0.0	0.0	21.0	79.0	4	

SCS SINGATURE: 

LEA SIGNATURE: \_\_\_\_\_

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

S. DIAZ

GEM 504643

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
225									
A-13	05/22/18	13:42	-0.10	0.0	1.5	19.4	79.1	2	
B-72	05/22/18	13:47	-5.08	0.0	0.6	20.1	79.3	2	
C-1131	05/22/18	13:51	-9.67	0.0	1.9	19.0	79.1	3	
D-190	05/22/18	13:56	-10.01	0.0	0.1	20.5	79.4	4	
E-244	05/22/18	14:02	-9.41	0.0	1.3	19.3	79.4	4	
226									
A-13	05/22/18	14:14	0.00	0.0	0.0	20.7	79.3	2	
B-64	05/22/18	14:18	-11.85	0.0	0.0	20.7	79.3	23	
C-114	05/22/18	14:24	-11.14	0.0	0.0	21.1	78.9	3	
D-164	05/22/18	14:32	-11.90	0.0	0.0	21.2	78.8	4	
E-208	05/22/18	14:39	-11.94	0.0	0.1	20.9	79.0	4	
227									
A-13								2	
B-48.7								2	
C-84.4								3	
D-114								4	
E-115.7								4	
228									
A-13								2	
B-63								2	
C-113								3	
D-163								4	
E-213								4	
229									
A-13								2	
B-48.7								2	
C-84.4								3	
D-114								4	
E-155.7								4	
230									
A-16								2	REMOVED DUE TO CONSTRUCTION
B-33								2	REMOVED DUE TO CONSTRUCTION
C-50								3	REMOVED DUE TO CONSTRUCTION
231									
A-13								2	REMOVED DUE TO CONSTRUCTION
B-26								2	REMOVED DUE TO CONSTRUCTION
C-39								3	REMOVED DUE TO CONSTRUCTION
D-51								4	REMOVED DUE TO CONSTRUCTION
E-66								4	REMOVED DUE TO CONSTRUCTION

SCS SIGNATURE: Saul Diaz

LEA SIGNATURE: \_\_\_\_\_

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

A. ROMO

GEM 6500390

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
225									
A-13								2	
B-72								2	
C-1131								3	
D-190								4	
E-244								4	
226									
A-13								2	
B-64								23	
C-114								3	
D-164								4	
E-208								4	
227									
A-13	5-22-18	1436	+2.24	0	2.6	10.0	87.4	2	
B-48.7	5-22-18	1432	+2.20	0	.1	9.0	90.9	2	
C-84.4	5-22-18	1435	+2.23	.1	5.2	1.8	92.9	3	
D-114	5-22-18	1439	+2.25	.1	4.5	.6	94.8	4	
E-115.7	5-22-18	1443	+2.25	0	4.8	2.3	92.9	4	
228									
A-13	5-22-18	1407	+1.13	.1	2.7	9.8	87.4	2	
B-63	5-22-18	1411	+1.08	0	.1	20.4	79.5	2	
C-113	5-22-18	1416	+1.42	.1	5.3	1.6	93.0	3	
D-163	5-22-18	1420	+1.43	0	.3	9.8	89.9	4	
E-213	5-22-18	1425	+1.33	0	4.8	2.1	93.1	4	
229									
A-13	5-22-18	1052	-1.71	0	.5	19.2	80.3	2	
B-48.7	5-22-18	1055	-12.25	0	.1	20.6	79.3	2	
C-84.4	5-22-18	1058	-13.72	0	.1	20.6	79.3	3	
D-114	5-22-18	1102	-15.85	0	.3	20.2	79.5	4	
E-155.7	5-22-18	1107	-23.97	0	0	21.0	79.0	4	
230									
A-16								2	REMOVED DUE TO CONSTRUCTION
B-33								2	REMOVED DUE TO CONSTRUCTION
C-50								3	REMOVED DUE TO CONSTRUCTION
231									
A-13								2	REMOVED DUE TO CONSTRUCTION
B-26								2	REMOVED DUE TO CONSTRUCTION
C-39								3	REMOVED DUE TO CONSTRUCTION
D-51								4	REMOVED DUE TO CONSTRUCTION
E-66								4	REMOVED DUE TO CONSTRUCTION

SCS SIGNATURE:



LEA SIGNATURE:

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SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: Saulo Diaz		TEMPERATURE: 60°F		BARO. PRESSURE: 30.1"					
GEM SERIAL #: 9504643		WEATHER CONDITIONS: cloudy							
PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202									
A-10								2	REMOVED DUE TO CONSTRUCTION
B-25								2	REMOVED DUE TO CONSTRUCTION
C-38								3	REMOVED DUE TO CONSTRUCTION
203									
A-10	05/24/18	08:27	-0.04	0.0	4.0	17.6	78.4	2	
B-25	05/24/18	08:30	-0.03	0.0	4.9	16.1	79.0	2	
C-40	05/24/18	08:36	0.00	0.0	4.2	16.7	79.1	3	
206									
A-10	05/24/18	07:22	-0.01	0.0	10.1	13.1	76.8	2	
B-25	05/24/18	07:26	-0.02	0.0	13.6	10.2	76.2	2	
C-40	05/24/18	07:30	-0.01	0.0	20.1	5.4	74.5	3	
207									
A-10	05/24/18	10:39	-0.31	0.0	2.4	19.2	78.4	2	
B-25	05/24/18	10:43	-2.57	0.0	0.5	20.5	79.0	2	
C-40	05/24/18	10:47	-0.25	0.0	0.1	21.0	78.9	3	
208									
A-9.1								2	
B-25								2	
C-40								3	
210									
A-10								2	
B-25								2	
C-39								3	
242									
C-42								3	
D-60								4	
E-78								4	
243									
A-11	05/24/18	09:53	-0.02	0.0	13.0	0.4	86.6	2	
B-20	05/24/18	09:57	+0.02	0.0	6.7	11.4	81.9	2	
C-33	05/24/18	10:02	+0.01	0.0	5.0	14.4	80.6	3	

SCS SIGNATURE: 

LEA SIGNATURE \_\_\_\_\_

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: <u>A. ROMO</u>			TEMPERATURE: <u>55</u>		BARO. PRESSURE: <u>28.14</u>				COMMENTS
GEM SERIAL #: <u>6500390</u>			WEATHER CONDITIONS: <u>cloudy</u>						
PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	
202									
A-10								2	REMOVED DUE TO CONSTRUCTION
B-25								2	REMOVED DUE TO CONSTRUCTION
C-38								3	REMOVED DUE TO CONSTRUCTION
203									
A-10								2	
B-25								2	
C-40								3	
206									
A-10								2	
B-25								2	
C-40								3	
207									
A-10								2	
B-25								2	
C-40								3	
208									
A-9.1	5-24-18	954	+0.08	0	1.6	20.3	78.1	2	
B-25	5-24-18	957	-0.02	0	12.4	9.2	78.4	2	
C-40	5-24-18	1000	-0.01	0	2.8	18.0	79.2	3	
210									
A-10	5-24-18	841	-0.62	0	.1	21.7	78.2	2	
B-25	5-24-18	844	-0.70	0	.1	21.6	78.3	2	
C-39	5-24-18	847	-0.30	0	.1	21.6	78.3	3	
242									
C-42	5-24-18	857	-0.07	0	3.3	16.2	80.5	3	
D-60	5-24-18	901	-0.04	0	.4	16.0	83.6	4	
E-78	5-24-18	906	+0.03	0	5.6	10.0	84.4	4	
243									
A-11								2	
B-20								2	
C-33								3	

SCS SIGNATURE: \_\_\_\_\_



LEA SIGNATURE \_\_\_\_\_

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

A, Romo

GEM 500390

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
244									
A-11	5-24-18	934	-0.18	.1	14.8	3.9	81.2	2	
B-21	5-24-18	938	+0.03	.2	19.1	.9	79.8	2	
C-36	5-24-18	944	-0.01	0	9.7	12.5	77.8	3	
245									
A-11								2	
B-20								2	
C-35								3	
D-50								4	
E-64								4	
246									
A-9								2	REMOVED DUE TO CONSTRUCTION
B-16								2	REMOVED DUE TO CONSTRUCTION
205R									
A-11								2	
B-20								2	
C-33								3	
D-48								4	
E-62								4	
239									
A-11	5-24-18	813	-0.08	0	13.3	12.1	74.6	2	
B-20	5-24-18	816	0	0	.1	21.6	78.3	2	
C-35	5-24-18	820	-0.05	0	.1	21.6	78.3	3	
D-50	5-24-18	823	-0.04	0	.1	21.7	78.2	4	
E-64	5-24-18	828	+0.03	0	.1	21.8	78.1	4	
240									
A-11	5-24-18	749	-0.24	0	5.9	15.5	78.6	2	
B-20	5-24-18	752	-0.01	0	.2	20.9	78.9	2	
C-33	5-24-18	754	+0.15	0	.1	21.1	78.8	3	
D-49	5-24-18	758	-0.05	0	.1	21.3	78.6	4	
E-61	5-24-18	803	+0.01	.2	.1	21.4	78.3	4	

SCS SIGNATURE:



LEA SIGNATURE:

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SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

S. DIAZ

GEM 504643

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
244									
A-11								2	
B-21								2	
C-36								3	
245									
A-11	05/24/18	08:55	0.00	0.0	12.8	6.1	81.1	2	
B-20	05/24/18	08:59	+0.01	0.0	22.4	0.8	76.8	2	
C-35	05/24/18	09:04	-0.04	0.0	22.3	0.5	77.2	3	
D-50	05/24/18	09:10	-0.04	0.0	18.2	0.6	81.2	4	
E-64	05/24/18	09:15	-0.01	0.0	0.2	20.6	79.2	4	
246									
A-9								2	REMOVED DUE TO CONSTRUCTION
B-16								2	REMOVED DUE TO CONSTRUCTION
205R									
A-11	05/24/18	07:41	+0.01	0.0	9.6	10.8	79.6	2	
B-20	05/24/18	07:47	-0.18	0.7	28.1	1.1	70.1	2	
C-33	05/24/18	07:51	-0.41	2.0	40.6	0.0	57.4	3	
D-48	05/24/18	07:58	-0.10	3.1	44.0	0.0	52.9	4	
E-62	05/24/18	08:04	-0.24	2.0	37.2	0.0	60.8	4	
239									
A-11								2	
B-20								2	
C-35								3	
D-50								4	
E-64								4	
240									
A-11								2	
B-20								2	
C-33								3	
D-49								4	
E-61								4	

SCS SIGNATURE: 

LEA SIGNATURE: \_\_\_\_\_



SUNSHINE CANYON CITY PERIMETER PROBE MONITORING DATA

TECHNICIAN: <b>AROMO</b>		TEMPERATURE: <b>66</b>		BARO. PRESSURE: <b>24.31</b>					
GEM SERIAL #: <b>G500390</b>		WEATHER CONDITIONS: <b>SUNNY</b>							
PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
213									
A-13	6-26-18	754	-2.1	0	.1	21.0	78.9	2	
B-29	6-26-18	757	-2.8	0	.1	21.0	78.9	2	
C-45	6-26-18	800	-3.9	0	.1	21.0	78.9	3	
D-61	6-26-18	804	-9.1	0	.3	20.6	79.1	4	
E-77	6-26-18	809	-14.15	.1	.1	20.9	78.9	4	
214									
A-13	6-26-18	841	-2.0	0	8.4	12.1	79.5	2	
B-30	6-26-18	844	-11.92	0	.1	20.7	79.2	2	
C-48	6-26-18	848	-15.40	0	.8	19.9	79.3	3	
215									
A-13	6-26-18	856	-1.1	0	5.1	8.8	86.1	2	
B-30	6-26-18	859	-1.08	0	3.5	12.7	83.8	2	
C-47	6-26-18	902	-1.08	0	.1	20.7	79.2	3	
D-64	6-26-18	906	-1.05	.1	.2	20.4	79.3	4	
E-81	6-26-18	911	-1.13	.1	.3	20.5	79.1	4	
216									
A-14	6-26-18	924	-1.05	0	.1	24.5	79.4	2	
B-43	6-26-18	936	-1.05	0	.1	24.5	79.4	2	
C-62	6-26-18	940	-1.01	0	.1	24.4	79.5	3	
D-86	6-26-18	945	+1.02	0	.1	24.3	79.4	4	
E-110	6-26-18	949	+1.01	0	.1	24.4	79.5	4	
217									
A-13	6-26-18	959	+1.01	0	4.0	16.2	79.9	2	
B-30	6-26-18	1001	+1.02	0	3.1	17.5	79.4	2	
218R									
A-11	6-26-18	1010	-1.05	0	22.8	2.4	74.8	2	
B-26.5	6-26-18	1012	+1.07	0	16.8	8.1	75.1	2	
B-30	6-26-18	1015	+1.07	0	11.1	17.0	71.9	2	
219									
A-13	6-26-18	1025	+1.10	0	1.5	17.9	80.6	2	
B-64	6-26-18	1028	+1.10	0	3.2	12.3	84.5	2	
C-115	6-26-18	1031	+1.09	0	.4	19.2	80.4	3	
D-166	6-26-18	1034	+1.11	0	.1	19.8	80.1	4	
E-217	6-26-18	1038	+1.13	0	.2	18.3	81.5	4	

SCS SIGNATURE: 

LEA SIGNATURE: \_\_\_\_\_

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

S. DIAZ GEM 504643

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
220									
A-14	06/26/18	07:32	-0.04	0.0	3.5	19.1	77.3	2	
B-40	06/26/18	07:36	-0.08	0.0	0.7	20.7	78.6	2	
C-87	06/26/18	07:41	-0.04	0.0	0.9	20.6	78.5	3	
D-124	06/26/18	07:47	-0.04	0.0	0.2	20.8	79.0	4	
E-158	06/26/18	07:52	-0.05	0.0	0.4	20.6	79.0	4	
220B									
A-14	06/26/18	08:07	-0.01	0.0	4.0	16.5	79.5	2	
B-38	06/26/18	08:11	-0.06	0.0	0.9	19.8	79.3	2	
C-62	06/26/18	08:15	-0.16	0.0	5.6	12.9	81.5	3	
D-86	06/26/18	08:20	-0.14	0.0	5.9	12.1	82.0	4	
E-110	06/26/18	08:25	-0.17	0.0	4.3	15.4	80.3	4	
221									
A-13	06/26/18	08:38	-0.01	0.0	1.0	20.2	78.8	2	
B-56	06/26/18	08:43	-0.01	0.0	5.6	12.1	82.3	2	
C-99	06/26/18	08:51	-0.25	0.0	0.5	19.7	79.8	3	
D-142	06/26/18	08:57	-0.18	0.0	0.0	19.8	80.2	4	
E-185	06/26/18	09:05	-0.01	0.0	0.0	20.7	79.3	4	
222									
A-13	06/26/18	09:11	-0.02	0.0	1.5	19.1	79.4	2	
B-54.8	06/26/18	09:14	-0.05	0.0	0.0	20.7	79.3	2	
C-96.5	06/26/18	09:18	-0.01	0.1	0.1	20.9	78.9	3	
D-138.3	06/26/18	09:25	-0.04	0.0	2.3	18.8	78.9	4	
E-180	06/26/18	09:30	-0.05	0.0	0.1	21.4	78.5	4	
223									
A-13	06/26/18	09:40	-0.04	0.0	6.8	8.4	84.8	2	
B-37.5	06/26/18	09:43	-0.02	0.0	8.4	3.0	88.6	2	
C-62	06/26/18	09:48	-0.05	0.0	6.9	8.7	84.4	3	
D-86.5	06/26/18	09:54	-0.08	0.0	2.5	16.7	80.8	4	
E-111	06/26/18	09:58	-0.05	0.0	4.5	12.1	83.4	4	
224									
A-13	06/26/18	10:07	-0.12	0.0	0.8	20.0	79.2	2	
B-67.5	06/26/18	10:11	-0.07	0.0	0.0	20.9	79.1	2	
C-122	06/26/18	10:15	-0.12	0.0	0.0	21.1	78.9	3	
D-177.5	06/26/18	10:21	-12.68	0.0	0.0	21.1	78.9	4	
E-232	06/26/18	10:30	-9.48	0.0	0.0	21.0	79.0	4	

SCS SINGNATURE: 

LEA SIGNATURE: \_\_\_\_\_




SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

S. DIAZ

GEM 504693

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	%VOL CH4	%VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
225									
A-13	06/26/18	10:47	-0.03	0.0	1.1	19.5	79.4	2	
B-72	06/26/18	10:50	-5.85	0.0	0.5	20.1	79.4	2	
C-1131	06/26/18	10:54	-10.66	0.0	1.4	19.2	79.4	3	
D-190	06/26/18	10:59	-10.82	0.0	0.0	20.6	79.4	4	
E-244	06/26/18	11:04	-10.15	0.0	1.0	19.5	79.5	4	
226									
A-13	06/26/18	13:41	+0.03	0.0	0.0	20.8	79.2	2	
B-64	06/26/18	13:44	-11.49	0.0	0.0	20.5	79.5	2	
C-114	06/26/18	13:48	-11.24	0.0	0.0	20.5	79.5	3	
D-164	06/26/18	13:54	-11.84	0.0	0.0	20.7	79.3	4	
E-208	06/26/18	14:00	-12.28	0.0	0.1	20.6	79.3	4	
227									
A-13	06/26/18	14:08	-0.03	0.0	0.2	20.1	79.7	2	
B-48.7	06/26/18	14:11	-0.58	0.0	0.1	20.3	79.6	2	
C-84.4	06/26/18	14:15	-0.74	0.0	0.3	20.1	79.6	3	
D-114	06/26/18	14:20	-0.95	0.0	0.3	20.2	79.5	4	
E-115.7	06/26/18	14:27	-0.54	0.0	0.1	20.2	79.7	4	
228									
A-13								2	
B-63								2	
C-113								3	
D-163								4	
E-213								4	
229									
A-13								2	
B-48.7								2	
C-84.4								3	
D-114								4	
E-155.7								4	
230									
A-16								2	REMOVED DUE TO CONSTRUCTION
B-33								2	REMOVED DUE TO CONSTRUCTION
C-50								3	REMOVED DUE TO CONSTRUCTION
231									
A-13								2	REMOVED DUE TO CONSTRUCTION
B-26								2	REMOVED DUE TO CONSTRUCTION
C-39								3	REMOVED DUE TO CONSTRUCTION
D-51								4	REMOVED DUE TO CONSTRUCTION
E-66								4	REMOVED DUE TO CONSTRUCTION

SCS SIGNATURE: 


LEA SIGNATURE: \_\_\_\_\_

SUNSHINE CANYON - CITY PERIMETER PROBE MONITORING DATA

A. Romo

GEM500390

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
225									
A-13								2	
B-72								2	
C-1131								3	
D-190								4	
E-244								4	
226									
A-13								2	
B-64								23	
C-114								3	
D-164								4	
E-208								4	
227									
A-13								2	
B-48.7								2	
C-84.4								3	
D-114								4	
E-115.7								4	
228									
A-13	6-26-18	1406	1.12	0	.7	19.3	80.0	2	
B-63	6-26-18	1408	-0.26	0	2.9	13.1	84.0	2	
C-113	6-26-18	1411	-0.17	0	.1	20.3	79.5	3	
D-163	6-26-18	1415	-0.36	0	.3	20.1	79.6	4	
E-213	6-26-18	1419	-0.34	0	1.4	17.3	81.3	4	
229									
A-13	6-26-18	1333	-0.83	0	.6	16.8	80.5	2	
B-48.7	6-26-18	1335	-11.84	0	.3	19.7	80.0	2	
C-84.4	6-26-18	1338	-12.85	0	.1	20.4	79.5	3	
D-114	6-26-18	1341	-15.19	.1	.4	19.3	80.2	4	
E-155.7	6-26-18	1316	-23.42	.1	0	20.7	79.2	4	
230									
A-16								2	REMOVED DUE TO CONSTRUCTION
B-33								2	REMOVED DUE TO CONSTRUCTION
C-50								3	REMOVED DUE TO CONSTRUCTION
231									
A-13								2	REMOVED DUE TO CONSTRUCTION
B-26								2	REMOVED DUE TO CONSTRUCTION
C-39								3	REMOVED DUE TO CONSTRUCTION
D-51								4	REMOVED DUE TO CONSTRUCTION
E-66								4	REMOVED DUE TO CONSTRUCTION

SCS SIGNATURE: 

LEA SIGNATURE: \_\_\_\_\_



SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: <u>Saulo DIAZ</u>		TEMPERATURE: <u>71° F</u>		BARO. PRESSURE: <u>29.9"</u>					
SEM SERIAL #: <u>G504643</u>		WEATHER CONDITIONS: <u>Sunny &amp; Clear</u>							
PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
202									
A-10								2	REMOVED DUE TO CONSTRUCTION
B-25								2	REMOVED DUE TO CONSTRUCTION
C-38								3	REMOVED DUE TO CONSTRUCTION
<b>203</b>	<u>06/28/18</u>								
A-10	<u>06/28/18</u>	<u>08:48</u>	<u>+0.01</u>	<u>0.0</u>	<u>3.7</u>	<u>17.5</u>	<u>78.8</u>	2	
B-25	<u>06/28/18</u>	<u>08:51</u>	<u>-0.03</u>	<u>0.0</u>	<u>4.5</u>	<u>16.2</u>	<u>79.3</u>	2	
C-40	<u>06/28/18</u>	<u>08:55</u>	<u>-0.04</u>	<u>0.0</u>	<u>4.2</u>	<u>14.3</u>	<u>79.5</u>	3	
<b>206</b>	<u>06/28/18</u>								
A-10	<u>06/28/18</u>	<u>07:28</u>	<u>+0.02</u>	<u>0.0</u>	<u>11.1</u>	<u>10.8</u>	<u>78.1</u>	2	
B-25	<u>06/28/18</u>	<u>07:31</u>	<u>+0.01</u>	<u>0.0</u>	<u>14.2</u>	<u>8.2</u>	<u>77.6</u>	2	
C-40	<u>06/28/18</u>	<u>07:35</u>	<u>-0.02</u>	<u>0.0</u>	<u>21.8</u>	<u>3.7</u>	<u>74.5</u>	3	
207									
A-10								2	
B-25								2	
C-40								3	
208									
A-9.1								2	
B-25								2	
C-40								3	
210									
A-10								2	
B-25								2	
C-39								3	
242									
C-42								3	
D-60								4	
E-78								4	
<b>243</b>	<u>06/28/18</u>								
A-11	<u>06/28/18</u>	<u>09:53</u>	<u>0.00</u>	<u>0.2</u>	<u>13.0</u>	<u>0.2</u>	<u>86.6</u>	2	
B-20	<u>06/28/18</u>	<u>09:57</u>	<u>-0.01</u>	<u>0.0</u>	<u>8.4</u>	<u>7.0</u>	<u>84.6</u>	2	
C-33	<u>06/28/18</u>	<u>10:01</u>	<u>-0.02</u>	<u>0.0</u>	<u>6.5</u>	<u>10.1</u>	<u>83.4</u>	3	

SCS SIGNATURE: Saulo DIAZ

LEA SIGNATURE \_\_\_\_\_

SUNSHINE CANYON COUNTY PERIMETER PROBE MONITORING DATA

TECHNICIAN: <u>A. Romo</u>			TEMPERATURE: <u>66</u>		BARO. PRESSURE: <u>28.14</u>				PURGE TIME (MIN)	COMMENTS
GEM SERIAL #: <u>6500391</u>			WEATHER CONDITIONS: <u>SUNNY</u>							
PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% CH4	% CO2	% O2	% BAL			
202										
A-10								2	REMOVED DUE TO CONSTRUCTION	
B-25								2	REMOVED DUE TO CONSTRUCTION	
C-38								3	REMOVED DUE TO CONSTRUCTION	
203										
A-10								2		
B-25								2		
C-40								3		
206										
A-10								2		
B-25								2		
C-40								3		
207										
A-10	6-28-18	945	-1.18	0	.1	20.0	79.9	2		
B-25	6-28-18	947	+1.36	0	.2	20.1	79.7	2		
C-40	6-28-18	949	+1.32	0	.1	20.0	79.9	3		
208										
A-9.1	6-28-18	928	+1.20	0	2.5	18.5	79.0	2		
B-25	6-28-18	930	+1.21	0	10.5	11.1	78.4	2		
C-40	6-28-18	931	+1.21	0	6.7	12.8	80.5	3		
210										
A-10	6-28-18	831	-1.49	0	.1	20.8	79.1	2		
B-25	6-28-18	833	-1.38	0	.1	20.8	79.1	2		
C-39	6-28-18	835	+1.10	0	.1	20.8	79.1	3		
242										
C-42	6-28-18	843	+1.05	0	2.9	17.1	80.0	3		
D-60	6-28-18	846	+1.11	0	6.1	7.5	86.4	4		
E-78	6-28-18	851	-1.22	0	4.9	12.9	82.2	4		
243										
A-11								2		
B-20								2		
C-33								3		

SCS SIGNATURE: 

LEA SIGNATURE \_\_\_\_\_

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

A. ROMO

GEM 6500390

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
244									
A-11	6-28-18	901	+0.9	0	17.0	.8	82.2	2	
B-21	6-28-18	903	+1.14	.1	14.0	6.8	79.1	2	
C-36	6-28-18	906	+1.16	0	9.5	12.4	78.1	3	
245									
A-11								2	
B-20								2	
C-35								3	
D-50								4	
E-64								4	
246									
A-9								2	REMOVED DUE TO CONSTRUCTION
B-16								2	REMOVED DUE TO CONSTRUCTION
205R									
A-11								2	
B-20								2	
C-33								3	
D-48								4	
E-62								4	
239									
A-11	6-28-18	808	+0.01	.1	15.1	11.6	73.2	2	
B-20	6-28-18	812	0	0	.1	21.0	78.9	2	
C-35	6-28-18	814	+0.03	0	.1	21.0	78.9	3	
D-50	6-28-18	817	0	0	.1	21.1	78.2	4	
E-64	6-28-18	821	+0.01	0	.1	21.1	78.8	4	
240									
A-11	6-28-18	737	-0.04	0	11.0	11.5	77.5	2	
B-20	6-28-18	739	-0.31	0	.3	20.8	78.9	2	
C-33	6-28-18	741	-0.41	0	.1	21.0	78.9	3	
D-49	6-28-18	744	-0.74	0	.1	21.1	78.8	4	
E-61	6-28-18	755	-0.21	.2	.1	21.1	78.5	4	

SCS SINGNATURE:



LEA SIGNATURE:

\_\_\_\_\_

SUNSHINE CANYON - COUNTY PERIMETER PROBE MONITORING DATA

Saulo Diaz

6504643

PROBE NUMBER	DATE	TIME	PRESSURE (+/-)	% VOL CH4	% VOL CO2	% O2	% BAL	PURGE TIME (MIN)	COMMENTS
244									
A-11								2	
B-21								2	
C-36								3	
245									
A-11	06/28/18	09:05	-0.06	0.0	14.7	3.9	81.4	2	
B-20	06/28/18	09:09	-0.06	0.0	24.3	0.3	75.4	2	
C-35	06/28/18	09:15	-0.07	0.0	22.2	0.3	77.5	3	
D-50	06/28/18	09:19	-0.08	0.0	17.4	1.0	81.6	4	
E-64	06/28/18	09:25	-0.02	0.0	9.4	3.7	86.9	4	
246									
A-9								2	REMOVED DUE TO CONSTRUCTION
B-16								2	REMOVED DUE TO CONSTRUCTION
205R									
A-11	06/28/18	07:57	-0.03	0.0	9.6	12.1	78.3	2	
B-20	06/28/18	08:01	-0.09	0.7	25.8	2.5	71.0	2	
C-33	06/28/18	08:06	-0.25	1.9	40.0	0.2	57.9	3	
D-48	06/28/18	08:11	-0.14	3.0	43.3	0.0	53.7	4	
E-62	06/28/18	08:17	-0.27	1.8	35.5	0.0	62.7	4	
239									
A-11								2	
B-20								2	
C-35								3	
D-50								4	
E-64								4	
240									
A-11								2	
B-20								2	
C-33								3	
D-49								4	
E-61								4	

SCS SINGNATURE: 

LEA SIGNATURE: \_\_\_\_\_







## **APPENDIX D**

### **NPDES CERTIFICATION OF COMPLETION**

August 15, 2018

Operating Records  
Sunshine Canyon Landfill  
14747 San Fernando Road  
Sylmar, CA 91342

Please be advised that all standard observations for the landfill were done in accordance with the NPDES monitoring and reporting requirements. Records of observations are kept at the Sunshine Canyon Landfill's Operating Records and are submitted to the RWQCB in the storm water table due annually by July 1<sup>st</sup>.

Sincerely,



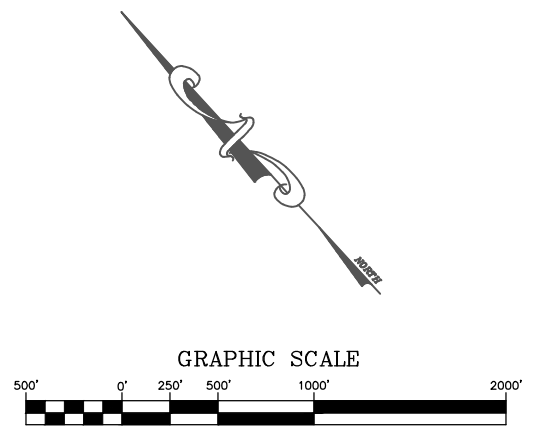
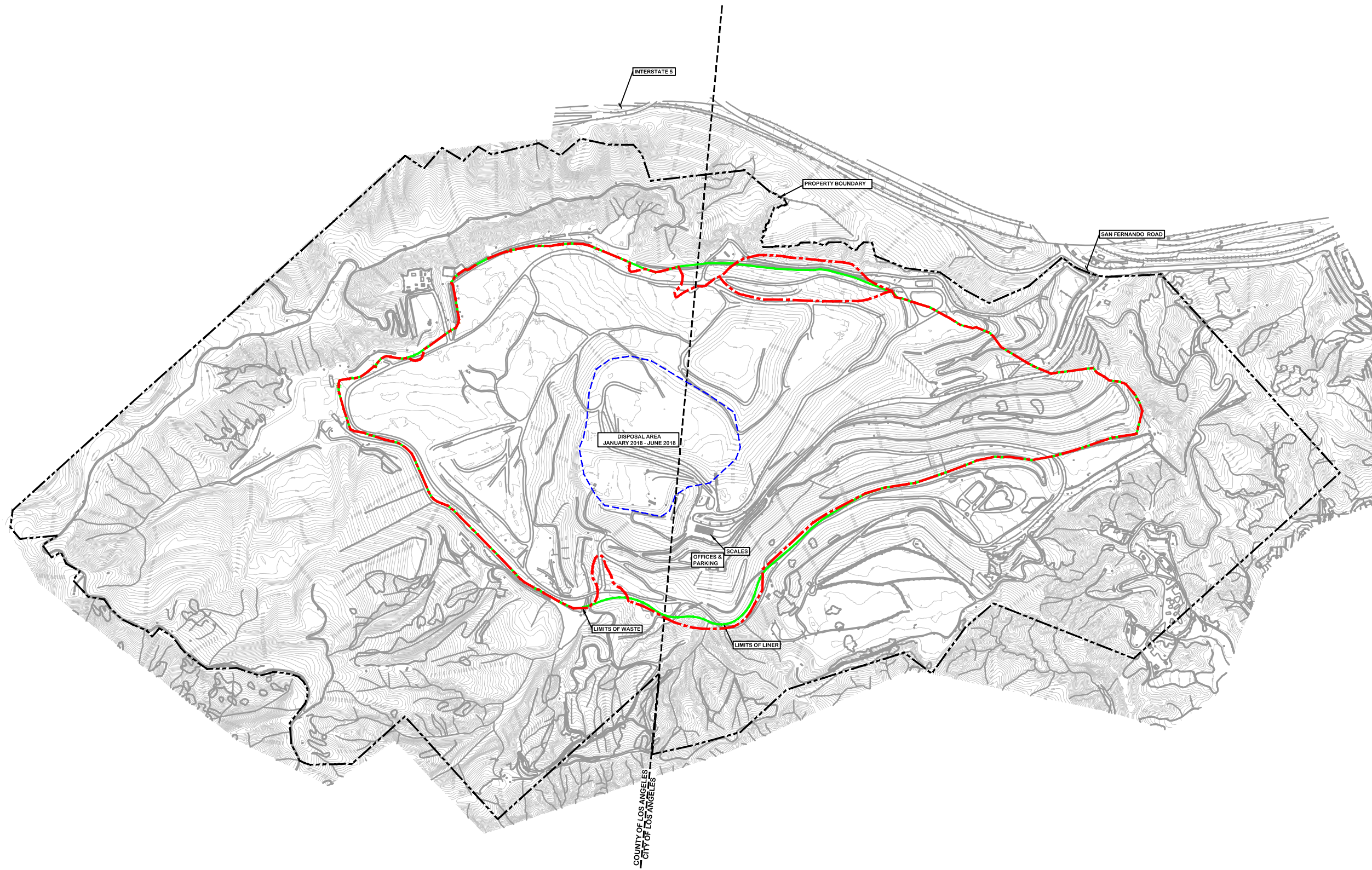
Chris Coyle  
General Manager  
Sunshine Canyon Landfill



**APPENDIX E**

**WASTE PLACEMENT AREAS  
FIRST SEMIANNUAL 2018 MONITORING PERIOD**

C:\Users\cbarrett\Documents\Republic\Sunshine Canyon LF Exhibits\Semi-annual Report\DWG SETS\SO18.0100-SCL-2018H1-SM-ANNUAL REPORT.dwg Aug 15, 2018 - 7:59pm By: cbarrett



- LEGEND**
- 1500 — EXISTING 10 FT CONTOUR
  - — PROPERTY BOUNDARY
  - - - - CITY/COUNTY LIMIT
  - - - - APPROVED LIMITS OF REFUSE PER 2002 JTD
  - — PERMIT LINER LIMIT

This drawing has not been published but rather has been prepared by Geo-Logic Associates, Inc. for use by the client named in the title block, solely in respect of the construction operation, and maintenance of the facility named in the title block. Geo-Logic Associates, Inc. shall not be liable for the use of this drawing on any other facility or for any other purpose.

FOR REVIEW ONLY  
EXISTING TOPOGRAPHY PREPARED BY COOPER AERIAL SURVEYS DATED FEBRUARY 5, 2018

REV. NO.	DATE	DESCRIPTION	APPROVED BY
REV1	DATE1	DESCRIPTION1	DRAWN1
REV2	DATE2	DESCRIPTION2	DRAWN2
REV3	DATE3	DESCRIPTION3	DRAWN3
REV4	DATE4	DESCRIPTION4	DRAWN4
REV5	DATE5	DESCRIPTION5	DRAWN5
REV6	DATE6	DESCRIPTION6	DRAWN6

DATE OF ISSUE:     AUGUST 2018      
 DESIGNED BY:     C BARRETT      
 DRAWN BY:     C BARRETT      
 CHECKED BY:     R JOHNSON      
 APPROVED BY:     R JOHNSON    



**Geo-Logic ASSOCIATES**

2777 E. GUASTI RD.  
 ONTARIO, CA 91761  
 909) 626-2282  
 www.geo-logic.com



SUNSHINE CANYON LANDFILL  
 SYLMAR, CALIFORNIA  
 SEMIANNUAL GROUNDWATER MONITORING REPORT  
 DISPOSAL AREAS - JANUARY 2018 - JUNE 2018

DWG NO. **1**  
 PROJECT NO. SO18.0100.00

**APPENDIX F**

**WASTE ACCEPTANCE REPORTS**



Republic Services, Inc.  
18500 N. Allied Way, Phoenix, AZ 85054

**SPECIAL WASTE DEPARTMENT DECISION**

	Waste Profile # 5123153583	Expiration Date 3/5/2019	
I. Decision Request:	<input type="checkbox"/> Initial <input checked="" type="checkbox"/> Recertification <input type="checkbox"/> Change		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: Medical Waste Services LLC			
Generator Site Address: 7321 Quimby Street			
City: Paramount	County:	State: CA	Zip:
Name of Waste: Treated Medical Waste Treated APHIS Foreign Garbage FDA Confiscated Materials			
Estimated Annual Volume: 2100 Tons			

II. Special Waste Department Decision:  Approved  Rejected

Management Method(s):  Landfill  Solidification  Bioremediation  Transfer Facility

Problematic Special Waste according to Republic?  Yes  No

If yes, which one? \_\_\_\_\_

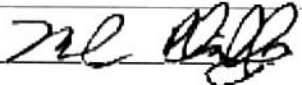
Approved by Special Waste Review Committee?  Yes  No  Not Applicable

**Precautions, Conditions or Limitations on Approval**

The generator must comply with all Federal, State and Local regulations regarding Disinfected (Steam Sterilized, Microwaved, Treated) Medical/APHIS Waste.

With each shipment the generator must provide a Certification demonstrating the waste has been autoclaved (Certificate of Treatment).

This material must be buried immediately upon receipt at the landfill.

Special Waste Analyst Signature: 

Name (Printed): MARK PHILLIPS

Date: 1/9/2018

III. Facility Decision:  Approved  Rejected

**Precautions, Conditions or Limitations on Approval**

Empty box for facility decision precautions.

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: 

Name (Printed): Chris Coyle

Date: 1/9/2018



## SPECIAL WASTE PROFILE - RECERTIFICATION

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed

Disposal Facility: 5123 Sunshine Canyon LF CA

Waste Profile #
5123 15 3583

### I. Generator Information

Generator Name: Medical Waste Services, LLC			
Generator Site Address: 7321 Quimby Street			
City: Paramount	County: Los Angeles	State: California	Zip: 90723
State ID/Reg No:	State Approval/Waste Code:		NAICS #: 56221
Generator Mailing Address (if different): <input type="checkbox"/> 7321 Quimby Street			
City: Paramount	County:	State: California	Zip: 90723
Generator Contact Name: Terry Shain		Email: tshain@mws-1.com	
Phone Number: (888) 610-1311		Fax Number: (562) 529-3717	

### II. Waste Stream Information

Name of Waste: Treated Medical Waste, Treated APHIS Waste/Foreign Garbage, FDA Confiscated Materials	
Check Section 1 OR Section 2 below:	
1. <input type="checkbox"/>	<p><u>There has been a change</u> in the characteristics of the waste stream due to the following:</p> <ul style="list-style-type: none"> <li>a. Change of a raw material used in the waste generating process.</li> <li>b. Change in the waste generating process itself.</li> <li>c. Change in a physical characteristic of the waste.</li> <li>d. New information has been documented concerning the human health effects of exposure to the waste.</li> </ul> <p><b>If any of these changes have occurred, a new laboratory analysis and profile sheet must be completed. Attach copies of the new chemical analysis and new Special Waste Profile with the appropriate signatures.</b></p>
2. <input checked="" type="checkbox"/>	<p><u>There have been no changes</u> that would alter the physical characteristics of the special waste stream. Updated analytical may be required.</p>

### III. Representative Sample Certification

<input checked="" type="checkbox"/> No Sample Taken	
Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	<input type="checkbox"/> YES or <input type="checkbox"/> NO
Type of Sample: <input type="checkbox"/> COMPOSITE SAMPLE <input type="checkbox"/> GRAB SAMPLE	
Sample Date:	
Sample ID Numbers:	

### IV. Certification

I hereby certify that to the best of my knowledge and belief, the information contained in the Special Waste Profile - Recertification and the information in the Original Special Waste Profile is true, complete and accurate.	
Terry Shain Vice President, Operations Authorized Representative Name And Title (Printed)	Medical Waste Services, LLC Company Name
_____ Authorized Representative Signature	1/9/2018 _____ Date





# Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

Waste Profile #  
5123156511

Expiration Date  
4/8/2021

### I. Decision Request:

Initial  Recertification  Change

Disposal Facility: 5123 - Sunshine Canyon Landfill

Generator Name: Los Angeles County Metropolitan Transportation Authority

Generator Site Address: Long Beach Yard - 4350 208th St Long Beach

City: Los Angeles

County:

State: CA

Zip:

Name of Waste: Weathered Wood

Estimated Annual Volume: 25 Tons

### II. Special Waste Department Decision: Approved Rejected

Management Method(s):  Landfill  Solidification  Bioremediation  Transfer Facility

Problematic Special Waste according to Republic?  Yes  No

If yes, which one?

Approved by Special Waste Review Committee?  Yes  No  Not Applicable

### Precautions, Conditions or Limitations on Approval

Disposal of TWW must be in accordance with the California Health and Safety Code (HSC) sections 24143.1.5, 25150.7 and 25150.8.

Special Waste Analyst Signature: 

Date: 4/5/2018

Name (Printed): Suzanne Glass

### III. Facility Decision:

Approved  Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: 

Date: 4/5/2018

Name (Printed): Chris Coyle



## SPECIAL WASTE PROFILE - RECERTIFICATION

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

Disposal Facility: 5123 Sunshine Canyon LF CA

Waste Profile #
5123156511

### I. Generator Information

Generator Name: Los Angeles County Metropolitan Transportation Authority - Long Beach Yard			
Generator Site Address: 4350 208th Street			
City: Long Beach	County:	State: California	Zip: 90805
State ID/Reg No:	State Approval/Waste Code:		NAICS #:
Generator Mailing Address (if different): <input type="checkbox"/> 4350 208th Street			
City: Long Beach	County:	State: California	Zip: 90805
Generator Contact Name: Mark McKendrick		Email:	
Phone Number: (323) 563-9440		Fax Number:	

### II. Waste Stream Information

Name of Waste: Weathered Wood Waste	
Check Section 1 OR Section 2 below:	
1. <input type="checkbox"/>	<p><u>There has been a change</u> in the characteristics of the waste stream due to the following:</p> <ul style="list-style-type: none"> <li>a. Change of a raw material used in the waste generating process.</li> <li>b. Change in the waste generating process itself.</li> <li>c. Change in a physical characteristic of the waste.</li> <li>d. New information has been documented concerning the human health effects of exposure to the waste.</li> </ul> <p><b>If any of these changes have occurred, a new laboratory analysis and profile sheet must be completed. Attach copies of the new chemical analysis and new Special Waste Profile with the appropriate signatures.</b></p>
2. <input checked="" type="checkbox"/>	<p><u>There have been no changes</u> that would alter the physical characteristics of the special waste stream. Updated analytical may be required.</p>

### III. Representative Sample Certification

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	<input checked="" type="checkbox"/> No Sample Taken <input type="checkbox"/> YES or <input type="checkbox"/> NO
Type of Sample: <input type="checkbox"/> COMPOSITE SAMPLE <input type="checkbox"/> GRAB SAMPLE	
Sample Date:	
Sample ID Numbers:	

### IV. Certification

I hereby certify that to the best of my knowledge and belief, the information contained in the Special Waste Profile - Recertification and the information in the Original Special Waste Profile is true, complete and accurate.	
Alberto Garcia - Facilities Maintenance Supervisor Authorized Representative Name And Title (Printed)	Los Angeles County Metropolitan Transportation Au Company Name
 Authorized Representative Signature	4-5-2018 Date



# Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123158191	Expiration Date 5/15/2021	
<b>I. Decision Request:</b>	<input type="checkbox"/> Initial	<input checked="" type="checkbox"/> Recertification	<input type="checkbox"/> Change
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: California Department of Food and Agriculture			
Generator Site Address: Los Angeles County			
City: Los Angeles	County: _____	State: CA	Zip: _____
Name of Waste: Food Products			
Estimated Annual Volume: 5 Tons			

**II. Special Waste Department Decision:**  Approved  Rejected

Management Method(s):  Landfill  Solidification  Bioremediation  Transfer Facility

Problematic Special Waste according to Republic?  Yes  No

If yes, which one? \_\_\_\_\_

Approved by Special Waste Review Committee?  Yes  No  Not Applicable

### Precautions, Conditions or Limitations on Approval

Special Waste Analyst Signature: 

Date: 5/15/2018

Name (Printed): KEITH DIAMANTI

**III. Facility Decision:**

Approved  Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: 

Date: 5/15/2018

Name (Printed): Chris Cayle



### SPECIAL WASTE PROFILE - RECERTIFICATION

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

Disposal Facility: 5123 Sunshine Canyon LF CA

Waste Profile #
5123 15 8191

#### I. Generator Information

Generator Name: California Department of Food and Agriculture			
Generator Site Address: Los Angeles County			
City: Los Angeles	County: Los Angeles	State: California	Zip: <span style="background-color: yellow;"> </span>
State ID/Reg No:	State Approval/Waste Code:		NAICS #:
Generator Mailing Address (if different): <input checked="" type="checkbox"/> 403 W Avenue 33			
City: Los Angeles	County: Los Angeles	State: California	Zip: 90031
Generator Contact Name: George Sanchez		Email: gsanchez@cdfa.ca.gov	
Phone Number: (818) 391-3096		Fax Number:	

#### II. Waste Stream Information

Name of Waste: Trees and fruit	
Check Section 1 OR Section 2 below:	
1. <input type="checkbox"/>	<p><u>There has been a change</u> in the characteristics of the waste stream due to the following:</p> <ul style="list-style-type: none"> <li>a. Change of a raw material used in the waste generating process.</li> <li>b. Change in the waste generating process itself.</li> <li>c. Change in a physical characteristic of the waste.</li> <li>d. New information has been documented concerning the human health effects of exposure to the waste.</li> </ul> <p><b>If any of these changes have occurred, a new laboratory analysis and profile sheet must be completed. Attach copies of the new chemical analysis and new Special Waste Profile with the appropriate signatures.</b></p>
2. <input checked="" type="checkbox"/>	<p><u>There have been no changes</u> that would alter the physical characteristics of the special waste stream. Updated analytical may be required.</p>

#### III. Representative Sample Certification

No Sample Taken

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	<input type="checkbox"/> YES or <input type="checkbox"/> NO
Type of Sample: <input type="checkbox"/> COMPOSITE SAMPLE <input type="checkbox"/> GRAB SAMPLE	
Sample Date:	
Sample ID Numbers:	

#### IV. Certification

I hereby certify that to the best of my knowledge and belief, the information contained in the Special Waste Profile - Recertification and the information in the Original Special Waste Profile is true, complete and accurate.	
George Sanchez/ APCS	California Department of Food and Agriculture
Authorized Representative Name And Title (Printed)	Company Name
	5/15/2018
Authorized Representative Signature	Date



# Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123181004	Expiration Date 1/18/2021	
I. Decision Request:	<input checked="" type="checkbox"/> Initial	<input type="checkbox"/> Recertification	<input type="checkbox"/> Change
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: City of Santa Monica			
Generator Site Address: 300 Santa Monica Pier			
City: Santa Monica	County:	State: CA	Zip:
Name of Waste: Weathered Wood			
Estimated Annual Volume: 120 Tons			

II. Special Waste Department Decision:  Approved  Rejected

Management Method(s):  Landfill  Solidification  Bioremediation  Transfer Facility

Problematic Special Waste according to Republic?  Yes  No

If yes, which one? \_\_\_\_\_

Approved by Special Waste Review Committee?  Yes  No  Not Applicable

### Precautions, Conditions or Limitations on Approval

Disposal of Weathered Wood must be in accordance with California Health and Safety Code (HSC) Sections 25150.7 and 25150.8 (for TWW) or in accordance with HSC Section 25143.5 (for TWW-Utility).

Special Waste Analyst Signature: Joseph M. Sorokach  
Date: 1/18/2018

Name (Printed): Joseph Sorokach

III. Facility Decision:  Approved  Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: Chris Coyle  
Date: 1/18/2018

Name (Printed): Chris Coyle



Requested Disposal Facility: 5123 Sunshine Canyon LF CA

Saveable fill in form. Restricted printing until all required (yellow) fields are completed.

Waste Profile #
5123 18 1004
Sales Rep #. 525 - Stacy Loveland

**I. Generator Information**

Generator Name: City of Santa Monica			
Generator Site Address: 300 Santa Monica Pier			
City: Santa Monica	County: Los Angeles	State: California	Zip: 90401
State ID/Reg No:	State Approval/Waste Code: (if applicable)		NAICS #.
Generator Mailing Address (if different): 1685 Main Street			
City: Santa Monica	County: Los Angeles	State: California	Zip: 90401
Generator Contact Name: Randall Martinez		Email: randall.martinez@smgov.net	
Phone Number: (310) 458-8721	Ext:	Fax Number: (310) 393-4425	

**II. Billing Information**

Bill To: Republic Services - Gardena Hauling	Contact Name: Gabby Munoz		
Billing Address: 14905 South San Pedro	Email: gmunoz@republicservices.com		
City: Gardena	State: CA	Zip: 90248	Phone: (562) 254-6142

**III. Waste Stream Information**

Name of Waste: <small>(Petroleum products-applies only to contaminated media and debris).</small>	<input type="checkbox"/> Diesel Fuel	<input checked="" type="checkbox"/> Weathered Wood	<input type="checkbox"/> Friable Asbestos
	<input type="checkbox"/> Home Heating Fuel #1-6	<input type="checkbox"/> RCRA Empty Containers	<input type="checkbox"/> Non Friable Asbestos
	<input type="checkbox"/> Kerosene	<input type="checkbox"/> Treated Medical Waste	<input type="checkbox"/> Cured Asphalt
	<input type="checkbox"/> Aviation Fuel	<input type="checkbox"/> Animal Carcass (non infectious)	<input type="checkbox"/> Tires
	<input type="checkbox"/> Hydraulic Fluid	<input type="checkbox"/> Plant Trash	<input type="checkbox"/> Food Products <small>(Including Animal Food)</small>
<input type="checkbox"/> Unleaded Gasoline (UST Corrective Action)	<input type="checkbox"/> Meth Contaminated Debris		

Process Generating Waste: Removal of weathered treated timber as part of the Santa Monica Pier Rehab Projects.

Method of Shipment: <input checked="" type="checkbox"/> BULK <input type="checkbox"/> DRUM <input type="checkbox"/> BAGGED <input type="checkbox"/> OTHER:
Estimated Annual Volume: <u>120</u> Tons
Frequency: <input type="checkbox"/> ONE TIME <input checked="" type="checkbox"/> ONGOING

**IV. Certification**

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true and accurate description of the waste material being offered for disposal. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services, Inc.

<u>Randall Martinez / Public Works Inspector</u> Authorized Representative Name/Title (Type or Print)	<u>City of Santa Monica</u> Company Name
 Authorized Representative Signature	<u>01/18/2018</u> Date



# Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123181098	Expiration Date 1/19/2019	
I. Decision Request:	<input checked="" type="checkbox"/> Initial <input type="checkbox"/> Recertification <input type="checkbox"/> Change		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: HMart Logistics Inc			
Generator Site Address: 11966 Washington Blvd			
City: Whittier	County:	State: CA	Zip:
Name of Waste: Food Products			
Estimated Annual Volume: 40 Cubic Yards			

II. Special Waste Department Decision:     Approved     Rejected

Management Method(s):     Landfill     Solidification     Bioremediation     Transfer Facility

Problematic Special Waste according to Republic?     Yes     No

If yes, which one? \_\_\_\_\_

Approved by Special Waste Review Committee?     Yes     No     Not Applicable

### Precautions, Conditions or Limitations on Approval

Liquid bearing food products must be in non-leaking consumer sized containers (small containers similar in size to that normally found in household waste) Per 40 CFR 258.28(b)(1).

This material must be buried immediately upon receipt at the landfill.

Special Waste Analyst Signature: Holly Bradley  
Date: 1/19/2018

Name (Printed): Holly Bradley

III. Facility Decision:     Approved     Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: Chris Coyle  
Date: 1/19/2018

Name (Printed): Chris Coyle



# REPUBLIC SERVICES

## EXPRESS WASTE PROFILE

Requested Disposal Facility: 5123 Sunshine Canyon LF CA

Waste Profile #

5123 18 1098

Saveable fill in form. Restricted printing until all required (yellow) fields are completed.

Sales Rep #. 525 - Stacy Loveland

### I. Generator Information

Generator Name: HMart logistics Inc.

Generator Site Address: 11966 washington blvd

City: whittier County: los angeles State: California Zip: 90606

State ID/Reg No: State Approval/Waste Code: (if applicable) NAICS #.

Generator Mailing Address (if different):

City: County: State: -- Select a State -- Zip:

Generator Contact Name: Ji Song Email: jiyun.song@hmart.com

Phone Number: (562) 318-3977 Ext: Fax Number: (562) 698-5511

### II. Billing Information

Bill To: republic servicese long beach divison Contact Name: Jaqueline Santana

Billing Address: Email:

City: long beach State: ca Zip: Phone:

### III. Waste Stream Information

Name of Waste:

(Petroleum products-applies only to contaminated media and debris).

- Diesel Fuel
- Home Heating Fuel #1-6
- Kerosene
- Aviation Fuel
- Hydraulic Fluid
- Unleaded Gasoline (UST Corrective Action)

- Weathered Wood
- RCRA Empty Containers
- Treated Medical Waste
- Animal Carcass (non infectious)
- Plant Trash
- Meth Contaminated Debris

- Friable Asbestos
- Non Friable Asbestos
- Cured Asphalt
- Tires
- Food Products (Including Animal Food)

Process Generating Waste: Korean snacks and cardboard boxes that housed the bags of chips. record needed for Hmart

Method of Shipment:  BULK  DRUM  BAGGED  OTHER:

Estimated Annual Volume: 40 Cubic Yards

Frequency:  ONE TIME  ONGOING

### IV. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true and accurate description of the waste material being offered for disposal. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services, Inc.

Ji Song, asset management

Authorized Representative Name/Title (Type or Print)

Authorized Representative Signature

HMart logistics Inc.

Company Name

1/19/18

Date





Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123181307	Expiration Date 1/18/2021	
I. Decision Request:	<input checked="" type="checkbox"/> Initial <input type="checkbox"/> Recertification <input type="checkbox"/> Change		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: City of Redondo Beach			
Generator Site Address: 121 W Torrance Blvd			
City: Redondo Beach	County:	State: CA	Zip:
Name of Waste: Weathered Wood			
Estimated Annual Volume: 50 Tons			

II. Special Waste Department Decision:    Approved    Rejected

Management Method(s):    Landfill    Solidification    Bioremediation    Transfer Facility

Problematic Special Waste according to Republic?    Yes    No

If yes, which one? \_\_\_\_\_

Approved by Special Waste Review Committee?    Yes    No    Not Applicable

Precautions, Conditions or Limitations on Approval

Disposal of TWW must be in accordance with the California Health and Safety Code (HSC) sections 24143.1.5, 25150.7 and 25150.8.

Special Waste Analyst Signature: 

Date: 1/24/2018

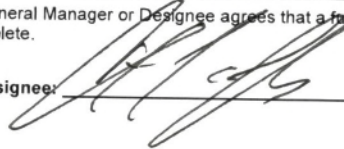
Name (Printed): Suzanne Glass

III. Facility Decision:    Approved    Rejected

Precautions, Conditions or Limitations on Approval

\_\_\_\_\_

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee:   
Date: 1/24/2018

Name (Printed): Chris Coyle



Requested Disposal Facility: 5123 Sunshine Canyon LF CA

Waste Profile #
5123 18 1307
Sales Rep #. 525 - Stacy Loveland

Saveable fill in form. Restricted printing until all required (yellow) fields are completed.

I. Generator Information

Generator Name: City of Redondo Beach			
Generator Site Address: 121 W Torrance Blvd			
City: Redondo Beach	County: Los Angeles	State: California	Zip: 90277
State ID/Reg No:	State Approval/Waste Code:	(if applicable)	NAICS #.
Generator Mailing Address (if different): <input checked="" type="checkbox"/> 415 Dimond Street			
City: Redondo Beach	County: Los Angeles	State: California	Zip: 90277
Generator Contact Name: Gary Laolagi		Email: gary.laolagi@redondo.org	
Phone Number: (310) 318-0686	Ext: 4589	Fax Number: (310) 374-4718	

II. Billing Information

Bill To: Republic Services - Gardena Hauling	Contact Name: Gabby Munoz		
Billing Address: 14905 South San Pedro	Email: gmunoz@replicservices.com		
City: Gardena	State: CA	Zip: 90248	Phone: (562) 254-6142

III. Waste Stream Information

Name of Waste: <small>(Petroleum products-applies only to contaminated media and debris).</small>	<input type="checkbox"/> Diesel Fuel	<input checked="" type="checkbox"/> Weathered Wood	<input type="checkbox"/> Friable Asbestos
	<input type="checkbox"/> Home Heating Fuel #1-6	<input type="checkbox"/> RCRA Empty Containers	<input type="checkbox"/> Non Friable Asbestos
<input type="checkbox"/> Kerosene	<input type="checkbox"/> Treated Medical Waste	<input type="checkbox"/> Cured Asphalt	<input type="checkbox"/> Tires
<input type="checkbox"/> Aviation Fuel	<input type="checkbox"/> Animal Carcass (non infectious)	<input type="checkbox"/> Food Products <small>(Including Animal Food)</small>	
<input type="checkbox"/> Hydraulic Fluid	<input type="checkbox"/> Plant Trash		
<input type="checkbox"/> Unleaded Gasoline (UST Corrective Action)	<input type="checkbox"/> Meth Contaminated Debris		


Process Generating Waste: Removal of weathered treated timber as part of the Redondo Beach Pier Project.

Method of Shipment: <input checked="" type="checkbox"/> BULK <input type="checkbox"/> DRUM <input type="checkbox"/> BAGGED <input type="checkbox"/> OTHER:
Estimated Annual Volume: 50 Tons
Frequency: <input type="checkbox"/> ONE TIME <input checked="" type="checkbox"/> ONGOING

IV. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true and accurate description of the waste material being offered for disposal. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services, Inc.

Gary Laolagi / Harbor & Pier Maintenance Manager	City of Redondo Beach
Authorized Representative Name/Title (Type or Print)	Company Name
	01/18/2018
Authorized Representative Signature	Date

		<b>Republic Services, Inc.</b> 18500 N. Allied Way, Phoenix, AZ 85054	
<b>SPECIAL WASTE DEPARTMENT DECISION</b>			
	Waste Profile # 5123181521	Expiration Date 1/29/2019	
<b>I. Decision Request:</b>	<input checked="" type="checkbox"/> Initial <input type="checkbox"/> Recertification <input type="checkbox"/> Change		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: DP Produce Inc			
Generator Site Address: 1801 E Washington Blvd			
City: Los Angeles	County:	State: CA	Zip:
Name of Waste: Food Products			
Estimated Annual Volume: 1500 Pounds			

**II. Special Waste Department Decision:**   
 Approved   
 Rejected

Management Method(s):   
 Landfill   
 Solidification   
 Bioremediation   
 Transfer Facility

Problematic Special Waste according to Republic?   
 Yes   
 No

If yes, which one? \_\_\_\_\_

Approved by Special Waste Review Committee?   
 Yes   
 No   
 Not Applicable

**Precautions, Conditions or Limitations on Approval**

This material must be buried immediately upon receipt at the landfill.

Special Waste Analyst Signature:     Name (Printed): Holly Bradley  
 Date: 1/29/2018

**III. Facility Decision:**   
 Approved   
 Rejected

**Precautions, Conditions or Limitations on Approval**

\_\_\_\_\_

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee:     Name (Printed): Chris Coyle  
 Date: 1/29/2018



EXPRESS WASTE PROFILE

Requested Disposal Facility: 5123 Sunshine Canyon LF CA

Waste Profile #
5123 18 1521
Sales Rep #. 525 - Stacy Loveland

Saveable fill in form. Restricted printing until all required (yellow) fields are completed.

I. Generator Information

Generator Name: D.P. Produce Inc			
Generator Site Address: 1801 E Washington Blvd			
City: Los Angeles	County: Los Angeles	State: California	Zip: 90021
State ID/Reg No:	State Approval/Waste Code:	(if applicable)	NAICS #.
Generator Mailing Address (if different):			
City:	County:	State: -- Select a State --	Zip:
Generator Contact Name: Nat Kuramarohit		Email:	
Phone Number: 2137471679	Ext:	Fax Number:	

II. Billing Information

Bill To: D.P. Produce Inc	Contact Name: Nat		
Billing Address: 1801 E Washington Blvd	Email:		
City: Los Angeles	State: CA	Zip: 90021	Phone: 2137471679

III. Waste Stream Information

Name of Waste: <small>(Petroleum products-applies only to contaminated media and debris).</small>	<input type="checkbox"/> Diesel Fuel	<input type="checkbox"/> Weathered Wood	<input type="checkbox"/> Friable Asbestos
	<input type="checkbox"/> Home Heating Fuel #1-6	<input type="checkbox"/> RCRA Empty Containers	<input type="checkbox"/> Non Friable Asbestos
<input type="checkbox"/> Kerosene	<input type="checkbox"/> Treated Medical Waste	<input type="checkbox"/> Cured Asphalt	<input type="checkbox"/> Tires
<input type="checkbox"/> Aviation Fuel	<input type="checkbox"/> Animal Carcass (non infectious)	<input checked="" type="checkbox"/> Food Products <small>(Including Animal Food)</small>	
<input type="checkbox"/> Hydraulic Fluid	<input checked="" type="checkbox"/> Plant Trash <span style="color:red">Per NK 1292018</span>	<input type="checkbox"/> Meth Contaminated Debris	
<input type="checkbox"/> Unleaded Gasoline (UST Corrective Action)			
Process Generating Waste: Dumping shipment of fresh produce from Hawaii. LA County AG discovered a insect pest in the shipment			
Method of Shipment: <input type="checkbox"/> BULK <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> BAGGED <input type="checkbox"/> OTHER:			
Estimated Annual Volume: 1500 Pounds			
Frequency: <input checked="" type="checkbox"/> ONE TIME <input type="checkbox"/> ONGOING			

IV. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true and accurate description of the waste material being offered for disposal. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services, Inc.

Nat Kuramarohit / President	D.P. Produce Inc
Authorized Representative Name/Title (Type or Print)	Company Name
	1/29/2018
Authorized Representative Signature	Date



Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

FAX

**INCOMPLETE FILE TRANSMITTAL**

<b>TO:</b> Holly Aasen	<b>LOG NO.:</b> 5123181521
<b>FAX:</b>	<b>File Received:</b> 1/29/2018
<b>From:</b> Special Waste Dept.	<b>Response Date:</b> 1/29/2018
<b>Re:</b> DP Produce Inc / Food Products	

SECTION I	SECTION II	SECTION III	SECTION IV	SECTION V	SECTION VI
<input type="checkbox"/> DisposalFacility	<input type="checkbox"/> TransporterName	<input checked="" type="checkbox"/> NameOfWaste	<input type="checkbox"/> USEPA	<input type="checkbox"/> CharacteristicComponents	<input type="checkbox"/> GenAuthSignature
<input type="checkbox"/> GeneratorName	<input type="checkbox"/> TransporterSiteAddress	<input type="checkbox"/> ProcessGeneratingWaste	<input type="checkbox"/> SampleDate	<input type="checkbox"/> FreeLiquids	<input type="checkbox"/> GenCoName
<input type="checkbox"/> GeneratorSiteAddress	<input type="checkbox"/> TransporterCityStateZip	<input type="checkbox"/> TypeOfWaste	<input type="checkbox"/> CompositeGrab	<input type="checkbox"/> YesNo	<input type="checkbox"/> NoStateLetter
<input type="checkbox"/> GeneratorCityStateZip	<input type="checkbox"/> TransporterMailingAddress	<input type="checkbox"/> PhysicalState	<input type="checkbox"/> SampleID	<input type="checkbox"/> pH_Flash	<input type="checkbox"/> Name_Title
<input type="checkbox"/> GeneratorMailingAddress	<input type="checkbox"/> TransporterContactName	<input type="checkbox"/> MethodOfShipment			<input type="checkbox"/> SignatureDate
<input type="checkbox"/> GeneratorContactName	<input type="checkbox"/> TransporterTelFax	<input type="checkbox"/> EstimatedAnnualVolume			
<input type="checkbox"/> GeneratorTelFax		<input type="checkbox"/> Frequency			
<input type="checkbox"/> GeneratorStateID		<input type="checkbox"/> DisposalConsideration			
<input type="checkbox"/> WasteCodeTexas					

ANALYTICALS	TCLP TOTAL METALS	TCLP VOLATILES	TCLP SEMI-VOLATILES	PESTICIDES / HERBICIDE	
<input type="checkbox"/> TotalCyanide	<input type="checkbox"/> Arsenic	<input type="checkbox"/> Benzene	<input type="checkbox"/> Cresols	<input type="checkbox"/> Chlordane	<input type="checkbox"/> LabLetterhead
<input type="checkbox"/> ReactiveCyanide	<input type="checkbox"/> Barium	<input type="checkbox"/> CarbonTetrachloride	<input type="checkbox"/> DichlorobenzeneOne	<input type="checkbox"/> Endrin	<input type="checkbox"/> ChainOfCustody
<input type="checkbox"/> TotalSulfide	<input type="checkbox"/> Cadmium	<input type="checkbox"/> Chlorobenzene	<input type="checkbox"/> DinitrotolueneTwo	<input type="checkbox"/> Heptachlor	<input type="checkbox"/> NoLabSignature
<input type="checkbox"/> ReactiveSulfide	<input type="checkbox"/> Chromium	<input type="checkbox"/> Chloroform	<input type="checkbox"/> Hexachlorobenzene	<input type="checkbox"/> HeptachlorEpoxide	<input type="checkbox"/> ReportOneYearOldPlus
<input type="checkbox"/> TotalPCB	<input type="checkbox"/> Copper	<input type="checkbox"/> DichloroethaneOne	<input type="checkbox"/> Nitrobenzene	<input type="checkbox"/> Lindane	<input type="checkbox"/> NoThirdPartyLab
<input type="checkbox"/> TOX_EOX	<input type="checkbox"/> Lead	<input type="checkbox"/> DichloroethyleneTwo	<input type="checkbox"/> Pentachlorophenol	<input type="checkbox"/> Methoxychlor	<input type="checkbox"/> MissingReportPages
<input type="checkbox"/> Phenols	<input type="checkbox"/> Mercury	<input type="checkbox"/> MethylEthylKetone	<input type="checkbox"/> Pyridine	<input type="checkbox"/> Toxaphene	<input type="checkbox"/> MissingMSDSPages
<input type="checkbox"/> FlashPoint	<input type="checkbox"/> Selenium	<input type="checkbox"/> Tetrachloroethylene	<input type="checkbox"/> TrichlorophenolFive	<input type="checkbox"/> TwoFourD	<input type="checkbox"/> TotalSulfates
<input type="checkbox"/> pH	<input type="checkbox"/> Silver	<input type="checkbox"/> Trichlorethylene	<input type="checkbox"/> TrichlorphenolSix	<input type="checkbox"/> TwoFourFiveTP	<input type="checkbox"/> TotalSulfur
<input type="checkbox"/> PaintFilter	<input type="checkbox"/> Zinc	<input type="checkbox"/> VinylChloride			<input type="checkbox"/> WrongProfile
<input type="checkbox"/> TPH					
<input type="checkbox"/> BTEX					<input checked="" type="checkbox"/> GeneratorIncomplete

**Notes:**  
 The generator checked both Plant Trash and Food Products in Section III of the profile. Food products cannot be combined with other waste streams on the Express form. If the waste is both plant trash and food products, please have the generator submit a two page profile for the waste. If the waste is only food products, please have the generator make the necessary corrections to the Express Form (initial and date).

Thank you,  
 Holly



# Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123181636	Expiration Date 1/30/2021	
<b>I. Decision Request:</b>	<input checked="" type="checkbox"/> Initial <input type="checkbox"/> Recertification <input type="checkbox"/> Change		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: Los Angeles County Fire			
Generator Site Address: 12605 Osborne St			
City: Pacoima	County: _____	State: CA	Zip: _____
Name of Waste: Los Angeles Fire Department Fire Fighter Garments			
Estimated Annual Volume: 5 Tons			

**II. Special Waste Department Decision:**     Approved     Rejected


Management Method(s):     Landfill     Solidification     Bioremediation     Transfer Facility

Problematic Special Waste according to Republic?     Yes     No

If yes, which one? \_\_\_\_\_

Approved by Special Waste Review Committee?     Yes     No     Not Applicable

### Precautions, Conditions or Limitations on Approval

Special Waste Analyst Signature: 

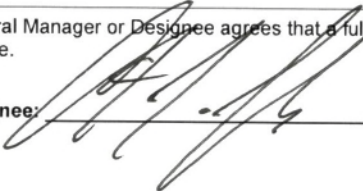
Date: 1/31/2018

Name (Printed): KEITH DIAMANTI

**III. Facility Decision:**     Approved     Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: 

Date: 1/31/2018

Name (Printed): Chris Coyle



Requested Disposal Facility: 5123 Sunshine Canyon LF CA

<b>Waste Profile #</b> 5123 18 1636
Sales Rep #: 525 -Stacy Loveland

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

**I. Generator Information**

Generator Name: Los Angeles County Fire			
Generator Site Address: 12605 Osborne St			
City: Pacoima	County: Los Angeles	State: California	Zip: 91331
State ID/Reg No:	State Approval/Waste Code: (if applicable)		NAICS #:
Generator Mailing Address (if different): <input checked="" type="checkbox"/>			
City:	County:	State: - Select a State -	Zip:
Generator Contact Name: Raul Jimenez		Email: raul.jimenez@fire.lacounty.gov	
Phone Number: (818) 625-0802	Ext:	Fax Number:	

**II. Billing Information**

Bill To: Shred-it Moorpark / STERICYCLE SCS DIVISION	Contact Name: Frank Diaz		
Billing Address: 6100 Condor Dr #B	Email: frank.diaz@stericycle.com		
City: Moorpark	State: Ca	Zip: 93021	Phone: (818) 402-0453

**III. Waste Stream Information**

Name of Waste: Los Angeles Fire Department Fire Fighter Garments	
Process Generating Waste: Disposal of Used Fire Fighters protective Garments	
Type of Waste:	<input checked="" type="checkbox"/> INDUSTRIAL PROCESS WASTE <input type="checkbox"/> POLLUTION CONTROL WASTE
Physical State:	<input checked="" type="checkbox"/> SOLID <input type="checkbox"/> SEMI-SOLID <input type="checkbox"/> POWDER <input type="checkbox"/> LIQUID
Method of Shipment:	<input type="checkbox"/> BULK <input type="checkbox"/> DRUM <input type="checkbox"/> BAGGED <input checked="" type="checkbox"/> OTHER: 175 GI Container
Estimated Annual Volume:	5 TONS (ESTIMATED)
Frequency:	<input type="checkbox"/> ONE TIME <input checked="" type="checkbox"/> ONGOING
Disposal Consideration:	<input checked="" type="checkbox"/> LANDFILL <input type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> BIOREMEDIATION

**IV. Representative Sample Certification**  NO SAMPLE TAKEN

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	<input type="checkbox"/> YES or <input type="checkbox"/> NO
Type of Sample:	<input type="checkbox"/> COMPOSITE SAMPLE <input type="checkbox"/> GRAB SAMPLE
Sample Date:	



Waste Profile #
5123 18 1636

**V. Physical Characteristics of Waste**

Characteristic Components	% by Weight (range)
1. Fire Turnouts	(DOWNGRADED-UNSAFE FIRE FIGHTER PANTS & JACKETS)
2.	
3.	
4.	
5.	

Color	Odor (describe)	Does Waste Contain Free Liquids?	% Solids	pH:	Flash Point
Yellow	Odorless / SAMPLE	<input type="checkbox"/> YES or <input checked="" type="checkbox"/> NO	100	n/a	n/a °F

**Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Chain of Custody and Required Parameters Provided for this Profile**

Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm)[reference 40 CFR 261.23(a)(5)]?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste a reactive or heat generating waste?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does the waste contain sulfur or sulfur by-products?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste generated at a Federal Superfund Clean Up Site?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste from a TSD facility, TSD like facility or consolidator?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No

**VI. Certification**

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services Inc.

Raul Jimenez Property Manager

L.A County Fire Department

Authorized Representative Name And Title (Type or Print)

Company Name

1/30/2018

Authorized Representative Signature

Date





# Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123182301	Expiration Date 6/30/2018	
I. Decision Request:	<input checked="" type="checkbox"/> Initial <input type="checkbox"/> Recertification <input type="checkbox"/> Change		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: Doreen Colato			
Generator Site Address: 20749 Tulsa St			
City: Chatsworth	County: _____	State: CA	Zip: _____
Name of Waste: Weathered Wood			
Estimated Annual Volume: 40 Cubic Yards			

II. Special Waste Department Decision:     Approved     Rejected

Management Method(s):     Landfill     Solidification     Bioremediation     Transfer Facility

Problematic Special Waste according to Republic?     Yes     No

If yes, which one? \_\_\_\_\_

Approved by Special Waste Review Committee?     Yes     No     Not Applicable

### Precautions, Conditions or Limitations on Approval

Disposal of Weathered Wood must be in accordance with California Health and Safety Code (HSC) Sections 25150.7 and 25150.8. ^

Special Waste Analyst Signature: *Joseph M. Sorokach*  
Date: 2/12/2018

Name (Printed): Joseph Sorokach

III. Facility Decision:     Approved     Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: *Chris Coybe*  
Date: 2/12/2018

Name (Printed): Chris Coybe



EXPRESS WASTE PROFILE

Requested Disposal Facility: 5123 Sunshine Canyon LF CA

Waste Profile #
5123 18 2301
Sales Rep #. Ed Antolin - 585

Saveable fill in form. Restricted printing until all required (yellow) fields are completed.

I. Generator Information

Generator Name: Doreen Colato			
Generator Site Address: 20749 Tulsa St			
City: Chatsworth	County: Los Angeles	State: California	Zip: 91311
State ID/Reg No: na	State Approval/Waste Code: na	(if applicable)	NAICS #.
Generator Mailing Address (if different): 20749 Tulsa St			
City: Chatsworth	County: Chatsworth	State: California	Zip: 91311
Generator Contact Name: Doreen Colato		Email: katcolato@gmail.com	
Phone Number: (818) 201-4942	Ext:	Fax Number:	

II. Billing Information

Bill To: Republic Services	Contact Name: Gabby		
Billing Address:	Email:		
City:	State:	Zip:	Phone:

III. Waste Stream Information

Name of Waste: <small>(Petroleum products-applies only to contaminated media and debris).</small>	<input type="checkbox"/> Diesel Fuel	<input checked="" type="checkbox"/> Weathered Wood	<input type="checkbox"/> Friable Asbestos
	<input type="checkbox"/> Home Heating Fuel #1-6	<input type="checkbox"/> RCRA Empty Containers	<input type="checkbox"/> Non Friable Asbestos
<input type="checkbox"/> Kerosene	<input type="checkbox"/> Treated Medical Waste	<input type="checkbox"/> Cured Asphalt	<input type="checkbox"/> Tires
<input type="checkbox"/> Aviation Fuel	<input type="checkbox"/> Animal Carcass (non infectious)	<input type="checkbox"/> Plant Trash	<input type="checkbox"/> Food Products <small>(Including Animal Food)</small>
<input type="checkbox"/> Hydraulic Fluid	<input type="checkbox"/> Meth Contaminated Debris		
<input type="checkbox"/> Unleaded Gasoline (UST Corrective Action)			
Process Generating Waste: Railroad ties			
Method of Shipment: <input checked="" type="checkbox"/> BULK <input type="checkbox"/> DRUM <input type="checkbox"/> BAGGED <input type="checkbox"/> OTHER:			
Estimated Annual Volume: 40 Cubic Yards			
Frequency: <input checked="" type="checkbox"/> ONE TIME <input type="checkbox"/> ONGOING			

IV. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true and accurate description of the waste material being offered for disposal. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services, Inc.

Doreen Colato	Homeowner
Authorized Representative Name/Title (Type or Print)	Company Name
	2/7/2018
Authorized Representative Signature	Date



Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123183849	Expiration Date 3/9/2019	
I. Decision Request:	<input checked="" type="checkbox"/> Initial <input type="checkbox"/> Recertification <input type="checkbox"/> Change		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: Paradigm Industries Inc			
Generator Site Address: 13344 S Main St Ste C			
City: Los Angeles	County:	State: CA	Zip:
Name of Waste: Mineral Foam and Gathering of Small Fabrics			
Estimated Annual Volume: 60 Cubic Yards			

II. Special Waste Department Decision:    Approved    Rejected

Management Method(s):    Landfill    Solidification    Bioremediation    Transfer Facility

Problematic Special Waste according to Republic?    Yes    No

If yes, which one? \_\_\_\_\_

Approved by Special Waste Review Committee?    Yes    No    Not Applicable

Precautions, Conditions or Limitations on Approval

Special Waste Analyst Signature:   
Date: 3/9/2018

Name (Printed): Holly Bradley

III. Facility Decision:    Approved    Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee:   
Date: 3/9/2018

Name (Printed): Chris Coyle



Requested Disposal Facility: 5123 Sunshine Canyon LF CA

Waste Profile # <b>5123 18 3849</b>
--

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

Sales Rep #: <b>585 - Ed Antolin</b>
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**I. Generator Information**

Generator Name: PARADIGM INDUSTRIES, INC.			
Generator Site Address: 13344 S Main St. Ste C			
City: Los Angeles	County: USA	State: California	Zip: 90061
State ID/Reg No: GA236157	State Approval/Waste Code:	(if applicable)	NAICS # :
Generator Mailing Address (if different): <input type="checkbox"/> 13344 S Main St. Ste C			
City: Los Angeles	County:	State: California	Zip: 90061
Generator Contact Name: Ethan Jung		Email: accounting@paradigmindustries.com	
Phone Number: (310) 965-1900	Ext: 104	Fax Number: (310) 798-6900	

**II. Billing Information**

Bill To: Republic Services Long Beach	Contact Name:		
Billing Address:	Email:		
City:	State:	Zip:	Phone:

**III. Waste Stream Information**

Name of Waste: Mineral Foam & Gathering of small fabrics	
Process Generating Waste: Waste water used for garment dye are being stored before disposing. Mineral foams are then used to soak up these waste water to filter and clear the water as much as possible before disposing. Small fabrics floating on water are also filtered and gathered during this procedure.	
Type of Waste:	<input checked="" type="checkbox"/> INDUSTRIAL PROCESS WASTE <input type="checkbox"/> POLLUTION CONTROL WASTE
Physical State:	<input checked="" type="checkbox"/> SOLID <input type="checkbox"/> SEMI-SOLID <input type="checkbox"/> POWDER <input type="checkbox"/> LIQUID
Method of Shipment:	<input checked="" type="checkbox"/> BULK <input type="checkbox"/> DRUM <input type="checkbox"/> BAGGED <input type="checkbox"/> OTHER:
Estimated Annual Volume:	60 Cubic Yards
Frequency:	<input type="checkbox"/> ONE TIME <input checked="" type="checkbox"/> ONGOING
Disposal Consideration:	<input checked="" type="checkbox"/> LANDFILL <input type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> BIOREMEDIATION

**IV. Representative Sample Certification**

NO SAMPLE TAKEN

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	<input checked="" type="checkbox"/> YES or <input type="checkbox"/> NO
Type of Sample:	<input type="checkbox"/> COMPOSITE SAMPLE <input checked="" type="checkbox"/> GRAB SAMPLE
Sample Date: 11/20/2017, 12/01/2017	
Sample ID Numbers: Sample ID / Sample Date / Laboratory Name / Laboratory Report#  23311-001 / 11/20/2017 / Orange Coast Analytical, Inc / PDI 23311 23311-001 / 11/20/2017 / Orange Coast Analytical, Inc / PDI 23311A	

Waste Profile #
5123 18 3849

**V. Physical Characteristics of Waste**

Characteristic Components		% by Weight (range)			
1. Mineral Foam		80-90			
2. Fabric Threads		10-20			
3.					
4.					
5.					
Color	Odor (describe)	Does Waste Contain Free Liquids?	% Solids	pH:	Flash Point
Differs	Slight	<input type="checkbox"/> YES or <input checked="" type="checkbox"/> NO	100	NA	NA °F

**Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Chain of Custody and Required Parameters Provided for this Profile**

Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm)[reference 40 CFR 261.23(a)(5)]?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste a reactive or heat generating waste?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does the waste contain sulfur or sulfur by-products?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste generated at a Federal Superfund Clean Up Site?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste from a TSD facility, TSD like facility or consolidator?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No

**VI. Certification**

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services Inc.

Ethan Jung / Accounting Assistant	PARADIGM INDUSTRIES, Inc.
_____ Authorized Representative Name And Title (Type or Print)	_____ Company Name
_____ Authorized Representative Signature	3/8/2018 Date



**Orange Coast Analytical, Inc.**

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067  
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

**LABORATORY REPORT FORM**

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.: 2576

Expiration Date: 2018

Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name:

Mark Noorani

Client: Paradigm Industries

Laboratory Reference: PDI 23311

Project Name:


Project Number:

Date Received: 11/20/2017

Date Reported: 11/30/2017

Chain of Custody Received:

Analytical Method: 8260B, 8270C, 6010B, 7471A,

  
\_\_\_\_\_  
Mark Noorani, Laboratory Director

Mr. Mathew Kim  
Paradigm Industries  
13344 S. Main St.  
Los Angeles, CA, 90061

Lab Reference #: PDI 23311  
Project Name:  
Project #:

### ***Case Narrative***

#### **Sample Receipt:**

All samples on the Chain of Custody were received by OCA at 22.4°C.

#### **Holding Times:**

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

#### **Analytical Methods:**

Sample analysis was performed following the analytical methods listed on the cover page.

#### **Data Qualifiers:**

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

#### **Definition of Terms:**

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

#### **Comments:**

None

Mr. Mathew Kim  
Paradigm Industries  
13344 S. Main St.  
Los Angeles, CA, 90061

Lab Reference #: PDI 23311  
Project Name:  
Project #:

***Client Sample Summary***

---

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
P-1	23311-001	11/20/2017	11/20/2017	Solid



Mr. Mathew Kim  
 Paradigm Industries  
 13344 S. Main St.  
 Los Angeles, CA, 90061

Lab Reference #: PDI 23311  
 Project Name:  
 Project #:

**Volatile Organics by GC/MS (EPA 8260B)**

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
P-1	23311-001	11/20/2017	11/20/2017	11/22/2017	11/27/2017	Solid

<u>ANALYTE</u>	<u>CAS #</u>	<u>µg/kg</u>	<u>ANALYTE</u>	<u>CAS #</u>	<u>µg/kg</u>
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichloropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl ether (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl ether (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene	100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobutadiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenzene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltoluene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chloride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene	91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenzene	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene	100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrachloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrachloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroethene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene	108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorobenzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorobenzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloroethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloroethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoromethane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloropropane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethylbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethylbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride	75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	Xylenes, Total	1330-20-7	<2.0
1,2-Dichloroethane	107-06-2	<2.5	2-Butanone	78-93-3	<50
1,1-Dichloroethene	75-35-4	<2.5			
cis-1,2-Dichloroethene	156-59-2	<2.5			
trans-1,2-Dichloroethene	156-60-5	<2.5			
1,2-Dichloropropane	78-87-5	<2.5			
1,3-Dichloropropane	142-28-9	<2.5			
2,2-Dichloropropane	594-20-7	<2.5			
1,1-Dichloropropene	563-58-6	<2.5			
cis-1,3-Dichloropropene	10061-01-5	<2.5			

<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u> 1
Dibromofluoromethane:	102	37-139 %	<u>Data Qualifiers:</u> None
Toluene-d8:	77	54-130 %	
4-Bromofluorobenzene:	68	47-130 %	

Mr. Mathew Kim  
 Paradigm Industries  
 13344 S. Main St.  
 Los Angeles, CA, 90061

Lab Reference #: PDI 23311  
 Project Name:  
 Project #:

**Volatile Organics by GC/MS (EPA 8260B)**

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBHT1122172			11/22/2017	11/27/2017	Soil

<u>ANALYTE</u>	<u>CAS #</u>	<u>µg/kg</u>	<u>ANALYTE</u>	<u>CAS #</u>	<u>µg/kg</u>
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichloropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl ether (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl ether (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene	100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobutadiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenzene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltoluene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chloride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene	91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenzene	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene	100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrachloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrachloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroethene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene	108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorobenzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorobenzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloroethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloroethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoromethane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloropropane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethylbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethylbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride	75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	Xylenes, Total	1330-20-7	<2.0
1,2-Dichloroethane	107-06-2	<2.5	2-Butanone	78-93-3	<5.0
1,1-Dichloroethene	75-35-4	<2.5			
cis-1,2-Dichloroethene	156-59-2	<2.5			
trans-1,2-Dichloroethene	156-60-5	<2.5			
1,2-Dichloropropane	78-87-5	<2.5			
1,3-Dichloropropane	142-28-9	<2.5			
2,2-Dichloropropane	594-20-7	<2.5			
1,1-Dichloropropene	563-58-6	<2.5			
cis-1,3-Dichloropropene	10061-01-5	<2.5			

<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u> 1
Dibromofluoromethane:	87	37-139 %	<u>Data Qualifiers:</u> None
Toluene-d8:	82	54-130 %	
4-Bromofluorobenzene:	70	47-130 %	

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 Los Angeles, CA, 90061

Lab Reference #: PDI 23311  
 Project Name:  
 Project #:

**Semi Volatile Organics by GC/MS (EPA 8270C)**

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
P-1	23311-001	11/20/2017	11/20/2017	11/22/2017	11/28/2017	Solid

ANALYTE	CAS #	µg/kg	ANALYTE	CAS #	µg/kg
Acenaphthene:	83-32-9	<500	Di-n-octyl phthalate:	117-84-0	<500
Acenaphthylene:	208-96-8	<500	Fluoranthene:	206-44-0	<500
Aniline:	62-53-3	<500	Fluorene:	86-73-7	<500
Anthracene:	120-12-7	<500	Hexachlorobenzene:	118-74-1	<500
Benz(a)anthracene:	56-55-3	<500	Hexachlorobutadiene:	87-68-3	<500
Benzo(b)fluoranthene:	205-99-2	<500	Hexachlorocyclopentadiene:	77-47-4	<2500
Benzo(k)fluoranthene:	207-08-9	<500	Hexachloroethane:	67-72-1	<500
Benzo(g,h,i)perylene:	191-24-2	<500	Indeno(1,2,3-cd)pyrene:	193-39-5	<500
Benzo(a)pyrene:	50-32-8	<500	Isophorone:	78-59-1	<500
Benzyl alcohol:	100-51-6	<500	2-Methylnaphthalene:	91-57-6	<500
bis-(2-chloroethoxy) methane:	111-91-1	<500	2-Methylphenol:	95-48-7	<500
bis-(2-chloroethyl) ether:	111-44-4	<500	3 & 4-Methylphenol:	108-39-4, 106-44-5	<500
bis-(2-chloroisopropyl) ether:	108-60-1	<500	Naphthalene:	91-20-3	<500
bis-(2-ethylhexyl) phthalate:	117-81-7	<500	2-Nitroaniline:	88-74-4	<1300
4-Bromophenyl phenyl ether:	101-55-3	<500	3-Nitroaniline:	99-09-2	<1300
Butyl benzyl phthalate:	85-68-7	<500	4-Nitroaniline:	100-01-6	<1300
4-Chloroaniline:	106-47-8	<500	Nitrobenzene:	98-95-3	<500
2-Chloronaphthalene:	91-58-7	<500	2-Nitrophenol:	88-75-5	<500
4-Chloro-3-methylphenol:	59-50-7	<500	4-Nitrophenol:	100-02-7	<5000
2-Chlorophenol:	95-57-8	<500	N-Nitrosodiphenylamine:	86-30-6	<500
4-Chlorophenyl phenyl ether:	7005-72-3	<500	N-Nitrosodi-n-propylamine:	621-64-7	<500
Chrysene:	218-01-9	<500	N-Nitrosodimethylamine:	62-75-9	<500
Dibenz(a,h)anthracene:	53-70-3	<500	Pentachlorophenol:	87-86-5	<2500
Dibenzofuran:	132-64-9	<500	Phenanthrene:	85-01-8	<500
Di-n-butyl phthalate:	84-74-2	<500	Phenol:	108-95-2	<500
1,2-Dichlorobenzene:	95-50-1	<500	Pyrene:	129-00-0	<500
1,3-Dichlorobenzene:	541-73-1	<500	Pyridine:	110-86-1	<500
1,4-Dichlorobenzene:	106-46-7	<500	1,2,4-Trichlorobenzene:	120-82-1	<500
2,4-Dichlorophenol:	120-83-2	<500	2,4,5-Trichlorophenol:	95-95-4	<500
Diethyl phthalate:	84-66-2	<500	2,4,6-Trichlorophenol:	88-06-2	<500
2,4-Dimethylphenol:	105-67-9	<500			
Dimethyl phthalate:	131-11-3	<500			
4,6-Dinitro-2-methylphenol:	534-52-1	<5000			
2,4-Dinitrophenol:	51-28-5	<5000			
2,4-Dinitrotoluene:	121-14-2	<1300			
2,6-Dinitrotoluene:	606-20-2	<1300			

Surrogate:	% RC	Acceptable % RC
2-Fluorophenol:	26	20-130 %
Phenol-d6:	27	23-130 %
Nitrobenzene-d5:	27	25-130 %
2-Fluorobiphenyl:	26	32-130 %
2,4,6-Tribromophenol:	36	23-130 %
Terphenyl-d14:	29	34-130 %

Dilution Factor: 1  
 Data Qualifiers: S5,

Mr. Mathhew Kim  
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 13344 S. Main St.  
 Los Angeles, CA, 90061

Lab Reference #: PDI 23311  
 Project Name:  
 Project #:

**Semi Volatile Organics by GC/MS (EPA 8270C)**

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBAV1122173			11/22/2017	11/28/2017	Soil

ANALYTE	CAS #	µg/kg	ANALYTE	CAS #	µg/kg
Acenaphthene:	83-32-9	<500	Di-n-octyl phthalate:	117-84-0	<500
Acenaphthylene:	208-96-8	<500	Fluoranthene:	206-44-0	<500
Aniline:	62-53-3	<500	Fluorene:	86-73-7	<500
Anthracene:	120-12-7	<500	Hexachlorobenzene:	118-74-1	<500
Benz(a)anthracene:	56-55-3	<500	Hexachlorobutadiene:	87-68-3	<500
Benzo(b)fluoranthene:	205-99-2	<500	Hexachlorocyclopentadiene:	77-47-4	<2500
Benzo(k)fluoranthene:	207-08-9	<500	Hexachloroethane:	67-72-1	<500
Benzo(g,h,i)perylene:	191-24-2	<500	Indeno(1,2,3-cd)pyrene:	193-39-5	<500
Benzo(a)pyrene:	50-32-8	<500	Isophorone:	78-59-1	<500
Benzyl alcohol:	100-51-6	<500	2-Methylnaphthalene:	91-57-6	<500
bis-(2-chloroethoxy) methane:	111-91-1	<500	2-Methylphenol:	95-48-7	<500
bis-(2-chloroethyl) ether:	111-44-4	<500	3 & 4-Methylphenol:	108-39-4, 106-44-5	<500
bis-(2-chloroisopropyl) ether:	108-60-1	<500	Naphthalene:	91-20-3	<500
bis-(2-ethylhexyl) phthalate:	117-81-7	<500	2-Nitroaniline:	88-74-4	<1300
4-Bromophenyl phenyl ether:	101-55-3	<500	3-Nitroaniline:	99-09-2	<1300
Butyl benzyl phthalate:	85-68-7	<500	4-Nitroaniline:	100-01-6	<1300
4-Chloroaniline:	106-47-8	<500	Nitrobenzene:	98-95-3	<500
2-Chloronaphthalene:	91-58-7	<500	2-Nitrophenol:	88-75-5	<500
4-Chloro-3-methylphenol:	59-50-7	<500	4-Nitrophenol:	100-02-7	<5000
2-Chlorophenol:	95-57-8	<500	N-Nitrosodiphenylamine:	86-30-6	<500
4-Chlorophenyl phenyl ether:	7005-72-3	<500	N-Nitrosodi-n-propylamine:	621-64-7	<500
Chrysene:	218-01-9	<500	N-Nitrosodimethylamine:	62-75-9	<500
Dibenz(a,h)anthracene:	53-70-3	<500	Pentachlorophenol:	87-86-5	<2500
Dibenzofuran:	132-64-9	<500	Phenanthrene:	85-01-8	<500
Di-n-butyl phthalate:	84-74-2	<500	Phenol:	108-95-2	<500
1,2-Dichlorobenzene:	95-50-1	<500	Pyrene:	129-00-0	<500
1,3-Dichlorobenzene:	541-73-1	<500	Pyridine:	110-86-1	<500
1,4-Dichlorobenzene:	106-46-7	<500	1,2,4-Trichlorobenzene:	120-82-1	<500
2,4-Dichlorophenol:	120-83-2	<500	2,4,5-Trichlorophenol:	95-95-4	<500
Diethyl phthalate:	84-66-2	<500	2,4,6-Trichlorophenol:	88-06-2	<500
2,4-Dimethylphenol:	105-67-9	<500			
Dimethyl phthalate:	131-11-3	<500			
4,6-Dinitro-2-methylphenol:	534-52-1	<5000			
2,4-Dinitrophenol:	51-28-5	<5000			
2,4-Dinitrotoluene:	121-14-2	<1300			
2,6-Dinitrotoluene:	606-20-2	<1300			

Surrogate:	% RC	Acceptable % RC
2-Fluorophenol:	61	20-130 %
Phenol-d6:	62	23-130 %
Nitrobenzene-d5:	62	25-130 %
2-Fluorobiphenyl:	67	32-130 %
2,4,6-Tribromophenol:	52	23-130 %
Terphenyl-d14:	77	34-130 %

Dilution Factor: 1  
 Data Qualifiers: None

Mr. Mathew Kim  
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Lab Reference #: PDI 23311  
 Project Name:  
 Project #:

**Metals**

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
P-1	23311-001	11/20/2017	11/20/2017	Solid

<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Antimony	6010B	54	mg/kg	11/22/17	11/27/17	D1,	2
Arsenic	6010B	<4.0	mg/kg	11/22/17	11/27/17	D1,	2
Barium	6010B	130	mg/kg	11/22/17	11/27/17	D1,	2
Beryllium	6010B	<1.0	mg/kg	11/22/17	11/27/17	D1,	2
Cadmium	6010B	3.4	mg/kg	11/22/17	11/27/17	D1,	2
Chromium	6010B	150	mg/kg	11/22/17	11/27/17	D1,	2
Cobalt	6010B	15	mg/kg	11/22/17	11/27/17	D1,	2
Copper	6010B	390	mg/kg	11/22/17	11/27/17	D1,	2
Lead	6010B	80	mg/kg	11/22/17	11/27/17	D1,	2
Mercury	7471A	<0.20	mg/kg	11/22/17	11/27/17	D1,	2
Molybdenum	6010B	98	mg/kg	11/22/17	11/27/17	D1,	2
Nickel	6010B	250	mg/kg	11/22/17	11/27/17	D1,	2
Selenium	6010B	<9.6	mg/kg	11/22/17	11/27/17	D1,	2
Silver	6010B	3.2	mg/kg	11/22/17	11/27/17	D1,	2
Thallium	6010B	<4.0	mg/kg	11/22/17	11/27/17	D1,	2
Vanadium	6010B	8.8	mg/kg	11/22/17	11/27/17	D1,	2
Zinc	6010B	1200	mg/kg	11/22/17	11/27/17	D1,	2

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 Los Angeles, CA, 90061

Lab Reference #: PDI 23311  
 Project Name:  
 Project #:

**Metals**

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
Method Blank				Solid

<u>MB ID</u>	<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
MBJA1122174	Antimony	6010B	<2.0	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Arsenic	6010B	<2.0	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Barium	6010B	<1.0	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Beryllium	6010B	<0.50	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Cadmium	6010B	<0.50	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Chromium	6010B	<0.50	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Cobalt	6010B	<0.50	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Copper	6010B	<5.0	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Lead	6010B	<0.80	mg/kg	11/22/17	11/27/17	--	1
MBJA1122175	Mercury	7471A	<0.10	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Molybdenum	6010B	<1.0	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Nickel	6010B	<1.0	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Selenium	6010B	<4.8	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Silver	6010B	<0.50	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Thallium	6010B	<2.0	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Vanadium	6010B	<0.50	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Zinc	6010B	<5.0	mg/kg	11/22/17	11/27/17	--	1

**QA/QC Report**  
**for**  
**Volatile Organic Compounds (EPA 8260B)**  
Reporting units: ppb

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

Date of Extraction: 11/27/2017

Date of Analysis: 11/27/2017

Dup Date of Analysis: 11/27/2017

Laboratory Sample #: 23306-001

MS/MSD Qualifiers: None

Reference #: PDI 23311

Analyte	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
1,1-Dichloroethene	0.00	10.0	7.52	7.41	75	74	1	53-130	20	<input type="checkbox"/>
Benzene	0.00	10.0	8.44	8.25	84	82	2	70-130	20	<input type="checkbox"/>
Trichloroethene	0.00	10.0	9.16	9.13	92	91	0	70-135	20	<input type="checkbox"/>
Toluene	0.00	10.0	7.98	7.96	80	80	0	66-130	20	<input type="checkbox"/>
Chlorobenzene	0.00	10.0	8.39	8.16	84	82	3	70-130	20	<input type="checkbox"/>

**Surrogate Recoveries for Spike Samples**

Surrogate (%RC)	MS	MSD	Qual
Dibromofluoromethane	102	108	<input type="checkbox"/>
Toluene-d8	78	82	<input type="checkbox"/>
4-Bromofluorobenzene	73	76	<input type="checkbox"/>

LCS	LCSD	Qual
107	103	<input type="checkbox"/>
78	78	<input type="checkbox"/>
73	72	<input type="checkbox"/>

ACP % RC
37-139
54-130
47-130

**Laboratory Control Sample**

Date of Extraction: 11/27/2017

Date of Analysis: 11/27/2017

Dup Date of Analysis: 11/27/2017

Laboratory Sample #: HT1127171

LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
1,1-Dichloroethene	10.0	8.92	8.10	89	81	10	58-130	20	<input type="checkbox"/>
Benzene	10.0	9.24	8.69	92	87	6	70-130	20	<input type="checkbox"/>
Trichloroethene	10.0	9.93	9.33	99	93	6	70-130	20	<input type="checkbox"/>
Toluene	10.0	8.90	8.68	89	87	3	68-130	20	<input type="checkbox"/>
Chlorobenzene	10.0	9.16	8.51	92	85	7	70-130	20	<input type="checkbox"/>

**QA/QC Report**  
for  
**Semi-Volatile Organic Compounds (EPA 8270C)**  
Reporting units: ppb

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

Date of Extraction: 11/22/2017

Date of Analysis: 11/28/2017

Dup Date of Analysis: 11/28/2017

Laboratory Sample #: 23299-005

MS/MSD Qualifiers: None

Reference #: PDI 23311

Analyte	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Phenol	0.00	2000	1190	1180	60	59	1	24-130	20	<input type="checkbox"/>
2-Chlorophenol	0.00	2000	1130	1120	56	56	1	23-130	20	<input type="checkbox"/>
1,4-Dichlorobenzene	0.00	1000	573	583	57	58	2	35-130	20	<input type="checkbox"/>
N-Nitrosodi-n-propylamine	0.00	1000	658	656	66	66	0	41-130	20	<input type="checkbox"/>
1,2,4-Trichlorobenzene	0.00	1000	591	594	59	59	1	30-130	20	<input type="checkbox"/>
4-Chloro-3-methylphenol	0.00	2000	1030	1010	51	50	2	9-130	20	<input type="checkbox"/>
Acenaphthene	0.00	1000	616	621	62	62	1	35-131	20	<input type="checkbox"/>
4-Nitrophenol	0.00	2000	739	736	37	37	0	9-130	20	<input type="checkbox"/>
2,4-Dinitrotoluene	0.00	1000	583	580	58	58	1	27-130	20	<input type="checkbox"/>
Pentachlorophenol	0.00	2000	1010	952	50	48	6	7-141	20	<input type="checkbox"/>
Pyrene	0.00	1000	623	570	62	57	9	32-135	20	<input type="checkbox"/>

**Surrogate Recoveries for Spike Samples**

Surrogate (%RC)	MS	MSD	Qual
2-Fluorophenol	58	58	<input type="checkbox"/>
Phenol-d6	59	58	<input type="checkbox"/>
Nitrobenzene-d5	58	57	<input type="checkbox"/>
2-Fluorobiphenyl	63	62	<input type="checkbox"/>
2,4,6-Tribromophenol	58	55	<input type="checkbox"/>
Terphenyl-d14	72	64	<input type="checkbox"/>

LCS	LCSD	Qual
57	55	<input type="checkbox"/>
58	56	<input type="checkbox"/>
57	56	<input type="checkbox"/>
62	60	<input type="checkbox"/>
56	53	<input type="checkbox"/>
73	70	<input type="checkbox"/>

ACP % RC
20-130
23-130
25-130
32-130
23-130
34-130

**Laboratory Control Sample**

Date of Extraction: 11/22/2017

Date of Analysis: 11/28/2017

Dup Date of Analysis: 11/28/2017

Laboratory Sample #: AV1122173

LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
Phenol	2000	1110	1070	56	54	4	35-130	20	<input type="checkbox"/>
2-Chlorophenol	2000	1070	1020	54	51	5	35-130	20	<input type="checkbox"/>
1,4-Dichlorobenzene	1000	561	544	56	54	3	44-130	20	<input type="checkbox"/>
N-Nitrosodi-n-propylamine	1000	634	613	63	61	3	49-130	20	<input type="checkbox"/>
1,2,4-Trichlorobenzene	1000	574	559	57	56	3	42-130	20	<input type="checkbox"/>
4-Chloro-3-methylphenol	2000	911	892	46	45	2	33-130	20	<input type="checkbox"/>
Acenaphthene	1000	602	577	60	58	4	50-130	20	<input type="checkbox"/>
4-Nitrophenol	2000	732	695	37	35	5	29-130	20	<input type="checkbox"/>
2,4-Dinitrotoluene	1000	581	556	58	56	4	43-130	20	<input type="checkbox"/>
Pentachlorophenol	2000	947	908	47	45	4	33-130	20	<input type="checkbox"/>
Pyrene	1000	619	578	62	58	7	39-130	20	<input type="checkbox"/>



**QA/QC Report  
for  
Metals**

Reference #: PDI 23311

Reporting units: ppm

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

6010B/7471A

Analyte	Date of Extraction	MS Date of Analysis	MSD Date of Analysis	Laboratory Sample #	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Mercury	11/22/2017	11/27/2017	11/27/2017	22306-001	0.00	1.00	1.19	1.20	119	120	1	80-120	20	--
Antimony	11/22/2017	11/27/2017	11/27/2017	23306-001	0.00	20.0	5.02	5.02	25	25	0	75-125	20	M2,
Arsenic	11/22/2017	11/27/2017	11/27/2017	23306-001	6.00	20.0	23.7	23.3	89	86	2	75-125	20	--
Barium	11/22/2017	11/27/2017	11/27/2017	23306-001	120	20.0	131	126	55	30	4	75-125	20	M3,
Beryllium	11/22/2017	11/27/2017	11/27/2017	23306-001	0.00	20.0	20.1	19.7	100	99	2	75-125	20	--
Cadmium	11/22/2017	11/27/2017	11/27/2017	23306-001	0.510	20.0	19.8	19.0	96	92	4	75-125	20	--
Chromium	11/22/2017	11/27/2017	11/27/2017	23306-001	20.0	20.0	36.4	35.6	82	78	2	75-125	20	--
Cobalt	11/22/2017	11/27/2017	11/27/2017	23306-001	5.00	20.0	24.5	23.5	98	93	4	75-125	20	--
Copper	11/22/2017	11/27/2017	11/27/2017	23306-001	12.0	20.0	31.5	30.1	98	91	5	75-125	20	--
Lead	11/22/2017	11/27/2017	11/27/2017	23306-001	67.0	20.0	85.7	77.7	93	53	10	75-125	20	M3,
Molybdenum	11/22/2017	11/27/2017	11/27/2017	23306-001	0.00	20.0	16.1	15.5	81	77	4	75-125	20	--
Nickel	11/22/2017	11/27/2017	11/27/2017	23306-001	8.90	20.0	27.5	27.0	93	91	2	75-125	20	--
Selenium	11/22/2017	11/27/2017	11/27/2017	23306-001	0.00	20.0	17.6	17.7	88	89	1	75-125	20	--
Silver	11/22/2017	11/27/2017	11/27/2017	23306-001	0.00	20.0	19.3	18.4	96	92	5	75-125	20	--
Thallium	11/22/2017	11/27/2017	11/27/2017	23306-001	0.00	20.0	17.2	16.4	86	82	5	75-125	20	--
Vanadium	11/22/2017	11/27/2017	11/27/2017	23306-001	36.0	20.0	53.0	53.8	85	89	1	75-125	20	--
Zinc	11/22/2017	11/27/2017	11/27/2017	23306-001	44.0	20.0	57.7	55.1	69	55	5	75-125	20	M3,

**QA/QC Report  
for  
Metals**

Reference #: PDI 23311

Reporting units: ppm

**Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)**

Analyte	Date of Extraction	LCS Date of Analysis	LCSD Date of Analysis	Laboratory Sample #	SPC CONC	LCS	LCSD	%LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qual
Antimony	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	20.4	19.6	102	98	4	80-120	20	--
Arsenic	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	19.5	19.0	98	95	3	80-120	20	--
Barium	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	20.0	19.5	100	98	3	80-120	20	--
Beryllium	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	20.2	19.2	101	96	5	80-120	20	--
Cadmium	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	19.5	19.2	98	96	2	80-120	20	--
Chromium	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	20.2	19.6	101	98	3	80-120	20	--
Cobalt	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	20.7	20.1	104	100	3	80-120	20	--
Copper	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	20.9	20.3	104	101	3	80-120	20	--
Lead	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	20.3	19.8	101	99	2	80-120	20	--
Molybdenum	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	20.3	19.6	101	98	4	80-120	20	--
Nickel	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	21.0	20.3	105	101	3	80-120	20	--
Selenium	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	19.9	18.9	100	94	5	80-120	20	--
Silver	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	20.4	20.5	102	102	0	80-120	20	--
Thallium	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	21.3	21.0	106	105	1	80-120	20	--
Vanadium	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	19.7	19.1	99	96	3	80-120	20	--
Zinc	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	19.8	19.1	99	96	4	80-120	20	--
Mercury	11/22/2017	11/27/2017	11/27/2017	JA1122175	1.00	1.16	1.16	116	116	0	80-120	20	--

# Data Qualifier Definitions

## Qualifier

D1 = Sample required dilution due to matrix.

M2 = Matrix spike recovery was low, the associated blank spike recovery was acceptable.

23306-001	6010B	Antimony	MS/MSD
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M3 = The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The associated blank spike recovery was acceptable.

23306-001	6010B	Barium	MS/MSD
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23306-001	6010B	Lead	MS/MSD
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23306-001	6010B	Zinc	MS/MSD
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S5 = Surrogate recovery was below laboratory acceptance limits.

23311-001	8270C	Terphenyl-d14, 2-Fluorobiphenyl
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## Definition of terms:

R1	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: $\{(MS-R1) / SP\ CONC\} \times 100$
%MSD	Percent recovery of MSD: $\{(MSD-R1) / SP\ CONC\} \times 100$
RPD (for MS/MSD)	Relative Percent Difference: $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: $\{(LCS) / SP\ CONC\} \times 100$
%LCSD	Percent recovery of LCSD: $\{(LCSD) / SP\ CONC\} \times 100$
RPD (for LCS/LCSD)	Relative Percent Difference: $\{(LCS-LCSD) / (LCS+LCSD)\} \times 100 \times 2$
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected



# Sample Receipt Report

Laboratory Reference PDI 23311

Logged in by SG

Received: 11/20/17 15:08 Company Name: Paradiqm Industries  
Method of Shipment: Hand Delivered Project Manager: Mr. Mathew Kim  
Shipping Container: N/A Project Name: \_\_\_\_\_  
# Shipping Containers: 0 Project #: \_\_\_\_\_

Sample Quantity

1 Solid

Chain of Custody	Complete <input checked="" type="checkbox"/>	Incomplete <input type="checkbox"/>	None <input type="checkbox"/>
Samples On Ice	Yes, Wet <input type="checkbox"/>	Yes, Blue <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Temperature	<u>22.4°C</u>		
Shipping Intact	Yes <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>	No <input type="checkbox"/>
Shipping Custody Seals Intact	Yes <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Samples Intact	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>
Sample Custody Seals Intact	Yes <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Custody Seals Signed & Dated	Yes <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Proper Test Containers	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>
Proper Test Preservations	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>
Samples Within Hold Times	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>
VOAs Have Zero Headspace	Yes <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample Labels	Complete <input type="checkbox"/>	Incomplete <input type="checkbox"/>	None <input checked="" type="checkbox"/>
Sample Information Matches COC	Yes <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>	No <input type="checkbox"/>

Notes

Client Notified \_\_\_\_\_ By \_\_\_\_\_ On \_\_\_\_\_



**Orange Coast Analytical, Inc.**

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067  
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

**LABORATORY REPORT FORM**

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.: 2576

Expiration Date: 2017

Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name:

Mark Noorani

Client: Paradigm Industries

Laboratory Reference: PDI 23311

Project Name:


Project Number:

Date Received: 11/20/2017

Date Reported: 11/30/2017

Chain of Custody Received:

Analytical Method: 8260B, 8270C, 6010B, 7471A,

  
\_\_\_\_\_  
Mark Noorani, Laboratory Director

Mr. Mathew Kim  
Paradigm Industries  
13344 S. Main St.  
Los Angeles, CA, 90061

Lab Reference #: PDI 23311  
Project Name:  
Project #:

### ***Case Narrative***

#### **Sample Receipt:**

All samples on the Chain of Custody were received by OCA at 22.4°C.

#### **Holding Times:**

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

#### **Analytical Methods:**

Sample analysis was performed following the analytical methods listed on the cover page.

#### **Data Qualifiers:**

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

#### **Definition of Terms:**

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

#### **Comments:**

None



Mr. Mathew Kim  
Paradigm Industries  
13344 S. Main St.  
Los Angeles, CA, 90061

Lab Reference #: PDI 23311  
Project Name:  
Project #:

***Client Sample Summary***

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
P-1	23311-001	11/20/2017	11/20/2017	Solid

Mr. Mathew Kim  
 Paradigm Industries  
 13344 S. Main St.  
 Los Angeles, CA, 90061

Lab Reference #: PDI 23311  
 Project Name:  
 Project #:

**Volatile Organics by GC/MS (EPA 8260B)**

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
P-1	23311-001	11/20/2017	11/20/2017	11/22/2017	11/27/2017	Solid

ANALYTE	CAS #	µg/kg	ANALYTE	CAS #	µg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichloropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl ether (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl ether (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene	100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobutadiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenzene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltoluene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chloride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene	91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenzene	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene	100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrachloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrachloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroethene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene	108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorobenzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorobenzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloroethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloroethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoromethane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloropropane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethylbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethylbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride	75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	Xylenes, Total	1330-20-7	<2.0
1,2-Dichloroethane	107-06-2	<2.5			
1,1-Dichloroethene	75-35-4	<2.5			
cis-1,2-Dichloroethene	156-59-2	<2.5			
trans-1,2-Dichloroethene	156-60-5	<2.5			
1,2-Dichloropropane	78-87-5	<2.5			
1,3-Dichloropropane	142-28-9	<2.5			
2,2-Dichloropropane	594-20-7	<2.5			
1,1-Dichloropropene	563-58-6	<2.5			
cis-1,3-Dichloropropene	10061-01-5	<2.5			

Surrogate:	% RC	Acceptable % RC	Dilution Factor: 1
Dibromofluoromethane:	102	37-139 %	Data Qualifiers: None
Toluene-d8:	77	54-130 %	
4-Bromofluorobenzene:	68	47-130 %	

Mr. Mathew Kim  
 Paradigm Industries  
 13344 S. Main St.  
 Los Angeles, CA, 90061

Lab Reference #: PDI 23311  
 Project Name:  
 Project #:

**Volatile Organics by GC/MS (EPA 8260B)**

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBHT1122172			11/22/2017	11/27/2017	Soil

<u>ANALYTE</u>	<u>CAS #</u>	<u>µg/kg</u>	<u>ANALYTE</u>	<u>CAS #</u>	<u>µg/kg</u>
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichloropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl ether (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl ether (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene	100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobutadiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenzene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltoluene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chloride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene	91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenzene	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene	100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrachloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrachloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroethene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene	108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorobenzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorobenzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloroethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloroethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoromethane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloropropane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethylbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethylbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride	75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	Xylenes, Total	1330-20-7	<2.0
1,2-Dichloroethane	107-06-2	<2.5			
1,1-Dichloroethene	75-35-4	<2.5			
cis-1,2-Dichloroethene	156-59-2	<2.5			
trans-1,2-Dichloroethene	156-60-5	<2.5			
1,2-Dichloropropane	78-87-5	<2.5			
1,3-Dichloropropane	142-28-9	<2.5			
2,2-Dichloropropane	594-20-7	<2.5			
1,1-Dichloropropene	563-58-6	<2.5			
cis-1,3-Dichloropropene	10061-01-5	<2.5			

<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u> 1
Dibromofluoromethane:	87	37-139 %	<u>Data Qualifiers:</u> None
Toluene-d8:	82	54-130 %	
4-Bromofluorobenzene:	70	47-130 %	

Mr. Mathew Kim  
 Paradigm Industries  
 13344 S. Main St.  
 Los Angeles, CA, 90061

Lab Reference #: PDI 23311  
 Project Name:  
 Project #:

**Semi Volatile Organics by GC/MS (EPA 8270C)**

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
P-1	23311-001	11/20/2017	11/20/2017	11/22/2017	11/28/2017	Solid

ANALYTE	CAS #	µg/kg	ANALYTE	CAS #	µg/kg
Acenaphthene:	83-32-9	<500	Di-n-octyl phthalate:	117-84-0	<500
Acenaphthylene:	208-96-8	<500	Fluoranthene:	206-44-0	<500
Aniline:	62-53-3	<500	Fluorene:	86-73-7	<500
Anthracene:	120-12-7	<500	Hexachlorobenzene:	118-74-1	<500
Benz(a)anthracene:	56-55-3	<500	Hexachlorobutadiene:	87-68-3	<500
Benzo(b)fluoranthene:	205-99-2	<500	Hexachlorocyclopentadiene:	77-47-4	<2500
Benzo(k)fluoranthene:	207-08-9	<500	Hexachloroethane:	67-72-1	<500
Benzo(g,h,i)perylene:	191-24-2	<500	Indeno(1,2,3-cd)pyrene:	193-39-5	<500
Benzo(a)pyrene:	50-32-8	<500	Isophorone:	78-59-1	<500
Benzyl alcohol:	100-51-6	<500	2-Methylnaphthalene:	91-57-6	<500
bis-(2-chloroethoxy) methane:	111-91-1	<500	2-Methylphenol:	95-48-7	<500
bis-(2-chloroethyl) ether:	111-44-4	<500	3 & 4-Methylphenol:	108-39-4, 106-44-5	<500
bis-(2-chloroisopropyl) ether:	108-60-1	<500	Naphthalene:	91-20-3	<500
bis-(2-ethylhexyl) phthalate:	117-81-7	<500	2-Nitroaniline:	88-74-4	<1300
4-Bromophenyl phenyl ether:	101-55-3	<500	3-Nitroaniline:	99-09-2	<1300
Butyl benzyl phthalate:	85-68-7	<500	4-Nitroaniline:	100-01-6	<1300
4-Chloroaniline:	106-47-8	<500	Nitrobenzene:	98-95-3	<500
2-Chloronaphthalene:	91-58-7	<500	2-Nitrophenol:	88-75-5	<500
4-Chloro-3-methylphenol:	59-50-7	<500	4-Nitrophenol:	100-02-7	<5000
2-Chlorophenol:	95-57-8	<500	N-Nitrosodiphenylamine:	86-30-6	<500
4-Chlorophenyl phenyl ether:	7005-72-3	<500	N-Nitrosodi-n-propylamine:	621-64-7	<500
Chrysene:	218-01-9	<500	N-Nitrosodimethylamine:	62-75-9	<500
Dibenz(a,h)anthracene:	53-70-3	<500	Pentachlorophenol:	87-86-5	<2500
Dibenzofuran:	132-64-9	<500	Phenanthrene:	85-01-8	<500
Di-n-butyl phthalate:	84-74-2	<500	Phenol:	108-95-2	<500
1,2-Dichlorobenzene:	95-50-1	<500	Pyrene:	129-00-0	<500
1,3-Dichlorobenzene:	541-73-1	<500	1,2,4-Trichlorobenzene:	120-82-1	<500
1,4-Dichlorobenzene:	106-46-7	<500	2,4,5-Trichlorophenol:	95-95-4	<500
2,4-Dichlorophenol:	120-83-2	<500	2,4,6-Trichlorophenol:	88-06-2	<500
Diethyl phthalate:	84-66-2	<500			
2,4-Dimethylphenol:	105-67-9	<500			
Dimethyl phthalate:	131-11-3	<500			
4,6-Dinitro-2-methylphenol:	534-52-1	<5000			
2,4-Dinitrophenol:	51-28-5	<5000			
2,4-Dinitrotoluene:	121-14-2	<1300			
2,6-Dinitrotoluene:	606-20-2	<1300			

Surrogate:	% RC	Acceptable % RC
2-Fluorophenol:	26	20-130 %
Phenol-d6:	27	23-130 %
Nitrobenzene-d5:	27	25-130 %
2-Fluorobiphenyl:	26	32-130 %
2,4,6-Tribromophenol:	36	23-130 %
Terphenyl-d14:	29	34-130 %

Dilution Factor: 1  
 Data Qualifiers: S5,

Mr. Mathhew Kim  
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 13344 S. Main St.  
 Los Angeles, CA, 90061

Lab Reference #: PDI 23311  
 Project Name:  
 Project #:

**Semi Volatile Organics by GC/MS (EPA 8270C)**

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBAV1122173			11/22/2017	11/28/2017	Soil

ANALYTE	CAS #	µg/kg	ANALYTE	CAS #	µg/kg
Acenaphthene:	83-32-9	<500	Di-n-octyl phthalate:	117-84-0	<500
Acenaphthylene:	208-96-8	<500	Fluoranthene:	206-44-0	<500
Aniline:	62-53-3	<500	Fluorene:	86-73-7	<500
Anthracene:	120-12-7	<500	Hexachlorobenzene:	118-74-1	<500
Benz(a)anthracene:	56-55-3	<500	Hexachlorobutadiene:	87-68-3	<500
Benzo(b)fluoranthene:	205-99-2	<500	Hexachlorocyclopentadiene:	77-47-4	<2500
Benzo(k)fluoranthene:	207-08-9	<500	Hexachloroethane:	67-72-1	<500
Benzo(g,h,i)perylene:	191-24-2	<500	Indeno(1,2,3-cd)pyrene:	193-39-5	<500
Benzo(a)pyrene:	50-32-8	<500	Isophorone:	78-59-1	<500
Benzyl alcohol:	100-51-6	<500	2-Methylnaphthalene:	91-57-6	<500
bis-(2-chloroethoxy) methane:	111-91-1	<500	2-Methylphenol:	95-48-7	<500
bis-(2-chloroethyl) ether:	111-44-4	<500	3 & 4-Methylphenol:	108-39-4, 106-44-5	<500
bis-(2-chloroisopropyl) ether:	108-60-1	<500	Naphthalene:	91-20-3	<500
bis-(2-ethylhexyl) phthalate:	117-81-7	<500	2-Nitroaniline:	88-74-4	<1300
4-Bromophenyl phenyl ether:	101-55-3	<500	3-Nitroaniline:	99-09-2	<1300
Butyl benzyl phthalate:	85-68-7	<500	4-Nitroaniline:	100-01-6	<1300
4-Chloroaniline:	106-47-8	<500	Nitrobenzene:	98-95-3	<500
2-Chloronaphthalene:	91-58-7	<500	2-Nitrophenol:	88-75-5	<500
4-Chloro-3-methylphenol:	59-50-7	<500	4-Nitrophenol:	100-02-7	<5000
2-Chlorophenol:	95-57-8	<500	N-Nitrosodiphenylamine:	86-30-6	<500
4-Chlorophenyl phenyl ether:	7005-72-3	<500	N-Nitrosodi-n-propylamine:	621-64-7	<500
Chrysene:	218-01-9	<500	N-Nitrosodimethylamine:	62-75-9	<500
Dibenz(a,h)anthracene:	53-70-3	<500	Pentachlorophenol:	87-86-5	<2500
Dibenzofuran:	132-64-9	<500	Phenanthrene:	85-01-8	<500
Di-n-butyl phthalate:	84-74-2	<500	Phenol:	108-95-2	<500
1,2-Dichlorobenzene:	95-50-1	<500	Pyrene:	129-00-0	<500
1,3-Dichlorobenzene:	541-73-1	<500	1,2,4-Trichlorobenzene:	120-82-1	<500
1,4-Dichlorobenzene:	106-46-7	<500	2,4,5-Trichlorophenol:	95-95-4	<500
2,4-Dichlorophenol:	120-83-2	<500	2,4,6-Trichlorophenol:	88-06-2	<500
Diethyl phthalate:	84-66-2	<500			
2,4-Dimethylphenol:	105-67-9	<500			
Dimethyl phthalate:	131-11-3	<500			
4,6-Dinitro-2-methylphenol:	534-52-1	<5000			
2,4-Dinitrophenol:	51-28-5	<5000			
2,4-Dinitrotoluene:	121-14-2	<1300			
2,6-Dinitrotoluene:	606-20-2	<1300			

Surrogate:	% RC	Acceptable % RC
2-Fluorophenol:	61	20-130 %
Phenol-d6:	62	23-130 %
Nitrobenzene-d5:	62	25-130 %
2-Fluorobiphenyl:	67	32-130 %
2,4,6-Tribromophenol:	52	23-130 %
Terphenyl-d14:	77	34-130 %

Dilution Factor: 1  
 Data Qualifiers: None

Mr. Mathew Kim  
 Paradigm Industries  
 13344 S. Main St.  
 Los Angeles, CA, 90061

Lab Reference #: PDI 23311  
 Project Name:  
 Project #:

**Metals**

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
P-1	23311-001	11/20/2017	11/20/2017	Solid

<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
Antimony	6010B	54	mg/kg	11/22/17	11/27/17	D1,	2
Arsenic	6010B	<4.0	mg/kg	11/22/17	11/27/17	D1,	2
Barium	6010B	130	mg/kg	11/22/17	11/27/17	D1,	2
Beryllium	6010B	<1.0	mg/kg	11/22/17	11/27/17	D1,	2
Cadmium	6010B	3.4	mg/kg	11/22/17	11/27/17	D1,	2
Chromium	6010B	150	mg/kg	11/22/17	11/27/17	D1,	2
Cobalt	6010B	15	mg/kg	11/22/17	11/27/17	D1,	2
Copper	6010B	390	mg/kg	11/22/17	11/27/17	D1,	2
Lead	6010B	80	mg/kg	11/22/17	11/27/17	D1,	2
Mercury	7471A	<0.20	mg/kg	11/22/17	11/27/17	D1,	2
Molybdenum	6010B	98	mg/kg	11/22/17	11/27/17	D1,	2
Nickel	6010B	250	mg/kg	11/22/17	11/27/17	D1,	2
Selenium	6010B	<9.6	mg/kg	11/22/17	11/27/17	D1,	2
Silver	6010B	3.2	mg/kg	11/22/17	11/27/17	D1,	2
Thallium	6010B	<4.0	mg/kg	11/22/17	11/27/17	D1,	2
Vanadium	6010B	8.8	mg/kg	11/22/17	11/27/17	D1,	2
Zinc	6010B	1200	mg/kg	11/22/17	11/27/17	D1,	2

Mr. Mathew Kim  
 Paradigm Industries  
 13344 S. Main St.  
 Los Angeles, CA, 90061

Lab Reference #: PDI 23311  
 Project Name:  
 Project #:

**Metals**

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
Method Blank				Solid

<u>MB ID</u>	<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
MBJA1122174	Antimony	6010B	<2.0	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Arsenic	6010B	<2.0	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Barium	6010B	<1.0	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Beryllium	6010B	<0.50	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Cadmium	6010B	<0.50	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Chromium	6010B	<0.50	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Cobalt	6010B	<0.50	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Copper	6010B	<5.0	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Lead	6010B	<0.80	mg/kg	11/22/17	11/27/17	--	1
MBJA1122175	Mercury	7471A	<0.10	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Molybdenum	6010B	<1.0	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Nickel	6010B	<1.0	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Selenium	6010B	<4.8	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Silver	6010B	<0.50	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Thallium	6010B	<2.0	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Vanadium	6010B	<0.50	mg/kg	11/22/17	11/27/17	--	1
MBJA1122174	Zinc	6010B	<5.0	mg/kg	11/22/17	11/27/17	--	1

**QA/QC Report**  
**for**  
**Volatile Organic Compounds (EPA 8260B)**  
Reporting units: ppb

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

Date of Extraction: 11/27/2017

Date of Analysis: 11/27/2017

Dup Date of Analysis: 11/27/2017

Laboratory Sample #: 23306-001

MS/MSD Qualifiers: None

Reference #: PDI 23311

Analyte	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
1,1-Dichloroethene	0.00	10.0	7.52	7.41	75	74	1	53-130	20	<input type="checkbox"/>
Benzene	0.00	10.0	8.44	8.25	84	82	2	70-130	20	<input type="checkbox"/>
Trichloroethene	0.00	10.0	9.16	9.13	92	91	0	70-135	20	<input type="checkbox"/>
Toluene	0.00	10.0	7.98	7.96	80	80	0	66-130	20	<input type="checkbox"/>
Chlorobenzene	0.00	10.0	8.39	8.16	84	82	3	70-130	20	<input type="checkbox"/>

**Surrogate Recoveries for Spike Samples**

Surrogate (%RC)	MS	MSD	Qual
Dibromofluoromethane	102	108	<input type="checkbox"/>
Toluene-d8	78	82	<input type="checkbox"/>
4-Bromofluorobenzene	73	76	<input type="checkbox"/>

LCS	LCSD	Qual
107	103	<input type="checkbox"/>
78	78	<input type="checkbox"/>
73	72	<input type="checkbox"/>

ACP % RC
37-139
54-130
47-130

**Laboratory Control Sample**

Date of Extraction: 11/27/2017

Date of Analysis: 11/27/2017

Dup Date of Analysis: 11/27/2017

Laboratory Sample #: HT1127171

LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
1,1-Dichloroethene	10.0	8.92	8.10	89	81	10	58-130	20	<input type="checkbox"/>
Benzene	10.0	9.24	8.69	92	87	6	70-130	20	<input type="checkbox"/>
Trichloroethene	10.0	9.93	9.33	99	93	6	70-130	20	<input type="checkbox"/>
Toluene	10.0	8.90	8.68	89	87	3	68-130	20	<input type="checkbox"/>
Chlorobenzene	10.0	9.16	8.51	92	85	7	70-130	20	<input type="checkbox"/>



**QA/QC Report**  
for  
**Semi-Volatile Organic Compounds (EPA 8270C)**  
Reporting units: ppb

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

Date of Extraction: 11/22/2017

Date of Analysis: 11/28/2017

Dup Date of Analysis: 11/28/2017

Laboratory Sample #: 23299-005

MS/MSD Qualifiers: None

Reference #: PDI 23311

Analyte	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Phenol	0.00	2000	1190	1180	60	59	1	24-130	20	<input type="checkbox"/>
2-Chlorophenol	0.00	2000	1130	1120	56	56	1	23-130	20	<input type="checkbox"/>
1,4-Dichlorobenzene	0.00	1000	573	583	57	58	2	35-130	20	<input type="checkbox"/>
N-Nitrosodi-n-propylamine	0.00	1000	658	656	66	66	0	41-130	20	<input type="checkbox"/>
1,2,4-Trichlorobenzene	0.00	1000	591	594	59	59	1	30-130	20	<input type="checkbox"/>
4-Chloro-3-methylphenol	0.00	2000	1030	1010	51	50	2	9-130	20	<input type="checkbox"/>
Acenaphthene	0.00	1000	616	621	62	62	1	35-131	20	<input type="checkbox"/>
4-Nitrophenol	0.00	2000	739	736	37	37	0	9-130	20	<input type="checkbox"/>
2,4-Dinitrotoluene	0.00	1000	583	580	58	58	1	27-130	20	<input type="checkbox"/>
Pentachlorophenol	0.00	2000	1010	952	50	48	6	7-141	20	<input type="checkbox"/>
Pyrene	0.00	1000	623	570	62	57	9	32-135	20	<input type="checkbox"/>

**Surrogate Recoveries for Spike Samples**

Surrogate (%RC)	MS	MSD	Qual
2-Fluorophenol	58	58	<input type="checkbox"/>
Phenol-d6	59	58	<input type="checkbox"/>
Nitrobenzene-d5	58	57	<input type="checkbox"/>
2-Fluorobiphenyl	63	62	<input type="checkbox"/>
2,4,6-Tribromophenol	58	55	<input type="checkbox"/>
Terphenyl-d14	72	64	<input type="checkbox"/>

LCS	LCSD	Qual
57	55	<input type="checkbox"/>
58	56	<input type="checkbox"/>
57	56	<input type="checkbox"/>
62	60	<input type="checkbox"/>
56	53	<input type="checkbox"/>
73	70	<input type="checkbox"/>

ACP % RC
20-130
23-130
25-130
32-130
23-130
34-130

**Laboratory Control Sample**

Date of Extraction: 11/22/2017

Date of Analysis: 11/28/2017

Dup Date of Analysis: 11/28/2017

Laboratory Sample #: AV1122173

LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
Phenol	2000	1110	1070	56	54	4	35-130	20	<input type="checkbox"/>
2-Chlorophenol	2000	1070	1020	54	51	5	35-130	20	<input type="checkbox"/>
1,4-Dichlorobenzene	1000	561	544	56	54	3	44-130	20	<input type="checkbox"/>
N-Nitrosodi-n-propylamine	1000	634	613	63	61	3	49-130	20	<input type="checkbox"/>
1,2,4-Trichlorobenzene	1000	574	559	57	56	3	42-130	20	<input type="checkbox"/>
4-Chloro-3-methylphenol	2000	911	892	46	45	2	33-130	20	<input type="checkbox"/>
Acenaphthene	1000	602	577	60	58	4	50-130	20	<input type="checkbox"/>
4-Nitrophenol	2000	732	695	37	35	5	29-130	20	<input type="checkbox"/>
2,4-Dinitrotoluene	1000	581	556	58	56	4	43-130	20	<input type="checkbox"/>
Pentachlorophenol	2000	947	908	47	45	4	33-130	20	<input type="checkbox"/>
Pyrene	1000	619	578	62	58	7	39-130	20	<input type="checkbox"/>

**QA/QC Report  
for  
Metals**

Reference #: PDI 23311

Reporting units: ppm

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

6010B/7471A

Analyte	Date of Extraction	MS Date of Analysis	MSD Date of Analysis	Laboratory Sample #	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Mercury	11/22/2017	11/27/2017	11/27/2017	22306-001	0.00	1.00	1.19	1.20	119	120	1	80-120	20	--
Antimony	11/22/2017	11/27/2017	11/27/2017	23306-001	0.00	20.0	5.02	5.02	25	25	0	75-125	20	M2,
Arsenic	11/22/2017	11/27/2017	11/27/2017	23306-001	6.00	20.0	23.7	23.3	89	86	2	75-125	20	--
Barium	11/22/2017	11/27/2017	11/27/2017	23306-001	120	20.0	131	126	55	30	4	75-125	20	M3,
Beryllium	11/22/2017	11/27/2017	11/27/2017	23306-001	0.00	20.0	20.1	19.7	100	99	2	75-125	20	--
Cadmium	11/22/2017	11/27/2017	11/27/2017	23306-001	0.510	20.0	19.8	19.0	96	92	4	75-125	20	--
Chromium	11/22/2017	11/27/2017	11/27/2017	23306-001	20.0	20.0	36.4	35.6	82	78	2	75-125	20	--
Cobalt	11/22/2017	11/27/2017	11/27/2017	23306-001	5.00	20.0	24.5	23.5	98	93	4	75-125	20	--
Copper	11/22/2017	11/27/2017	11/27/2017	23306-001	12.0	20.0	31.5	30.1	98	91	5	75-125	20	--
Lead	11/22/2017	11/27/2017	11/27/2017	23306-001	67.0	20.0	85.7	77.7	93	53	10	75-125	20	M3,
Molybdenum	11/22/2017	11/27/2017	11/27/2017	23306-001	0.00	20.0	16.1	15.5	81	77	4	75-125	20	--
Nickel	11/22/2017	11/27/2017	11/27/2017	23306-001	8.90	20.0	27.5	27.0	93	91	2	75-125	20	--
Selenium	11/22/2017	11/27/2017	11/27/2017	23306-001	0.00	20.0	17.6	17.7	88	89	1	75-125	20	--
Silver	11/22/2017	11/27/2017	11/27/2017	23306-001	0.00	20.0	19.3	18.4	96	92	5	75-125	20	--
Thallium	11/22/2017	11/27/2017	11/27/2017	23306-001	0.00	20.0	17.2	16.4	86	82	5	75-125	20	--
Vanadium	11/22/2017	11/27/2017	11/27/2017	23306-001	36.0	20.0	53.0	53.8	85	89	1	75-125	20	--
Zinc	11/22/2017	11/27/2017	11/27/2017	23306-001	44.0	20.0	57.7	55.1	69	55	5	75-125	20	M3,

**QA/QC Report  
for  
Metals**

Reference #: PDI 23311

Reporting units: ppm

**Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)**

Analyte	Date of Extraction	LCS Date of Analysis	LCSD Date of Analysis	Laboratory Sample #	SPC CONC	LCS	LCSD	%LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qual
Antimony	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	20.4	19.6	102	98	4	80-120	20	--
Arsenic	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	19.5	19.0	98	95	3	80-120	20	--
Barium	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	20.0	19.5	100	98	3	80-120	20	--
Beryllium	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	20.2	19.2	101	96	5	80-120	20	--
Cadmium	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	19.5	19.2	98	96	2	80-120	20	--
Chromium	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	20.2	19.6	101	98	3	80-120	20	--
Cobalt	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	20.7	20.1	104	100	3	80-120	20	--
Copper	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	20.9	20.3	104	101	3	80-120	20	--
Lead	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	20.3	19.8	101	99	2	80-120	20	--
Molybdenum	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	20.3	19.6	101	98	4	80-120	20	--
Nickel	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	21.0	20.3	105	101	3	80-120	20	--
Selenium	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	19.9	18.9	100	94	5	80-120	20	--
Silver	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	20.4	20.5	102	102	0	80-120	20	--
Thallium	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	21.3	21.0	106	105	1	80-120	20	--
Vanadium	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	19.7	19.1	99	96	3	80-120	20	--
Zinc	11/22/2017	11/27/2017	11/27/2017	JA1122174	20.0	19.8	19.1	99	96	4	80-120	20	--
Mercury	11/22/2017	11/27/2017	11/27/2017	JA1122175	1.00	1.16	1.16	116	116	0	80-120	20	--

# Data Qualifier Definitions

## Qualifier

D1 = Sample required dilution due to matrix.

M2 = Matrix spike recovery was low, the associated blank spike recovery was acceptable.

23306-001	6010B	Antimony	MS/MSD
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M3 = The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The associated blank spike recovery was acceptable.

23306-001	6010B	Barium	MS/MSD
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23306-001	6010B	Lead	MS/MSD
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23306-001	6010B	Zinc	MS/MSD
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S5 = Surrogate recovery was below laboratory acceptance limits.

23311-001	8270C	Terphenyl-d14, 2-Fluorobiphenyl
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## Definition of terms:

R1	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: $\{(MS-R1) / SP\ CONC\} \times 100$
%MSD	Percent recovery of MSD: $\{(MSD-R1) / SP\ CONC\} \times 100$
RPD (for MS/MSD)	Relative Percent Difference: $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: $\{(LCS) / SP\ CONC\} \times 100$
%LCSD	Percent recovery of LCSD: $\{(LCSD) / SP\ CONC\} \times 100$
RPD (for LCS/LCSD)	Relative Percent Difference: $\{(LCS-LCSD) / (LCS+LCSD)\} \times 100 \times 2$
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

# Analysis Request and Chain of Custody Record



**ORANGE COAST ANALYTICAL, INC.**

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Phoenix, AZ 85040  
(480) 736-0960 Fax (480) 736-0970

Lab Job No: 23311  
Page 1 of 1

REQUIRED TURN AROUND TIME: Standard: X  
72 Hours: \_\_\_\_\_ 48 Hours: \_\_\_\_\_ 24 Hours: \_\_\_\_\_

CUSTOMER INFORMATION		PROJECT INFORMATION					ANALYSIS REQUEST / PRESERVATIVE 8260 8270 CARM										REMARKS/PRECAUTIONS		
COMPANY: <u>Paradigm Industries</u>		PROJECT NAME:																	
SEND REPORT TO: <u>Matthew Kim</u>		NUMBER:																	
EMAIL: <u>Kim@paradigmindustries.net</u>		ADDRESS:																	
ADDRESS: <u>13544 S. Main St.</u>		P.O. #:																	
ADDRESS: <u>Los Angeles, CA 90061</u>		SAMPLED BY: <u>Matthew Kim</u>																	
PHONE: <u>661 388-8899</u> FAX:																			
SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE														
<u>P-1</u>	<u>2</u>	<u>11/20/17</u>	<u>11:00</u>	<u>Solid</u>	<u>Plastic</u>	<u>X</u>	<u>X</u>	<u>X</u>											
Total No. of Samples:		Method of Shipment:		Preservative: 1 = Ice 2 = HCl 3 = HNO <sub>3</sub> 4 = H <sub>2</sub> SO <sub>4</sub> 5 = NaOH 6 = Other															
Relinquished By: <u>[Signature]</u>		Date/Time: <u>11/20/17 PM 03:08</u>		Received By:		Date/Time:		Sample Matrix:											
Relinquished By:		Date/Time:		Received By:		Date/Time:		WW - Wastewater DW - Drinking Water SS - Soil/Solid GW - Groundwater OT - Other											
Relinquished By:		Date/Time:		Received For Lab By: <u>[Signature]</u>		Date/Time: <u>11/20/17 1508</u>		Sample Integrity:											
								Intact <input checked="" type="checkbox"/> On Ice <u>No</u> <u>22.4</u> °C											

By signing above, client acknowledges responsibility for payment of all services requested on this chain of custody form and any additional services provided in support of this project. Payment is due within 30 days of invoice date unless otherwise agreed upon, in writing, with Orange Coast Analytical, Inc. All samples remain the property of the client. A disposal fee may be imposed if client fails to pickup sample.

# Sample Receipt Report

Laboratory Reference PDI 23311

Logged in by SG

Received: 11/20/17 15:08 Company Name: Paradiqm Industries  
Method of Shipment: Hand Delivered Project Manager: Mr. Mathew Kim  
Shipping Container: N/A Project Name: \_\_\_\_\_  
# Shipping Containers: 0 Project #: \_\_\_\_\_

Sample Quantity

1 Solid

Chain of Custody	Complete <input checked="" type="checkbox"/>	Incomplete <input type="checkbox"/>	None <input type="checkbox"/>
Samples On Ice	Yes, Wet <input type="checkbox"/>	Yes, Blue <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Temperature	<u>22.4°C</u>		
Shipping Intact	Yes <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>	No <input type="checkbox"/>
Shipping Custody Seals Intact	Yes <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Samples Intact	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>
Sample Custody Seals Intact	Yes <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Custody Seals Signed & Dated	Yes <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Proper Test Containers	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>
Proper Test Preservations	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>
Samples Within Hold Times	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>
VOAs Have Zero Headspace	Yes <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample Labels	Complete <input type="checkbox"/>	Incomplete <input type="checkbox"/>	None <input checked="" type="checkbox"/>
Sample Information Matches COC	Yes <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>	No <input type="checkbox"/>

Notes

Client Notified \_\_\_\_\_ By \_\_\_\_\_ On \_\_\_\_\_



**Orange Coast Analytical, Inc.**

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067  
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

**LABORATORY REPORT FORM**

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.: 2576

Expiration Date: 2017

Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name:

Mark Noorani

Client: Paradigm Industries

Laboratory Reference: PDI 23311A

Project Name:


Project Number:

Date Received: 12/1/2017

Date Reported: 12/21/2017

Chain of Custody Received:

Analytical Method: 6010B, 1311/6010B,

  
\_\_\_\_\_  
Mark Noorani, Laboratory Director



Mr. Mathew Kim  
Paradigm Industries  
13344 S. Main St.  
Los Angeles, CA, 90061

Lab Reference #: PDI 23311A  
Project Name:  
Project #:

### ***Case Narrative***

#### **Sample Receipt:**

All samples on the Chain of Custody were received by OCA at 22.4°C.

#### **Holding Times:**

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

#### **Analytical Methods:**

Sample analysis was performed following the analytical methods listed on the cover page.

#### **Data Qualifiers:**

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

#### **Definition of Terms:**

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

#### **Comments:**

None

Mr. Mathew Kim  
Paradigm Industries  
13344 S. Main St.  
Los Angeles, CA, 90061

Lab Reference #: PDI 23311A  
Project Name:  
Project #:

***Client Sample Summary***

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
P-1	23311-001	12/1/2017	11/20/2017	Solid

Mr. Mathew Kim  
 Paradigm Industries  
 13344 S. Main St.  
 Los Angeles, CA, 90061

Lab Reference #: PDI 23311A  
 Project Name:  
 Project #:

**Metals**

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix				
P-1	23311-001	12/1/2017	11/20/2017	Solid				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
TCLP Chromium	6010B	0.040	mg/l	12/14/17	12/15/17	--	1	
Method Blank				Solid				
<u>MB ID</u>	<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
MBJA1214174	TCLP Chromium	6010B	<0.020	mg/l	12/14/17	12/15/17	--	1
P-1	23311-001	12/1/2017	11/20/2017	Solid				
<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>	
STLC Chromium	6010B	0.75	mg/L	12/19/17	12/20/17	--	1	
STLC Copper	6010B	14	mg/L	12/19/17	12/20/17	--	1	
STLC Lead	6010B	0.25	mg/L	12/19/17	12/20/17	--	1	
STLC Nickel	6010B	1.9	mg/L	12/19/17	12/20/17	--	1	
Method Blank				Solid				
<u>MB ID</u>	<u>ANALYTE</u>	<u>EPA Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Extracted</u>	<u>Date Analyzed</u>	<u>Qual</u>	<u>DF</u>
MBJA1219174	STLC Chromium	6010B	<0.050	mg/L	12/19/17	12/20/17	--	1
MBJA1219174	STLC Copper	6010B	<0.50	mg/L	12/19/17	12/20/17	--	1
MBJA1219174	STLC Lead	6010B	<0.20	mg/L	12/19/17	12/20/17	--	1
MBJA1219174	STLC Nickel	6010B	<0.10	mg/L	12/19/17	12/20/17	--	1

**QA/QC Report  
for  
Metals**

Reference #: PDI 23311A

Reporting units: ppm

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

**1311/ 6010B**

Analyte	Date of Extraction	MS Date of Analysis	MSD Date of Analysis	Laboratory Sample #	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
TCLP Chromium	12/14/2017	12/15/2017	12/15/2017	AZ11105-001	0.00	0.400	0.396	0.404	99	101	2	75-125	20	--

**Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)**

Analyte	Date of Extraction	LCS Date of Analysis	LCSD Date of Analysis	Laboratory Sample #	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
TCLP Chromium	12/14/2017	12/15/2017	12/15/2017	JA1214174	0.400	0.368	0.359	92	90	2	80-120	20	--

**QA/QC Report  
for  
Metals**

Reference #: PDI 23311A

Reporting units: ppm

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

STLC CCR

Analyte	Date of Extraction	MS Date of Analysis	MSD Date of Analysis	Laboratory Sample #	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
STLC Chromium	12/19/2017	12/20/2017	12/20/2017	23311-001	0.750	1.00	1.70	1.79	95	104	5	75-125	20	--
STLC Copper	12/19/2017	12/20/2017	12/20/2017	23311-001	14.0	1.00	15.5	16.2	150	220	4	75-125	20	M3,
STLC Lead	12/19/2017	12/20/2017	12/20/2017	23311-001	0.250	1.00	1.20	1.29	95	104	7	75-125	20	--
STLC Nickel	12/19/2017	12/20/2017	12/20/2017	23311-001	1.90	1.00	2.83	2.98	93	108	5	75-125	20	--

**Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)**

Analyte	Date of Extraction	LCS Date of Analysis	LCSD Date of Analysis	Laboratory Sample #	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
STLC Chromium	12/19/2017	12/20/2017	12/20/2017	JA1219174	1.00	1.01	1.03	101	103	2	80-120	20	--
STLC Copper	12/19/2017	12/20/2017	12/20/2017	JA1219174	1.00	0.976	0.979	98	98	0	80-120	20	--
STLC Lead	12/19/2017	12/20/2017	12/20/2017	JA1219174	1.00	0.951	0.975	95	98	2	80-120	20	--
STLC Nickel	12/19/2017	12/20/2017	12/20/2017	JA1219174	1.00	0.950	0.960	95	96	1	80-120	20	--

# Data Qualifier Definitions

## Qualifier

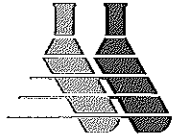
M3 = The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The associated blank spike recovery was acceptable.

23311-001    STLC CCR    STLC Copper    MS/MSD

## Definition of terms:

R1	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: $\{(MS-R1) / SP\ CONC\} \times 100$
%MSD	Percent recovery of MSD: $\{(MSD-R1) / SP\ CONC\} \times 100$
RPD (for MS/MSD)	Relative Percent Difference: $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: $\{(LCS) / SP\ CONC\} \times 100$
%LCSD	Percent recovery of LCSD: $\{(LCSD) / SP\ CONC\} \times 100$
RPD (for LCS/LCSD)	Relative Percent Difference: $\{(LCS-LCSD) / (LCS+LCSD)\} \times 100 \times 2$
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

# Analysis Request and Chain of Custody Record



**ORANGE COAST ANALYTICAL, INC.** [www.ocalab.com](http://www.ocalab.com)  
 3002 Dow, Suite 532 4620 E. Elwood, Suite 4  
 Tustin, CA 92780 Phoenix, AZ 85040  
 (714) 832-0064 Fax (714) 832-0067 (480) 736-0960 Fax (480) 736-0970

Lab Job No: 23311  
 Page 1 of 1

REQUIRED TURN AROUND TIME: Standard: X  
 72 Hours: \_\_\_\_\_ 48 Hours: \_\_\_\_\_ 24 Hours: \_\_\_\_\_

CUSTOMER INFORMATION		PROJECT INFORMATION					ANALYSIS REQUEST / PRESERVATIVE 8260 8270 CAM										REMARKS/PRECAUTIONS			
COMPANY: <u>Paradigm Industries</u>		PROJECT NAME:																		
SEND REPORT TO: <u>Matthew Kim</u>		NUMBER:																		
EMAIL: <u>Kim@paradigmindustries.net</u>		ADDRESS:																		
ADDRESS: <u>13544 S. Main St.</u>		P.O. #:																		
<u>Los Angeles, CA 90061</u>		SAMPLED BY: <u>Matthew Kim</u>																		
PHONE: <u>661 388-8899</u> FAX:																				
SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE															
<u>P-1</u>	<u>2</u>	<u>11/20/17</u>	<u>11:00</u>	<u>Solid</u>	<u>Plastic</u>	<u>X</u>	<u>X</u>	<u>X</u>												

Total No. of Samples: _____		Method of Shipment: _____		Preservative: 1 = Ice 2 = HCl 3 = HNO <sub>3</sub> 4 = H <sub>2</sub> SO <sub>4</sub> 5 = NaOH 6 = Other					
Relinquished By: <u>[Signature]</u>	Date/Time: <u>11/20/17 12:03:08 PM</u>	Received By: _____	Date/Time: _____	Sample Matrix: WW - Wastewater DW - Drinking Water GW - Groundwater OT - Other					
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____						
Relinquished By: _____	Date/Time: _____	Received For Lab By: <u>[Signature]</u>	Date/Time: <u>11/20/17 1:08</u>						

By signing above, client acknowledges responsibility for payment of all services requested on this chain of custody form and any additional services provided in support of this project. Payment is due within 30 days of invoice date unless otherwise agreed upon, in writing, with Orange Coast Analytical, Inc. All samples remain the property of the client. A disposal fee may be imposed if client fails to pickup sample.



# Sample Receipt Report

Laboratory Reference PDI 23311

Logged in by SG

Received: 11/20/17 15:08 Company Name: Paradiqm Industries  
Method of Shipment: Hand Delivered Project Manager: Mr. Mathew Kim  
Shipping Container: N/A Project Name: \_\_\_\_\_  
# Shipping Containers: 0 Project #: \_\_\_\_\_

Sample Quantity

1 Solid

Chain of Custody	Complete <input checked="" type="checkbox"/>	Incomplete <input type="checkbox"/>	None <input type="checkbox"/>
Samples On Ice	Yes, Wet <input type="checkbox"/>	Yes, Blue <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Temperature	<u>22.4°C</u>		
Shipping Intact	Yes <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>	No <input type="checkbox"/>
Shipping Custody Seals Intact	Yes <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Samples Intact	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>
Sample Custody Seals Intact	Yes <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Custody Seals Signed & Dated	Yes <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Proper Test Containers	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>
Proper Test Preservations	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>
Samples Within Hold Times	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>
VOAs Have Zero Headspace	Yes <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample Labels	Complete <input type="checkbox"/>	Incomplete <input type="checkbox"/>	None <input checked="" type="checkbox"/>
Sample Information Matches COC	Yes <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>	No <input type="checkbox"/>

Notes

Client Notified \_\_\_\_\_ By \_\_\_\_\_ On \_\_\_\_\_



# Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

## FAX

### INCOMPLETE FILE TRANSMITTAL

<b>TO:</b> Holly Aasen	<b>LOG NO.:</b> 5123183849
<b>FAX:</b>	<b>File Received:</b> 3/8/2018
<b>From:</b> Special Waste Dept.	<b>Response Date:</b> 3/8/2018
<b>Re:</b> Paradigm Industries Inc / Mineral Foam and Gathering of Small Fabrics	

SECTION I	SECTION II	SECTION III	SECTION IV	SECTION V	SECTION VI
<input type="checkbox"/> DisposalFacility	<input type="checkbox"/> TransporterName	<input type="checkbox"/> NameOfWaste	<input type="checkbox"/> USEPA	<input type="checkbox"/> CharacteristicComponents	<input type="checkbox"/> GenAuthSignature
<input type="checkbox"/> GeneratorName	<input type="checkbox"/> TransporterSiteAddress	<input type="checkbox"/> ProcessGeneratingWaste	<input type="checkbox"/> SampleDate	<input type="checkbox"/> FreeLiquids	<input type="checkbox"/> GenCoName
<input type="checkbox"/> GeneratorSiteAddress	<input type="checkbox"/> TransporterCityStateZip	<input type="checkbox"/> TypeOfWaste	<input type="checkbox"/> CompositeGrab	<input type="checkbox"/> YesNo	<input type="checkbox"/> NoStateLetter
<input type="checkbox"/> GeneratorCityStateZip	<input type="checkbox"/> TransporterMailingAddress	<input type="checkbox"/> PhysicalState	<input type="checkbox"/> SampleID	<input type="checkbox"/> pH_Flash	<input type="checkbox"/> Name_Title
<input type="checkbox"/> GeneratorMailingAddress	<input type="checkbox"/> TransporterContactName	<input type="checkbox"/> MethodOfShipment			<input type="checkbox"/> SignatureDate
<input type="checkbox"/> GeneratorContactName	<input type="checkbox"/> TransporterTelFax	<input type="checkbox"/> EstimatedAnnualVolume			
<input type="checkbox"/> GeneratorTelFax		<input type="checkbox"/> Frequency			
<input type="checkbox"/> GeneratorStateID		<input type="checkbox"/> DisposalConsideration			
<input type="checkbox"/> WasteCodeTexas					

ANALYTICALS	TCLP TOTAL METALS	TCLP VOLATILES	TCLP SEMI-VOLATILES	PESTICIDES / HERBICIDE	
<input type="checkbox"/> TotalCyanide	<input type="checkbox"/> Arsenic	<input type="checkbox"/> Benzene	<input type="checkbox"/> Cresols	<input type="checkbox"/> Chlordane	<input type="checkbox"/> LabLetterhead
<input type="checkbox"/> ReactiveCyanide	<input type="checkbox"/> Barium	<input type="checkbox"/> CarbonTetrachloride	<input type="checkbox"/> DichlorobenzeneOne	<input type="checkbox"/> Endrin	<input type="checkbox"/> ChainOfCustody
<input type="checkbox"/> TotalSulfide	<input type="checkbox"/> Cadmium	<input type="checkbox"/> Chlorobenzene	<input type="checkbox"/> DinitrotolueneTwo	<input type="checkbox"/> Heptachlor	<input type="checkbox"/> NoLabSignature
<input type="checkbox"/> ReactiveSulfide	<input type="checkbox"/> Chromium	<input type="checkbox"/> Chloroform	<input type="checkbox"/> Hexachlorobenzene	<input type="checkbox"/> HeptachlorEpoxide	<input type="checkbox"/> ReportOneYearOldPlus
<input type="checkbox"/> TotalPCB	<input type="checkbox"/> Copper	<input type="checkbox"/> DichloroethaneOne	<input type="checkbox"/> Nitrobenzene	<input type="checkbox"/> Lindane	<input type="checkbox"/> NoThirdPartyLab
<input type="checkbox"/> TOX_EOX	<input type="checkbox"/> Lead	<input type="checkbox"/> DichloroethyleneTwo	<input type="checkbox"/> Pentachlorophenol	<input type="checkbox"/> Methoxychlor	<input type="checkbox"/> MissingReportPages
<input type="checkbox"/> Phenols	<input type="checkbox"/> Mercury	<input checked="" type="checkbox"/> MethylEthylKetone	<input checked="" type="checkbox"/> Pyridine	<input type="checkbox"/> Toxaphene	<input type="checkbox"/> MissingMSDSPages
<input type="checkbox"/> FlashPoint	<input type="checkbox"/> Selenium	<input type="checkbox"/> Tetrachloroethylene	<input type="checkbox"/> TrichlorophenolFive	<input type="checkbox"/> TwoFourD	<input type="checkbox"/> TotalSulfates
<input type="checkbox"/> pH	<input type="checkbox"/> Silver	<input type="checkbox"/> Trichlorethylene	<input type="checkbox"/> TrichlorphenolSix	<input type="checkbox"/> TwoFourFiveTP	<input type="checkbox"/> TotalSulfur
<input type="checkbox"/> PaintFilter	<input type="checkbox"/> Zinc	<input type="checkbox"/> VinylChloride			<input type="checkbox"/> WrongProfile
<input type="checkbox"/> TPH					
<input type="checkbox"/> BTEX					<input checked="" type="checkbox"/> GeneratorIncomplete

**Notes:**

Please have the generator contact the lab to add the RCRA regulated compounds Methyl Ethyl Ketone and Pyridine to the lab report for Sample 23311-001. The lab should be able to add the additional compounds to the report from the previous analysis of the sample. Additional analytical must be prepped and analyzed within method specified hold times.

Thank you,  
Holly



# Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123184383	Expiration Date 3/12/2019	
<b>I. Decision Request:</b>	<input checked="" type="checkbox"/> Initial <input type="checkbox"/> Recertification <input type="checkbox"/> Change		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: Puratos Corporation			
Generator Site Address: 18831 S Laurel Park Road			
City: Rancho Dominguez	County: _____	State: CA	Zip: _____
Name of Waste: Food Products			
Estimated Annual Volume: 40,800 Pounds			

**II. Special Waste Department Decision:**     Approved     Rejected

Management Method(s):     Landfill     Solidification     Bioremediation     Transfer Facility

Problematic Special Waste according to Republic?     Yes     No

If yes, which one? \_\_\_\_\_

Approved by Special Waste Review Committee?     Yes     No     Not Applicable

### Precautions, Conditions or Limitations on Approval

"Dusty/Powdery" Material: Waste must be shipped in a manner that minimizes fugitive dust emissions. Proper PPE must be worn when handling this material.

Special Waste Analyst Signature:   
Date: 3/19/2018


Name (Printed): KEITH DIAMANTI

**III. Facility Decision:**     Approved     Rejected

### Precautions, Conditions or Limitations on Approval

\_\_\_\_\_

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee:   
Date: 3/19/2018

Name (Printed): Chris Coyle



EXPRESS WASTE PROFILE

Requested Disposal Facility: 5123 Sunshine Canyon LF CA

Waste Profile #
5123 18 4383
Sales Rep #, 585 - Ed Antolin

Saveable fill in form Restricted printing until all required (yellow) fields are completed

I. Generator Information

Generator Name: Puratos Corporation			
Generator Site Address: 18831 S. Laurel Park Road			
City: Rancho Dominguez	County: Los Angeles	State: California	Zip: 90220
State ID/Reg No:	State Approval/Waste Code:	(if applicable)	NAICS #.
Generator Mailing Address (if different): 18831 S. Laurel Park Road			
City: Rancho Dominguez	County: Rancho Dominguez	State: California	Zip: 90220
Generator Contact Name: Miguel Mendoza		Email: mmendoza@puratos.com	
Phone Number: (310) 632-5522	Ext: 254140	Fax Number: (310) 632-6633	

II. Billing Information

Bill To: Republic Services - Sunshine Canyon	Contact Name: Julie Resurreccion		
Billing Address: 2531 E. 67th Street	Email: JResurreccion@republicservices.com		
City: Long Beach	State: CA	Zip: 90805	Phone: (562) 762-0210

III. Waste Stream Information

Name of Waste: <small>(Petroleum products-applies only to contaminated media and debris).</small>	<input type="checkbox"/> Diesel Fuel	<input type="checkbox"/> Weathered Wood	<input type="checkbox"/> Friable Asbestos
	<input type="checkbox"/> Home Heating Fuel #1-6	<input type="checkbox"/> RCRA Empty Containers	<input type="checkbox"/> Non Friable Asbestos
	<input type="checkbox"/> Kerosene	<input type="checkbox"/> Treated Medical Waste	<input type="checkbox"/> Cured Asphalt
	<input type="checkbox"/> Aviation Fuel	<input type="checkbox"/> Animal Carcass (non infectious)	<input type="checkbox"/> Tires
	<input type="checkbox"/> Hydraulic Fluid	<input type="checkbox"/> Plant Trash	<input checked="" type="checkbox"/> Food Products
	<input type="checkbox"/> Unleaded Gasoline (UST Corrective Action)	<input type="checkbox"/> Meth Contaminated Debris	

Process Generating Waste: Bread Flour, Vendor Recall

Method of Shipment:  BULK  DRUM  BAGGED  OTHER:

Estimated Annual Volume: 40,800 Pounds

Frequency:  ONE TIME  ONGOING

IV. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true and accurate description of the waste material being offered for disposal. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services, Inc.

Miguel A. Mendoza, Warehouse Supervisor	Puratos Corporation
Authorized Representative Name/Title (Type or Print)	Company Name
	3/12/2018
Authorized Representative Signature	Date



# Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123184431	Expiration Date 3/19/2019	
<b>I. Decision Request:</b>	<input checked="" type="checkbox"/> Initial <input type="checkbox"/> Recertification <input type="checkbox"/> Change		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: Kauai Organic Farms			
Generator Site Address: 11101 S La Cienega Blvd			
City: Los Angeles	County: _____	State: CA	Zip: _____
Name of Waste: Food Products			
Estimated Annual Volume: 3356 Pounds			

**II. Special Waste Department Decision:**     Approved     Rejected


Management Method(s):     Landfill     Solidification     Bioremediation     Transfer Facility

Problematic Special Waste according to Republic?     Yes     No

If yes, which one? \_\_\_\_\_

Approved by Special Waste Review Committee?     Yes     No     Not Applicable

### Precautions, Conditions or Limitations on Approval

Special Waste Analyst Signature: 

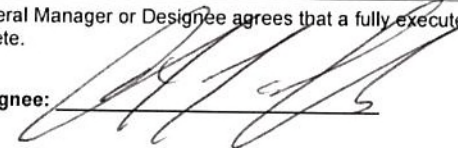
Date: 3/19/2018

Name (Printed): KEITH DIAMANTI

**III. Facility Decision:**     Approved     Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: 

Date: 3/19/2018

Name (Printed): Chris Coyle



Requested Disposal Facility: 5123 Sunshine Canyon LF CA

Waste Profile #

5123 18 4431

Saveables fill in form. Restricted printing until all required (yellow) fields are completed.

Sales Rep #. 585 - Ed Antolin

**I. Generator Information**

Generator Name: Kauai Organic Farms			
Generator Site Address: 11101 S La Cienega Blvd			
City: Los Angeles	County:	State: California	Zip: 90045
State ID/Reg No:	State Approval/Waste Code:	(if applicable)	NAICS #.
Generator Mailing Address (if different): 4469 W North Waiakula			
City: Kilauea Kona	County:	State: -- Select a State HI	Zip: 96754
Generator Contact Name: Phil Green		Email:	
Phone Number: 8086518843	Ext:	Fax Number:	

**II. Billing Information**

Bill To: Commodity Forwarders Inc		Contact Name: Frank Castro	
Billing Address: 11101 La Cienega Blvd		Email: franciscoc@ciperishables.com	
City: Los Angeles	State: CA	Zip: 90045	Phone: 3103488855

**III. Waste Stream Information**

Name of Waste: <small>(Petroleum products-applies only to contaminated media and debris)</small>	<input type="checkbox"/> Diesel Fuel	<input type="checkbox"/> Weathered Wood	<input type="checkbox"/> Friable Asbestos
	<input type="checkbox"/> Home Heating Fuel #1-6	<input type="checkbox"/> RCRA Empty Containers	<input type="checkbox"/> Non Friable Asbestos
	<input type="checkbox"/> Kerosene	<input type="checkbox"/> Treated Medical Waste	<input type="checkbox"/> Cured Asphalt
	<input type="checkbox"/> Aviation Fuel	<input type="checkbox"/> Animal Carcass (non infectious)	<input type="checkbox"/> Tires
	<input type="checkbox"/> Hydraulic Fluid	<input type="checkbox"/> Plant Trash	<input checked="" type="checkbox"/> Food Products <small>(Including Animal Food)</small>
	<input type="checkbox"/> Unleaded Gasoline (UST Corrective Action)	<input type="checkbox"/> Meth Contaminated Debris	

Process Generating Waste: 102 boxes Turmeric placed on Hold by Los Angeles County Agriculture due to pest infestation.

Method of Shipment: <input checked="" type="checkbox"/> BULK <input type="checkbox"/> DRUM <input type="checkbox"/> BAGGED <input type="checkbox"/> OTHER:
Estimated Annual Volume: 33561BS -- Select Volume Type --
Frequency: <input checked="" type="checkbox"/> ONE TIME <input type="checkbox"/> ONGOING

**IV. Certification**

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true and accurate description of the waste material being offered for disposal. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services, Inc.

Phil Green / President	Kauai Organic Farms
Authorized Representative Name/Title (Type or Print)	Company Name
	3-19-18
Authorized Representative Signature	Date



# Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

Waste Profile #  
5123185592

Expiration Date  
10/6/2018

### I. Decision Request:

Initial    Recertification    Change

Disposal Facility: 5123 - Sunshine Canyon Landfill

Generator Name: Green House Nurseries Inc

Generator Site Address: 9400 Canterbury Ave

City: Arleta

County:

State: CA

Zip:

Name of Waste: Unidentifiable Insect Eggs on Plants from Florida

Estimated Annual Volume: 1 Cubic Yards

### II. Special Waste Department Decision:   Approved   Rejected

Management Method(s):    Landfill    Solidification    Bioremediation    Transfer Facility

Problematic Special Waste according to Republic?    Yes    No

If yes, which one? \_\_\_\_\_

Approved by Special Waste Review Committee?    Yes    No    Not Applicable

### Precautions, Conditions or Limitations on Approval

This material must be buried immediately upon receipt at the landfill.

Proper PPE must be worn when handling this material.

Special Waste Analyst Signature: \_\_\_\_\_

Date: 4/6/2018

Name (Printed): Holly Wilson

### III. Facility Decision:

Approved    Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: \_\_\_\_\_

Date: 4/6/2018

Name (Printed): Chris Coyle



Requested Disposal Facility: 5123 Sunshine Canyon LF CA

Waste Profile # 5123 18 5592
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Sales Rep #: 585 - Ed Antolin
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Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

**I. Generator Information**

Generator Name: Green House Nurseries Inc			
Generator Site Address: 9400 Canterbury Ave.			
City: Arleta	County: Los Angeles	State: California	Zip: 91331
State ID/Reg No: N/A	State Approval/Waste Code: N/A	(if applicable)	NAICS #: N/A
Generator Mailing Address (if different): <input type="checkbox"/> 9400 Canterbury Ave.			
City: Arleta	County: Los Angeles	State: California	Zip: 91331
Generator Contact Name: Paul Needleman		Email: paul@greenhousenurseries.com	
Phone Number: (818) 899-0977	Ext: N/A	Fax Number: (818) 899-6857	

**II. Billing Information**

Bill To: same as above	Contact Name:		
Billing Address:	Email:		
City:	State:	Zip:	Phone:

**III. Waste Stream Information**

Name of Waste: Unidentifiable insect eggs on plants from Florida	
Process Generating Waste: Ag department had us cutup the foliage and put in 40 gal plastic bags. There are 19 of them	
Type of Waste:	<input type="checkbox"/> INDUSTRIAL PROCESS WASTE <input checked="" type="checkbox"/> POLLUTION CONTROL WASTE
Physical State:	<input checked="" type="checkbox"/> SOLID <input type="checkbox"/> SEMI-SOLID <input type="checkbox"/> POWDER <input type="checkbox"/> LIQUID
Method of Shipment:	<input type="checkbox"/> BULK <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> BAGGED <input type="checkbox"/> OTHER:
Estimated Annual Volume:	1 Cubic Yards
Frequency:	<input checked="" type="checkbox"/> ONE TIME <input type="checkbox"/> ONGOING
Disposal Consideration:	<input checked="" type="checkbox"/> LANDFILL <input type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> BIOREMEDIATION

**IV. Representative Sample Certification**

NO SAMPLE TAKEN

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	<input type="checkbox"/> YES or <input type="checkbox"/> NO
Type of Sample: <input type="checkbox"/> COMPOSITE SAMPLE <input type="checkbox"/> GRAB SAMPLE	
Sample Date:	
Sample ID Numbers:	



Waste Profile #
5123 18 5592

**V. Physical Characteristics of Waste**

Characteristic Components		% by Weight (range)			
1. Foliage		99%			
2. Insect Eggs		1%			
3.					
4.					
5.					
Color	Odor (describe)	Does Waste Contain Free Liquids?	% Solids	pH:	Flash Point
green	none	<input type="checkbox"/> YES or <input checked="" type="checkbox"/> NO	100%	7	N/A °F

**Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Chain of Custody and Required Parameters Provided for this Profile**

Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm)[reference 40 CFR 261.23(a)(5)]?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste a reactive or heat generating waste?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does the waste contain sulfur or sulfur by-products?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste generated at a Federal Superfund Clean Up Site?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste from a TSD facility, TSD like facility or consolidator?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No

**VI. Certification**

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services Inc.

Paul Needleman President

Green House Nurseries Inc.

Authorized Representative Name And Title (Type or Print)

Company Name

*Paul Needleman*

04/06/2018

Authorized Representative Signature

Date



Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

Waste Profile # 5123185694

Expiration Date 4/10/2019

I. Decision Request:

Initial Recertification Change

Disposal Facility: 5123 - Sunshine Canyon Landfill

Generator Name: Department of Transportation - Caltrans District 7

Generator Site Address: 07-LA-10, 710 Various

City: Various

County:

State: CA

Zip:

Name of Waste: Weathered Wood

Estimated Annual Volume: 4000 Pounds

II. Special Waste Department Decision: Approved Rejected

Management Method(s): Landfill Solidification Bioremediation Transfer Facility

Problematic Special Waste according to Republic? Yes No

If yes, which one?

Approved by Special Waste Review Committee? Yes No Not Applicable

Precautions, Conditions or Limitations on Approval

Disposal of TWW must be in accordance with the California Health and Safety Code (HSC) sections 24143.1.5, 25150.7 and 25150.8.

A Waste Shipment Record for each generating facility/location within the load must accompany each load to the landfill.

Special Waste Analyst Signature:

Date: 4/10/2018

Name (Printed): Suzanne Glass

III. Facility Decision:

Approved Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee:

Date: 4/10/2018

Name (Printed):

Chris Coyle



EXPRESS WASTE PROFILE

Requested Disposal Facility: 5123 Sunshine Canyon LF CA

Waste Profile #
5123 18 5694
Sales Rep #. 585 - Ed Antolin

Saveable fill in form. Restricted printing until all required (yellow) fields are completed.

I. Generator Information

Generator Name: Department of Transportation - Caltrans District 7			
Generator Site Address: 07-LA-10, 710 (Various)			
City: Various	County: Los Angeles	State: California	Zip: 90061
State ID/Reg No: n/a	State Approval/Waste Code: n/a (if applicable)		NAICS #: n/a
Generator Mailing Address (if different): 13230 Firestone Blvd			
City: Santa Fe Springs	County: Los Angeles	State: California	Zip: 90670
Generator Contact Name: Bernard Y. Alonzo		Email: bernard.y.alonzo@dot.ca.gov	
Phone Number: (562) 345-3145	Ext:	Fax Number:	

II. Billing Information

Bill To: Crosstown Electrical & Data, Inc.	Contact Name: Wendy Parker		
Billing Address: 5454 Diaz Street	Email: Wendy@Crosstowndata.com		
City: Irwindale	State: California	Zip: 91706	Phone: (626) 813-6693

III. Waste Stream Information

Name of Waste: <small>(Petroleum products-applies only to contaminated media and debris).</small>	<input type="checkbox"/> Diesel Fuel	<input checked="" type="checkbox"/> Weathered Wood	<input type="checkbox"/> Friable Asbestos
	<input type="checkbox"/> Home Heating Fuel #1-6	<input type="checkbox"/> RCRA Empty Containers	<input type="checkbox"/> Non Friable Asbestos
	<input type="checkbox"/> Kerosene	<input type="checkbox"/> Treated Medical Waste	<input type="checkbox"/> Cured Asphalt
	<input type="checkbox"/> Aviation Fuel	<input type="checkbox"/> Animal Carcass (non infectious)	<input type="checkbox"/> Tires
	<input type="checkbox"/> Hydraulic Fluid	<input type="checkbox"/> Plant Trash	<input type="checkbox"/> Food Products <small>(Including Animal Food)</small>
	<input type="checkbox"/> Unleaded Gasoline (UST Corrective Action)	<input type="checkbox"/> Meth Contaminated Debris	

Process Generating Waste: Removal of existing roadway (freeway) signs per project.  
ID No. 0714000246  
Contract No. 07-308604

Method of Shipment:  BULK  DRUM  BAGGED  OTHER: Wrapped in Visqueen Plastic

Estimated Annual Volume: 4,000 Pounds

Frequency:  ONE TIME  ONGOING *FOR CONTRACT 07-308604*

IV. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true and accurate description of the waste material being offered for disposal. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services, Inc.

Bernard Y. Alonzo - Resident Engineer Authorized Representative Name/Title (Type or Print)  Authorized Representative Signature	Caltrans District 7 (DOT) Company Name 04/09/18 Date
--	---



**THIRD PARTY SIGNATURE AUTHORIZATION  
for Special Waste Disposal**

Date: APRIL 09, 2018

This Authorization is only valid for ~~3 years~~  
from the above date. CONTRACT 07-308604

To Whom It May Concern:


Please be advised that the following company/individual has been appointed to work as our agent for purposes of managing waste materials that we may generate.

Name of Authorized Agent <b>Gilbert Rodarte</b>	Title <b>Project Manager</b>
Name of Company <b>Crosstown Electrical &amp; Data, Inc.</b>	Telephone Number <b>(626) 813 - 6693</b>

The above broker/individual is authorized to act as our authorized agent for the following purposes:

- Complete and sign Special Waste Profile.
- Complete and sign Special Waste Profile-Recertification.
- Authorize amendments to Special Waste Profile.
- Sign contracts to dispose and/or transport material.
- Sign certifications necessary to comply with landfill requirements.
- Sign manifests to initiate shipment to disposal facilities.

Our authorized agent will notify us prior to any action stated above, and will provide us with copies of any documents bearing our name.

Name of Company <b>DOT-Caltrans D7</b>	Mailing Address 13230 Firestone Blvd., Santa Fe Springs, CA 90670
Generator Contact (Print Name) <b>Bernard Y. Alonzo</b>	Title <b>Resident Engineer</b>
Signature 	Telephone Number <b>(562) 345 - 3145</b>



# Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123186344	Expiration Date 7/18/2018	
I. Decision Request:	<input checked="" type="checkbox"/> Initial	<input type="checkbox"/> Recertification	<input type="checkbox"/> Change
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: Times Produce Inc			
Generator Site Address: 130 S Myers Street			
City: Los Angeles	County:	State: CA	Zip:
Name of Waste: Food Wastes			
Estimated Annual Volume: 420 Pounds			

II. Special Waste Department Decision:  Approved  Rejected

Management Method(s):  Landfill  Solidification  Bioremediation  Transfer Facility

Problematic Special Waste according to Republic?  Yes  No

If yes, which one? \_\_\_\_\_

Approved by Special Waste Review Committee?  Yes  No  Not Applicable

### Precautions, Conditions or Limitations on Approval

FOOD WASTE: This waste must be buried immediately upon receipt at the landfill.

Special Waste Analyst Signature: Joseph M. Sorokach  
Date: 4/19/2018

Name (Printed): Joseph Sorokach

III. Facility Decision:  Approved  Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: [Signature]  
Date: 4/19/2018

Name (Printed): Chris Coyne



**EXPRESS WASTE PROFILE**

Requested Disposal Facility: 5123 Sunshine Canyon LF CA

Waste Profile #
<b>5123 18 6344</b>
Sales Rep #. <b>585 - Ed Antolin</b>

Saveable fill in form. Restricted printing until all required (yellow) fields are completed.

**I. Generator Information**

Generator Name: Times Produce Inc.			
Generator Site Address: 130 S. Myers Street			
City: Los Angeles	County: Los Angeles	State: California	Zip: 90033
State ID/Reg No:	State Approval/Waste Code:	(if applicable)	NAICS #.
Generator Mailing Address (if different): 130 S. Myers Street			
City: Los Angeles	County: Los Angeles	State: California	Zip: 90033
Generator Contact Name: Randy Sonoda		Email: randy@timesproduce.com	
Phone Number: (323) 261-6677	Ext:	Fax Number: (323) 261-6688	

**II. Billing Information**

Bill To: Times Produce Inc.	Contact Name: Randy		
Billing Address: 130 S. Myers Street	Email: randy@timesproduce.com		
City: Los Angeles	State: California	Zip: 90033	Phone: (323) 261-6677

**III. Waste Stream Information**

Name of Waste: <small>(Petroleum products-applies only to contaminated media and debris).</small>	<input type="checkbox"/> Diesel Fuel	<input type="checkbox"/> Weathered Wood	<input type="checkbox"/> Friable Asbestos
	<input type="checkbox"/> Home Heating Fuel #1-6	<input type="checkbox"/> RCRA Empty Containers	<input type="checkbox"/> Non Friable Asbestos
<input type="checkbox"/> Kerosene	<input type="checkbox"/> Treated Medical Waste	<input type="checkbox"/> Cured Asphalt	<input type="checkbox"/> Tires
<input type="checkbox"/> Aviation Fuel	<input type="checkbox"/> Animal Carcass (non infectious)	<input type="checkbox"/> Plant Trash	<input checked="" type="checkbox"/> Food Products <small>(Including Animal Food)</small>
<input type="checkbox"/> Hydraulic Fluid	<input type="checkbox"/> Meth Contaminated Debris		
<input type="checkbox"/> Unleaded Gasoline (UST Corrective Action)			
Process Generating Waste: 420 lb of produce (hawaiian yams) 14 units of 30lb			
Method of Shipment: <input type="checkbox"/> BULK <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> BAGGED <input type="checkbox"/> OTHER:			
Estimated Annual Volume: <u>420</u> Pounds			
Frequency: <input checked="" type="checkbox"/> ONE TIME <input type="checkbox"/> ONGOING			

**IV. Certification**

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true and accurate description of the waste material being offered for disposal. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services, Inc.

<u>Randy Sonoda</u> Authorized Representative Name/Title (Type or Print)	<u>President</u>	<u>Times produce Inc</u> Company Name
		<u>04/19/2018</u> Date
Authorized Representative Signature		



# Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

Waste Profile # 5123186800		Expiration Date 4/26/2021	
I. Decision Request:		<input checked="" type="checkbox"/> Initial <input type="checkbox"/> Recertification <input type="checkbox"/> Change	
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: RainField Marketing Group Inc			
Generator Site Address: 3305 Bandini Blvd			
City: Vernon	County: _____	State: CA	Zip: _____
Name of Waste: Food Products			
Estimated Annual Volume: 3000 Pounds			

II. Special Waste Department Decision:     Approved     Rejected

Management Method(s):     Landfill     Solidification     Bioremediation     Transfer Facility


Problematic Special Waste according to Republic?     Yes     No

If yes, which one? \_\_\_\_\_

Approved by Special Waste Review Committee?     Yes     No     Not Applicable

### Precautions, Conditions or Limitations on Approval

This waste must be able to pass a paint filter test prior to shipment and disposal.  
Free liquids are not permitted for landfill disposal.

Special Waste Analyst Signature:   
Date: 4/26/2018

Name (Printed): KEITH DIAMANTI

III. Facility Decision:     Approved     Rejected

### Precautions, Conditions or Limitations on Approval

\_\_\_\_\_

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee:   
Date: 4/26/2018

Name (Printed): Chris Coyle



Requested Disposal Facility: 5123 Sunshine Canyon LF CA

Saveable fill in form. Restricted printing until all required (yellow) fields are completed.

Waste Profile #
5123 18 6800
Sales Rep #. 585 - Ed Antolin

I. Generator Information

Generator Name: Rainfield Marketing Group, Inc.			
Generator Site Address: 3305 Bandini Blvd			
City: Vernon	County: Los Angeles	State: California	Zip: 90058
State ID/Reg No: 03975684	State Approval/Waste Code: (if applicable)		NAICS #.
Generator Mailing Address (if different):			
City:	County:	State: -- Select a State --	Zip:
Generator Contact Name: Richard Choe		Email:	
Phone Number: 2135506998	Ext:	Fax Number: 3233192884	

II. Billing Information

Bill To: Rainfield Marketing Group, Inc.	Contact Name: Richard Choe		
Billing Address: 3305 Bandini Blvd	Email: rmgproduce@gmail.com		
City: Vernon	State: CA	Zip: 90058	Phone: 2135506998

III. Waste Stream Information

Name of Waste: <small>(Petroleum products-applies only to contaminated media and debris).</small>	<input type="checkbox"/> Diesel Fuel	<input type="checkbox"/> Weathered Wood	<input type="checkbox"/> Friable Asbestos
	<input type="checkbox"/> Home Heating Fuel #1-6	<input type="checkbox"/> RCRA Empty Containers	<input type="checkbox"/> Non Friable Asbestos
<input type="checkbox"/> Kerosene	<input type="checkbox"/> Treated Medical Waste	<input type="checkbox"/> Cured Asphalt	<input type="checkbox"/> Tires
<input type="checkbox"/> Aviation Fuel	<input type="checkbox"/> Animal Carcass (non infectious)	<input type="checkbox"/> Plant Trash	<input checked="" type="checkbox"/> Food Products <small>(Including Animal Food)</small>
<input type="checkbox"/> Hydraulic Fluid	<input type="checkbox"/> Meth Contaminated Debris		
<input type="checkbox"/> Unleaded Gasoline (UST Corrective Action)			
Process Generating Waste: Dump Fruits and Vegetables Waste			
Method of Shipment: <input checked="" type="checkbox"/> BULK <input type="checkbox"/> DRUM <input type="checkbox"/> BAGGED <input type="checkbox"/> OTHER:			
Estimated Annual Volume: 3000 Pounds			
Frequency: <input type="checkbox"/> ONE TIME <input checked="" type="checkbox"/> ONGOING			

IV. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true and accurate description of the waste material being offered for disposal. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services, Inc.

Richard Choe / Officer	Rainfield Marketing Group, Inc
Authorized Representative Name/Title (Type or Print)	Company Name
	April 26, 2018
Authorized Representative Signature	Date





Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

Waste Profile # 5123188141

Expiration Date 5/18/2019

I. Decision Request:

[X] Initial [ ] Recertification [ ] Change

Disposal Facility: 5123 - Sunshine Canyon Landfill

Generator Name: City of San Gabriel

Generator Site Address: Del Mar Ave over Alhambra Wash

City: San Gabriel

County:

State: CA

Zip:

Name of Waste: Weathered Wood

Estimated Annual Volume: 17 Cubic Yards

II. Special Waste Department Decision: [X] Approved [ ] Rejected

Management Method(s): [X] Landfill [ ] Solidification [ ] Bioremediation [ ] Transfer Facility

Problematic Special Waste according to Republic? [ ] Yes [X] No

If yes, which one?

Approved by Special Waste Review Committee? [ ] Yes [ ] No [X] Not Applicable

Precautions, Conditions or Limitations on Approval

Disposal of TWW must be in accordance with the California Health and Safety Code (HSC) sections 24143.1.5, 25150.7 and 25150.8.

Special Waste Analyst Signature: [Handwritten Signature]

Date: 5/18/2018

Name (Printed): Holly Wilson

III. Facility Decision:

[X] Approved [ ] Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee:

Date: 5/18/2018

Name (Printed):

[Handwritten Signature: Chris Coyle]



Requested Disposal Facility: 5123 Sunshine Canyon LF CA

Saveable fill in form. Restricted printing until all required (yellow) fields are completed.

Waste Profile #
5123 18 8141
Sales Rep #. 585 - Ed Antolin

### I. Generator Information

Generator Name: City of San Gabriel			
Generator Site Address: Del Mar Ave over Alhambra Wash			
City: San Gabriel	County: Los Angeles	State: California	Zip: 91776
State ID/Reg No:	State Approval/Waste Code:	(if applicable)	NAICS #.
Generator Mailing Address (if different): PO Box 130			
City: San Gabriel	County: Los Angeles	State: California	Zip: 91776
Generator Contact Name: Algis Mariuska		Email:	
Phone Number: (626) 261-1995	Ext:	Fax Number:	

### II. Billing Information

Bill To: Shimmick Construction Co Inc	Contact Name: Chris Ponds		
Billing Address: 8201 Edgewater Drive #202	Email: cponds@shimmick.com		
City: Oakland	State: CA	Zip: 94621	Phone: (310) 261-7217

### III. Waste Stream Information

Name of Waste: <small>(Petroleum products-applies only to contaminated media and debris).</small>	<input type="checkbox"/> Diesel Fuel	<input checked="" type="checkbox"/> Weathered Wood	<input type="checkbox"/> Friable Asbestos
	<input type="checkbox"/> Home Heating Fuel #1-6	<input type="checkbox"/> RCRA Empty Containers	<input type="checkbox"/> Non Friable Asbestos
<input type="checkbox"/> Kerosene	<input type="checkbox"/> Treated Medical Waste	<input type="checkbox"/> Cured Asphalt	<input type="checkbox"/> Tires
<input type="checkbox"/> Aviation Fuel	<input type="checkbox"/> Animal Carcass (non infectious)	<input type="checkbox"/> Food Products <small>(Including Animal Food)</small>	
<input type="checkbox"/> Hydraulic Fluid	<input type="checkbox"/> Plant Trash		
<input type="checkbox"/> Unleaded Gasoline (UST Corrective Action)	<input type="checkbox"/> Meth Contaminated Debris		
Process Generating Waste: Treated Wood Waste from bridge abutment wing wall demolition at Del Mar Ave over Alhambra Wash			
Method of Shipment: <input type="checkbox"/> BULK <input type="checkbox"/> DRUM <input type="checkbox"/> BAGGED <input checked="" type="checkbox"/> OTHER: Super Ten Truck - Tarpred			
Estimated Annual Volume: 17 Cubic Yards			
Frequency: <input checked="" type="checkbox"/> ONE TIME <input type="checkbox"/> ONGOING			

### IV. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true and accurate description of the waste material being offered for disposal. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services, Inc.

Algis Mariuska - Director	City of San Gabriel
Authorized Representative Name/Title (Type or Print)	Company Name
	5/17/18
Authorized Representative Signature	Date



# Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

Waste Profile #  
5123188232

Expiration Date  
5/21/2019

### I. Decision Request:

Initial     Recertification     Change

Disposal Facility: 5123 - Sunshine Canyon Landfill

Generator Name: Southern California Edison Walnut Substation

Generator Site Address: 16333 Gale Avenue

City: City of Industry

County:

State: CA

Zip:

Name of Waste: Non Hazardous Soil

Estimated Annual Volume: 2 Cubic Yards

### II. Special Waste Department Decision:    Approved    Rejected

Management Method(s):     Landfill     Solidification     Bioremediation     Transfer Facility

Problematic Special Waste according to Republic?     Yes     No

If yes, which one? \_\_\_\_\_

Approved by Special Waste Review Committee?     Yes     No     Not Applicable

### Precautions, Conditions or Limitations on Approval

Special Waste Analyst Signature: *Holly M. Wilson*  
Date: 5/21/2018

Name (Printed): Holly Wilson

### III. Facility Decision:    Approved    Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: *Chris Coyle*  
Date: 5/21/2018

Name (Printed): Chris Coyle

Requested Disposal Facility: 5123 Sunshine Canyon LF CA

Waste Profile # 5123 18 8232
---------------------------------

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

Sales Rep #: 585 - Ed Antolin
-------------------------------

**I. Generator Information**

Generator Name: Southern California Edison- Walnut Substation			
Generator Site Address: 16333 Gale Avenue			
City: City of Industry	County: Los Angeles	State: California	Zip: 91745
State ID/Reg No: NA	State Approval/Waste Code: NA (if applicable)		NAICS #:
Generator Mailing Address (if different): <input checked="" type="checkbox"/> 2244 Walnut Grove Avenue			
City: Rosemead	County: Los Angeles	State: California	Zip: 91770
Generator Contact Name: Christine Parsons		Email: christine.parsons@sce.com	
Phone Number: (714) 614-6093	Ext:	Fax Number:	

**II. Billing Information**

Bill To: NRG Power, Inc.	Contact Name: Ken Pham		
Billing Address: 3011 S. Shannon St.	Email: ken@nrgpower.net		
City: Santa Ana	State: CA	Zip: 92704	Phone: (714) 424-6484

**III. Waste Stream Information**

Name of Waste: Non-hazardous soil	
Process Generating Waste: The soil was generated during construction activities at a substation. No PCBs or other contaminants were expected, but representative samples were collected and analyzed for PCBs, metals, and VOCs. All results were below hazardous waste disposal limits.	
Type of Waste:	<input checked="" type="checkbox"/> INDUSTRIAL PROCESS WASTE <input type="checkbox"/> POLLUTION CONTROL WASTE
Physical State:	<input checked="" type="checkbox"/> SOLID <input type="checkbox"/> SEMI-SOLID <input type="checkbox"/> POWDER <input type="checkbox"/> LIQUID
Method of Shipment:	<input checked="" type="checkbox"/> BULK <input type="checkbox"/> DRUM <input type="checkbox"/> BAGGED <input type="checkbox"/> OTHER:
Estimated Annual Volume:	2 Cubic Yards
Frequency:	<input checked="" type="checkbox"/> ONE TIME <input type="checkbox"/> ONGOING
Disposal Consideration:	<input checked="" type="checkbox"/> LANDFILL <input type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> BIOREMEDIATION

**IV. Representative Sample Certification**

NO SAMPLE TAKEN

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	<input checked="" type="checkbox"/> YES or <input type="checkbox"/> NO
Type of Sample:	<input type="checkbox"/> COMPOSITE SAMPLE <input checked="" type="checkbox"/> GRAB SAMPLE
Sample Date: 8/29/17	
Sample ID Numbers: HA7-0.5', HA7-2.0', HA8-0.5', HA8-2.0'	

Waste Profile #
5123 18 8232

**V. Physical Characteristics of Waste**

Characteristic Components		% by Weight (range)			
1. Soil		100			
2.					
3.					
4.					
5.					
Color	Odor (describe)	Does Waste Contain Free Liquids?	% Solids	pH:	Flash Point
Brown	None	<input type="checkbox"/> YES or <input checked="" type="checkbox"/> NO	100	NA	NA °F

**Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Chain of Custody and Required Parameters Provided for this Profile**

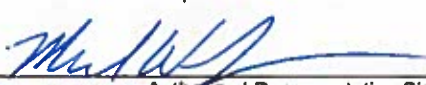
Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm)[reference 40 CFR 261.23(a)(5)]?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste a reactive or heat generating waste?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does the waste contain sulfur or sulfur by-products?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste generated at a Federal Superfund Clean Up Site?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste from a TSD facility, TSD like facility or consolidator?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No

**VI. Certification**

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services Inc.

<p>Michael Weinberger (Hazardous Waste Specialist)</p> <hr/> <p>Authorized Representative Name And Title (Type or Print)</p>  <hr/> <p>Authorized Representative Signature</p>	<p>Southern California Edison</p> <hr/> <p>Company Name</p> <p>5/18/18</p> <hr/> <p>Date</p>
--	---



## American Environmental Testing Laboratory Inc.

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### Ordered By

Southern California Edison Company  
1 Innovation Way  
Pomona, CA 91768-

Number of Pages 21  
Date Received 08/29/2017  
Date Reported 09/05/2017

Telephone: (909)274-1646  
Attention: Christine Brendle

Job Number	Order Date	Client
89157	08/29/2017	SCE

**Project ID:** IO# 337440  
**Project Name:** Walnut Sub. 220KV CB's  
**Site:** Walnut Substation  
16333 Gale Ave.  
City of Industry, CA 91745

Enclosed please find results of analyses of 12 soil and 5 concrete samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## CHAIN OF CUSTODY RECORD

### 102214

Page 1 of 2

SCE  
AETL JOB # 89157  
EPA 80103/7471A

COMPANY <b>Northgate for SCE</b>	PROJECT MANAGER <b>Christine Brendler / Joni Fisher / Northgate</b>	AETL JOB # <b>89157</b>
COMPANY ADDRESS <b>24411 Ridge Route Dr., Laguna Hills</b>	PHONE <b>(949) 310-6024</b>	ANALYSIS REQUESTED
PROJECT NAME <b>Walnut sub 220kV CBS</b>	PROJECT # IO# <b>337440</b> SAP# <b>900772538</b>	
SITE NAME AND ADDRESS <b>Walnut Substation 16333 Gale Ave., City of Industry</b>	PO #	TEST INSTRUCTIONS & COMMENTS <b>PaL for PCBs = 1.0 mg/kg Analyze for VOCs only If TPH detected, then only on sample with highest TPH.</b>

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	PCBS - EPA 8082	TPH - EPA 8015 B	Title 22 Metals / EPA 80103/7471A	VOCs - EPA 8260 B								
1 HA10-0.5'	89157.01	8/29/17	0640	Soil	1x8-02Jar	Ice	X	X	X									
2 HA10-2.0'	89157.02		0645				X	X	X									
3 HA10-5.0'	89157.03		0700															HOLD
4 HA11-0.5'	89157.04		0710				X	X	X									
5 HA11-2.0'	89157.05		0715				X	X	X									
6 HA11-5.0'	89157.06		0730															HOLD
7 HA12-0.5'	89157.07		0745				X	X	X									
8 HA12-2.0'	89157.08		0750				X	X	X									
9 HA12-5.0'	89157.09		0800															HOLD
10 HA13-0.5'	89157.10		0830				X	X	X									
11 HA13-2.0'	89157.11		0850				X	X	X									
12 HA13-5.0'	89157.12		0900															HOLD
13 HA8-0.5'	89157.13		0925				X	X	X									
14 HA8-2.0'	89157.14		0930				X	X	X									
15 HA8-5.0'	89157.15		0945															HOLD

<b>SAMPLE RECEIPT - TO BE FILLED BY LABORATORY</b>				<b>RELINQUISHED BY SAMPLER: 1.</b>		<b>RELINQUISHED BY: 2.</b>		<b>RELINQUISHED BY: 3.</b>	
TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED	Y N / NA	Signature:	<i>Leann</i>	Signature:	<i>[Signature]</i>	Signature:	<i>[Signature]</i>
CUSTODY SEALS	Y N / NA	SAMPLES INTACT	Y N / NA	Printed Name:	CEM KAMAH	Printed Name:		Printed Name:	Carlyle P
RECEIVED IN GOOD COND.	Y N	SAMPLES ACCEPTED	Y N	Date:	8/29/17	Date:		Date:	8/29/17
				Time:	1510	Time:		Time:	1759
<b>TURN AROUND TIME</b>				<b>RECEIVED BY: 1.</b>		<b>RECEIVED BY: 2.</b>		<b>RECEIVED BY LABORATORY: 3.</b>	
<input checked="" type="checkbox"/> NORMAL <input type="checkbox"/> RUSH <input type="checkbox"/> SAME DAY <input type="checkbox"/> HARD COPY <input type="checkbox"/> NEXT DAY <input type="checkbox"/> PDF <input type="checkbox"/> 2 DAYS <input type="checkbox"/> GEOTRACKER (GLOBAL ID) <input type="checkbox"/> 3 DAYS <input type="checkbox"/> OTHER (PLEASE SPECIFY) _____				Signature:	<i>[Signature]</i>	Signature:	<i>[Signature]</i>	Signature:	<i>[Signature]</i>
				Printed Name:		Printed Name:		Printed Name:	Andir
				Date:	8/29/17	Date:		Date:	8/29/17
				Time:	1510	Time:		Time:	1730



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## CHAIN OF CUSTODY RECORD 102213

COMPANY: Northgate for SCE PROJECT MANAGER: Christine Brendler / SCE  
 COMPANY ADDRESS: 24411 Ridge Route Dr, Laguna Hills PHONE: (949) 310-6024  
 PROJECT NAME: Walnut sub 220 kV CBS PROJECT # ID# 337440  
 SITE NAME AND ADDRESS: Walnut Substation 16333 Gale Ave, City of Industry SAP# 900772538

ANALYSIS REQUESTED: PCBs - EPA 8082, TPH - EPA 8015B, Title 22 Metals - EPA 8010B/7471A, VOCs - EPA 8260B

TEST INSTRUCTIONS & COMMENTS: PQL for PCBs = 1.0 mg/kg, Analyze for VOCs only, If TPH detected, then only on sample with highest TPH.

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	PCBs - EPA 8082	TPH - EPA 8015B	Title 22 Metals - EPA 8010B/7471A	VOCs - EPA 8260B
HA7-0.5'	89157.16	8/29/17	1020	Soil	1x802 Jar	Ice	X	X	X	
HA7-2.0'	89157.17		1025				X	X	X	
HA7-5.0'	89157.18		1045							
C1	89157.19		1230	Concrete	1x4-02 Jar		X			
C2	89157.20		1215				X			
C3	89157.21		1320				X			
C4	89157.22		1300				X			
C5	89157.23		1310				X			

89157

Page 2 of 2

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS: 8 PROPERLY COOLED: Y/N/NA  
 CUSTODY SEALS: Y/N/NA SAMPLES INTACT: Y/N/NA  
 RECEIVED IN GOOD COND.: Y/N SAMPLES ACCEPTED: Y/N

**TURN AROUND TIME**      **DATA DELIVERABLE REQUIRED**

NORMAL  RUSH  SAME DAY  HARD COPY  
 NEXT DAY  PDF  
 2 DAYS  GEOTRACKER (GLOBAL ID)  
 3 DAYS  OTHER (PLEASE SPECIFY)

5 DAY

**RELIQUISHED BY: 1.** Signature: CEM, Printed Name: CEM KAMALI, Date: 8/29/17, Time: 1510  
**RELIQUISHED BY: 2.** Signature: [Blank], Printed Name: [Blank], Date: [Blank], Time: [Blank]  
**RELIQUISHED BY: 3.** Signature: [Blank], Printed Name: [Blank], Date: [Blank], Time: [Blank]

**RECEIVED BY: 1.** Signature: [Blank], Printed Name: [Blank], Date: 8/29/17, Time: 1510  
**RECEIVED BY: 2.** Signature: [Blank], Printed Name: [Blank], Date: [Blank], Time: [Blank]  
**RECEIVED BY LABORATORY: 3.** Signature: AETL, Printed Name: AETL, Date: 8/29/17, Time: 1730

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator





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## COOLER RECEIPT FORM

Client Name: <u>Edison</u>			
Project Name:			
AETL Job Number: <u>89157</u>			
Date Received: <u>08/29/17</u>		Received by: <u>Antin</u>	
Carrier: <input checked="" type="checkbox"/> AETL Courier <input type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler ( / ) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <u>3-2</u> , No 2: _____, No 3: _____			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):			
How are samples preserved: <input type="checkbox"/> None, <input checked="" type="checkbox"/> Ice, <input type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice <input checked="" type="checkbox"/> None, <input type="checkbox"/> HNO <sub>3</sub> , <input type="checkbox"/> NaOH, <input type="checkbox"/> ZnOAc, <input type="checkbox"/> HCl, <input type="checkbox"/> Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , <input type="checkbox"/> MeOH <input type="checkbox"/> Other (Specify):			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	<u>Y</u>		
2. Are the Sample labels legible?	<u>Y</u>		
3. Do samples match the COC?	<u>Y</u>		
4. Are the required analyses clear?	<u>Y</u>		
5. Is there enough samples for required analysis?	<u>Y</u>		
6. Are samples sealed with evidence tape?		<u>Y</u>	
7. Are sample containers in good condition?	<u>Y</u>		
8. Are samples preserved?	<u>Y</u>		
9. Are samples preserved properly for the intended analysis?	<u>Y</u>		
10. Are the VOAs free of headspace?	<u>N/A</u>		
11. Are the jars free of headspace?	<u>↓</u>		

Explain all "No" answers for above questions:

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# American Environmental Testing Laboratory Inc.

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Page: 1 A

## Ordered By

Southern California Edison Company  
1 Innovation Way  
Pomona, CA 91768-

Project ID: IO# 337440  
Date Received 08/29/2017  
Date Reported 09/05/2017

Telephone: (909) 274-1646  
Attention: Christine Brendle

Job Number	Order Date	Client
89157	08/29/2017	SCE

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 23 samples with the following specification on 08/29/2017.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers	
89157.01	HA10-0.5'	08/29/2017	Soil	1	
89157.02	HA10-2.0'	08/29/2017	Soil	1	
89157.04	HA11-0.5'	08/29/2017	Soil	1	
89157.05	HA11-2.0'	08/29/2017	Soil	1	
89157.07	HA12-0.5'	08/29/2017	Soil	1	
89157.08	HA12-2.0'	08/29/2017	Soil	1	
89157.10	HA13-0.5'	08/29/2017	Soil	1	
89157.11	HA13-2.0'	08/29/2017	Soil	1	
89157.13	HA8-0.5'	08/29/2017	Soil	1	
89157.14	HA8-2.0'	08/29/2017	Soil	1	
89157.16	HA7-0.5'	08/29/2017	Soil	1	
89157.17	HA7-2.0'	08/29/2017	Soil	1	
	<b>Method ^ Submethod</b>	<b>Req Date</b>	<b>Priority</b>	<b>TAT</b>	<b>Units</b>
	(6010B/7000CAM) ^ SCE	09/05/2017	2	Normal	mg/Kg
	(8082) ^ SCE-1PPM	09/05/2017	2	Normal	mg/Kg
	(M8015D) ^ SCE-C13C40	09/05/2017	2	Normal	mg/Kg
	(M8015G) ^ SCE-C4-C12	09/05/2017	2	Normal	mg/Kg
89157.03	HA10-5.0'	08/29/2017	Soil	1	
89157.06	HA11-5.0'	08/29/2017	Soil	1	
89157.09	HA12-5.0'	08/29/2017	Soil	1	
89157.12	HA13-5.0'	08/29/2017	Soil	1	
89157.15	HA8-5.0'	08/29/2017	Soil	1	
89157.18	HA7-5.0'	08/29/2017	Soil	1	
	<b>Method ^ Submethod</b>	<b>Req Date</b>	<b>Priority</b>	<b>TAT</b>	<b>Units</b>
	ARCHIVE	09/05/2017	2	Normal	--
Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers	

Continued



# American Environmental Testing Laboratory Inc.

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Page: 1 B

### Ordered By

Southern California Edison Company  
1 Innovation Way  
Pomona, CA 91768-

Project ID: IO# 337440  
Date Received 08/29/2017  
Date Reported 09/05/2017

Telephone: (909) 274-1646  
Attention: Christine Brendle

Job Number	Order Date	Client
89157	08/29/2017	SCE

## CERTIFICATE OF ANALYSIS

### CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity	Of Containers
89157.19	C1	08/29/2017	Solid	1	1
89157.20	C2	08/29/2017	Solid	1	1
89157.21	C3	08/29/2017	Solid	1	1
89157.22	C4	08/29/2017	Solid	1	1
89157.23	C5	08/29/2017	Solid	1	1

Method	Submethod	Req Date	Priority	TAT	Units
(8082)	SCE-1PPM	09/05/2017	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Southern California Edison Company  
 1 Innovation Way  
 Pomona, CA 91768-

### Site

Walnut Substation  
 16333 Gale Ave.  
 City of Industry, CA 91745

Telephone: (909)274-1646

Attn: Christine Brendle

Page: 2

Project ID: IO# 337440

Project Name: Walnut Sub. 220KV CB's

AETL Job Number	Submitted	Client
89157	08/29/2017	SCE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 083017NB1

Our Lab I.D.		Method Blank	89157.01	89157.02	89157.04	89157.05
Client Sample I.D.			HA10-0.5'	HA10-2.0'	HA11-0.5'	HA11-2.0'
Date Sampled			08/29/2017	08/29/2017	08/29/2017	08/29/2017
Date Prepared		08/30/2017	08/30/2017	08/30/2017	08/30/2017	08/30/2017
Preparation Method		5030	5030	5030	5030	5030
Date Analyzed		08/30/2017	08/30/2017	08/30/2017	08/30/2017	08/30/2017
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
TPH as Gasoline and Light HC. (C4-C12)	10.0	10.0	ND	ND	ND	ND
Our Lab I.D.		Method Blank	89157.01	89157.02	89157.04	89157.05
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Bromofluorobenzene	75-125	104	102	98.2	100	102



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Project ID: IO# 337440

Project Name: Walnut Sub. 220KV CB's

AETL Job Number	Submitted	Client
89157	08/29/2017	SCE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 083017NB1

Our Lab I.D.		89157.07	89157.08	89157.10	89157.11	89157.13
Client Sample I.D.		HA12-0.5'	HA12-2.0'	HA13-0.5'	HA13-2.0'	HA8-0.5'
Date Sampled		08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Date Prepared		08/30/2017	08/30/2017	08/30/2017	08/30/2017	08/30/2017
Preparation Method		5030	5030	5030	5030	5030
Date Analyzed		08/30/2017	08/30/2017	08/30/2017	08/30/2017	08/30/2017
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
TPH as Gasoline and Light HC. (C4-C12)	10.0	10.0	ND	ND	ND	ND
Our Lab I.D.		89157.07	89157.08	89157.10	89157.11	89157.13
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Bromofluorobenzene	75-125	108	100	103	99.6	103



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Project ID: IO# 337440

Project Name: Walnut Sub. 220KV CB's

AETL Job Number	Submitted	Client
89157	08/29/2017	SCE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 083017NB1

Our Lab I.D.		89157.14	89157.16	89157.17		
Client Sample I.D.		HA8-2.0'	HA7-0.5'	HA7-2.0'		
Date Sampled		08/29/2017	08/29/2017	08/29/2017		
Date Prepared		08/30/2017	08/30/2017	08/30/2017		
Preparation Method		5030	5030	5030		
Date Analyzed		08/31/2017	08/31/2017	08/31/2017		
Matrix		Soil	Soil	Soil		
Units		mg/Kg	mg/Kg	mg/Kg		
Dilution Factor		1	1	1		
Analytes	MDL	PQL	Results	Results	Results	
TPH as Gasoline and Light HC. (C4-C12)	10.0	10.0	ND	ND	ND	
Our Lab I.D.		89157.14	89157.16	89157.17		
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.		
Bromofluorobenzene	75-125	100	109	108		



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Project ID: IO# 337440

Project Name: Walnut Sub. 220KV CB's

AETL Job Number	Submitted	Client
89157	08/29/2017	SCE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 090117DB1

Our Lab I.D.		Method Blank	89157.01	89157.02	89157.04	89157.05	
Client Sample I.D.			HA10-0.5'	HA10-2.0'	HA11-0.5'	HA11-2.0'	
Date Sampled			08/29/2017	08/29/2017	08/29/2017	08/29/2017	
Date Prepared		09/01/2017	09/01/2017	09/01/2017	09/01/2017	09/01/2017	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		09/01/2017	09/01/2017	09/01/2017	09/01/2017	09/01/2017	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
TPH as Diesel (C13-C22)	10.0	10.0	ND	ND	ND	ND	ND
TPH as Heavy Hydrocarbons (C23-C40)	100	100	ND	ND	ND	ND	ND
TPH Total as Diesel and Heavy HC.C13-C40	100	100	ND	ND	ND	ND	ND
Our Lab I.D.		Method Blank	89157.01	89157.02	89157.04	89157.05	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
Chlorobenzene	75-125	98.3	97.1	98.8	99.5	101	



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Project ID: IO# 337440

Project Name: Walnut Sub. 220KV CB's

AETL Job Number	Submitted	Client
89157	08/29/2017	SCE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 090117DB1

Our Lab I.D.			89157.07	89157.08	89157.10	89157.11	89157.13
Client Sample I.D.			HA12-0.5'	HA12-2.0'	HA13-0.5'	HA13-2.0'	HA8-0.5'
Date Sampled			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Date Prepared			09/01/2017	09/01/2017	09/01/2017	09/01/2017	09/01/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			09/02/2017	09/02/2017	09/02/2017	09/02/2017	09/02/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
TPH as Diesel (C13-C22)	10.0	10.0	ND	ND	ND	ND	253
TPH as Heavy Hydrocarbons (C23-C40)	100	100	ND	ND	ND	ND	104
TPH Total as Diesel and Heavy HC.C13-C40	100	100	ND	ND	ND	ND	357
Our Lab I.D.			89157.07	89157.08	89157.10	89157.11	89157.13
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Chlorobenzene	75-125		117	102	101	99.4	102





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Project ID: IO# 337440

Project Name: Walnut Sub. 220KV CB's

AETL Job Number	Submitted	Client
89157	08/29/2017	SCE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 090117DB1

Our Lab I.D.			89157.14	89157.16	89157.17		
Client Sample I.D.			HA8-2.0'	HA7-0.5'	HA7-2.0'		
Date Sampled			08/29/2017	08/29/2017	08/29/2017		
Date Prepared			09/01/2017	09/01/2017	09/01/2017		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			09/02/2017	09/02/2017	09/02/2017		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
TPH as Diesel (C13-C22)	10.0	10.0	ND	139	ND		
TPH as Heavy Hydrocarbons (C23-C40)	100	100	ND	ND	ND		
TPH Total as Diesel and Heavy HC.C13-C40	100	100	ND	154	ND		
Our Lab I.D.			89157.14	89157.16	89157.17		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
Chlorobenzene	75-125		99.8	103	98.2		



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Page: 8

Project ID: IO# 337440

Project Name: Walnut Sub. 220KV CB's

AETL Job Number	Submitted	Client
89157	08/29/2017	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 083017-3

Our Lab I.D.		Method Blank	89157.01	89157.02	89157.04	89157.05	
Client Sample I.D.			HA10-0.5'	HA10-2.0'	HA11-0.5'	HA11-2.0'	
Date Sampled			08/29/2017	08/29/2017	08/29/2017	08/29/2017	
Date Prepared		08/30/2017	08/30/2017	08/30/2017	08/30/2017	08/30/2017	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		08/31/2017	08/31/2017	08/31/2017	08/31/2017	08/31/2017	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Aroclor-1016 (PCB-1016)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	1.0	1.0	ND	ND	ND	ND	ND
Our Lab I.D.		Method Blank	89157.01	89157.02	89157.04	89157.05	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		116	120	103	107	122
Tetrachloro-m-xylene	30-150		90.3	89.4	84.6	80.6	87.8



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Project ID: IO# 337440

Project Name: Walnut Sub. 220KV CB's

AETL Job Number	Submitted	Client
89157	08/29/2017	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 083017-3

Our Lab I.D.			89157.07	89157.08	89157.10	89157.11	89157.13
Client Sample I.D.			HA12-0.5'	HA12-2.0'	HA13-0.5'	HA13-2.0'	HA8-0.5'
Date Sampled			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Date Prepared			08/30/2017	08/30/2017	08/30/2017	08/30/2017	08/30/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			08/31/2017	08/31/2017	08/31/2017	08/31/2017	08/31/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Aroclor-1016 (PCB-1016)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	1.0	1.0	ND	ND	ND	ND	ND
Our Lab I.D.			89157.07	89157.08	89157.10	89157.11	89157.13
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		121	86.9	125	111	120
Tetrachloro-m-xylene	30-150		94.0	63.0	113	93.4	120



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Project ID: IO# 337440

Project Name: Walnut Sub. 220KV CB's

AETL Job Number	Submitted	Client
89157	08/29/2017	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 083017-3

Our Lab I.D.			89157.14	89157.16	89157.17		
Client Sample I.D.			HA8-2.0'	HA7-0.5'	HA7-2.0'		
Date Sampled			08/29/2017	08/29/2017	08/29/2017		
Date Prepared			08/30/2017	08/30/2017	08/30/2017		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			08/31/2017	09/01/2017	09/01/2017		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
Aroclor-1016 (PCB-1016)	1.0	1.0	ND	ND	ND		
Aroclor-1221 (PCB-1221)	1.0	1.0	ND	ND	ND		
Aroclor-1232 (PCB-1232)	1.0	1.0	ND	ND	ND		
Aroclor-1242 (PCB-1242)	1.0	1.0	ND	ND	ND		
Aroclor-1248 (PCB-1248)	1.0	1.0	ND	ND	ND		
Aroclor-1254 (PCB-1254)	1.0	1.0	ND	ND	ND		
Aroclor-1260 (PCB-1260)	1.0	1.0	ND	ND	ND		
Aroclor-1262 (PCB-1262)	1.0	1.0	ND	ND	ND		
Aroclor-1268 (PCB-1268)	1.0	1.0	ND	ND	ND		
Our Lab I.D.			89157.14	89157.16	89157.17		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
Decachlorobiphenyl	30-150		110	144	117		
Tetrachloro-m-xylene	30-150		97.6	137	94.0		



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Project ID: IO# 337440

Project Name: Walnut Sub. 220KV CB's

AETL Job Number	Submitted	Client
89157	08/29/2017	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 083017-3C

Our Lab I.D.		Method Blank	89157.19	89157.20	89157.21	89157.22	
Client Sample I.D.			C1	C2	C3	C4	
Date Sampled			08/29/2017	08/29/2017	08/29/2017	08/29/2017	
Date Prepared		08/30/2017	08/30/2017	08/30/2017	08/30/2017	08/30/2017	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		08/31/2017	09/01/2017	09/01/2017	09/01/2017	09/01/2017	
Matrix		Solid	Solid	Solid	Solid	Solid	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Aroclor-1016 (PCB-1016)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	1.0	1.0	ND	ND	ND	ND	ND
Our Lab I.D.		Method Blank	89157.19	89157.20	89157.21	89157.22	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
Decachlorobiphenyl	30-150		116	120	122	118	121
Tetrachloro-m-xylene	30-150		90.3	126	124	116	128



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Project ID: IO# 337440

Project Name: Walnut Sub. 220KV CB's

AETL Job Number	Submitted	Client
89157	08/29/2017	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 083017-3C

<b>Our Lab I.D.</b>			<b>89157.23</b>			
Client Sample I.D.			C5			
Date Sampled			08/29/2017			
Date Prepared			08/30/2017			
Preparation Method			3550B			
Date Analyzed			09/01/2017			
Matrix			Solid			
Units			mg/Kg			
Dilution Factor			1			
<b>Analytes</b>	<b>MDL</b>	<b>PQL</b>	<b>Results</b>			
Aroclor-1016 (PCB-1016)	1.0	1.0	ND			
Aroclor-1221 (PCB-1221)	1.0	1.0	ND			
Aroclor-1232 (PCB-1232)	1.0	1.0	ND			
Aroclor-1242 (PCB-1242)	1.0	1.0	ND			
Aroclor-1248 (PCB-1248)	1.0	1.0	ND			
Aroclor-1254 (PCB-1254)	1.0	1.0	ND			
Aroclor-1260 (PCB-1260)	1.0	1.0	ND			
Aroclor-1262 (PCB-1262)	1.0	1.0	ND			
Aroclor-1268 (PCB-1268)	1.0	1.0	ND			
<b>Our Lab I.D.</b>			<b>89157.23</b>			
<b>Surrogates</b>	<b>%Rec.Limit</b>		<b>% Rec.</b>			
Decachlorobiphenyl	30-150		125			
Tetrachloro-m-xylene	30-150		119			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Edison Company  
 1 Innovation Way  
 Pomona, CA 91768-

### Site

Walnut Substation  
 16333 Gale Ave.  
 City of Industry, CA 91745

Telephone: (909)274-1646

Attn: Christine Brendle

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Project ID: IO# 337440

Project Name: Walnut Sub. 220KV CB's

AETL Job Number	Submitted	Client
89157	08/29/2017	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0830172C3

Our Lab I.D.		Method Blank	89157.01	89157.02	89157.04	89157.05	
Client Sample I.D.			HA10-0.5'	HA10-2.0'	HA11-0.5'	HA11-2.0'	
Date Sampled			08/29/2017	08/29/2017	08/29/2017	08/29/2017	
Date Prepared		08/30/2017	08/30/2017	08/30/2017	08/30/2017	08/30/2017	
Preparation Method		3050B	3050B	3050B	3050B	3050B	
Date Analyzed		08/31/2017	08/31/2017	08/31/2017	08/31/2017	08/31/2017	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Antimony	5.0	5.0	ND	ND	ND	ND	ND
Arsenic	2.5	2.5	ND	ND	ND	ND	ND
Barium	5.0	5.0	ND	103	106	113	106
Beryllium	2.5	2.5	ND	ND	ND	ND	ND
Cadmium	2.5	2.5	ND	ND	ND	ND	ND
Chromium	5.0	5.0	ND	17.9	17.9	19.2	18.9
Cobalt	5.0	5.0	ND	7.45	7.95	7.96	8.18
Copper	5.0	5.0	ND	21.8	22.1	22.0	22.3
Lead	5.0	5.0	ND	ND	ND	ND	ND
Mercury (By EPA 7471)	0.2	0.2	ND	ND	ND	ND	ND
Molybdenum	5.0	5.0	ND	ND	ND	ND	ND
Nickel	5.0	5.0	ND	14.4	14.7	15.9	15.1
Selenium	5.0	5.0	ND	ND	ND	ND	ND
Silver	5.0	5.0	ND	ND	ND	ND	ND
Thallium	5.0	5.0	ND	ND	ND	ND	ND
Vanadium	5.0	5.0	ND	33.1	33.3	34.6	33.8
Zinc	5.0	5.0	ND	38.6	39.2	42.0	40.6



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## ANALYTICAL RESULTS

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Project ID: IO# 337440

Project Name: Walnut Sub. 220KV CB's

AETL Job Number	Submitted	Client
89157	08/29/2017	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0830172C3

Our Lab I.D.			89157.07	89157.08	89157.10	89157.11	89157.13
Client Sample I.D.			HA12-0.5'	HA12-2.0'	HA13-0.5'	HA13-2.0'	HA8-0.5'
Date Sampled			08/29/2017	08/29/2017	08/29/2017	08/29/2017	08/29/2017
Date Prepared			08/30/2017	08/30/2017	08/30/2017	08/30/2017	08/30/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			08/31/2017	08/31/2017	08/31/2017	08/31/2017	08/31/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Antimony	5.0	5.0	ND	ND	ND	ND	ND
Arsenic	2.5	2.5	3.03	3.29	ND	ND	ND
Barium	5.0	5.0	116	110	108	128	138
Beryllium	2.5	2.5	ND	ND	ND	ND	ND
Cadmium	2.5	2.5	ND	ND	ND	ND	ND
Chromium	5.0	5.0	19.7	18.3	19.1	22.3	18.5
Cobalt	5.0	5.0	8.43	7.79	7.68	8.42	8.28
Copper	5.0	5.0	23.5	22.9	23.5	23.0	22.4
Lead	5.0	5.0	ND	ND	ND	ND	5.04
Mercury (By EPA 7471)	0.2	0.2	ND	ND	ND	ND	ND
Molybdenum	5.0	5.0	ND	ND	ND	ND	ND
Nickel	5.0	5.0	15.2	14.7	14.7	16.9	15.0
Selenium	5.0	5.0	ND	ND	ND	ND	ND
Silver	5.0	5.0	ND	ND	ND	ND	ND
Thallium	5.0	5.0	ND	ND	ND	ND	ND
Vanadium	5.0	5.0	36.8	35.3	34.0	39.3	34.0
Zinc	5.0	5.0	40.0	40.9	47.4	45.7	52.7





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## ANALYTICAL RESULTS

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Telephone: (909)274-1646

Attn: Christine Brendle

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Project ID: IO# 337440

Project Name: Walnut Sub. 220KV CB's

AETL Job Number	Submitted	Client
89157	08/29/2017	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0830172C3

Our Lab I.D.			89157.14	89157.16	89157.17		
Client Sample I.D.			HA8-2.0'	HA7-0.5'	HA7-2.0'		
Date Sampled			08/29/2017	08/29/2017	08/29/2017		
Date Prepared			08/30/2017	08/30/2017	08/30/2017		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			08/31/2017	08/31/2017	08/31/2017		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
Antimony	5.0	5.0	ND	ND	ND		
Arsenic	2.5	2.5	ND	ND	ND		
Barium	5.0	5.0	129	117	114		
Beryllium	2.5	2.5	ND	ND	ND		
Cadmium	2.5	2.5	ND	ND	ND		
Chromium	5.0	5.0	16.8	16.9	15.5		
Cobalt	5.0	5.0	8.00	6.87	7.81		
Copper	5.0	5.0	20.5	22.5	19.2		
Lead	5.0	5.0	ND	5.28	ND		
Mercury (By EPA 7471)	0.2	0.2	ND	ND	ND		
Molybdenum	5.0	5.0	ND	ND	ND		
Nickel	5.0	5.0	14.0	12.2	12.5		
Selenium	5.0	5.0	ND	ND	ND		
Silver	5.0	5.0	ND	ND	ND		
Thallium	5.0	5.0	ND	ND	ND		
Vanadium	5.0	5.0	31.8	31.0	29.6		
Zinc	5.0	5.0	39.2	54.0	36.6		



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Project ID: IO# 337440

Project Name: Walnut Sub. 220KV CB's

AETL Job Number	Submitted	Client
89157	08/29/2017	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0830172C3; Dup or Spiked Sample: 89157.01; LCS: Clean Sand; QC Prepared: 08/30/2017; QC Analyzed: 08/31/2017;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	51.5	103	50.0	50.5	101	2.0	75-125	<15
Arsenic	0.00	50.0	51.0	102	50.0	50.5	101	<1	75-125	<15
Barium	103	50.0	153	100	50.0	152	98.0	2.0	75-125	<15
Beryllium	0.00	50.0	55.5	111	50.0	55.5	111	<1	75-125	<15
Cadmium	0.00	50.0	52.0	104	50.0	51.5	103	<1	75-125	<15
Chromium	17.9	50.0	67.9	100	50.0	67.6	99.4	<1	75-125	<15
Cobalt	7.45	50.0	56.4	97.9	50.0	56.1	97.3	<1	75-125	<15
Copper	21.8	50.0	76.8	110	50.0	76.3	109	<1	75-125	<15
Lead	0.00	50.0	47.0	94.0	50.0	46.8	93.6	<1	75-125	<15
Mercury (By EPA 7471)	0.00	0.500	0.369M	73.8	0.500	0.393	78.6	6.3	75-125	<15
Molybdenum	0.00	50.0	49.8	99.6	50.0	49.5	99.0	<1	75-125	<15
Nickel	14.4	50.0	61.7	94.6	50.0	61.3	93.8	<1	75-125	<15
Selenium	0.00	50.0	42.9	85.8	50.0	40.6	81.2	5.5	75-125	<15
Silver	0.00	50.0	49.4	98.8	50.0	49.3	98.6	<1	75-125	<15
Thallium	0.00	50.0	41.7	83.4	50.0	41.3	82.6	<1	75-125	<15
Vanadium	33.1	50.0	83.6	101	50.0	83.6	101	<1	75-125	<15
Zinc	38.6	50.0	85.1	93.0	50.0	84.6	92.0	1.1	75-125	<15

QC Batch No: 0830172C3; Dup or Spiked Sample: 89157.01; LCS: Clean Sand; QC Prepared: 08/30/2017; QC Analyzed: 08/31/2017;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Antimony	50.0	52.0	104	50.0	52.5	105	<1	75-125	<15
Arsenic	50.0	52.0	104	50.0	52.5	105	<1	75-125	<15
Barium	50.0	53.5	107	50.0	52.5	105	1.9	75-125	<15
Beryllium	50.0	57.5	115	50.0	57.0	114	<1	75-125	<15
Cadmium	50.0	54.5	109	50.0	53.5	107	1.9	75-125	<15
Chromium	50.0	53.5	107	50.0	53.5	107	<1	75-125	<15
Cobalt	50.0	53.5	107	50.0	52.5	105	1.9	75-125	<15
Copper	50.0	54.5	109	50.0	52.5	105	3.7	75-125	<15
Lead	50.0	51.0	102	50.0	51.0	102	<1	75-125	<15



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## QUALITY CONTROL RESULTS

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Project ID: IO# 337440  
Project Name: Walnut Sub. 220KV CB's

AETL Job Number	Submitted	Client
89157	08/29/2017	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0830172C3; Dup or Spiked Sample: 89157.01; LCS: Clean Sand; QC Prepared: 08/30/2017; QC Analyzed: 08/31/2017;  
Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.425	84.9	0.500	0.429	85.7	<1	75-125	<15	
Molybdenum	50.0	51.0	102	50.0	51.5	103	<1	75-125	<15	
Nickel	50.0	52.0	104	50.0	51.5	103	<1	75-125	<15	
Selenium	50.0	53.0	106	50.0	53.5	107	<1	75-125	<15	
Silver	50.0	54.0	108	50.0	53.0	106	1.9	75-125	<15	
Thallium	50.0	53.5	107	50.0	53.5	107	<1	75-125	<15	
Vanadium	50.0	53.5	107	50.0	52.5	105	1.9	75-125	<15	
Zinc	50.0	55.0	110	50.0	55.5	111	<1	75-125	<15	



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## QUALITY CONTROL RESULTS

### Ordered By

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### Site

Walnut Substation  
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Telephone: (909)274-1646

Attn: Christine Brendle

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Project ID: IO# 337440

Project Name: Walnut Sub. 220KV CB's

AETL Job Number	Submitted	Client
89157	08/29/2017	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 083017-3; Dup or Spiked Sample: 89157.21; LCS: Clean Sand; QC Prepared: 08/30/2017; QC Analyzed: 08/31/2017;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	0.500	0.402	80.4	0.500	0.471	94.2	15.8	50-150	<20
Aroclor-1260 (PCB-1260)	0.00	0.500	0.635	127	0.500	0.700	140	9.7	50-150	<20
<b>Surrogates</b>										
Decachlorobiphenyl	0.00	0.0500	0.0630	126	0.0500	0.0570	114	10.0	30-150	<20
Tetrachloro-m-xylene	0.00	0.0500	0.0570	114	0.0500	0.0580	116	1.7	30-150	<20

QC Batch No: 083017-3; Dup or Spiked Sample: 89157.21; LCS: Clean Sand; QC Prepared: 08/30/2017; QC Analyzed: 08/31/2017;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Aroclor-1016 (PCB-1016)	0.500	0.580	116	0.500	0.615	123	5.9	50-150	<20
Aroclor-1260 (PCB-1260)	0.500	0.675	135	0.500	0.525	105	25.0	50-150	<20
<b>Surrogates</b>									
Decachlorobiphenyl	0.0500	0.0540	108	0.0500	0.0570	114	5.4	30-150	<20
Tetrachloro-m-xylene	0.0500	0.0590	118	0.0500	0.0640	128	8.1	30-150	<20



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## QUALITY CONTROL RESULTS

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Project ID: IO# 337440

Project Name: Walnut Sub. 220KV CB's

AETL Job Number	Submitted	Client
89157	08/29/2017	SCE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 090117DB1; Dup or Spiked Sample: 89157.07; LCS: Clean Sand; QC Prepared: 09/01/2017; MS Analyzed: 09/02/2017;  
 LCS Analyzed: 09/01/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	510	102	500	530	106	3.8	75-125	<20
<b>Surrogates</b>										
Chlorobenzene	0.00	100	98.7	98.7	100	104	104	5.2	75-125	<20

QC Batch No: 090117DB1; Dup or Spiked Sample: 89157.07; LCS: Clean Sand; QC Prepared: 09/01/2017; MS Analyzed: 09/02/2017;  
 LCS Analyzed: 09/01/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
TPH as Diesel (C13-C22)	500	525	105	500	545	109	3.7	75-125	<20
<b>Surrogates</b>									
Chlorobenzene	100	99.7	99.7	100	102	102	2.3	75-125	<20



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## QUALITY CONTROL RESULTS

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Project ID: IO# 337440

Project Name: Walnut Sub. 220KV CB's

AETL Job Number	Submitted	Client
89157	08/29/2017	SCE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 083017NB1; Dup or Spiked Sample: 89157.01AGA; LCS: Clean Sand; QC Prepared: 08/30/2017; MS Analyzed: 08/31/2017;  
 LCS Analyzed: 08/30/2017; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	0.00	1.00	0.790	79.3	1.00	0.790	79.4	<1	75-125	<20
<b>Surrogates</b>										
Bromofluorobenzene	0.00	0.0500	0.0526	105	0.0500	0.0510	102	2.86	75-125	<20

QC Batch No: 083017NB1; Dup or Spiked Sample: 89157.01AGA; LCS: Clean Sand; QC Prepared: 08/30/2017; MS Analyzed: 08/31/2017;  
 LCS Analyzed: 08/30/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.840	84.3	1.00	0.790	79.1	6.36	75-125	<20
<b>Surrogates</b>									
Bromofluorobenzene	0.0500	0.0512	102	0.0500	0.0506	101	<1	75-125	<20



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Project ID: IO# 337440

Project Name: Walnut Sub. 220KV CB's

AETL Job Number	Submitted	Client
89157	08/29/2017	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 083017-3C; Dup or Spiked Sample: 89157.21; LCS: Blank; QC Prepared: 08/30/2017; QC Analyzed: 08/31/2017;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	0.500	0.402	80.4	0.500	0.471	94.2	15.8	50-150	<20
Aroclor-1260 (PCB-1260)	0.00	0.500	0.635	127	0.500	0.700	140	9.7	50-150	<20
<b>Surrogates</b>										
Decachlorobiphenyl	0.00	0.0500	0.0630	126	0.0500	0.0570	114	10.0	30-150	<20
Tetrachloro-m-xylene	0.00	0.0500	0.0570	114	0.0500	0.0580	116	1.7	30-150	<20

QC Batch No: 083017-3C; Dup or Spiked Sample: 89157.21; LCS: Blank; QC Prepared: 08/30/2017; QC Analyzed: 08/31/2017;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Aroclor-1016 (PCB-1016)	0.500	0.580	116	0.500	0.615	123	5.9	50-150	<20
Aroclor-1260 (PCB-1260)	0.500	0.675	135	0.500	0.525	105	25.0	50-150	<20
<b>Surrogates</b>									
Decachlorobiphenyl	0.0500	0.0540	108	0.0500	0.0570	114	5.4	30-150	<20
Tetrachloro-m-xylene	0.0500	0.0590	118	0.0500	0.0640	128	8.1	30-150	<20



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### Data Qualifiers and Descriptors

#### **Data Qualifier:**

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### **Definition:**

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.





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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above PQL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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### Ordered By

Southern California Edison Company  
1 Innovation Way  
Pomona, CA 91768-

Number of Pages 5  
Date Received 08/29/2017  
Date Reported 09/06/2017

Telephone: (909)274-1646  
Attention: Christine Brendle

Job Number	Order Date	Client
89157	08/29/2017	SCE

**Project ID:** IO# 337440  
**Project Name:** Walnut Sub. 220KV CB's  
**Site:** Walnut Substation  
16333 Gale Ave.  
City of Industry, CA 91745

Enclosed please find results of analyses of 1 soil sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## CHAIN OF CUSTODY RECORD

102214

Page 1 of 2

COMPANY Northgate for SCE PROJECT MANAGER Christine Brendler / SCE AETL JOB # 89157  
 COMPANY ADDRESS 24411 Ridge Route Dr., Lagunal Hills PHONE (949) 310-6024  
 PROJECT NAME Walnut sub 220kV CBS PROJECT # IO# 337440 SAP# 900772538  
 SITE NAME AND ADDRESS Walnut Substation PO # \_\_\_\_\_  
16333 Gale Ave., City of Industry

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED				TEST INSTRUCTIONS & COMMENTS		
							PCBS - EPA 8082	TPH - EPA 8015B	Trace 22 Metals / EPA 80109/7471A	VOCs - EPA 8260 B			
1	HA10-0.5'	89157.01	8/29/17	0640	Soil	1x8-02Jar	Ice	X	X	X			PAL for PCBs = 1.0 mg/kg Analyze for VOCs only If TPH detected, then only on sample with highest TPH.
2	HA10-2.0'	89157.02		0645				X	X	X			
3	HA10-5.0'	89157.03		0700								HOLD	
4	HA11-0.5'	89157.04		0710				X	X	X			
5	HA11-2.0'	89157.05		0715				X	X	X			
6	HA11-5.0'	89157.06		0730								HOLD	
7	HA12-0.5'	89157.07		0745				X	X	X			
8	HA12-2.0'	89157.08		0750				X	X	X			
9	HA12-5.0'	89157.09		0800								HOLD	
10	HA13-0.5'	89157.10		0830				X	X	X			
11	HA13-2.0'	89157.11		0850				X	X	X			
12	HA13-5.0'	89157.12		0900								HOLD	
13	HAB-0.5'	89157.13		0925				X	X	X			
14	HAB-2.0'	89157.14		0930				X	X	X			
15	HAB-5.0'	89157.15		0945								HOLD	

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS	<u>15</u>	PROPERLY COOLED	<u>Y</u> / N / NA
CUSTODY SEALS	<u>Y</u> / N / NA	SAMPLES INTACT	<u>Y</u> / N / NA
RECEIVED IN GOOD COND.	<u>Y</u> / N	SAMPLES ACCEPTED	<u>Y</u> / N

**TURN AROUND TIME**  
 NORMAL  RUSH  
 SAME DAY  NEXT DAY  
 2 DAYS  3 DAYS  
5 DAY

**DATA DELIVERABLE REQUIRED**  
 HARD COPY  
 PDF  
 GEOTRACKER (GLOBAL ID)  
 OTHER (PLEASE SPECIFY) \_\_\_\_\_

**RELINQUISHED BY SAMPLER:** 1. Signature: CEM KAMAH Date: 8/29/17 Time: 1510

**RELINQUISHED BY:** 2. Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

**RELINQUISHED BY:** 3. Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

**RECEIVED BY:** 1. Signature: \_\_\_\_\_ Date: 8/29/17 Time: 1510

**RECEIVED BY:** 2. Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

**RECEIVED BY LABORATORY:** 3. Signature: AETL Date: 8/29/17 Time: 1730

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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## COOLER RECEIPT FORM

Client Name: <u>Edison</u>			
Project Name:			
AETL Job Number: <u>89157</u>			
Date Received: <u>08/29/17</u>		Received by: <u>Antin</u>	
Carrier: <input checked="" type="checkbox"/> AETL Courier <input type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler ( / ) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <u>3.2</u> , No 2: _____, No 3: _____			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):			
How are samples preserved: <input type="checkbox"/> None, <input checked="" type="checkbox"/> Ice, <input type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<input checked="" type="checkbox"/> None, <u>HNO<sub>3</sub></u> , <u>NaOH</u> , <u>ZnOAc</u> , <u>HCl</u> , <u>Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub></u> , <u>MeOH</u>			
Other (Specify):			
	<b>Yes</b>	<b>No, explain below</b>	<b>Name, if client was notified.</b>
1. Are the COCs Correct?	<u>Y</u>		
2. Are the Sample labels legible?	<u>Y</u>		
3. Do samples match the COC?	<u>Y</u>		
4. Are the required analyses clear?	<u>Y</u>		
5. Is there enough samples for required analysis?	<u>Y</u>		
6. Are samples sealed with evidence tape?		<u>Y</u>	
7. Are sample containers in good condition?	<u>Y</u>		
8. Are samples preserved?	<u>Y</u>		
9. Are samples preserved properly for the intended analysis?	<u>Y</u>		
10. Are the VOAs free of headspace?	<u>N/A</u>		
11. Are the jars free of headspace?	<u>↓</u>		

Explain all "No" answers for above questions:

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## Cyrus Razmara

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**From:** Cem Kamali [cem.kamali@ngem.com]  
**Sent:** Wednesday, September 6, 2017 3:25 PM  
**To:** Cyrus Razmara  
**Cc:** Christine Brendle; Joni Fisher  
**Subject:** Re: FW: Results of analysis, AETL Job No.: 89157 (In NEW Summary Table and PDF formats) of 12 soil and 5 concrete samples from "Walnut Substation, 220KV CBs, IO # 337440, SAP # 900772538"

Hello Cyrus,

Thank you for the results for Walnut Substation. Yes, please go ahead with VOCs analysis on sample HA8-0.5' identified in your email above.

Thanks,  
Cem

On Wed, Sep 6, 2017 at 3:06 PM, Cyrus Razmara <[cyrus@aetlab.com](mailto:cyrus@aetlab.com)> wrote:

Hello Cem,

Due to the high TPH results, do you want VOC on sample HA8-0.5' (89157.13) ?

If you have any questions, please call me at 888-288-AETL.

Cyrus Razmara Ph.D.

CEO & Laboratory Director

American Environmental Testing Laboratory





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Page: 1 A

## Ordered By

Southern California Edison Company  
1 Innovation Way  
Pomona, CA 91768-

Project ID: IO# 337440  
Date Received 08/29/2017  
Date Reported 09/06/2017

Telephone: (909) 274-1646  
Attention: Christine Brendle

Job Number	Order Date	Client
89157	08/29/2017	SCE

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 23 samples with the following specification on 08/29/2017.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
89157.01	HA10-0.5'	08/29/2017	Soil	1
89157.02	HA10-2.0'	08/29/2017	Soil	1
89157.04	HA11-0.5'	08/29/2017	Soil	1
89157.05	HA11-2.0'	08/29/2017	Soil	1
89157.07	HA12-0.5'	08/29/2017	Soil	1
89157.08	HA12-2.0'	08/29/2017	Soil	1
89157.10	HA13-0.5'	08/29/2017	Soil	1
89157.11	HA13-2.0'	08/29/2017	Soil	1
89157.14	HA8-2.0'	08/29/2017	Soil	1
89157.16	HA7-0.5'	08/29/2017	Soil	1
89157.17	HA7-2.0'	08/29/2017	Soil	1
Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM) ^ SCE	09/05/2017	2	Normal	mg/Kg
(8082) ^ SCE-1PPM	09/05/2017	2	Normal	mg/Kg
(M8015D) ^ SCE-C13C40	09/05/2017	2	Normal	mg/Kg
(M8015G) ^ SCE-C4-C12	09/05/2017	2	Normal	mg/Kg
89157.03	HA10-5.0'	08/29/2017	Soil	1
89157.06	HA11-5.0'	08/29/2017	Soil	1
89157.09	HA12-5.0'	08/29/2017	Soil	1
89157.12	HA13-5.0'	08/29/2017	Soil	1
89157.15	HA8-5.0'	08/29/2017	Soil	1
89157.18	HA7-5.0'	08/29/2017	Soil	1
Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/05/2017	2	Normal	--
89157.13	HA8-0.5'	08/29/2017	Soil	1
Method ^ Submethod	Req Date	Priority	TAT	Units

Continued



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Page: 1 B

### Ordered By

Southern California Edison Company  
1 Innovation Way  
Pomona, CA 91768-

Project ID: IO# 337440  
Date Received 08/29/2017  
Date Reported 09/06/2017

Telephone: (909) 274-1646  
Attention: Christine Brendle

Job Number	Order Date	Client
89157	08/29/2017	SCE

## CERTIFICATE OF ANALYSIS

### CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
89157.13	HA8-0.5'	08/29/2017	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM) ^ SCE	09/05/2017	2	Normal	mg/Kg
(8082) ^ SCE-1PPM	09/05/2017	2	Normal	mg/Kg
(8260B)	09/05/2017	2	Normal	ug/Kg
(M8015D) ^ SCE-C13C40	09/05/2017	2	Normal	mg/Kg
(M8015G) ^ SCE-C4-C12	09/05/2017	2	Normal	mg/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
89157.19	C1	08/29/2017	Solid	1
89157.20	C2	08/29/2017	Solid	1
89157.21	C3	08/29/2017	Solid	1
89157.22	C4	08/29/2017	Solid	1
89157.23	C5	08/29/2017	Solid	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8082) ^ SCE-1PPM	09/05/2017	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Edison Company  
 1 Innovation Way  
 Pomona, CA 91768-

### Site

Walnut Substation  
 16333 Gale Ave.  
 City of Industry, CA 91745

Telephone: (909)274-1646

Attn: Christine Brendle

Page: 2

Project ID: IO# 337440

Project Name: Walnut Sub. 220KV CB's

AETL Job Number	Submitted	Client
89157	08/29/2017	SCE

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0906172A1

Our Lab I.D.	Method Blank	89157.13		
Client Sample I.D.		HA8-0.5'		
Date Sampled		08/29/2017		
Date Prepared	09/06/2017	09/06/2017		
Preparation Method	5030	5030		
Date Analyzed	09/06/2017	09/06/2017		
Matrix	Soil	Soil		
Units	ug/Kg	ug/Kg		
Dilution Factor	1	1		
Analytes	MDL	PQL	Results	Results
Acetone	25	50	ND	ND
Benzene	1.0	10.0	ND	ND
Bromobenzene (Phenyl bromide)	5.0	10.0	ND	ND
Bromochloromethane	5.0	10.0	ND	ND
Bromodichloromethane	5.0	10.0	ND	ND
Bromoform (Tribromomethane)	25	50	ND	ND
Bromomethane (Methyl bromide)	15	30	ND	ND
2-Butanone (MEK)	25	50	ND	ND
n-Butylbenzene	5.0	10.0	ND	ND
sec-Butylbenzene	5.0	10.0	ND	ND
tert-Butylbenzene	5.0	10.0	ND	ND
Carbon Disulfide	25	50	ND	ND
Carbon tetrachloride	5.0	10.0	ND	ND
Chlorobenzene	5.0	10.0	ND	ND
Chloroethane	15	30	ND	ND
2-Chloroethyl vinyl ether	50	50	ND	ND
Chloroform (Trichloromethane)	5.0	10.0	ND	ND
Chloromethane (Methyl chloride)	15	30	ND	ND
2-Chlorotoluene	5.0	10.0	ND	ND
4-Chlorotoluene	5.0	10.0	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	25	50	ND	ND
Dibromochloromethane	5.0	10.0	ND	ND
1,2-Dibromoethane (EDB)	5.0	10.0	ND	ND
Dibromomethane	5.0	10.0	ND	ND
1,2-Dichlorobenzene	5.0	10.0	ND	ND
1,3-Dichlorobenzene	5.0	10.0	ND	ND
1,4-Dichlorobenzene	5.0	10.0	ND	ND
Dichlorodifluoromethane	15	30	ND	ND





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## ANALYTICAL RESULTS

Page: 3

Project ID: IO# 337440  
 Project Name: Walnut Sub. 220KV CB's

AETL Job Number	Submitted	Client
89157	08/29/2017	SCE

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0906172A1

Our Lab I.D.			Method Blank	89157.13			
Client Sample I.D.				HA8-0.5'			
Date Sampled				08/29/2017			
Date Prepared			09/06/2017	09/06/2017			
Preparation Method			5030	5030			
Date Analyzed			09/06/2017	09/06/2017			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	MDL	PQL	Results	Results			
1,1-Dichloroethane	5.0	10.0	ND	ND			
1,2-Dichloroethane (EDC)	5.0	10.0	ND	ND			
1,1-Dichloroethene	5.0	10.0	ND	ND			
cis-1,2-Dichloroethene	5.0	10.0	ND	ND			
trans-1,2-Dichloroethene	5.0	10.0	ND	ND			
1,2-Dichloropropane	5.0	10.0	ND	ND			
1,3-Dichloropropane	5.0	10.0	ND	ND			
2,2-Dichloropropane	5.0	10.0	ND	ND			
1,1-Dichloropropene	5.0	10.0	ND	ND			
cis-1,3-Dichloropropene	5.0	10.0	ND	ND			
trans-1,3-Dichloropropene	5.0	10.0	ND	ND			
Ethylbenzene	1.0	10.0	ND	ND			
Hexachlorobutadiene	15	30	ND	ND			
2-Hexanone	25	50	ND	ND			
Iodomethane	5.0	10.0	ND	ND			
Isopropylbenzene	5.0	10.0	ND	ND			
p-Isopropyltoluene	5.0	10.0	ND	ND			
4-Methyl-2-pentanone (MIBK)	25	50	ND	ND			
Methyl-tert-butyl ether (MTBE)	2.0	10.0	ND	ND			
Methylene chloride (DCM)	25	50	ND	ND			
Naphthalene	5.0	10.0	ND	ND			
n-Propylbenzene	5.0	10.0	ND	ND			
Styrene	5.0	10.0	ND	ND			
1,1,1,2-Tetrachloroethane	5.0	10.0	ND	ND			
1,1,2,2-Tetrachloroethane	5.0	10.0	ND	ND			
Tetrachloroethene	2.0	10.0	ND	ND			
Toluene (Methyl benzene)	1.0	10.0	ND	ND			
1,2,3-Trichlorobenzene	5.0	10.0	ND	ND			
1,2,4-Trichlorobenzene	5.0	10.0	ND	ND			
1,1,1-Trichloroethane	5.0	10.0	ND	ND			
1,1,2-Trichloroethane	5.0	10.0	ND	ND			
Trichloroethene	1.5	10.0	ND	ND			
Trichlorofluoromethane	5.0	10.0	ND	ND			
1,2,3-Trichloropropane	5.0	10.0	ND	ND			



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## ANALYTICAL RESULTS

Page: 4

Project ID: IO# 337440  
 Project Name: Walnut Sub. 220KV CB's

AETL Job Number	Submitted	Client
89157	08/29/2017	SCE

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0906172A1

<b>Our Lab I.D.</b>			Method Blank	<b>89157.13</b>			
Client Sample I.D.				HA8-0.5'			
Date Sampled				08/29/2017			
Date Prepared			09/06/2017	09/06/2017			
Preparation Method			5030	5030			
Date Analyzed			09/06/2017	09/06/2017			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
<b>Analytes</b>	<b>MDL</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>			
1,2,4-Trimethylbenzene	5.0	10.0	ND	ND			
1,3,5-Trimethylbenzene	5.0	10.0	ND	ND			
Vinyl Acetate	25	50	ND	ND			
Vinyl chloride (Chloroethene)	5.0	10.0	ND	ND			
o-Xylene	1.0	10.0	ND	ND			
m,p-Xylenes	1.0	20.0	ND	ND			
<b>Our Lab I.D.</b>			Method Blank	<b>89157.13</b>			
<b>Surrogates</b>	<b>%Rec. Limit</b>		<b>% Rec.</b>	<b>% Rec.</b>			
Bromofluorobenzene	75-125		81.4	98.4			
Dibromofluoromethane	75-125		125	125			
Toluene-d8	75-125		97.7	98.3			



# American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

## QUALITY CONTROL RESULTS

### Ordered By

Southern California Edison Company  
 1 Innovation Way  
 Pomona, CA 91768-

### Site

Walnut Substation  
 16333 Gale Ave.  
 City of Industry, CA 91745

Telephone: (909)274-1646

Attn: Christine Brendle

Page: 5

Project ID: IO# 337440

Project Name: Walnut Sub. 220KV CB's

AETL Job Number	Submitted	Client
89157	08/29/2017	SCE

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0906172A1; LCS: Clean Sand; LCS Prepared: 09/06/2017; LCS Analyzed: 09/06/2017; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Benzene	50.0	40.8	81.6	50.0	38.0	76.0	7.1	75-125	<20
Carbon tetrachloride	50.0	62.5	125	50.0	62.5	125	<1	75-125	<20
Chlorobenzene	50.0	43.8	87.6	50.0	43.0	86.0	1.8	75-125	<20
Chloroform (Trichloromethane)	50.0	55.5	111	50.0	52.5	105	5.6	75-125	<20
1,2-Dichlorobenzene	50.0	50.5	101	50.0	49.0	98.0	3.0	75-125	<20
1,1-Dichloroethane	50.0	39.6	79.2	50.0	42.0	84.0	5.9	75-125	<20
1,1-Dichloroethene	50.0	53.0	106	50.0	54.0	108	1.9	75-125	<20
cis-1,2-Dichloroethene	50.0	41.9	83.8	50.0	42.5	85.0	1.4	75-125	<20
Ethylbenzene	50.0	46.3	92.6	50.0	45.5	91.0	1.7	75-125	<20
Methyl-tert-butyl ether (MTBE)	50.0	52.0	104	50.0	53.0	106	1.9	75-125	<20
n-Propylbenzene	50.0	44.8	89.6	50.0	45.0	90.0	<1	75-125	<20
Toluene (Methyl benzene)	50.0	41.5	83.0	50.0	40.5	81.0	2.4	75-125	<20
1,1,1-Trichloroethane	50.0	62.5	125	50.0	62.5	125	<1	75-125	<20
1,1,2-Trichloroethane	50.0	54.5	109	50.0	52.0	104	4.7	75-125	<20
Trichloroethene	50.0	51.0	102	50.0	49.0	98.0	4.0	75-125	<20
1,2,4-Trimethylbenzene	50.0	49.2	98.4	50.0	48.5	97.0	1.4	75-125	<20
1,3,5-Trimethylbenzene	50.0	47.5	95.0	50.0	47.0	94.0	1.1	75-125	<20
o-Xylene	50.0	43.6	87.2	50.0	42.0	84.0	3.7	75-125	<20
m,p-Xylenes	100	88.3	88.3	100	85.5	85.5	3.2	75-125	<20
<b>Surrogates</b>									
Bromofluorobenzene	50.0	48.1	96.1	50.0	51.0	102	6.0	75-125	<20
Dibromofluoromethane	50.0	51.5	103	50.0	50.0	100	3.0	75-125	<20
Toluene-d8	50.0	45.5	90.9	50.0	46.5	93.0	2.3	75-125	<20



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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above PQL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---



# Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

Waste Profile #  
5123188293

Expiration Date  
12/28/2018

### I. Decision Request:

Initial     Recertification     Change

Disposal Facility: 5123 - Sunshine Canyon Landfill

Generator Name: Aircraft Heat Treating

Generator Site Address: 15701 Minnesota Ave

City: Paramount

County:

State: CA

Zip:

Name of Waste: Furnace Insulation

Estimated Annual Volume: 25 Cubic Yards

### II. Special Waste Department Decision:    Approved    Rejected


Management Method(s):     Landfill     Solidification     Bioremediation     Transfer Facility

Problematic Special Waste according to Republic?     Yes     No

If yes, which one?

Approved by Special Waste Review Committee?     Yes     No     Not Applicable

### Precautions, Conditions or Limitations on Approval

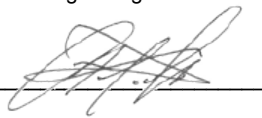
Special Waste Analyst Signature:   
Date: 5/22/2018

Name (Printed): Joseph Sorokach

### III. Facility Decision:    Approved    Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee:   
Date: 5/22/2018

Name (Printed): Chris Coyle



SPECIAL WASTE PROFILE

5123 Sunshine Landfill, CA Canyon

Requested Disposal Facility: Select a Facility

Waste Profile # 5123 18 8293

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

Sales Rep #: 585 - Ed Antolin

I. Generator Information

Generator Name: AEROCRAFT HEAT TREATING
Generator Site Address: 15701 MINNESOTA AVE
City: PARAMOUNT County: LA State: California Zip: 90723
State ID/Reg No: State Approval/Waste Code: (if applicable) NAICS #:
Generator Mailing Address (if different): 15701 MINNESOTA AVE
City: PARAMOUNT County: State: California Zip: 90723
Generator Contact Name: CARLOS RUIZ Email:
Phone Number: (562) 412-2434 Ext: Fax Number:

II. Billing Information

Bill To: ENVIRONMENTAL MANAGEMENT TECHNOLOGIES Contact Name: MARIA
Billing Address: 1456 S. GAGE STREET Email: MARIA@EMT4ENV.COM
City: SAN BERNARDINO State: CA Zip: 92408 Phone: (800) 579-6834

III. Waste Stream Information

Name of Waste: FURNACE INSULATION
Process Generating Waste: FURNACE INSULATION CHANGE OUT
Type of Waste: [X] INDUSTRIAL PROCESS WASTE [ ] POLLUTION CONTROL WASTE
Physical State: [X] SOLID [ ] SEMI-SOLID [ ] POWDER [ ] LIQUID
Method of Shipment: [X] BULK [ ] DRUM [ ] BAGGED [ ] OTHER:
Estimated Annual Volume: 25 Cubic Yards
Frequency: [X] ONE TIME [ ] ONGOING
Disposal Consideration: [X] LANDFILL [ ] SOLIDIFICATION [ ] BIOREMEDIATION

IV. Representative Sample Certification [ ] NO SAMPLE TAKEN

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules? [X] YES or [ ] NO
Type of Sample: [ ] COMPOSITE SAMPLE [X] GRAB SAMPLE
Sample Date: ~~1/23/2018~~ 1/23/2018 12/13/2017
Sample ID Numbers: T180264-01 ST-11578-01



Waste Profile #
5123 18 8293

V. Physical Characteristics of Waste

Characteristic Components	% by Weight (range)
1. INSULATION WITH METALS (SEE ANALYSIS)	100%
2.	
3.	
4.	
5.	

Color	Odor (describe)	Does Waste Contain Free Liquids?	% Solids	pH:	Flash Point
GREYISH	NONE	<input type="checkbox"/> YES or <input checked="" type="checkbox"/> NO	100%	N/A	N/A °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Chain of Custody and Required Parameters Provided for this Profile

Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm)[reference 40 CFR 261.23(a)(5)]?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste a reactive or heat generating waste?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does the waste contain sulfur or sulfur by-products?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste generated at a Federal Superfund Clean Up Site?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste from a TSD facility, TSD like facility or consolidator?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No

VI. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services Inc.

Juan Carlos Ruiz EHS Coordinator
Authorized Representative Name And Title (Type or Print)

Aircraft Heat Treating
Company Name

[Signature]
Authorized Representative Signature

05/21/18
Date





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562-646-1611  
805-399-0060

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SANTA FE SPRINGS, CA 90670  
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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** Aerocraft Heat Treating  
**Client Address:** 15701 Minnesota Ave.  
Paramount, CA 90723

**Report date:** 12/28/2017  
**JEL Ref. No.:** ST-11578

**Attn:** Juan Carlos Ruiz

**Date Sampled:** 12/13/2017  
**Date Received:** 12/15/2017  
**Date Analyzed:** 12/28/2017

**Project Address:** 15701 Minnesota Avenue  
Paramount, CA 90280

**Physical State:** Soil

---

**ANALYSES REQUESTED**

1. STLC Waste Extraction Test by ICP-OES

Additional analysis requested on December 22, 2017.

**Approval:**

Carolyn Carroll  
Stationary Lab Manager



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**JONES ENVIRONMENTAL LABORATORY RESULTS**

**Client:** Aerocraft Heat Treating  
**Client Address:** 15701 Minnesota Ave.  
 Paramount, CA 90723

**Report date:** 12/28/2017  
**JEL Ref. No.:** ST-11578

**Attn:** Juan Carlos Ruiz

**Date Sampled:** 12/13/2017  
**Date Received:** 12/15/2017  
**Date Analyzed:** 12/28/2017

**Project Address:** 15701 Minnesota Avenue  
 Paramount, CA 90280

**Physical State:** Soil

**Sample ID:** Waste Inswool Ceramic Fiber

**JEL ID:** ST-11578-01



**STLC Waste Extraction Test by ICP-OES**

	<u>Result</u>	<u>Dilution</u>	<u>Batch</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Practical Quantitation Limit</u>	<u>Units</u>
<b>Analytes:</b>							
<b>Chromium, Cr</b>	<b>0.9</b>	1	STLC12261701	12/26/2017	12/28/2017	0.5	mg/L
<b>Nickel, Ni</b>	<b>1.1</b>	1	"	"	"	0.5	mg/L

ND= Not Detected



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

<b>Client:</b>	Aerocraft Heat Treating	<b>Report date:</b>	12/28/2017
<b>Client Address:</b>	15701 Minnesota Ave. Paramount, CA 90723	<b>JEL Ref. No.:</b>	ST-11578
<b>Attn:</b>	Juan Carlos Ruiz	<b>Date Sampled:</b>	12/13/2017
		<b>Date Received:</b>	12/15/2017
		<b>Date Analyzed:</b>	12/28/2017
<b>Project Address:</b>	15701 Minnesota Avenue Paramount, CA 90280	<b>Physical State:</b>	Soil

**BATCH:** STLC12261701      **Prepared:** 12/26/2017      **Analyzed:** 12/28/2017

**STLC Waste Extraction Test by ICP-OES**

	Result	Spike Level	Source Result	% Recovery	% RPD	% Recovery Limits	Units
<b>METHOD BLANK:</b>	<b>STLC122617-BLK1</b>						
<b>Analyte:</b>							
Chromium, Cr	ND						mg/L
Nickel, Ni	ND						mg/L

<b>LCS:</b>	<b>STLC122617-LCS1</b>						
<b>Analyte:</b>							
Chromium, Cr	<b>4.8</b>	5.0		96%		80 - 120	mg/L
Nickel, Ni	<b>5.1</b>	5.0		102%		80 - 120	mg/L

<b>LCSD:</b>	<b>STLC122617-LCSD1</b>						
<b>Analyte:</b>							
Chromium, Cr	<b>4.7</b>	5.0		94%	2.1%	80 - 120	mg/L
Nickel, Ni	<b>5.0</b>	5.0		100%	2.0%	80 - 120	mg/L

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%



P.O. Box 5387  
 Fullerton, CA 92838  
 (714) 449-9937  
 Fax (714) 449-9685  
 www.jonesenvironmentallab.com

# Chain-of-Custody Record

Client: **Aerocraft Heat Treating**

Project Name: \_\_\_\_\_

Project Address: **15701 Minnesota Avenue**

**Paramount, CA. 90280**

Email: **juan.c.ruiz@dicksontesting.com**

Phone: **562 412 2434**

Report To: **Juan Carlos Ruiz** (Sampler)

Date: **12/13/2017**

Client Project #: \_\_\_\_\_

Report Options

Tier I - (Results/Default) \_\_\_\_\_ Tier III - (Data Validation Package) 10% Surcharge \_\_\_\_\_

Tier II - (Results + QC) \_\_\_\_\_ Tier IV - (Client specified) 10% Surcharge \_\_\_\_\_

EDD \_\_\_\_\_ EDF \_\_\_\_\_

JEL Project # **ST-11578**

Page **1** of **1**

Lab Use Only

Sample Condition as Received:

Chilled  yes  no

Sealed  yes  no

Turn Around Requested:

Immediate Attention

Rush 24-48 Hours

Rush 72-96 Hours

Normal

Mobile Lab

Tracer:

n-propanol

n-pentane

1,1-DFA

Helium

\_\_\_\_\_

Shut In Test: Y / N

Purge Number:  1P  3P  7P  10P

Analysis Requested: **TCLP - Chromium**  
**STLC - Cr, Ni (12/22)**

Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas

CAM - 17

Magnetic Reading (in/H<sub>2</sub>O)

Number of Containers

Sample ID	Purge Number	Purge Volume	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Preservative	Date of Preservative	Container Type(s)	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas	CAM	Analysis Requested	Magnetic Reading (in/H <sub>2</sub> O)	Number of Containers	Remarks & Special Instructions
Waste Inswool Ceramic Fiber			12/13/17	09:00am		ST-11578-01			GLASS	S	X	X		1	
Inspection Baghouse Dust			12/15/17	08:30am		ST-11578-02			Poly	S	X			1	

Relinquished By (Signature): *[Signature]* Date: **12/15/17** Time: **8:50 am**

Company: **Aerocraft Heat Treating**

Received By (Signature): *[Signature]* Date: **12/15** Time: **0850**

Company: **JEL**

Total Number of Containers: **2**

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth

9 of 24



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** Aircraft Heat Treating  
**Client Address:** 15701 Minnesota Ave.  
Paramount, CA 90723

**Report date:** 12/21/2017  
**JEL Ref. No.:** ST-11578

**Attn:** Juan Carlos Ruiz

**Date Sampled:** 12/13/2017  
**Date Received:** 12/15/2017  
**Date Analyzed:** 12/19,20/2017  
**Physical State:** Soil

**Project Address:** 15701 Minnesota Avenue  
Paramount, CA 90280

---

**ANALYSES REQUESTED**

1. EPA 6010B by 3050B and EPA 7471A – CAM 17 Metals

**Approval:**

Colby Wakeman  
QA/QC Manager



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**JONES ENVIRONMENTAL LABORATORY RESULTS**

<b>Client:</b>	Aerocraft Heat Treating	<b>Report date:</b>	12/21/2017
<b>Client Address:</b>	15701 Minnesota Ave. Paramount, CA 90723	<b>JEL Ref. No.:</b>	ST-11578
<b>Attn:</b>	Juan Carlos Ruiz	<b>Date Sampled:</b>	12/13/2017
		<b>Date Received:</b>	12/15/2017
		<b>Date Analyzed:</b>	12/18-20/2017
<b>Project Address:</b>	15701 Minnesota Avenue Paramount, CA 90280	<b>Physical State:</b>	Soil

**Sample ID:** Waste Inswool Ceramic Fiber      **JEL ID:** ST-11578-01 ←

**EPA 6010B by 3050B - Title 22 CAM 17 Trace Metals by ICP-OES**

	<u>Result</u>	<u>Dilution</u>	<u>Batch</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Practical Quantitation Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Silver, Ag	ND	1	I17121802	12/18/2017	12/19/2017	0.5	mg/kg
Arsenic, As	0.8	1	"	"	"	0.5	mg/kg
Barium, Ba	12.3	1	"	"	"	0.5	mg/kg
Beryllium, Be	ND	1	"	"	"	0.5	mg/kg
Cadmium, Cd	ND	1	"	"	"	0.5	mg/kg
Cobalt, Co	35.9	1	"	"	"	0.5	mg/kg
Chromium, Cr	298	1	"	"	"	0.5	mg/kg
Copper, Cu	78.0	1	"	"	"	0.5	mg/kg
Molybdenum, Mo	1250	10	"	"	12/20/2017	5.0	mg/kg
Nickel, Ni	392	1	"	"	12/19/2017	0.5	mg/kg
Lead, Pb	ND	1	"	"	"	0.5	mg/kg
Antimony, Sb	29.7	1	"	"	"	0.5	mg/kg
Selenium, Se	ND	1	"	"	"	0.5	mg/kg
Thallium, Tl	ND	1	"	"	"	0.5	mg/kg
Vanadium, V	222	1	"	"	"	0.5	mg/kg
Zinc, Zn	80.0	1	"	"	"	0.5	mg/kg

**EPA 7471A - Mercury by Cold Vapor Atomic Absorption**

	<u>Result</u>	<u>Dilution</u>	<u>Batch</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Practical Quantitation Limit</u>	<u>Units</u>
Mercury, Hg	ND	1	H17121801	12/18/2017	12/18/2017	0.020	mg/kg

ND= Not Detected



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**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

**Client:** Aerocraft Heat Treating  
**Client Address:** 15701 Minnesota Ave.  
 Paramount, CA 90723

**Report date:** 12/21/2017  
**JEL Ref. No.:** ST-11578

**Attn:** Juan Carlos Ruiz

**Date Sampled:** 12/13/2017  
**Date Received:** 12/15/2017  
**Date Analyzed:** 12/18-20/2017

**Project Address:** 15701 Minnesota Avenue  
 Paramount, CA 90280

**Physical State:** Soil

**BATCH:** I17121802      **Prepared:** 12/18/2017      **Analyzed:** 12/19/2017

**EPA 6010B by 3050B - Title 22 CAM 17 Trace Metals by ICP-OES**

	Result	Spike Level	% REC	% REC Limits	% RPD	Practical Quantitation Limit	Units
<b>METHOD BLANK: I171218-BLK2</b>							
<b>Analytes:</b>							
Silver, Ag	ND					0.5	mg/kg
Arsenic, As	ND					0.5	mg/kg
Barium, Ba	ND					0.5	mg/kg
Beryllium, Be	ND					0.5	mg/kg
Cadmium, Cd	ND					0.5	mg/kg
Cobalt, Co	ND					0.5	mg/kg
Chromium, Cr	ND					0.5	mg/kg
Copper, Cu	ND					0.5	mg/kg
Molybdenum, Mo	ND					0.5	mg/kg
Nickel, Ni	ND					0.5	mg/kg
Lead, Pb	ND					0.5	mg/kg
Antimony, Sb	ND					0.5	mg/kg
Selenium, Se	ND					0.5	mg/kg
Thallium, Tl	ND					0.5	mg/kg
Vanadium, V	ND					0.5	mg/kg
Zinc, Zn	ND					0.5	mg/kg

ND= Not Detected



714-449-9937  
562-646-1611  
805-399-0060

11007 FOREST PLACE  
SANTA FE SPRINGS, CA 90670  
WWW.JONESENV.COM

**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

**Client:** Aerocraft Heat Treating  
**Client Address:** 15701 Minnesota Ave.  
Paramount, CA 90723

**Report date:** 12/21/2017  
**JEL Ref. No.:** ST-11578

**Attn:** Juan Carlos Ruiz

**Date Sampled:** 12/13/2017  
**Date Received:** 12/15/2017  
**Date Analyzed:** 12/18-20/2017

**Project Address:** 15701 Minnesota Avenue  
Paramount, CA 90280

**Physical State:** Soil

**BATCH:** I17121802      **Prepared:** 12/18/2017      **Analyzed:** 12/19/2017

**EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES**

	Result	Spike Level	Source Result	% REC	% RPD	% REC Limits	Units
<b>LCS: I171218-LCS2</b>							
<b>Analytes:</b>							
Barium, Ba	197	200		99%		80 - 120	mg/kg
Cobalt, Co	50.7	50.0		101%		80 - 120	mg/kg
Lead, Pb	50.9	50.0		102%		80 - 120	mg/kg
Selenium, Se	189	200		95%		80 - 120	mg/kg
Zinc, Zn	51.2	50.0		102%		80 - 120	mg/kg
<b>LCSD: I171218-LCSD2</b>							
Barium, Ba	196	200		98%	0.5%	80 - 120	mg/kg
Cobalt, Co	50.6	50.0		101%	0.2%	80 - 120	mg/kg
Lead, Pb	51.0	50.0		102%	0.2%	80 - 120	mg/kg
Selenium, Se	190	200		95%	0.5%	80 - 120	mg/kg
Zinc, Zn	50.2	50.0		100%	2.0%	80 - 120	mg/kg

ND= Not Detected

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%





714-449-9937  
 562-646-1611  
 805-399-0060

11007 FOREST PLACE  
 SANTA FE SPRINGS, CA 90670  
 WWW.JONESENV.COM

**JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION**

**Client:** Aerocraft Heat Treating  
**Client Address:** 15701 Minnesota Ave.  
 Paramount, CA 90723

**Report date:** 12/21/2017  
**JEL Ref. No.:** ST-11578

**Attn:** Juan Carlos Ruiz

**Date Sampled:** 12/13/2017  
**Date Received:** 12/15/2017  
**Date Analyzed:** 12/18-20/2017

**Project Address:** 15701 Minnesota Avenue  
 Paramount, CA 90280

**Physical State:** Soil

**BATCH:** H17121801      **Prepared:** 12/18/2017      **Analyzed:** 12/18/2017

**EPA 7471A - Mercury by Cold Vapor Atomic Absorption**

	Result	Spike Level	Source Result	% REC	% RPD	% REC Limits	Units
<b>METHOD BLANK:</b>	<b>H171218-BLK1</b>						
<b>Analytes:</b>							
Mercury, Hg	ND						mg/kg
<b>LCS:</b>	<b>H171218-LCS1</b>						
Mercury, Hg	0.88	1.00		88%		80 - 120	mg/kg
<b>LCSD:</b>	<b>H171218-LCSD1</b>						
Mercury, Hg	0.87	1.00		87%	1.1%	80 - 120	mg/kg

ND= Not Detected

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%





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

30 January 2018

Maddy Voloshin  
Jones Environmental  
11007 Forest Place  
Santa Fe Springs, CA 90670  
RE: Aircraft Heat Treating - 15701 Minnesota Ave

Enclosed are the results of analyses for samples received by the laboratory on 01/23/18 15:18. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rose Fasheh  
Project Manager



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

Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: Aircraft Heat Treating - 15701 Minnesota Ave  
Project Number: ST-11715  
Project Manager: Maddy Voloshin

**Reported:**  
01/30/18 15:45

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Waste Inswool Ceramic Fiber	T180264-01	Fiber	01/23/18 11:30	01/23/18 15:18

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.*

Rose Fasheh, Project Manager

Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: Aircraft Heat Treating - 15701 Minnesota Ave  
Project Number: ST-11715  
Project Manager: Maddy Voloshin

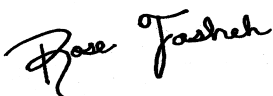
**Reported:**  
01/30/18 15:45

**DETECTIONS SUMMARY**

**Sample ID:** Waste Inswool Ceramic Fiber

**Laboratory ID:** T180264-01

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Chromium	0.33	0.10		mg/l	EPA 1311	



Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: Aircraft Heat Treating - 15701 Minnesota Ave  
Project Number: ST-11715  
Project Manager: Maddy Voloshin

Reported:  
01/30/18 15:45

**Waste Inswool Ceramic Fiber**

**T180264-01 (Fiber)**

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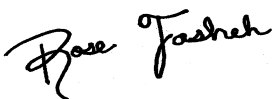
**SunStar Laboratories, Inc.**

**TCLP Metals by 6000/7000 Series Methods**

<b>Chromium</b>	<b>0.33</b>	0.10	mg/l	1	8012429	01/24/18	01/29/18	EPA 1311	
-----------------	-------------	------	------	---	---------	----------	----------	----------	--

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.*



Rose Fasheh, Project Manager

Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: Aircraft Heat Treating - 15701 Minnesota Ave  
Project Number: ST-11715  
Project Manager: Maddy Voloshin

Reported:  
01/30/18 15:45

**TCLP Metals by 6000/7000 Series Methods - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch 8012429 - TCLP Metals**

**Blank (8012429-BLK1)**

Prepared: 01/24/18 Analyzed: 01/29/18

Chromium ND 0.10 mg/l

**LCS (8012429-BS1)**

Prepared: 01/24/18 Analyzed: 01/29/18

Chromium 0.489 0.10 mg/l 0.500 97.9 0-200

**Matrix Spike (8012429-MS1)**

Source: T180264-01

Prepared: 01/24/18 Analyzed: 01/29/18

Chromium 0.831 0.10 mg/l 0.500 0.335 99.2 0-200

**Matrix Spike Dup (8012429-MSD1)**

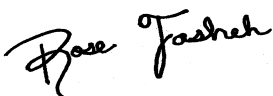
Source: T180264-01

Prepared: 01/24/18 Analyzed: 01/29/18

Chromium 0.812 0.10 mg/l 0.500 0.335 95.4 0-200 2.33 200

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.



Rose Fasheh, Project Manager



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

Jones Environmental  
11007 Forest Place  
Santa Fe Springs CA, 90670

Project: Aircraft Heat Treating - 15701 Minnesota Ave  
Project Number: ST-11715  
Project Manager: Maddy Voloshin

**Reported:**  
01/30/18 15:45

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

---

SunStar Laboratories, Inc.

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

Rose Fasheh, Project Manager





## SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: TIPO264

Client Name: JONES Project: WASTE

Delivered by:  Client  SunStar Courier  GSO  FedEx  Other

If Courier, Received by: JOBY Date/Time Courier Received: 1-23-18 / 12:39

Lab Received by: SUNNY Date/Time Lab Received: 1-23-18 / 15:18

Total number of coolers received: 0

Temperature: Cooler #1	2.7	°C +/- the CF (- 0.2°C) =	2.5	°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
<b>Temperature criteria = ≤ 6°C (no frozen containers)</b>		Within criteria?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>If NO:</b>				
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 1-23-18

**Comments:**  
\_\_\_\_\_  
\_\_\_\_\_

**WORK ORDER**

**T180264**

<b>Client:</b> Jones Environmental	<b>Project Manager:</b> Rose Fasheh
<b>Project:</b> Aircraft Heat Treating - 15701 Minnesota Ave	<b>Project Number:</b> ST-11715

**Report To:**  
 Jones Environmental  
 Maddy Voloshin  
 11007 Forest Place  
 Santa Fe Springs, CA 90670

Date Due:	01/30/18 17:00 (5 day TAT)		
Received By:	Sunny Lounethone	Date Received:	01/23/18 15:18
Logged In By:	Sunny Lounethone	Date Logged In:	01/23/18 15:39

Samples Received at:	2.5°C		
Custody Seals	No	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	No		

Analysis	Due	TAT	Expires	Comments
<b>T180264-01 Waste Inswool Ceramic Fiber [Soil] Sampled 01/23/18 11:30 (GMT-08:00) Pacific Time (US &amp;</b>				
TCLP Leaching Procedure Metals	01/30/18 15:00	5	07/22/18 11:30	
TCLP Pb	01/30/18 15:00	5	07/22/18 11:30	Chromium only



# Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

Waste Profile #  
5123188614

Expiration Date  
5/25/2021

### I. Decision Request:

Initial     Recertification     Change

Disposal Facility: 5123 - Sunshine Canyon Landfill

Generator Name: John S Meek Company Inc

Generator Site Address: 14732 South Maple Ave

City: Gardena

County:

State: CA

Zip:

Name of Waste: Weathered Wood

Estimated Annual Volume: 120 Cubic Yards

### II. Special Waste Department Decision:    Approved    Rejected

Management Method(s):     Landfill     Solidification     Bioremediation     Transfer Facility

Problematic Special Waste according to Republic?     Yes     No

If yes, which one?

Approved by Special Waste Review Committee?     Yes     No     Not Applicable

### Precautions, Conditions or Limitations on Approval

Disposal of Weathered Wood Waste and or Treated Wood Waste must be in accordance with California Health and Safety Code (HSC) Sections 25150.7 and 25150.8 (for TWW) or in accordance with HSC Section 25143.1.5 (for TWW-Utility).

Special Waste Analyst Signature: 

Date: 5/25/2018

Name (Printed): KEITH DIAMANTI

### III. Facility Decision:

Approved     Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: 

Date: 5/25/2018

Name (Printed): Chris Coyle



Requested Disposal Facility: 5123 Sunshine Canyon LF CA

Waste Profile #

5123 18 8614

Saveable fill in form. Restricted printing until all required (yellow) fields are completed.

Sales Rep #. 585 - Ed Antolin

**I. Generator Information**

Generator Name: John S. Meek Company Inc.			
Generator Site Address: 14732 South Maple Ave.			
City: Gardena	County: Los Angeles	State: California	Zip: 90248
State ID/Reg No:	State Approval/Waste Code:	(if applicable)	NAICS #.
Generator Mailing Address (if different): 14732 South Maple Ave.			
City: Gardena	County: Gardena	State: California	Zip: 90248
Generator Contact Name: Joshua Jilk		Email:	
Phone Number: (310) 830-6323	Ext:	Fax Number: (310) 835-2163	

**II. Billing Information**

Bill To: Republic Services	Contact Name: Gaby Munoz		
Billing Address: 14905 S. San Pedro St.	Email:		
City: Gardena	State: CA	Zip: 90247	Phone: (562) 254-6124

**III. Waste Stream Information**

Name of Waste: <small>(Petroleum products-applies only to contaminated media and debris)</small>	<input type="checkbox"/> Diesel Fuel	<input checked="" type="checkbox"/> Weathered Wood	<input type="checkbox"/> Friable Asbestos
	<input type="checkbox"/> Home Heating Fuel #1-6	<input type="checkbox"/> RCRA Empty Containers	<input type="checkbox"/> Non Friable Asbestos
	<input type="checkbox"/> Kerosene	<input type="checkbox"/> Treated Medical Waste	<input type="checkbox"/> Cured Asphalt
	<input type="checkbox"/> Aviation Fuel	<input type="checkbox"/> Animal Carcass (non infectious)	<input type="checkbox"/> Fires
	<input type="checkbox"/> Hydraulic Fluid	<input type="checkbox"/> Plant Trash	<input type="checkbox"/> Food Products <small>(Including Animal Food)</small>
	<input type="checkbox"/> Unleaded Gasoline (UST Corrective Action)	<input type="checkbox"/> Meth Contaminated Debris	

Process Generating Waste: Disposal of stock deteriorated shoring timbers.

Method of Shipment: <input checked="" type="checkbox"/> BULK <input type="checkbox"/> DRUM <input type="checkbox"/> BAGGED <input type="checkbox"/> OTHER:
Estimated Annual Volume: 120 Cubic Yards
Frequency: <input type="checkbox"/> ONE TIME <input checked="" type="checkbox"/> ONGOING

**IV. Certification**

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true and accurate description of the waste material being offered for disposal. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services, Inc.

Joshua Jilk / Project Manager	John S. Meek Company
Authorized Representative Name/Title (Type or Print)	Company Name
	05/25/2018
Authorized Representative Signature	Date



# Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

Waste Profile #  
5123189039

Expiration Date  
10/30/2018

### I. Decision Request:

Initial     Recertification     Change

Disposal Facility: 5123 - Sunshine Canyon Landfill

Generator Name: Norwalk La Mirada Unified School District

Generator Site Address: 11356 Leffingwell Road

City: Norwalk

County:

State: CA

Zip:

Name of Waste: SOil

Estimated Annual Volume: 5 Cubic Yards

### II. Special Waste Department Decision:    Approved    Rejected

Management Method(s):     Landfill     Solidification     Bioremediation     Transfer Facility

Problematic Special Waste according to Republic?     Yes     No

If yes, which one?

Approved by Special Waste Review Committee?     Yes     No     Not Applicable

### Precautions, Conditions or Limitations on Approval

Special Waste Analyst Signature: Joseph M. Sorokach

Date: 6/5/2018

Name (Printed): Joseph Sorokach

### III. Facility Decision:

Approved     Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: Chris Coyle

Date: 6/5/2018

Name (Printed): Chris Coyle



Sunshine Canyon

Requested Disposal Facility: --- Select a Facility ---

Waste Profile #

5123 18 9039

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

Landfill

I. Generator Information

Sales Rep #:

Generator Name: NORWALK LA MIRADA UNIFIED SCHOOL DISTRICT			
Generator Site Address: 11356 LEFFINGWELL ROAD			
City: NORWALK	County: LA	State: California	Zip: 90650
State ID/Reg No:	State Approval/Waste Code: (if applicable)		NAICS #:
Generator Mailing Address (if different): <input checked="" type="checkbox"/> 12820 PIONEER BLVD			
City: NORWALK	County: LA	State: California	Zip: 90650
Generator Contact Name: MS. EDITH C. FLORENCE		Email:	
Phone Number: (562) 868-9014	Ext:	Fax Number:	

II. Billing Information

Bill To: ENVIRONMENTAL MANAGEMENT TECHNOLOGIES	Contact Name: MARIA		
Billing Address: 1456 S. GAGE STREET	Email: MARIA@EMT4ENV.COM		
City: SAN BERNARDINO	State: CA	Zip: 92408	Phone: (800) 579-6834

III. Waste Stream Information

Name of Waste: SOIL
Process Generating Waste: EXCAVATION/REMEDICATION General site construction. Soil stockpiles tested too high to be re-used for backfill material (E.F. 6-5-18)
Type of Waste: <input type="checkbox"/> INDUSTRIAL PROCESS WASTE <input checked="" type="checkbox"/> POLLUTION CONTROL WASTE
Physical State: <input checked="" type="checkbox"/> SOLID <input type="checkbox"/> SEMI-SOLID <input type="checkbox"/> POWDER <input type="checkbox"/> LIQUID
Method of Shipment: <input checked="" type="checkbox"/> BULK <input type="checkbox"/> DRUM <input type="checkbox"/> BAGGED <input type="checkbox"/> OTHER:
Estimated Annual Volume: 5 Cubic Yards
Frequency: <input checked="" type="checkbox"/> ONE TIME <input type="checkbox"/> ONGOING
Disposal Consideration: <input checked="" type="checkbox"/> LANDFILL <input type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> BIOREMEDIATION

IV. Representative Sample Certification

NO SAMPLE TAKEN

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	<input checked="" type="checkbox"/> YES or <input type="checkbox"/> NO
Type of Sample: <input checked="" type="checkbox"/> COMPOSITE SAMPLE <input type="checkbox"/> GRAB SAMPLE	
Sample Date: 04/26/2018	
Sample ID Numbers: 402091-001	



Waste Profile #

**V. Physical Characteristics of Waste**

Characteristic Components	% by Weight (range)
1. SOIL (PLEASE SEE ATTACHED ANALYSIS)	100%
2.	
3.	
4.	
5.	

Color	Odor (describe)	Does Waste Contain Free Liquids?	% Solids	pH:	Flash Point
BROWN	NONE	<input type="checkbox"/> YES or <input checked="" type="checkbox"/> NO	100	N/A	N/A °F

**Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Chain of Custody and Required Parameters Provided for this Profile**

Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm)[reference 40 CFR 261.23(a)(5)]?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste a reactive or heat generating waste?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does the waste contain sulfur or sulfur by-products?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste generated at a Federal Superfund Clean Up Site?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste from a TSD facility, TSD like facility or consolidator?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No

**VI. Certification**

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services Inc.

Edith C Florence, Director

Authorized Representative Name And Title (Type or Print)

*Edith C Florence*

Authorized Representative Signature

NLMVED FACILITIES PLANNING & CONSTRUCTION

Company Name

5/17/18

Date





## Enthalpy Analytical, LLC

931 W. Barkley Ave - Orange, CA 92868  
Tel: (714)771-6900 Fax: (714)538-1209  
www.enthalpy.com  
info-sc@enthalpy.com



Client: Ninyo & Moore  
Address: 475 Goddard  
Suite 200  
Irvine, CA 92618  
Attn: Patrick Cullip

Lab Request: 402091  
Report Date: 04/30/2018  
Date Received: 04/26/2018  
Client ID: 15461

Comments: Norwalk HS PEA  
209800001  
11356 Leffingwell Rd., Norwalk, CA

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

---

**Sample #**    **Client Sample ID**

402091-001    WC-Bin

---

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

The reports of the Enthalpy Analytical, Inc. are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.



Matrix: Solid

Client: Ninyo & Moore

Collector: Client

Sampled: 04/26/2018

Site:

Sample #: 402091-001

Client Sample #: WC-Bin

Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed By	Notes	
Method: EPA 6010B <i>NELAC</i>		Prep Method: EPA 3050B				QCBatchID: QC1190570			
Antimony	ND	1	0.37	3	mg/Kg	04/27/18	04/27/18	KLN	
<b>Arsenic</b>	<b>9.81</b>	1	0.36	1	mg/Kg	04/27/18	04/27/18	KLN	
<b>Barium</b>	<b>118</b>	1	0.23	1	mg/Kg	04/27/18	04/27/18	KLN	
Beryllium	ND	1	0.17	0.5	mg/Kg	04/27/18	04/27/18	KLN	
<b>Cadmium</b>	<b>0.61</b>	1	0.21	0.5	mg/Kg	04/27/18	04/27/18	KLN	
<b>Chromium</b>	<b>20.4</b>	1	0.13	1	mg/Kg	04/27/18	04/27/18	KLN	
<b>Cobalt</b>	<b>10.3</b>	1	0.19	0.5	mg/Kg	04/27/18	04/27/18	KLN	
<b>Copper</b>	<b>23.6</b>	1	0.31	1	mg/Kg	04/27/18	04/27/18	KLN	
<b>Lead</b>	<b>25.6</b>	1	0.32	1	mg/Kg	04/27/18	04/27/18	KLN	
<b>Molybdenum</b>	<b>0.61 J</b>	1	0.13	1	mg/Kg	04/27/18	04/27/18	KLN B1,J	
<b>Nickel</b>	<b>16.0</b>	1	0.2	1.5	mg/Kg	04/27/18	04/27/18	KLN	
Selenium	ND	1	0.72	3	mg/Kg	04/27/18	04/27/18	KLN	
<b>Silver</b>	<b>0.40 J</b>	1	0.13	0.5	mg/Kg	04/27/18	04/27/18	KLN J	
Thallium	ND	1	0.42	3	mg/Kg	04/27/18	04/27/18	KLN	
<b>Vanadium</b>	<b>34.8</b>	1	0.37	0.5	mg/Kg	04/27/18	04/27/18	KLN	
<b>Zinc</b>	<b>234</b>	1	0.28	5	mg/Kg	04/27/18	04/27/18	KLN	
Method: EPA 7471A <i>NELAC</i>		Prep Method: EPA 7471A				QCBatchID: QC1190576			
<b>Mercury</b>	<b>0.16</b>	1	0.02	0.14	mg/Kg	04/27/18	04/27/18	JP	
Method: EPA 8015M		Prep Method: EPA 3580A				QCBatchID: QC1190566			
TPH (C13 to C22)	ND	1	10	10	mg/Kg	04/26/18	04/26/18	SS	
<b>TPH (C23 to C40)</b>	<b>11</b>	1	10	10	mg/Kg	04/26/18	04/26/18	SS	
TPH (C6 to C12)	ND	1	10	10	mg/Kg	04/26/18	04/26/18	SS	
<u>Surrogate</u>			<u>% Recovery</u>		<u>Limits</u>		<u>Notes</u>		
<i>Triacontane (SUR)</i>			110		50-150				
Method: EPA 8260B <i>NELAC</i>		Prep Method: EPA 5030				QCBatchID: QC1190547			
1,1,1,2-Tetrachloroethane	ND	1.04	0.2496	5.2	ug/Kg	04/26/18	04/26/18	LZ	
1,1,1-Trichloroethane	ND	1.04	0.156	5.2	ug/Kg	04/26/18	04/26/18	LZ	
1,1,1,2,2-Tetrachloroethane	ND	1.04	0.3016	5.2	ug/Kg	04/26/18	04/26/18	LZ	
1,1,2-Trichloroethane	ND	1.04	0.2288	5.2	ug/Kg	04/26/18	04/26/18	LZ	
1,1,2-Trichlorotrifluoroethane	ND	1.04	0.7696	5.2	ug/Kg	04/26/18	04/26/18	LZ	
1,1-Dichloroethane	ND	1.04	0.2392	5.2	ug/Kg	04/26/18	04/26/18	LZ	
1,1-Dichloroethene	ND	1.04	0.1872	5.2	ug/Kg	04/26/18	04/26/18	LZ	
1,1-Dichloropropene	ND	1.04	0.2184	5.2	ug/Kg	04/26/18	04/26/18	LZ	
1,2,3-Trichlorobenzene	ND	1.04	0.1872	5.2	ug/Kg	04/26/18	04/26/18	LZ	
1,2,3-Trichloropropane	ND	1.04	0.208	5.2	ug/Kg	04/26/18	04/26/18	LZ	
1,2,4-Trichlorobenzene	ND	1.04	0.3432	5.2	ug/Kg	04/26/18	04/26/18	LZ	
1,2,4-Trimethylbenzene	ND	1.04	0.2912	5.2	ug/Kg	04/26/18	04/26/18	LZ	
1,2-Dibromo-3-chloropropane	ND	1.04	0.208	5.2	ug/Kg	04/26/18	04/26/18	LZ	
1,2-Dibromoethane	ND	1.04	0.1248	5.2	ug/Kg	04/26/18	04/26/18	LZ	
1,2-Dichlorobenzene	ND	1.04	0.1872	5.2	ug/Kg	04/26/18	04/26/18	LZ	
1,2-Dichloroethane	ND	1.04	0.1456	5.2	ug/Kg	04/26/18	04/26/18	LZ	
1,2-Dichloropropane	ND	1.04	0.3536	5.2	ug/Kg	04/26/18	04/26/18	LZ	
1,3,5-Trimethylbenzene	ND	1.04	0.2392	5.2	ug/Kg	04/26/18	04/26/18	LZ	
1,3-Dichlorobenzene	ND	1.04	0.2184	5.2	ug/Kg	04/26/18	04/26/18	LZ	
1,3-Dichloropropane	ND	1.04	0.1976	5.2	ug/Kg	04/26/18	04/26/18	LZ	
1,4-Dichlorobenzene	ND	1.04	0.2496	5.2	ug/Kg	04/26/18	04/26/18	LZ	
2,2-Dichloropropane	ND	1.04	0.1976	5.2	ug/Kg	04/26/18	04/26/18	LZ	
2-Butanone (MEK)	ND	1.04	0.7488	104	ug/Kg	04/26/18	04/26/18	LZ	
2-Chlorotoluene	ND	1.04	0.26	5.2	ug/Kg	04/26/18	04/26/18	LZ	
4-Chlorotoluene	ND	1.04	0.2288	5.2	ug/Kg	04/26/18	04/26/18	LZ	
4-Isopropyltoluene	ND	1.04	0.2808	5.2	ug/Kg	04/26/18	04/26/18	LZ	

Matrix: Solid

Client: Ninyo &amp; Moore

Collector: Client

Sampled: 04/26/2018

Site:

Sample #: 402091-001

Client Sample #: WC-Bin

Sample Type:

Analyte	Result	DF	MDL	RDL	Units	Prepared	Analyzed By	Notes
4-Methyl-2-pentanone (MIBK)	ND	1.04	0.1768	5.2	ug/Kg		04/26/18	LZ
<b>Acetone</b>	<b>63 J</b>	1.04	52	104	ug/Kg		04/26/18	LZ J
Allyl Chloride	ND	1.04	0.1456	5.2	ug/Kg		04/26/18	LZ
Benzene	ND	1.04	0.1872	5.2	ug/Kg		04/26/18	LZ
Bromobenzene	ND	1.04	0.312	5.2	ug/Kg		04/26/18	LZ
Bromochloromethane	ND	1.04	0.1872	5.2	ug/Kg		04/26/18	LZ
Bromodichloromethane	ND	1.04	0.208	5.2	ug/Kg		04/26/18	LZ
Bromoform	ND	1.04	0.1976	5.2	ug/Kg		04/26/18	LZ
Bromomethane	ND	1.04	0.2288	5.2	ug/Kg		04/26/18	LZ
Carbon Tetrachloride	ND	1.04	0.1872	5.2	ug/Kg		04/26/18	LZ
Chlorobenzene	ND	1.04	0.1872	5.2	ug/Kg		04/26/18	LZ
Chlorodibromomethane	ND	1.04	0.1976	5.2	ug/Kg		04/26/18	LZ
Chloroethane	ND	1.04	0.208	5.2	ug/Kg		04/26/18	LZ
Chloroform	ND	1.04	0.1768	5.2	ug/Kg		04/26/18	LZ
Chloromethane	ND	1.04	0.2184	5.2	ug/Kg		04/26/18	LZ
cis-1,2-Dichloroethene	ND	1.04	0.208	5.2	ug/Kg		04/26/18	LZ
cis-1,3-dichloropropene	ND	1.04	0.208	5.2	ug/Kg		04/26/18	LZ
cis-1,4-dichloro-2-butene	ND	1.04	0.208	5.2	ug/Kg		04/26/18	LZ
Dibromomethane	ND	1.04	0.2392	5.2	ug/Kg		04/26/18	LZ
Dichlorodifluoromethane	ND	1.04	0.2392	5.2	ug/Kg		04/26/18	LZ
Di-isopropyl ether (DIPE)	ND	1.04	0.2184	5.2	ug/Kg		04/26/18	LZ
Ethylbenzene	ND	1.04	0.26	5.2	ug/Kg		04/26/18	LZ
Ethyl-tertbutylether (ETBE)	ND	1.04	0.4368	5.2	ug/Kg		04/26/18	LZ
Hexachlorobutadiene	ND	1.04	0.3952	5.2	ug/Kg		04/26/18	LZ
Isopropylbenzene	ND	1.04	0.1768	5.2	ug/Kg		04/26/18	LZ
<b>m and p-Xylene</b>	<b>0.56 J</b>	1.04	0.2184	5.2	ug/Kg		04/26/18	LZ J
Methylene chloride	ND	1.04	0.2288	5.2	ug/Kg		04/26/18	LZ
Methyl-t-butyl Ether (MTBE)	ND	1.04	0.26	5.2	ug/Kg		04/26/18	LZ
Naphthalene	ND	1.04	0.2912	5.2	ug/Kg		04/26/18	LZ
N-butylbenzene	ND	1.04	0.1664	5.2	ug/Kg		04/26/18	LZ
N-propylbenzene	ND	1.04	0.1976	5.2	ug/Kg		04/26/18	LZ
<b>o-Xylene</b>	<b>0.23 J</b>	1.04	0.1352	5.2	ug/Kg		04/26/18	LZ J
Sec-butylbenzene	ND	1.04	0.3536	5.2	ug/Kg		04/26/18	LZ
Styrene	ND	1.04	0.2392	5.2	ug/Kg		04/26/18	LZ
t-Butyl alcohol (TBA)	ND	1.04	9.152	10.4	ug/Kg		04/26/18	LZ
Tert-amylmethylether (TAME)	ND	1.04	0.1976	5.2	ug/Kg		04/26/18	LZ
Tert-butylbenzene	ND	1.04	0.1872	5.2	ug/Kg		04/26/18	LZ
Tetrachloroethene	ND	1.04	0.208	5.2	ug/Kg		04/26/18	LZ
Toluene	ND	1.04	0.2392	5.2	ug/Kg		04/26/18	LZ
trans-1,2-dichloroethene	ND	1.04	0.2392	5.2	ug/Kg		04/26/18	LZ
trans-1,3-dichloropropene	ND	1.04	0.1456	5.2	ug/Kg		04/26/18	LZ
trans-1,4-dichloro-2-butene	ND	1.04	0.3952	5.2	ug/Kg		04/26/18	LZ
Trichloroethene	ND	1.04	0.4056	5.2	ug/Kg		04/26/18	LZ
Trichlorofluoromethane	ND	1.04	0.26	5.2	ug/Kg		04/26/18	LZ
Vinyl Chloride	ND	1.04	0.1872	5.2	ug/Kg		04/26/18	LZ
<b>Xylenes (Total)</b>	<b>0.79 J</b>	1.04	0.468	5.2	ug/Kg		04/26/18	LZ J
<u>Surrogate</u>		<u>% Recovery</u>		<u>Limits</u>		<u>Notes</u>		
1,2-Dichloroethane-d4 (SUR)		106		70-145				
4-Bromofluorobenzene (SUR)		106		70-145				
Dibromofluoromethane (SUR)		99		70-145				
Toluene-d8 (SUR)		97		70-145				

QC Batch ID: **QC1190547**

Analyst: lucy

Method: EPA 8260B

Matrix: Solid

Analyzed: 04/26/2018

Instrument: VOA-MS (group)

**Blank Summary**

Analyte	Blank Result	Units	MDL	RDL	Notes
<b>QC1190547MB1</b>					
1,1,1,2-Tetrachloroethane	ND	ug/Kg	0.24	5	
1,1,1-Trichloroethane	ND	ug/Kg	0.15	5	
1,1,1,2-Tetrachloroethane	ND	ug/Kg	0.29	5	
1,1,2-Trichloroethane	ND	ug/Kg	0.22	5	
1,1,2-Trichlorotrifluoroethane	ND	ug/Kg	0.74	5	
1,1-Dichloroethane	ND	ug/Kg	0.23	5	
1,1-Dichloroethene	ND	ug/Kg	0.18	5	
1,1-Dichloropropene	ND	ug/Kg	0.21	5	
1,2,3-Trichlorobenzene	ND	ug/Kg	0.18	5	
1,2,3-Trichloropropane	ND	ug/Kg	0.2	5	
1,2,4-Trichlorobenzene	ND	ug/Kg	0.33	5	
1,2,4-Trimethylbenzene	ND	ug/Kg	0.28	5	
1,2-Dibromo-3-chloropropane	ND	ug/Kg	0.2	5	
1,2-Dibromoethane	ND	ug/Kg	0.12	5	
1,2-Dichlorobenzene	ND	ug/Kg	0.18	5	
1,2-Dichloroethane	ND	ug/Kg	0.14	5	
1,2-Dichloropropane	ND	ug/Kg	0.34	5	
1,3,5-Trimethylbenzene	ND	ug/Kg	0.23	5	
1,3-Dichlorobenzene	ND	ug/Kg	0.21	5	
1,3-Dichloropropane	ND	ug/Kg	0.19	5	
1,4-Dichlorobenzene	ND	ug/Kg	0.24	5	
2,2-Dichloropropane	ND	ug/Kg	0.19	5	
2-Butanone (MEK)	ND	ug/Kg	0.72	100	
2-Chlorotoluene	ND	ug/Kg	0.25	5	
4-Chlorotoluene	ND	ug/Kg	0.22	5	
4-Isopropyltoluene	ND	ug/Kg	0.27	5	
4-Methyl-2-pentanone (MIBK)	ND	ug/Kg	0.17	5	
Acetone	ND	ug/Kg	50	100	
Allyl Chloride	ND	ug/Kg	0.14	5	
Benzene	ND	ug/Kg	0.18	5	
Bromobenzene	ND	ug/Kg	0.3	5	
Bromochloromethane	ND	ug/Kg	0.18	5	
Bromodichloromethane	ND	ug/Kg	0.2	5	
Bromoform	ND	ug/Kg	0.19	5	
Bromomethane	ND	ug/Kg	0.22	5	
Carbon Tetrachloride	ND	ug/Kg	0.18	5	
Chlorobenzene	ND	ug/Kg	0.18	5	
Chlorodibromomethane	ND	ug/Kg	0.19	5	
Chloroethane	ND	ug/Kg	0.2	5	
Chloroform	ND	ug/Kg	0.17	5	
Chloromethane	ND	ug/Kg	0.21	5	
cis-1,2-Dichloroethene	ND	ug/Kg	0.2	5	
cis-1,3-dichloropropene	ND	ug/Kg	0.2	5	
cis-1,4-dichloro-2-butene	ND	ug/Kg	0.2	5	
Dibromomethane	ND	ug/Kg	0.23	5	
Dichlorodifluoromethane	ND	ug/Kg	0.23	5	
Di-isopropyl ether (DIPE)	ND	ug/Kg	0.21	5	
Ethylbenzene	ND	ug/Kg	0.25	5	
Ethyl-terbutylether (ETBE)	ND	ug/Kg	0.42	5	
Hexachlorobutadiene	ND	ug/Kg	0.38	5	
Isopropylbenzene	ND	ug/Kg	0.17	5	

<b>QCBatchID:</b> QC1190547	<b>Analyst:</b> lucy	<b>Method:</b> EPA 8260B
<b>Matrix:</b> Solid	<b>Analyzed:</b> 04/26/2018	<b>Instrument:</b> VOA-MS (group)

Analyte	Blank Result	Units	MDL	RDL	Notes
<b>QC1190547MB1</b>					
m and p-Xylene	ND	ug/Kg	0.21	5	
Methylene chloride	ND	ug/Kg	0.22	5	
Methyl-t-butyl Ether (MTBE)	ND	ug/Kg	0.25	5	
Naphthalene	ND	ug/Kg	0.28	5	
N-butylbenzene	ND	ug/Kg	0.16	5	
N-propylbenzene	ND	ug/Kg	0.19	5	
o-Xylene	ND	ug/Kg	0.13	5	
Sec-butylbenzene	ND	ug/Kg	0.34	5	
Styrene	ND	ug/Kg	0.23	5	
t-Butyl alcohol (TBA)	ND	ug/Kg	8.8	10	
Tert-amylmethylether (TAME)	ND	ug/Kg	0.19	5	
Tert-butylbenzene	ND	ug/Kg	0.18	5	
Tetrachloroethene	ND	ug/Kg	0.2	5	
Toluene	ND	ug/Kg	0.23	5	
trans-1,2-dichloroethene	ND	ug/Kg	0.23	5	
trans-1,3-dichloropropene	ND	ug/Kg	0.14	5	
trans-1,4-dichloro-2-butene	ND	ug/Kg	0.38	5	
Trichloroethene	ND	ug/Kg	0.39	5	
Trichlorofluoromethane	ND	ug/Kg	0.25	5	
Vinyl Chloride	ND	ug/Kg	0.18	5	
Xylenes (Total)	ND	ug/Kg	0.45	5	

**Lab Control Spike/ Lab Control Spike Duplicate Summary**

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
<b>QC1190547LCS1</b>											
1,1-Dichloroethene	50		46		ug/Kg	92			59-172		
Benzene	50		47		ug/Kg	94			62-137		
Chlorobenzene	50		47		ug/Kg	94			60-133		
Methyl-t-butyl Ether (MTBE)	50		49		ug/Kg	98			62-137		
Toluene	50		44		ug/Kg	88			59-139		
Trichloroethene	50		50		ug/Kg	100			66-142		

**Matrix Spike/Matrix Spike Duplicate Summary**

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
<b>QC1190547MS1, QC1190547MSD1</b>												
<b>Source: 402090-001</b>												
1,1-Dichloroethene	ND	50	50	44	44	ug/Kg	88	88	0.0	59-172	22	
Benzene	ND	50	50	40	40	ug/Kg	80	80	0.0	62-137	24	
Chlorobenzene	ND	50	50	39	39	ug/Kg	78	78	0.0	60-133	24	
Methyl-t-butyl Ether (MTBE)	ND	50	50	38	42	ug/Kg	76	84	10.0	62-137	21	
Toluene	ND	50	50	38	37	ug/Kg	76	74	2.7	59-139	21	
Trichloroethene	ND	50	50	44	44	ug/Kg	88	88	0.0	66-142	21	

<b>QC Batch ID:</b> <u>QC1190566</u>	<b>Analyst:</b> bbuilt	<b>Method:</b> EPA 8015M
<b>Matrix:</b> Solid	<b>Analyzed:</b> 04/26/2018	<b>Instrument:</b> SVOA-GC (group)

**Blank Summary**

Analyte	Blank Result	Units	MDL	RDL	Notes
<b>QC1190566MB1</b>					
TPH (C13 to C22)	ND	mg/Kg	10	10	
TPH (C23 to C40)	ND	mg/Kg	10	10	
TPH (C23 to C44)	ND	mg/Kg	10	10	
TPH (C6 to C12)	ND	mg/Kg	10	10	

**Lab Control Spike/ Lab Control Spike Duplicate Summary**

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
<b>QC1190566LCS1</b>											
TPH (C13 to C22)	250		200		mg/Kg	80			70-130		

**Matrix Spike/Matrix Spike Duplicate Summary**

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
<b>QC1190566MS1, QC1190566MSD1</b>												
TPH (C13 to C22)	ND	250	250	200	210	mg/Kg	80	84	4.9	70-130	20	<b>Source: 402090-001</b>

<b>QCBatchID:</b> <u>QC1190570</u>	<b>Analyst:</b> dswafford	<b>Method:</b> EPA 6010B
<b>Matrix:</b> Solid	<b>Analyzed:</b> 04/27/2018	<b>Instrument:</b> AAICP (group)

### Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
<b>QC1190570MB1</b>					
<b>Antimony</b>	<b>1.15 J</b>	mg/Kg	0.37	3	
<b>Arsenic</b>	<b>0.73 J</b>	mg/Kg	0.36	1	
Barium	ND	mg/Kg	0.23	1	
Beryllium	ND	mg/Kg	0.17	0.5	
Cadmium	ND	mg/Kg	0.21	0.5	
Chromium	ND	mg/Kg	0.13	1	
Cobalt	ND	mg/Kg	0.19	0.5	
Copper	ND	mg/Kg	0.31	1	
Lead	ND	mg/Kg	0.32	1	
<b>Molybdenum</b>	<b>0.19 J</b>	mg/Kg	0.13	1	
Nickel	ND	mg/Kg	0.2	1.5	
<b>Selenium</b>	<b>1.20 J</b>	mg/Kg	0.72	3	
Silver	ND	mg/Kg	0.13	0.5	
Thallium	ND	mg/Kg	0.42	3	
Vanadium	ND	mg/Kg	0.37	0.5	
Zinc	ND	mg/Kg	0.28	5	

### Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
<b>QC1190570LCS1</b>											
Antimony	100		103		mg/Kg	103			80-120		
Arsenic	100		99.9		mg/Kg	100			80-120		
Barium	100		96.2		mg/Kg	96			80-120		
Beryllium	100		96.2		mg/Kg	96			80-120		
Cadmium	100		96.6		mg/Kg	97			80-120		
Chromium	100		94.5		mg/Kg	95			80-120		
Cobalt	100		98.9		mg/Kg	99			80-120		
Copper	100		96.0		mg/Kg	96			80-120		
Lead	100		99.3		mg/Kg	99			80-120		
Molybdenum	100		100		mg/Kg	100			80-120		
Nickel	100		98.4		mg/Kg	98			80-120		
Selenium	100		92.4		mg/Kg	92			80-120		
Silver	100		102		mg/Kg	102			80-120		
Thallium	100		99.2		mg/Kg	99			80-120		
Vanadium	100		98.2		mg/Kg	98			80-120		
Zinc	100		96.9		mg/Kg	97			80-120		

### Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
<b>QC1190570MS1, QC1190570MSD1</b>												
<b>Source: 402088-036</b>												
Antimony	ND	100	100	33.0	31.6	mg/Kg	33	32	4.3	75-125	20	M
Arsenic	9.81	100	100	117	117	mg/Kg	107	107	0.0	75-125	20	
Barium	119	100	100	222	220	mg/Kg	103	101	0.9	75-125	20	
Beryllium	ND	100	100	102	101	mg/Kg	102	101	1.0	75-125	20	
Cadmium	0.55	100	100	101	101	mg/Kg	100	100	0.0	75-125	20	
Chromium	19.6	100	100	121	120	mg/Kg	101	100	0.8	75-125	20	
Cobalt	10.2	100	100	111	111	mg/Kg	101	101	0.0	75-125	20	
Copper	23.4	100	100	124	124	mg/Kg	101	101	0.0	75-125	20	
Lead	25.8	100	100	123	123	mg/Kg	97	97	0.0	75-125	20	

**QCBatchID:** QC1190570**Analyst:** dswafford**Method:** EPA 6010B**Matrix:** Solid**Analyzed:** 04/27/2018**Instrument:** AAICP (group)

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
<b>QC1190570MS1, QC1190570MSD1</b>											<b>Source: 402088-036</b>	
Molybdenum	ND	100	100	102	102	mg/Kg	102	102	0.0	75-125	20	
Nickel	15.5	100	100	116	116	mg/Kg	101	101	0.0	75-125	20	
Selenium	ND	100	100	31.3	30.3	mg/Kg	31	30	3.2	75-125	20	M
Silver	0.17	100	100	107	107	mg/Kg	107	107	0.0	75-125	20	
Thallium	ND	100	100	90.9	91.8	mg/Kg	91	92	1.0	75-125	20	
Vanadium	36.6	100	100	142	141	mg/Kg	105	104	0.7	75-125	20	
Zinc	241	100	100	324	343	mg/Kg	83	102	5.7	75-125	20	



<b>QCBatchID:</b> <u>QC1190576</u>	<b>Analyst:</b> dswafford	<b>Method:</b> EPA 7471A
<b>Matrix:</b> Solid	<b>Analyzed:</b> 04/27/2018	<b>Instrument:</b> AAICP-HG1

**Blank Summary**

Analyte	Blank Result	Units	MDL	RDL	Notes
<b>QC1190576MB1</b>					
Mercury	ND	mg/Kg	0.02	0.14	

**Lab Control Spike/ Lab Control Spike Duplicate Summary**

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
<b>QC1190576LCS1</b>											
Mercury	0.83		0.80		mg/Kg	96			80-120		

**Matrix Spike/Matrix Spike Duplicate Summary**

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
		MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
<b>QC1190576MS1, QC1190576MSD1</b>												
Mercury	0.04	0.83	0.83	0.56	0.59	mg/Kg	63	66	5.2	75-125	20	M

**Source: 402014-001**

# Data Qualifiers and Definitions

## Qualifiers

<b>A</b>	See Report Comments.
<b>B</b>	Analyte was present in an associated method blank.
<b>B1</b>	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
<b>BQ1</b>	No valid test replicates. Sample Toxicity is possible. Best result was reported.
<b>BQ2</b>	No valid test replicates.
<b>BQ3</b>	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
<b>BQ4</b>	Minor Dissolved Oxygen loss was observed in the blank water check, however, the LCS was within criteria, validating the batch.
<b>C</b>	Possible laboratory contamination.
<b>D</b>	RPD was not within control limits. The sample data was reported without further clarification.
<b>D1</b>	Lesser amount of sample was used due to insufficient amount of sample supplied.
<b>D2</b>	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
<b>D3</b>	Insufficient sample was supplied for TCLP. Client was notified. TCLP was performed per the Client's instructions.
<b>DW</b>	Sample result is calculated on a dry weigh basis.
<b>E</b>	Concentration is estimated because it exceeds the quantification limits of the method.
<b>I</b>	The sample was read outside of the method required incubation period.
<b>J</b>	Reported value is estimated
<b>L</b>	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
<b>M</b>	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
<b>M1</b>	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
<b>M2</b>	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
<b>N1</b>	Sample chromatography does not match the specified TPH standard pattern.
<b>NC</b>	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
<b>P</b>	Sample was received without proper preservation according to EPA guidelines.
<b>P1</b>	Temperature of sample storage refrigerator was out of acceptance limits.
<b>P2</b>	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
<b>P3</b>	Per Client request, sample was composited for volatile analysis. Sample compositing for volatile analysis is not recommended due to potential loss of target analytes. Results may be biased low.
<b>Q1</b>	Analyte Calibration Verification exceeds criteria. The result is estimated.
<b>Q2</b>	Analyte calibration was not verified and the result was estimated.
<b>Q3</b>	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
<b>S</b>	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
<b>S1</b>	The associated surrogate recovery was out of control limits; result is estimated.
<b>S2</b>	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
<b>S3</b>	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
<b>T</b>	Sample was extracted/analyzed past the holding time.
<b>T1</b>	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
<b>T2</b>	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
<b>T3</b>	Sample received and analyzed out of hold time per client's request.
<b>T4</b>	Sample was analyzed out of hold time per client's request.
<b>T5</b>	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
<b>T6</b>	Hold time is indeterminable due to unspecified sampling time.
<b>T7</b>	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

## Definitions

<b>DF</b>	Dilution Factor
<b>MDL</b>	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
<b>ND</b>	Analyte was not detected or was less than the detection limit.
<b>NR</b>	Not Reported. See Report Comments.
<b>RDL</b>	Reporting Detection Limit
<b>TIC</b>	Tentatively Identified Compounds

<b>ENTHALPY ANALYTICAL, INC.</b>		<b>Chain of Custody Record</b>		<b>Turn Around Time (Rush by advanced notice only)</b>	
931 W. Barkley Ave, Orange, CA 92868		Lab No: <b>402091</b>		Standard:	
Phone: (714) 771-6900 Fax: (714) 771-9933		Page: <b>1</b> of <b>1</b>		4 Day: <input type="checkbox"/>	
Billing: Enthalpy - Orange		Matrix: A = Air DW = Drinking Water		1 Day: <input checked="" type="checkbox"/>	
c/o Montrose Environmental Group		FL = Food Liquid FS = Food Solid L = Liquid		3 Day: <input type="checkbox"/>	
P.O. Box 741137, Los Angeles, CA 90074-1137		PP = Pure Product S = Solid SeaW = Sea Water		Same Day: <input type="checkbox"/>	
		SW = Swab W = Water WP = Wipe O = Other		Preservatives: 1 = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 2 = HCl 3 = HNO <sub>3</sub>	
				4 = H <sub>2</sub> SO <sub>4</sub> 5 = NaOH 6 = Other	

<b>ENTHALPY ANALYTICAL</b>		<b>PROJECT INFORMATION</b>		<b>Test Instructions / Comments</b>	
Name: <b>Nonwalk HS PEA</b>		Analysis Request			
Number: <b>209800001</b>					
P.O. #: <b>11356 Leffingwell Rd</b>					
Address: <b>Nonwalk, CA</b>					
Global ID: <b>KMA dDWF</b>					
Sampled By: <b>KMA dDWF</b>					

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Company / Title	Date / Time
1 WUC-Bin	4/26/18	---	SOIL	8oz jar	ICE	NEM / Geologist	4/26/18 1520
2						FA	4/26/18 1520
3							
4							
5							
6							
7							
8							
9							
10							

<b>CUSTOMER INFORMATION</b>		<b>Signature</b>		<b>Print Name</b>	
Company: <b>Nimmo &amp; Moore</b>		<i>[Signature]</i>		<b>Kristina Hill</b>	
Report To: <b>Patrick Cullip</b>				<b>C. Hernandez</b>	
Email: <b>pcullip@nimmoandmoore.com</b>					
Address: <b>475 Goddard</b>					
<b>Irvine, CA</b>					
Phone: <b>949 753-7070</b>					
Fax: <b>949 753-7071</b>					
<b>1 Relinquished By:</b>					
<b>1 Received By:</b>					
<b>2 Relinquished By:</b>					
<b>2 Received By:</b>					
<b>3 Relinquished By:</b>					
<b>3 Received By:</b>					



# ENTHALPY ANALYTICAL

## SAMPLE ACCEPTANCE CHECKLIST

### Section 1

Client: Ninyo & Moore

Project: Norwalk HS PEA

Date Received: 4/26/18

Sampler's Name Present:  Yes  No

### Section 2

Sample(s) received in a cooler?  Yes, How many? 2  No (skip section 2) Sample Temp (°C) (No Cooler) : \_\_\_\_\_

Sample Temp (°C), One from each cooler: #1: 4.3 #2: 5.4 #3: \_\_\_\_\_ #4: \_\_\_\_\_

*(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)*

Shipping Information: \_\_\_\_\_

### Section 3

Was the cooler packed with:  Ice  Ice Packs  Bubble Wrap  Styrofoam  
 Paper  None  Other \_\_\_\_\_

Cooler Temp (°C): #1: 1.6 #2: 2.2 #3: \_\_\_\_\_ #4: \_\_\_\_\_

### Section 4

	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

### Section 5 Explanations/Comments

### Section 6

For discrepancies, how was the Project Manager notified?  Verbal PM Initials: \_\_\_\_\_ Date/Time \_\_\_\_\_

Email (email sent to/on): \_\_\_\_\_ / \_\_\_\_\_

Project Manager's response:

Completed By:  Date: 4/28/18



# Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

## FAX

### INCOMPLETE FILE TRANSMITTAL

<b>TO:</b> Jonna Murray	<b>LOG NO.:</b> 5123189039
<b>FAX:</b> 209-466-1067	<b>File Received:</b> 6/4/2018
<b>From:</b> Special Waste Dept.	<b>Response Date:</b> 6/4/2018
<b>Re:</b> Norwalk La Mirada Unified School District / SOil	

SECTION I	SECTION II	SECTION III	SECTION IV	SECTION V	SECTION VI
<input type="checkbox"/> DisposalFacility	<input type="checkbox"/> TransporterName	<input type="checkbox"/> NameOfWaste	<input type="checkbox"/> USEPA	<input type="checkbox"/> CharacteristicComponents	<input type="checkbox"/> GenAuthSignature
<input type="checkbox"/> GeneratorName	<input type="checkbox"/> TransporterSiteAddress	<input checked="" type="checkbox"/> ProcessGeneratingWaste	<input type="checkbox"/> SampleDate	<input type="checkbox"/> FreeLiquids	<input type="checkbox"/> GenCoName
<input type="checkbox"/> GeneratorSiteAddress	<input type="checkbox"/> TransporterCityStateZip	<input type="checkbox"/> TypeOfWaste	<input type="checkbox"/> CompositeGrab	<input type="checkbox"/> YesNo	<input type="checkbox"/> NoStateLetter
<input type="checkbox"/> GeneratorCityStateZip	<input type="checkbox"/> TransporterMailingAddress	<input type="checkbox"/> PhysicalState	<input type="checkbox"/> SampleID	<input type="checkbox"/> pH_Flash	<input type="checkbox"/> Name_Title
<input type="checkbox"/> GeneratorMailingAddress	<input type="checkbox"/> TransporterContactName	<input type="checkbox"/> MethodOfShipment	<input type="checkbox"/> SignatureDate		
<input type="checkbox"/> GeneratorContactName	<input type="checkbox"/> TransporterTelFax	<input type="checkbox"/> EstimatedAnnualVolume			
<input type="checkbox"/> GeneratorTelFax	<input type="checkbox"/> Frequency				
<input type="checkbox"/> GeneratorStateID	<input type="checkbox"/> DisposalConsideration				
<input type="checkbox"/> WasteCodeTexas					

ANALYTICALS	TCLP TOTAL METALS	TCLP VOLATILES	TCLP SEMI-VOLATILES	PESTICIDES / HERBICIDE	
<input type="checkbox"/> TotalCyanide	<input type="checkbox"/> Arsenic	<input type="checkbox"/> Benzene	<input type="checkbox"/> Cresols	<input type="checkbox"/> Chlordane	<input type="checkbox"/> LabLetterhead
<input type="checkbox"/> ReactiveCyanide	<input type="checkbox"/> Barium	<input type="checkbox"/> CarbonTetrachloride	<input type="checkbox"/> DichlorobenzeneOne	<input type="checkbox"/> Endrin	<input type="checkbox"/> ChainOfCustody
<input type="checkbox"/> TotalSulfide	<input type="checkbox"/> Cadmium	<input type="checkbox"/> Chlorobenzene	<input type="checkbox"/> DinitrotolueneTwo	<input type="checkbox"/> Heptachlor	<input type="checkbox"/> NoLabSignature
<input type="checkbox"/> ReactiveSulfide	<input type="checkbox"/> Chromium	<input type="checkbox"/> Chloroform	<input type="checkbox"/> Hexachlorobenzene	<input type="checkbox"/> HeptachlorEpoxide	<input type="checkbox"/> ReportOneYearOldPlus
<input type="checkbox"/> TotalPCB	<input type="checkbox"/> Copper	<input type="checkbox"/> DichloroethaneOne	<input type="checkbox"/> Nitrobenzene	<input type="checkbox"/> Lindane	<input type="checkbox"/> NoThirdPartyLab
<input type="checkbox"/> TOX_EOX	<input type="checkbox"/> Lead	<input type="checkbox"/> DichloroethyleneTwo	<input type="checkbox"/> Pentachlorophenol	<input type="checkbox"/> Methoxychlor	<input type="checkbox"/> MissingReportPages
<input type="checkbox"/> Phenols	<input type="checkbox"/> Mercury	<input type="checkbox"/> MethylEthylKetone	<input type="checkbox"/> Pyridine	<input type="checkbox"/> Toxaphene	<input type="checkbox"/> MissingMSDSPages
<input type="checkbox"/> FlashPoint	<input type="checkbox"/> Selenium	<input type="checkbox"/> Tetrachloroethylene	<input type="checkbox"/> TrichlorophenolFive	<input type="checkbox"/> TwoFourD	<input type="checkbox"/> TotalSulfates
<input type="checkbox"/> pH	<input type="checkbox"/> Silver	<input type="checkbox"/> Trichlorethylene	<input type="checkbox"/> TrichlorphenolSix	<input type="checkbox"/> TwoFourFiveTP	<input type="checkbox"/> TotalSulfur
<input type="checkbox"/> PaintFilter	<input type="checkbox"/> Zinc	<input type="checkbox"/> VinylChloride	<input type="checkbox"/> WrongProfile		
<input type="checkbox"/> TPH					
<input type="checkbox"/> BTEX	<input checked="" type="checkbox"/> GeneratorIncomplete				

**Notes:**  
 Please have the generator provide more detail in the process generating waste: why is the soil being excavated? What is being remediated? Was there a spill or release? Please have the generator explain.



Sunshine Canyon

Requested Disposal Facility: --- Select a Facility ---

Waste Profile #

5123 18 9039

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

Landfill

Sales Rep #:

**I. Generator Information**

Generator Name: NORWALK LA MIRADA UNIFIED SCHOOL DISTRICT			
Generator Site Address: 11356 LEFFINGWELL ROAD			
City: NORWALK	County: LA	State: California	Zip: 90650
State ID/Reg No:	State Approval/Waste Code: (if applicable)		NAICS #:
Generator Mailing Address (if different): <input checked="" type="checkbox"/> 12820 PIONEER BLVD			
City: NORWALK	County: LA	State: California	Zip: 90650
Generator Contact Name: MS. EDITH C. FLORENCE			Email:
Phone Number: (562) 868-9014	Ext:	Fax Number:	

**II. Billing Information**

Bill To: ENVIRONMENTAL MANAGEMENT TECHNOLOGIES	Contact Name: MARIA		
Billing Address: 1456 S. GAGE STREET	Email: MARIA@EMT4ENV.COM		
City: SAN BERNARDINO	State: CA	Zip: 92408	Phone: (800) 579-6834

**III. Waste Stream Information**

Name of Waste: SOIL	
Process Generating Waste: EXCAVATION/REMEDICATION	
Type of Waste:	<input type="checkbox"/> INDUSTRIAL PROCESS WASTE <input checked="" type="checkbox"/> POLLUTION CONTROL WASTE
Physical State:	<input checked="" type="checkbox"/> SOLID <input type="checkbox"/> SEMI-SOLID <input type="checkbox"/> POWDER <input type="checkbox"/> LIQUID
Method of Shipment:	<input checked="" type="checkbox"/> BULK <input type="checkbox"/> DRUM <input type="checkbox"/> BAGGED <input type="checkbox"/> OTHER:
Estimated Annual Volume:	5 Cubic Yards
Frequency:	<input checked="" type="checkbox"/> ONE TIME <input type="checkbox"/> ONGOING
Disposal Consideration:	<input checked="" type="checkbox"/> LANDFILL <input type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> BIOREMEDIATION

**IV. Representative Sample Certification**

NO SAMPLE TAKEN

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	<input checked="" type="checkbox"/> YES or <input type="checkbox"/> NO
Type of Sample:	<input checked="" type="checkbox"/> COMPOSITE SAMPLE <input type="checkbox"/> GRAB SAMPLE
Sample Date:	04/26/2018
Sample ID Numbers:	402091-001



Waste Profile #

**V. Physical Characteristics of Waste**

Characteristic Components	% by Weight (range)
1. SOIL (PLEASE SEE ATTACHED ANALYSIS)	100%
2.	
3.	
4.	
5.	

Color BROWN	Odor (describe) NONE	Does Waste Contain Free Liquids? <input type="checkbox"/> YES or <input checked="" type="checkbox"/> NO	% Solids 100	pH: N/A	Flash Point N/A °F
----------------	-------------------------	--	-----------------	------------	-----------------------

**Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Chain of Custody and Required Parameters Provided for this Profile**

Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm)[reference 40 CFR 261.23(a)(5)]?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste a reactive or heat generating waste?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does the waste contain sulfur or sulfur by-products?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste generated at a Federal Superfund Clean Up Site?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste from a TSD facility, TSD like facility or consolidator?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No

**VI. Certification**

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services Inc.

Edith C Florence, Director  
Authorized Representative Name And Title (Type or Print)

NLMUSD FACILITIES PLANNING & CONSTRUCTION  
Company Name

*Edith C Florence*  
Authorized Representative Signature

5/17/18  
Date



# Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

Waste Profile #  
51231617062

Expiration Date  
5/31/2018

### I. Decision Request:

Initial  Recertification  Change

Disposal Facility: 5123 - Sunshine Canyon Landfill

Generator Name: United States Coast Guard

Generator Site Address: 1001 South Seaside Ave

City: San Pedro

County:

State: CA

Zip:

Name of Waste: Weathered Wood

Estimated Annual Volume: 150 Tons

### II. Special Waste Department Decision: Approved Rejected

Management Method(s):  Landfill  Solidification  Bioremediation  Transfer Facility

Problematic Special Waste according to Republic?  Yes  No

If yes, which one? \_\_\_\_\_

Approved by Special Waste Review Committee?  Yes  No  Not Applicable

### Precautions, Conditions or Limitations on Approval

Per the Special Waste Profile Change Form dated January 16, 2018, the generator has requested a time extension until MAY 31, 2018 in order to complete disposal of the profiled waste.

Special Waste Analyst Signature: *Joseph M. Sorokach*

Date: 1/18/2018

Name (Printed): Joseph Sorokach

### III. Facility Decision:

Approved  Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: *Chris Coyler*

Date: 1/18/2018

Name (Printed): Chris Coyler





## SPECIAL WASTE PROFILE - RECERTIFICATION

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

Disposal Facility: 5123 Sunshine Canyon LF CA

Waste Profile #
<del>5124 16 17062</del>
5123 16 17062

### I. Generator Information

Generator Name: UNITED STATES COAST GUARD			
Generator Site Address: 1001 SOUTH SEASIDE AVENUE			
City: SAN PEDRO	County: L.A.	State: California	Zip: 90731
State ID/Reg No: CA9690308730	State Approval/Waste Code:		NAICS #:
Generator Mailing Address (if different): <input type="checkbox"/> 1001 SOUTH SEASIDE AVENUE			
City: SAN PEDRO	County: L.A.	State: California	Zip: 90731
Generator Contact Name: PAUL L. NELSON		Email: Paul.L.Nelson@USCG.MIL	
Phone Number: (310) 521-6020		Fax Number:	

### II. Waste Stream Information

Name of Waste: WEATHERED WOOD	
Check Section 1 OR Section 2 below:	
1. <input type="checkbox"/>	<p><u>There has been a change</u> in the characteristics of the waste stream due to the following:</p> <ul style="list-style-type: none"> <li>a. Change of a raw material used in the waste generating process.</li> <li>b. Change in the waste generating process itself.</li> <li>c. Change in a physical characteristic of the waste.</li> <li>d. New information has been documented concerning the human health effects of exposure to the waste.</li> </ul> <p><b>If any of these changes have occurred, a new laboratory analysis and profile sheet must be completed. Attach copies of the new chemical analysis and new Special Waste Profile with the appropriate signatures.</b></p>
2. <input checked="" type="checkbox"/>	<p><u>There have been no changes</u> that would alter the physical characteristics of the special waste stream. Updated analytical may be required.</p>

### III. Representative Sample Certification

No Sample Taken

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	<input type="checkbox"/> YES or <input type="checkbox"/> NO
Type of Sample: <input type="checkbox"/> COMPOSITE SAMPLE <input type="checkbox"/> GRAB SAMPLE	
Sample Date:	
Sample ID Numbers:	

### IV. Certification

I hereby certify that to the best of my knowledge and belief, the information contained in the Special Waste Profile - Recertification and the information in the Original Special Waste Profile is true, complete and accurate.

<p><u>Paul Nelson Asst facility Eng.</u> Authorized Representative Name And Title (Printed)</p> <p> Authorized Representative Signature</p>	<p><u>US Coast Guard</u> Company Name</p> <p><u>1-16-18</u> Date</p>
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## SPECIAL WASTE PROFILE – CHANGE

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

### I. Generator Information

This form may be used to request changes to an existing Special Waste Profile.			
Generator Name:	UNITED STATES COAST GUARD		
Name of Waste:	WEATHERED WOOD	Waste Profile #	51231617062

### II. Purpose of Change

Description of Change Requested and Reason for Change: (Provide detailed explanation of why the change is requested following the appropriate checked box below).	
<input type="checkbox"/> Volume Increase By:	Is the analysis originally submitted with the Profile representative of the volume Increase? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, complete Section III, below.
<input checked="" type="checkbox"/> Extend Expiration Date:	Delayed of project completion due to temporary ocean restrictions applied to the waters where working <u>5/31/18</u>
<input type="checkbox"/> Change or Add Landfill:	
<input type="checkbox"/> Add Additional Laboratory Reports:	<b>Complete Representative Sample Certification, Section III, below.</b>
<input type="checkbox"/> Add MSDS:	
<input type="checkbox"/> Generator Name Change:	
<input type="checkbox"/> Other:	

### III. Representative Sample Certification

No Sample Taken

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	<input type="checkbox"/> YES or <input type="checkbox"/> NO
Type of Sample: <input type="checkbox"/> COMPOSITE SAMPLE <input type="checkbox"/> GRAB SAMPLE	
Sample Date: Same than previous application	
Sample ID Numbers:	

### IV. Certification

I hereby certify that the waste and the process generating the waste are unchanged and are accurately represented in the original profile.

<div style="background-color: yellow; padding: 5px; margin-bottom: 5px;">Paul Nelson Asst Facility Eng.</div> Authorized Representative Name and Title (Printed)	<div style="background-color: yellow; padding: 5px; margin-bottom: 5px;">US Coast Guard</div> Company Name
<div style="text-align: center; margin-bottom: 5px;"> </div> Authorized Representative Signature	<div style="background-color: yellow; padding: 5px; margin-bottom: 5px; text-align: center;">1-16-18</div> Date



Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

Waste Profile # 51231621434

Expiration Date 12/13/2020

I. Decision Request:

Initial Recertification Change

Disposal Facility: 5123 - Sunshine Canyon Landfill

Generator Name: Jushi USA Fiberglass Co LTD

Generator Site Address: 4982 4th St

City: Irwindale

County:

State: CA

Zip:

Name of Waste: Fiberglass

Estimated Annual Volume: 40 Tons

II. Special Waste Department Decision: Approved Rejected

Management Method(s): Landfill Solidification Bioremediation Transfer Facility

Problematic Special Waste according to Republic? Yes No

If yes, which one?

Approved by Special Waste Review Committee? Yes No Not Applicable

Precautions, Conditions or Limitations on Approval

Per the Special Waste Change form dated 6-29-2018, the profile frequency was changed from one time to ongoing.

Special Waste Analyst Signature:

Date: 6/29/2018

Name (Printed): Suzanne Glass

III. Facility Decision:

Approved Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee:

Date: 6/29/2018

Name (Printed):

Chris Coyle



## SPECIAL WASTE PROFILE - RECERTIFICATION

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

Disposal Facility: 5123 Sunshine Canyon LF CA

Waste Profile #
5123-16-21434
<del>51271621434</del>

HL

### I. Generator Information

Generator Name: JUSHI USA Fiberglass Co., Ltd.			
Generator Site Address: 4982 4th St.			
City: Irwindale	County: Los Angeles	State: California	Zip: 91706
State ID/Reg No:	State Approval/Waste Code:		NAICS #:
Generator Mailing Address (if different): <input type="checkbox"/> 4982 4th St.			
City: Irwindale	County:	State: California	Zip: 91706
Generator Contact Name: Hanchen Liu		Email: louis.liu@jushiusa.com	
Phone Number: (906) 370-9955		Fax Number:	

### II. Waste Stream Information

Name of Waste: Fiberglass	
Check Section 1 OR Section 2 below:	
1. <input type="checkbox"/>	<p>There has been a change in the characteristics of the waste stream due to the following:</p> <ul style="list-style-type: none"> <li>a. Change of a raw material used in the waste generating process.</li> <li>b. Change in the waste generating process itself.</li> <li>c. Change in a physical characteristic of the waste.</li> <li>d. New information has been documented concerning the human health effects of exposure to the waste.</li> </ul> <p><b>If any of these changes have occurred, a new laboratory analysis and profile sheet must be completed. Attach copies of the new chemical analysis and new Special Waste Profile with the appropriate signatures.</b></p>
2. <input checked="" type="checkbox"/>	<p>There have been no changes that would alter the physical characteristics of the special waste stream. Updated analytical may be required.</p>

### III. Representative Sample Certification

No Sample Taken

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	<input type="checkbox"/> YES or <input type="checkbox"/> NO
Type of Sample: <input type="checkbox"/> COMPOSITE SAMPLE <input type="checkbox"/> GRAB SAMPLE	
Sample Date:	
Sample ID Numbers:	

### IV. Certification

I hereby certify that to the best of my knowledge and belief, the information contained in the Special Waste Profile - Recertification and the information in the Original Special Waste Profile is true, complete and accurate.

HANCHEN LIU - Director of Business Growth Initiatives  
 Authorized Representative Name And Title (Printed)

Jushi USA Fiberglass Co., Ltd.  
 Company Name

*Hanchen Liu*

06/29/2018

Authorized Representative Signature

Date



## SPECIAL WASTE PROFILE – CHANGE

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

### I. Generator Information

This form may be used to request changes to an existing Special Waste Profile.			
Generator Name:	Jushi USA Fiberglass Co., Ltd.		5123-16-21434
Name of Waste:	Fiberglass	Waste Profile #	<del>5127-16-21434</del>

### II. Purpose of Change

Description of Change Requested and Reason for Change: (Provide detailed explanation of why the change is requested following the appropriate checked box below).	
<input type="checkbox"/> Volume Increase By:	Is the analysis originally submitted with the Profile representative of the volume Increase? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, complete Section III, below.
<input type="checkbox"/> Extend Expiration Date:	
<input type="checkbox"/> Change or Add Landfill:	
<input type="checkbox"/> Add Additional Laboratory Reports:	<b>Complete Representative Sample Certification, Section III, below.</b>
<input type="checkbox"/> Add MSDS:	
<input type="checkbox"/> Generator Name Change:	
<input checked="" type="checkbox"/> Other:	Complete and update the old profile, and it is an ongoing profile.  <i>Hanchen Liu</i>

### III. Representative Sample Certification

No Sample Taken

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	<input type="checkbox"/> YES or <input type="checkbox"/> NO
Type of Sample: <input type="checkbox"/> COMPOSITE SAMPLE <input type="checkbox"/> GRAB SAMPLE	
Sample Date:	
Sample ID Numbers:	

### IV. Certification

I hereby certify that the waste and the process generating the waste are unchanged and are accurately represented in the original profile.	
HANCHEN LIU - Director of Business Growth Initiatives <hr/> Authorized Representative Name and Title (Printed)  <hr/> Authorized Representative Signature	Jushi USA Fiberglass Co., Ltd. <hr/> Company Name 06/29/2018 <hr/> Date



# Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

Waste Profile #  
51231621434

Expiration Date  
12/13/2017

**I. Decision Request:**

Initial     Recertification     Change

Disposal Facility: 5123 - Sunshine Canyon Landfill

Generator Name: Jushi USA Fiberglass Co LTD

Generator Site Address: 4982 4th St

City: Irwindale

County:

State: CA

Zip:

Name of Waste: Fiberglass

Estimated Annual Volume: 40 Tons

**II. Special Waste Department Decision:**     Approved     Rejected

Management Method(s):     Landfill     Solidification     Bioremediation     Transfer Facility

Problematic Special Waste according to Republic?     Yes     No

If yes, which one? \_\_\_\_\_

Approved by Special Waste Review Committee?     Yes     No     Not Applicable

### Precautions, Conditions or Limitations on Approval

Special Waste Analyst Signature: \_\_\_\_\_

Name (Printed): Suzanne Glass

Date: 12/13/2016

**III. Facility Decision:**

Approved     Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: \_\_\_\_\_

Name (Printed): \_\_\_\_\_

Date: 12/13/2016



Requested Disposal Facility: 5123 Sunshine Canyon LF CA

Waste Profile #  5123 16 21434
Sales Rep #: 585 - Ed Antolin

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

**I. Generator Information**

Generator Name: JUSHI USA FIBERGLASS CO., LTD.			
Generator Site Address: 4982 4TH ST.			
City: IRWINDALE	County: LOS ANGELES	State: California	Zip: 91706
State ID/Reg No:	State Approval/Waste Code:	(if applicable)	NAICS # :
Generator Mailing Address (if different): 4982 4TH ST.			
City: IRWINDALE	County:	State: California	Zip: 91706
Generator Contact Name: Hanhcen Liu		Email: louis.liu@jushiusa.com	
Phone Number: (626) 960-2038	Ext:	Fax Number: (626) 960-2037	

**II. Billing Information**

Bill To: JUSHI USA FIBERGLASS CO., LTD		Contact Name: Sharon Zhong	
Billing Address: 4982 TH ST.		Email: Sharon.zhong@jushiusa.com	
City: IRWINDALE	State: CA	Zip: 91706	Phone: (626) 960-2038

**III. Waste Stream Information**

Name of Waste: FIBERGLASS	
Process Generating Waste: Non-moving B grade products	
Type of Waste:	<input checked="" type="checkbox"/> INDUSTRIAL PROCESS WASTE <input type="checkbox"/> POLLUTION CONTROL WASTE
Physical State:	<input checked="" type="checkbox"/> SOLID <input type="checkbox"/> SEMI-SOLID <input type="checkbox"/> POWDER <input type="checkbox"/> LIQUID
Method of Shipment:	<input type="checkbox"/> BULK <input type="checkbox"/> DRUM <input type="checkbox"/> BAGGED <input checked="" type="checkbox"/> OTHER: PALLET
Estimated Annual Volume:	40 Tons
Frequency:	<input checked="" type="checkbox"/> ONE TIME <input type="checkbox"/> ONGOING
Disposal Consideration:	<input checked="" type="checkbox"/> LANDFILL <input type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> BIOREMEDIATION

**IV. Representative Sample Certification**

NO SAMPLE TAKEN

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	<input type="checkbox"/> YES or <input type="checkbox"/> NO
Type of Sample: <input type="checkbox"/> COMPOSITE SAMPLE <input type="checkbox"/> GRAB SAMPLE	
Sample Date:	
Sample ID Numbers:	

Waste Profile #
51231621434

**V. Physical Characteristics of Waste**

Characteristic Components		% by Weight (range)			
1. Direct Roving		100%			
2. Roving goods					
3.					
4.					
5.					
Color	Odor (describe)	Does Waste Contain Free Liquids?	% Solids	pH:	Flash Point
White	NA	<input type="checkbox"/> YES or <input checked="" type="checkbox"/> NO	100	NA	NA °F

**Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Chain of Custody and Required Parameters Provided for this Profile**

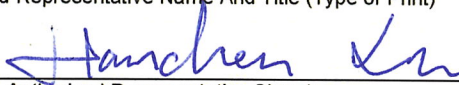
Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm)[reference 40 CFR 261.23(a)(5)]?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste a reactive or heat generating waste?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does the waste contain sulfur or sulfur by-products?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste generated at a Federal Superfund Clean Up Site?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste from a TSD facility, TSD like facility or consolidator?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No

**VI. Certification**

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services Inc.

HANCHEN LIU <hr/> Authorized Representative Name And Title (Type or Print)	JUSHI USA FIBERGLASS CO., LTD. <hr/> Company Name
 <hr/> Authorized Representative Signature	11/18/2016 <hr/> Date





# Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

Waste Profile #  
51231714631

Expiration Date  
4/30/2018

### I. Decision Request:

Initial  Recertification  Change

Disposal Facility: 5123 - Sunshine Canyon Landfill

Generator Name: Port of Long Beach

Generator Site Address: Port of Long Beach Berth D48

City: Long Beach

County:

State: CA

Zip:

Name of Waste: Weathered Wood

Estimated Annual Volume: 15 Tons

### II. Special Waste Department Decision: Approved Rejected

Management Method(s):  Landfill  Solidification  Bioremediation  Transfer Facility

Problematic Special Waste according to Republic?  Yes  No


If yes, which one?

Approved by Special Waste Review Committee?  Yes  No  Not Applicable

### Precautions, Conditions or Limitations on Approval

Disposal of Weathered Wood must be in accordance with California Health and Safety Code (HSC) Sections 25150.7 and 25150.8.

Per the Special Waste Profile Change Form dated February 20, 2018, the generator has requested a time extension until APRIL 30, 2018 in order to complete disposal of the profiled waste.


Special Waste Analyst Signature:   
Date: 2/21/2018

Name (Printed): Joseph Sorokach

### III. Facility Decision: Approved Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee:   
Date: 2/21/2018

Name (Printed): Chris Coyle



## SPECIAL WASTE PROFILE - RECERTIFICATION

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

Disposal Facility: <u>5123 Sunshine Canyon LF CA</u>	Waste Profile # <b>5123 17 14631</b>
--	---

### I. Generator Information

Generator Name: Port Of Long Beach			
Generator Site Address: Port of Long Beach Berth D-48			
City: Long Beach	County: Los Angeles	State: California	Zip: 90813
State ID/Reg No: N/a	State Approval/Waste Code:		NAICS #:
Generator Mailing Address (if different): <input type="checkbox"/> Port of Long Beach Berth D-48			
City: Long Beach	County:	State: California	Zip: 90813
Generator Contact Name: Stuart Berge			Email: TBD
Phone Number: (562) 283-7100		Fax Number:	

### II. Waste Stream Information

Name of Waste: Weathered Wood	
Check Section 1 OR Section 2 below:	
1. <input type="checkbox"/>	There has been a change in the characteristics of the waste stream due to the following: <ul style="list-style-type: none"> <li>a. Change of a raw material used in the waste generating process.</li> <li>b. Change in the waste generating process itself.</li> <li>c. Change in a physical characteristic of the waste.</li> <li>d. New information has been documented concerning the human health effects of exposure to the waste.</li> </ul> <p><b>If any of these changes have occurred, a new laboratory analysis and profile sheet must be completed. Attach copies of the new chemical analysis and new Special Waste Profile with the appropriate signatures.</b></p>
2. <input checked="" type="checkbox"/>	There have been no changes that would alter the physical characteristics of the special waste stream. Updated analytical may be required.

### III. Representative Sample Certification

No Sample Taken

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	<input type="checkbox"/> YES or <input type="checkbox"/> NO
Type of Sample: <input type="checkbox"/> COMPOSITE SAMPLE <input type="checkbox"/> GRAB SAMPLE	
Sample Date:	
Sample ID Numbers:	

### IV. Certification

I hereby certify that to the best of my knowledge and belief, the information contained in the Special Waste Profile - Recertification and the information in the Original Special Waste Profile is true, complete and accurate.

<div style="background-color: yellow; padding: 5px; display: inline-block;">STUART BERGE ZBUAUF PO CB</div> Authorized Representative Name And Title (Printed)	Port of Long Beach Company Name
 Authorized Representative Signature	<div style="background-color: yellow; padding: 5px; display: inline-block;">2/20/18</div> Date



### SPECIAL WASTE PROFILE – CHANGE

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

#### I. Generator Information

This form may be used to request changes to an existing Special Waste Profile.			
Generator Name:	Port Of Long Beach		
Name of Waste:	Weathered Wood	Waste Profile #	5123 17 14631

#### II. Purpose of Change

Description of Change Requested and Reason for Change: (Provide detailed explanation of why the change is requested following the appropriate checked box below).

Volume Increase By:  
Is the analysis originally submitted with the Profile representative of the volume Increase?  Yes  No If No, complete Section III, below.

Extend Expiration Date: 04-30-18

Change or Add Landfill:

Add Additional Laboratory Reports: **Complete Representative Sample Certification, Section III, below.**

Add MSDS:

Generator Name Change:

Other: Project was extended beyond original approved expiration of profile. Material was not brought in before expiration of approval. Need more Time.

#### III. Representative Sample Certification

No Sample Taken

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?  YES or  NO

Type of Sample:  COMPOSITE SAMPLE  GRAB SAMPLE

Sample Date:

Sample ID Numbers:

#### IV. Certification

I hereby certify that the waste and the process generating the waste are unchanged and are accurately represented in the original profile.

STUART BERGER BEHALF PO LB

Authorized Representative Name and Title (Printed)

*[Handwritten Signature]*

Authorized Representative Signature

Port Of Long Beach

Company Name

2/20/18

Date



# Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 51231716986	Expiration Date 6/30/2018	
I. Decision Request:	<input type="checkbox"/> Initial <input checked="" type="checkbox"/> Recertification <input checked="" type="checkbox"/> Change		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: City of Long Beach			
Generator Site Address: Leeway Sailing Pier 5437 E Ovcan Blvd			
City: Long Beach	County:	State: CA	Zip:
Name of Waste: Weathered Wood			
Estimated Annual Volume: 50 Tons			

II. Special Waste Department Decision:  Approved  Rejected

Management Method(s):  Landfill  Solidification  Bioremediation  Transfer Facility

Problematic Special Waste according to Republic?  Yes  No

If yes, which one? \_\_\_\_\_

Approved by Special Waste Review Committee?  Yes  No  Not Applicable

### Precautions, Conditions or Limitations on Approval

Disposal of Weathered Wood must be in accordance with California Health and Safety Code (HSC) Sections 25150.7 and 25150.8 (for TWW) or in accordance with HSC Section 25143.5 (for TWW-Utility).

Per the Special Waste Profile Change Form dated April 5, 2018, the generator has requested a time extension to complete disposal of the profiled waste.

Special Waste Analyst Signature: Joseph M. Sorokach  
Date: 4/6/2018

Name (Printed): Joseph Sorokach

III. Facility Decision:  Approved  Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: Chris Coyle  
Date: 4/6/2018

Name (Printed): Chris Coyle



## SPECIAL WASTE PROFILE - RECERTIFICATION

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

Disposal Facility: 5123 Sunshine Canyon LF CA

Waste Profile #
5123 17 16986

### I. Generator Information

Generator Name: City of Long Beach			
Generator Site Address: Leeway Sailing Pier 54337 E. Ocean Blvd. Long Beach, CA 90802			
City: Long Beach	County: Los Angeles	State: California	Zip: 90802
State ID/Reg No: 95-600733	State Approval/Waste Code:		NAICS #: 614
Generator Mailing Address (if different): <input type="checkbox"/> Leeway Sailing Pier 54337 E. Ocean Blvd. Long Beach, CA 90802			
City: Long Beach	County:	State: California	Zip: 90802
Generator Contact Name: Robert Fiege		Email: Robert.Fiege@longbeach.gov	
Phone Number: (562) 342-8814		Fax Number:	

### II. Waste Stream Information

Name of Waste: Weathered Wood	
Check Section 1 OR Section 2 below:	
1. <input type="checkbox"/>	<p><u>There has been a change</u> in the characteristics of the waste stream due to the following:</p> <ul style="list-style-type: none"> <li>a. Change of a raw material used in the waste generating process.</li> <li>b. Change in the waste generating process itself.</li> <li>c. Change in a physical characteristic of the waste.</li> <li>d. New information has been documented concerning the human health effects of exposure to the waste.</li> </ul> <p><b>If any of these changes have occurred, a new laboratory analysis and profile sheet must be completed. Attach copies of the new chemical analysis and new Special Waste Profile with the appropriate signatures.</b></p>
2. <input checked="" type="checkbox"/>	<p><u>There have been no changes</u> that would alter the physical characteristics of the special waste stream. Updated analytical may be required.</p>

### III. Representative Sample Certification

No Sample Taken

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	<input type="checkbox"/> YES or <input type="checkbox"/> NO
Type of Sample: <input type="checkbox"/> COMPOSITE SAMPLE <input type="checkbox"/> GRAB SAMPLE	
Sample Date:	
Sample ID Numbers:	

### IV. Certification

I hereby certify that to the best of my knowledge and belief, the information contained in the Special Waste Profile - Recertification and the information in the Original Special Waste Profile is true, complete and accurate.	
Robert Fiege, Construction Inspector/Public Works	City Of Long Beach
Authorized Representative Name And Title (Printed)	Company Name
<u>Robert Fiege</u>	[Redacted]
Authorized Representative Signature	Date
	4/5/18



## SPECIAL WASTE PROFILE – CHANGE

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

### I. Generator Information

This form may be used to request changes to an existing Special Waste Profile.			
Generator Name:	City of Long Beach		
Name of Waste:	Weathered Wood	Waste Profile #	5123 17 16986

### II. Purpose of Change

Description of Change Requested and Reason for Change: (Provide detailed explanation of why the change is requested following the appropriate checked box below).	
<input type="checkbox"/> Volume Increase By:	Is the analysis originally submitted with the Profile representative of the volume Increase? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, complete Section III, below.
<input checked="" type="checkbox"/> Extend Expiration Date:	06-31-18
<input type="checkbox"/> Change or Add Landfill:	
<input type="checkbox"/> Add Additional Laboratory Reports:	<b>Complete Representative Sample Certification, Section III, below.</b>
<input type="checkbox"/> Add MSDS:	
<input type="checkbox"/> Generator Name Change:	
<input checked="" type="checkbox"/> Other:	Project extended

### III. Representative Sample Certification

No Sample Taken

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	<input type="checkbox"/> YES or <input type="checkbox"/> NO
Type of Sample: <input type="checkbox"/> COMPOSITE SAMPLE <input type="checkbox"/> GRAB SAMPLE	
Sample Date:	
Sample ID Numbers:	

### IV. Certification

I hereby certify that the waste and the process generating the waste are unchanged and are accurately represented in the original profile.	
Robert Fiege, Construction Inspector, Public Works <hr/> Authorized Representative Name and Title (Printed)  <hr/> Authorized Representative Signature	City of Long Beach <hr/> Company Name <div style="background-color: #e0e0e0; padding: 5px; display: inline-block; margin: 10px 0;">4/5/18</div> <hr/> Date



# Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

Waste Profile #  
51231810622

Expiration Date  
8/23/2018

### I. Decision Request:

Initial     Recertification     Change

Disposal Facility: 5123 - Sunshine Canyon Landfill

Generator Name: SOUTHERN CALIFORNIA EDISON - IRWINDALE CORPORATE WAREHOUSE

Generator Site Address: 13025 E LOS ANGELES ST

City: IRWINDALE

County:

State: CA

Zip:

Name of Waste: NON HAZ SOIL

Estimated Annual Volume: 800 Cubic Yards

### II. Special Waste Department Decision:    Approved    Rejected


Management Method(s):     Landfill     Solidification     Bioremediation     Transfer Facility

Problematic Special Waste according to Republic?     Yes     No

If yes, which one?

Approved by Special Waste Review Committee?     Yes     No     Not Applicable

### Precautions, Conditions or Limitations on Approval


Special Waste Analyst Signature:   
Date: 6/28/2018

Name (Printed): Joseph Sorokach

### III. Facility Decision:    Approved    Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee:   
Date: 6/28/2018

Name (Printed): Chris Coyle



Requested Disposal Facility: 5123 Sunshine Canyon LF CA

Waste Profile # <b>5123 18 10622</b>
---

Sales Rep #: <b>585</b>
-------------------------

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed.

I. Generator Information

Generator Name: Southern California Edison - Irwindale Corporate Warehouse			
Generator Site Address: 13025 E. Los Angeles St.			
City: Irwindale	County: Los Angeles	State: California	Zip: 91706
State ID/Reg No: NA	State Approval/Waste Code: NA (if applicable)		NAICS #: NA
Generator Mailing Address (if different): <input checked="" type="checkbox"/> 2244 Walnut Grove Ave			
City: Rosemead	County: Los Angeles	State: California	Zip: 91770
Generator Contact Name: Ryan Castillo		Email: ryan.castillo@sce.com	
Phone Number: (626) 656-0453	Ext:	Fax Number:	

II. Billing Information

Bill To: Mission Paving and Sealing	Contact Name: Phil Dresden		
Billing Address: 12747 Schabarum Ave		Email: phil@missionpaving.com	
City: Irwindale	State: CA	Zip: 91706	Phone: (626) 452-8200

III. Waste Stream Information

Name of Waste: Non-hazardous Soil	
Process Generating Waste: Excavation of soil in order to repave an Edison facility	
Type of Waste:	<input checked="" type="checkbox"/> INDUSTRIAL PROCESS WASTE <input type="checkbox"/> POLLUTION CONTROL WASTE
Physical State:	<input checked="" type="checkbox"/> SOLID <input type="checkbox"/> SEMI-SOLID <input type="checkbox"/> POWDER <input type="checkbox"/> LIQUID
Method of Shipment:	<input checked="" type="checkbox"/> BULK <input type="checkbox"/> DRUM <input type="checkbox"/> BAGGED <input type="checkbox"/> OTHER:
Estimated Annual Volume:	800 Cubic Yards
Frequency:	<input checked="" type="checkbox"/> ONE TIME <input type="checkbox"/> ONGOING
Disposal Consideration:	<input checked="" type="checkbox"/> LANDFILL <input type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> BIOREMEDIATION

IV. Representative Sample Certification  NO SAMPLE TAKEN

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	<input checked="" type="checkbox"/> YES or <input type="checkbox"/> NO
Type of Sample:	<input type="checkbox"/> COMPOSITE SAMPLE <input checked="" type="checkbox"/> GRAB SAMPLE
Sample Date: 8/21/17	
Sample ID Numbers: HA1 through HA4, HA6, collected 8/21/17. VOC samples collected 6/25/18. Note that HA5 and HA7 will not be sent with this waste, it is being managed separately.  Please ignore all asphalt (AC) samples, no asphalt will be sent for disposal.	



Waste Profile #

V. Physical Characteristics of Waste

Characteristic Components		% by Weight (range)			
1. Soil		100			
2.					
3.					
4.					
5.					
Color	Odor (describe)	Does Waste Contain Free Liquids?	% Solids	pH:	Flash Point
Brown	None	<input type="checkbox"/> YES or <input checked="" type="checkbox"/> NO	100	NA	NA °F

**Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Chain of Custody and Required Parameters Provided for this Profile**

Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm)[reference 40 CFR 261.23(a)(5)]?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste a reactive or heat generating waste?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does the waste contain sulfur or sulfur by-products?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste generated at a Federal Superfund Clean Up Site?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste from a TSD facility, TSD like facility or consolidator?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No

VI. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services Inc.

Ryan Castillo - Program Manager

Southern California Edison

Authorized Representative Name And Title (Type or Print)

Company Name



6/27/18

Authorized Representative Signature

Date

## Kidd, Kelly - Stockton

---

**From:** Ryan Castillo <Ryan.Castillo@sce.com>  
**Sent:** Wednesday, June 27, 2018 2:52 PM  
**To:** Kidd, Kelly - Stockton; Antolin, Edward; Loveland, Stacy  
**Cc:** Riley, Mike  
**Subject:** RE: (External):RE: (External):Soil - Sunshine Canyon

Note that (prvs=7090d0b89=Ryan.Castillo@sce.com) is an external email. Forward unfamiliar emails to [infosec.phishing@republicservices.com](mailto:infosec.phishing@republicservices.com)

Thanks Ed and Kelly.

To answer for the lack of HA1 VOC results, the area sampled last year was covered with equipment this week and we could not get it moved in time for the sampling. If we had hits in the HA5 area (highest TPH, although we will not be sending HA5 to Sunshine), then depending on the concentration of VOCs that would show a relationship between the TPH and VOCs (most of that relationship exists between gas range TPH and BTEX), we would have tried to sample HA1 for VOCs. Since all VOCs were ND, we saw no reason to pursue that sampling as it speaks to a lack of VOCs at HA1.

Yes, all depths will apply, except any AC samples and HA5/HA7.

Hope this helps.

Thanks,

Ryan

---

**From:** Kidd, Kelly - Stockton [mailto:KKidd@republicservices.com]  
**Sent:** Wednesday, June 27, 2018 2:39 PM  
**To:** Antolin, Edward <EAntolin@republicservices.com>; Ryan Castillo <Ryan.Castillo@sce.com>; Loveland, Stacy <SLoveland@republicservices.com>  
**Cc:** Riley, Mike <MRiley@republicservices.com>  
**Subject:** (External):RE: (External):Soil - Sunshine Canyon

Good Afternoon Ryan,

I have a couple of quick questions regarding the samples.

Are all depths to be considered for the 2017 samples? For the 2018 samples, why wasn't the HA1 area sampled and tested for VOCs (assuming the names correlate to the originals)?

We may need some clarifications to the profile before we can proceed.

Thank you,

**Kelly Kidd**  
Special Waste Sales Coordinator

1145 West Charter Way  
Stockton, CA 95206



## American Environmental Testing Laboratory Inc.

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### Ordered By

Southern California Edison Company  
1 Innovation Way  
Pomona, CA 91768-

Number of Pages 49  
Date Received 08/21/2017  
Date Reported 08/23/2017

Telephone: (909)274-1646  
Attention: Christine Brendle

Job Number	Order Date	Client
89062	08/21/2017	SCE

**Project ID:** IO# 337145  
**Project Name:** Irwindale C.W. Pav. Alter.  
**Site:** Irwindale Corporate Warehouse  
13025 E. Los Angeles St.  
Irwindale, CA 91706

Enclosed please find results of analyses of 21 soil and 15 asphalt samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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**CHAIN OF CUSTODY RECORD**  
**102298**

AETL JOB No. **89062** Page 1 of 3

COMPANY: **ECOT Associates For S.C.E** PROJECT MANAGER: **Heled Morgan SCE - Christine Wendle**  
 COMPANY ADDRESS: **1823 Irvine Blvd. Tustin, CA 92780** PHONE: **714-289-0995**  
 PROJECT NAME: **Erwindele C.W. Paving Alternates** PROJECT #: **17-928**  
 PO #: **108332145**  
 SITE NAME AND ADDRESS: **Erwindele Corporate Warehouse**  
**13015 E. Los Angeles St. Inglewood CA**

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TEST INSTRUCTIONS & COMMENTS
AC1	89062.01	8/21/17	0807	Asphalt	1-8oz	NA	
HA1-0.5'	89062.02		0820	Soil			TPH 8015
HA1-0.75'	89062.03		0826	Soil			Can 17 metals
HA1-1.0'	89062.04		0830	Soil			
AC2	89062.05		0845	Asphalt			
AC3	89062.06		0856	Asphalt			
AC4	89062.07		0905	Asphalt			
HA2-0.5'	89062.08		0911	Soil			
HA2-0.75'	89062.09		0915	Soil			
HA2-1.0'	89062.10		0920	Soil			
AC5	89062.11		0935	Asphalt			
AC6	89062.12		0945	Asphalt			
HA3-0.5'	89062.13		1000	Soil			
HA3-0.75'	89062.14		1005	Soil			
HA3-1.0'	89062.15		1007	Soil			

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS: 15 PROPERLY COOLED:  Y /  N /  NA

CUSTOMY SEALS:  Y /  N /  NA SAMPLES INTACT:  Y /  N /  NA

RECEIVED IN GOOD COND.:  Y /  N SAMPLES ACCEPTED:  Y /  N

**TURN AROUND TIME**

NORMAL  RUSH  SAME DAY  NEXT DAY  2 DAYS  3 DAYS

48 hrs

**DATA DELIVERABLE REQUIRED**

HARD COPY  PDF  GEOTRACKER (GLOBAL ID)  OTHER (PLEASE SPECIFY)

**RELINQUISHED BY SAMPLER:** Signature: [Signature] Date: 8/21/17 Time: 1415  
**RECEIVED BY:** Signature: [Signature] Date: 8/21/17 Time: 1630

**RELINQUISHED BY:** Signature: [Signature] Date: 8/21/17 Time: 1415  
**RECEIVED BY:** Signature: [Signature] Date: 8/21/17 Time: 1630

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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CHAIN OF CUSTODY RECORD  
 102295

AETL JOB No. 89062

Page 2 of 3

COMPANY ECOT Associates for SCE PROJECT MANAGER Helen Thomas  
 COMPANY ADDRESS 18271 Irvine Blvd, Tustin, CA 92780 PHONE 562-312-1111  
 PROJECT NAME LA Windlake C.W. Paving Alternative PROJECT # 17-928  
 PO # 10537145  
 SITE NAME Irwindale Corporate Warehouse  
 AND ADDRESS 13025 E. Los Angeles St. Irwindale CA.

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	AC7	8/21/17	1050	Asphalt	1-8oz	N/A
2	AC8		1045	Asphalt		
3	HA4-0.5'		1050	Soil		
4	HA4-0.75'		1053	Soil		
5	HA4-1.0'		1100	Soil		
6	AC9		1110	Asphalt		
7	AC10		1120	Asphalt		
8	AC11		1135	Asphalt		
9	HA5-0.5'		1145	Soil		
10	HA5-0.75'		1150	Soil		
11	HA5-1.0'		1155	Soil		
12	AC12		1205	Asphalt		
13	AC13		1225	Asphalt		
14	HA6-0.5'		1230	Soil		
15	HA6-0.75'		1235	Soil		

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS 15 PROPERLY COOLED  Y / N / NA

CUSTOMY SEALS  Y / N / NA SAMPLES INTACT  Y / N / NA

RECEIVED IN GOOD COND.  Y / N SAMPLES ACCEPTED  Y / N

**TURN AROUND TIME**

NORMAL  RUSH  SAME DAY  NEXT DAY  2 DAYS  3 DAYS

48hrs

**DATA DELIVERABLE REQUIRED**

HARD COPY  PDF  GEOTRACKER (GLOBAL ID)  OTHER (PLEASE SPECIFY) \_\_\_\_\_

**RELINQUISHED BY: SAMPLER:** Signature: [Signature] Date: 8/21/17 Time: 1415

**RELINQUISHED BY: 1.** Signature: [Signature] Date: 8/21/17 Time: 1415

**RELINQUISHED BY: 2.** Signature: [Signature] Date: 8/21/17 Time: 1630

**RELINQUISHED BY: 3.** Signature: [Signature] Date: 8/21/17 Time: 1630

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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# CHAIN OF CUSTODY RECORD

## 102305

COMPANY: ECO ASSOCIATES FOR S.C.E. PROJECT MANAGER: Helen Thompson  
 COMPANY ADDRESS: 555 - Christine Trivette PHONE: \_\_\_\_\_  
 18271 Irvine Blvd. Tustin, CA, 92780 FAX: 714-289-0995  
 PROJECT NAME: Irvine C.W. Paving Alternative PROJECT # 17-928  
 PO # \_\_\_\_\_  
 SITE NAME: Irwindale Corporate Warehouse  
 AND ADDRESS: 13025 E. Los Angeles St Irwindale CA.

AETL JOB No. 89062

Page 3 of 3

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED			TEST INSTRUCTIONS & COMMENTS
							PCB 8082/10	Lead	Asbestos	
1	HA6-1.0'	8/21/16	1300	Soil	1-8oz	NA	✓	✓	✓	
2	A<14		1310	Asphalt			✓	✓	✓	
3	AC15		1325	Asphalt			✓	✓	✓	
4	HA7-0.5'		1333	Soil			✓	✓	✓	
5	HA7-0.75'		1336	Soil			✓	✓	✓	
6	HA7-1.0'		1339	Soil			✓	✓	✓	
7										
8										
9										
10										
11										
12										
13										
14										
15										

TOTAL NUMBER OF CONTAINERS	SAMPLE RECEIPT - TO BE FILLED BY LABORATORY		RELINQUISHED BY SAMPLER:		RELINQUISHED BY:	
	PROPERLY COOLED (Y/N/NA)	SAMPLES INTACT (Y/N/NA)	Signature:	Printed Name:	Signature:	Printed Name:
6	Y	Y	<i>[Signature]</i>	J. Scott Hawkins	<i>[Signature]</i>	GRM
RECEIVED IN GOOD COND. (Y/N)	Y	Y	Date:	8/21/17	Date:	8/21/17
TURN AROUND TIME	SAME DAY <input type="checkbox"/>	NEXT DAY <input type="checkbox"/>	RECEIVED BY:	1415	RECEIVED BY LABORATORY:	1630
48hrs	2 DAYS <input type="checkbox"/>	3 DAYS <input type="checkbox"/>	Signature:		Signature:	AETL
<input type="checkbox"/> NORMAL	<input type="checkbox"/> HARD COPY	<input type="checkbox"/> PDF	Printed Name:	CHARLSON PALOMBA	Printed Name:	
<input checked="" type="checkbox"/> RUSH	<input type="checkbox"/> GEOTRACKER (GLOBAL ID)	<input type="checkbox"/> OTHER (PLEASE SPECIFY)	Date:	8/21/17	Date:	8/21/17

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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## COOLER RECEIPT FORM

Client Name: <u>Edison</u>			
Project Name:			
AETL Job Number: <u>89062</u>			
Date Received: <u>08/21/17</u>		Received by: <u>Antin</u>	
Carrier: <input checked="" type="checkbox"/> AETL Courier <input type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler ( <u>  /  </u> ) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <u>3.2</u> , No 2: _____, No 3: _____			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):			
How are samples preserved: <input type="checkbox"/> None, <input checked="" type="checkbox"/> Ice, <input type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<input checked="" type="checkbox"/> None, <u>  </u> HNO <sub>3</sub> , <u>  </u> NaOH, <u>  </u> ZnOAc, <u>  </u> HCl, <u>  </u> Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , <u>  </u> MeOH			
<u>  </u> Other (Specify):			
	<b>Yes</b>	<b>No, explain below</b>	<b>Name, if client was notified.</b>
1. Are the COCs Correct?	<u>  /  </u>		
2. Are the Sample labels legible?	<u>  /  </u>		
3. Do samples match the COC?	<u>  /  </u>		
4. Are the required analyses clear?	<u>  /  </u>		
5. Is there enough samples for required analysis?	<u>  /  </u>		
6. Are samples sealed with evidence tape?		<u>  /  </u>	
7. Are sample containers in good condition?	<u>  /  </u>		
8. Are samples preserved?	<u>  /  </u>		
9. Are samples preserved properly for the intended analysis?	<u>  /  </u>		
10. Are the VOAs free of headspace?	<u>  /  </u>		
11. Are the jars free of headspace?	<u>  N/A  </u>		

Explain all "No" answers for above questions:

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Page: 1 A

## Ordered By

Southern California Edison Company  
1 Innovation Way  
Pomona, CA 91768-

Project ID: IO# 337145  
Date Received 08/21/2017  
Date Reported 08/23/2017

Telephone: (909) 274-1646  
Attention: Christine Brendle

Job Number	Order Date	Client
89062	08/21/2017	SCE

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 36 samples with the following specification on 08/21/2017.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
89062.02	HA1-0.5'	08/21/2017	Soil	1
89062.03	HA1-0.75'	08/21/2017	Soil	1
89062.04	HA1-1.0'	08/21/2017	Soil	1
89062.08	HA2-0.5'	08/21/2017	Soil	1
89062.09	HA2-0.75'	08/21/2017	Soil	1
89062.10	HA2-1.0'	08/21/2017	Soil	1
89062.13	HA3-0.5'	08/21/2017	Soil	1
89062.14	HA3-0.75'	08/21/2017	Soil	1
89062.15	HA3-1.0'	08/21/2017	Soil	1
89062.18	HA4-0.5'	08/21/2017	Soil	1
89062.19	HA4-0.75'	08/21/2017	Soil	1
89062.20	HA4-1.0'	08/21/2017	Soil	1
89062.24	HA5-0.5'	08/21/2017	Soil	1
89062.25	HA5-0.75'	08/21/2017	Soil	1
89062.26	HA5-1.0'	08/21/2017	Soil	1
89062.29	HA6-0.5'	08/21/2017	Soil	1
89062.30	HA6-0.75'	08/21/2017	Soil	1
89062.31	HA6-1.0'	08/21/2017	Soil	1
89062.34	HA7-0.5'	08/21/2017	Soil	1
89062.35	HA7-0.75'	08/21/2017	Soil	1
89062.36	HA7-1.0'	08/21/2017	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM) ^ SCE	08/23/2017	3	Rush	mg/Kg
(8082) ^ SCE-1PPM	08/23/2017	3	Rush	mg/Kg
(M8015D) ^ SCE-C13C40	08/23/2017	3	Rush	mg/Kg
(M8015G) ^ SCE-C4-C12	08/23/2017	3	Rush	mg/Kg

Continued





# American Environmental Testing Laboratory Inc.

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Page: 1 B

### Ordered By

Southern California Edison Company  
1 Innovation Way  
Pomona, CA 91768-

Project ID: IO# 337145  
Date Received 08/21/2017  
Date Reported 08/23/2017

Telephone: (909) 274-1646  
Attention: Christine Brendle

Job Number	Order Date	Client
89062	08/21/2017	SCE

## CERTIFICATE OF ANALYSIS

### CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity	Of Containers
89062.01	AC1	08/21/2017	Solid	1	
89062.05	AC2	08/21/2017	Solid	1	
89062.06	AC3	08/21/2017	Solid	1	
89062.07	AC4	08/21/2017	Solid	1	
89062.11	AC5	08/21/2017	Solid	1	
89062.12	AC6	08/21/2017	Solid	1	
89062.16	AC7	08/21/2017	Solid	1	
89062.17	AC8	08/21/2017	Solid	1	
89062.21	AC9	08/21/2017	Solid	1	
89062.22	AC10	08/21/2017	Solid	1	
89062.23	AC11	08/21/2017	Solid	1	
89062.27	AC12	08/21/2017	Solid	1	
89062.28	AC13	08/21/2017	Solid	1	
89062.32	AC14	08/21/2017	Solid	1	
89062.33	AC15	08/21/2017	Solid	1	

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM) ^ SCE	08/23/2017	3	Rush	mg/Kg
(8082) ^ SCE-1PPM	08/23/2017	3	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

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 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

## ANALYTICAL RESULTS

### Ordered By

Southern California Edison Company  
 1 Innovation Way  
 Pomona, CA 91768-

### Site

Irwindale Corporate Warehouse  
 13025 E. Los Angeles St.  
 Irwindale, CA 91706

Telephone: (909)274-1646

Attn: Christine Brendle

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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082217NB1

Our Lab I.D.		Method Blank	89062.02	89062.03	89062.04	89062.08
Client Sample I.D.			HA1-0.5'	HA1-0.75'	HA1-1.0'	HA2-0.5'
Date Sampled			08/21/2017	08/21/2017	08/21/2017	08/21/2017
Date Prepared		08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017
Preparation Method		5030	5030	5030	5030	5030
Date Analyzed		08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
TPH as Gasoline and Light HC. (C4-C12)	10.0	10.0	ND	ND	ND	ND
Our Lab I.D.		Method Blank	89062.02	89062.03	89062.04	89062.08
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Bromofluorobenzene	75-125	97.8	94.8	103	103	96.0



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 0822-NB1

Our Lab I.D.		89062.09	89062.10	89062.13	89062.14	89062.15	
Client Sample I.D.		HA2-0.75'	HA2-1.0'	HA3-0.5'	HA3-0.75'	HA3-1.0'	
Date Sampled		08/21/2017	08/21/2017	08/21/2017	08/21/2017	08/21/2017	
Date Prepared		08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017	
Preparation Method		5030	5030	5030	5030	5030	
Date Analyzed		08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
TPH as Gasoline and Light HC. (C4-C12)	10.0	10.0	ND	ND	ND	ND	ND
Our Lab I.D.		89062.09	89062.10	89062.13	89062.14	89062.15	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
Bromofluorobenzene	75-125	98.6	97.8	95.2	101	102	



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 0822-NB1

<b>Our Lab I.D.</b>			<b>89062.18</b>	<b>89062.19</b>		
Client Sample I.D.			HA4-0.5'	HA4-0.75'		
Date Sampled			08/21/2017	08/21/2017		
Date Prepared			08/22/2017	08/22/2017		
Preparation Method			5030	5030		
Date Analyzed			08/22/2017	08/22/2017		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
<b>Analytes</b>	<b>MDL</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>		
TPH as Gasoline and Light HC. (C4-C12)	10.0	10.0	ND	ND		
<b>Our Lab I.D.</b>			<b>89062.18</b>	<b>89062.19</b>		
<b>Surrogates</b>	<b>%Rec.Limit</b>		<b>% Rec.</b>	<b>% Rec.</b>		
Bromofluorobenzene	75-125		96.8	102		



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082217NB2

Our Lab I.D.		Method Blank	89062.20	89062.24	89062.25	89062.26
Client Sample I.D.			HA4-1.0'	HA5-0.5'	HA5-0.75'	HA5-1.0'
Date Sampled			08/21/2017	08/21/2017	08/21/2017	08/21/2017
Date Prepared		08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017
Preparation Method		5030	5030	5030	5030	5030
Date Analyzed		08/23/2017	08/22/2017	08/22/2017	08/23/2017	08/23/2017
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
TPH as Gasoline and Light HC. (C4-C12)	10.0	10.0	ND	ND	ND	ND
Our Lab I.D.		Method Blank	89062.20	89062.24	89062.25	89062.26
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Bromofluorobenzene	75-125	108	99.6	96.8	99.0	94.6



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 08221 NB2

Our Lab I.D.		89062.29	89062.30	89062.31	89062.34	89062.35
Client Sample I.D.		HA6-0.5'	HA6-0.75'	HA6-1.0'	HA7-0.5'	HA7-0.75'
Date Sampled		08/21/2017	08/21/2017	08/21/2017	08/21/2017	08/21/2017
Date Prepared		08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017
Preparation Method		5030	5030	5030	5030	5030
Date Analyzed		08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
TPH as Gasoline and Light HC. (C4-C12)	10.0	10.0	ND	ND	ND	ND
Our Lab I.D.		89062.29	89062.30	89062.31	89062.34	89062.35
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Bromofluorobenzene	75-125	99.2	97.8	95.6	99.8	102



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082217NB2

<b>Our Lab I.D.</b>			<b>89062.36</b>			
Client Sample I.D.			HA7-1.0'			
Date Sampled			08/21/2017			
Date Prepared			08/22/2017			
Preparation Method			5030			
Date Analyzed			08/23/2017			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			1			
<b>Analytes</b>	<b>MDL</b>	<b>PQL</b>	<b>Results</b>			
TPH as Gasoline and Light HC. (C4-C12)	10.0	10.0	ND			
<b>Our Lab I.D.</b>			<b>89062.36</b>			
<b>Surrogates</b>	<b>%Rec.Limit</b>		<b>% Rec.</b>			
Bromofluorobenzene	75-125		99.0			



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082217PB1

Our Lab I.D.		Method Blank	89062.02	89062.03	89062.04	89062.08
Client Sample I.D.			HA1-0.5'	HA1-0.75'	HA1-1.0'	HA2-0.5'
Date Sampled			08/21/2017	08/21/2017	08/21/2017	08/21/2017
Date Prepared		08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017
Preparation Method		3550B	3550B	3550B	3550B	3550B
Date Analyzed		08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
TPH as Diesel (C13-C22)	10.0	10.0	ND	122	90.5	ND
TPH as Heavy Hydrocarbons (C23-C40)	100	100	ND	1,460	1,020	ND
TPH Total as Diesel and Heavy HC.C13-C40	100	100	ND	1,580	1,110	ND
Our Lab I.D.		Method Blank	89062.02	89062.03	89062.04	89062.08
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.
Chlorobenzene	75-125		118	120	118	124





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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SC E

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 0822 PB1

Our Lab I.D.		89062.09	89062.10	89062.13	89062.14	89062.15	
Client Sample I.D.		HA2-0.75'	HA2-1.0'	HA3-0.5'	HA3-0.75'	HA3-1.0'	
Date Sampled		08/21/2017	08/21/2017	08/21/2017	08/21/2017	08/21/2017	
Date Prepared		08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
TPH as Diesel (C13-C22)	10.0	10.0	22.8	25.1	25.8	43.9	ND
TPH as Heavy Hydrocarbons (C23-C40)	100	100	211	508	476	722	ND
TPH Total as Diesel and Heavy HC.C13-C40	100	100	234	533	502	766	ND
Our Lab I.D.		89062.09	89062.10	89062.13	89062.14	89062.15	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
Chlorobenzene	75-125	114	112	113	115	112	



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 0822-PB1

Our Lab I.D.		89062.18	89062.19	89062.20	89062.24	89062.25	
Client Sample I.D.		HA4-0.5'	HA4-0.75'	HA4-1.0'	HA5-0.5'	HA5-0.75'	
Date Sampled		08/21/2017	08/21/2017	08/21/2017	08/21/2017	08/21/2017	
Date Prepared		08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
TPH as Diesel (C13-C22)	10.0	10.0	12.1	12.7	ND	47.5	196
TPH as Heavy Hydrocarbons (C23-C40)	100	100	311	278	ND	1,100	2,570
TPH Total as Diesel and Heavy HC.C13-C40	100	100	323	291	ND	1,150	2,770
Our Lab I.D.		89062.18	89062.19	89062.20	89062.24	89062.25	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
Chlorobenzene	75-125	112	113	111	118	117	



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082217PB1

Our Lab I.D.			89062.26	89062.29	89062.30	89062.31	
Client Sample I.D.			HA5-1.0'	HA6-0.5'	HA6-0.75'	HA6-1.0'	
Date Sampled			08/21/2017	08/21/2017	08/21/2017	08/21/2017	
Date Prepared			08/22/2017	08/22/2017	08/22/2017	08/22/2017	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			08/22/2017	08/22/2017	08/22/2017	08/22/2017	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	
TPH as Diesel (C13-C22)	10.0	10.0	70.4	116	67.0	ND	
TPH as Heavy Hydrocarbons (C23-C40)	100	100	1,140	1,510	1,090	ND	
TPH Total as Diesel and Heavy HC.C13-C40	100	100	1,210	1,630	1,160	ND	
Our Lab I.D.			89062.26	89062.29	89062.30	89062.31	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
Chlorobenzene	75-125		121	116	117	125	



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082217PB2

Our Lab I.D.			Method Blank	89062.34	89062.35	89062.36	
Client Sample I.D.				HA7-0.5'	HA7-0.75'	HA7-1.0'	
Date Sampled				08/21/2017	08/21/2017	08/21/2017	
Date Prepared			08/22/2017	08/22/2017	08/22/2017	08/22/2017	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			08/23/2017	08/23/2017	08/23/2017	08/23/2017	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	
TPH as Diesel (C13-C22)	10.0	10.0	ND	42.9	52.0	50.4	
TPH as Heavy Hydrocarbons (C23-C40)	100	100	ND	624	317	231	
TPH Total as Diesel and Heavy HC.C13-C40	100	100	ND	667	369	281	
Our Lab I.D.			Method Blank	89062.34	89062.35	89062.36	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
Chlorobenzene	75-125		116	125	125	123	



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCED

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082217-2

Our Lab I.D.		Method Blank	89062.02	89062.03	89062.04	89062.08	
Client Sample I.D.			HA1-0.5'	HA1-0.75'	HA1-1.0'	HA2-0.5'	
Date Sampled			08/21/2017	08/21/2017	08/21/2017	08/21/2017	
Date Prepared		08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Aroclor-1016 (PCB-1016)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	1.0	1.0	ND	ND	ND	ND	ND
Our Lab I.D.		Method Blank	89062.02	89062.03	89062.04	89062.08	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
Decachlorobiphenyl	30-150		102	128	120	95.6	113
Tetrachloro-m-xylene	30-150		90.6	125	104	91.4	101



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## ANALYTICAL RESULTS

### Ordered By

Southern California Edison Company  
 1 Innovation Way  
 Pomona, CA 91768-

### Site

Irwindale Corporate Warehouse  
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Telephone: (909)274-1646

Attn: Christine Brendle

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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 08217-2

Our Lab I.D.			89062.09	89062.10	89062.13	89062.14	89062.15
Client Sample I.D.			HA2-0.75'	HA2-1.0'	HA3-0.5'	HA3-0.75'	HA3-1.0'
Date Sampled			08/21/2017	08/21/2017	08/21/2017	08/21/2017	08/21/2017
Date Prepared			08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Aroclor-1016 (PCB-1016)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	1.0	1.0	ND	ND	ND	ND	ND
Our Lab I.D.			89062.09	89062.10	89062.13	89062.14	89062.15
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		101	128	123	72.4	113
Tetrachloro-m-xylene	30-150		95.0	100	105	100	116



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Telephone: (909)274-1646

Attn: Christine Brendle

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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 08.17-2

Our Lab I.D.			89062.18			
Client Sample I.D.			HA4-0.5'			
Date Sampled			08/21/2017			
Date Prepared			08/22/2017			
Preparation Method			3550B			
Date Analyzed			08/22/2017			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Aroclor-1016 (PCB-1016)	1.0	1.0	ND			
Aroclor-1221 (PCB-1221)	1.0	1.0	ND			
Aroclor-1232 (PCB-1232)	1.0	1.0	ND			
Aroclor-1242 (PCB-1242)	1.0	1.0	ND			
Aroclor-1248 (PCB-1248)	1.0	1.0	ND			
Aroclor-1254 (PCB-1254)	1.0	1.0	ND			
Aroclor-1260 (PCB-1260)	1.0	1.0	ND			
Aroclor-1262 (PCB-1262)	1.0	1.0	ND			
Aroclor-1268 (PCB-1268)	1.0	1.0	ND			
Our Lab I.D.			89062.18			
Surrogates	%Rec.Limit			% Rec.		
Decachlorobiphenyl	30-150			123		
Tetrachloro-m-xylene	30-150			127		



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082217-3

Our Lab I.D.		Method Blank	89062.19	89062.20	89062.24	89062.25	
Client Sample I.D.			HA4-0.75'	HA4-1.0'	HA5-0.5'	HA5-0.75'	
Date Sampled			08/21/2017	08/21/2017	08/21/2017	08/21/2017	
Date Prepared		08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Aroclor-1016 (PCB-1016)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	1.0	1.0	ND	ND	ND	ND	ND
Our Lab I.D.		Method Blank	89062.19	89062.20	89062.24	89062.25	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		104	123	119	128	91.8
Tetrachloro-m-xylene	30-150		97.8	117	142	134	131





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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082217-3

Our Lab I.D.			89062.26	89062.29	89062.30	89062.31	89062.34
Client Sample I.D.			HA5-1.0'	HA6-0.5'	HA6-0.75'	HA6-1.0'	HA7-0.5'
Date Sampled			08/21/2017	08/21/2017	08/21/2017	08/21/2017	08/21/2017
Date Prepared			08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Aroclor-1016 (PCB-1016)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	1.0	1.0	1.26	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	1.0	1.0	ND	ND	ND	ND	ND
Our Lab I.D.			89062.26	89062.29	89062.30	89062.31	89062.34
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		125	94.0	89.8	117	130
Tetrachloro-m-xylene	30-150		127	150	120	120	105



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Attn: Christine Brendle

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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082217-3

Our Lab I.D.			89062.35	89062.36		
Client Sample I.D.			HA7-0.75'	HA7-1.0'		
Date Sampled			08/21/2017	08/21/2017		
Date Prepared			08/22/2017	08/22/2017		
Preparation Method			3550B	3550B		
Date Analyzed			08/23/2017	08/23/2017		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Aroclor-1016 (PCB-1016)	1.0	1.0	ND	ND		
Aroclor-1221 (PCB-1221)	1.0	1.0	ND	ND		
Aroclor-1232 (PCB-1232)	1.0	1.0	ND	ND		
Aroclor-1242 (PCB-1242)	1.0	1.0	3.96	4.89		
Aroclor-1248 (PCB-1248)	1.0	1.0	ND	ND		
Aroclor-1254 (PCB-1254)	1.0	1.0	ND	ND		
Aroclor-1260 (PCB-1260)	1.0	1.0	ND	ND		
Aroclor-1262 (PCB-1262)	1.0	1.0	ND	ND		
Aroclor-1268 (PCB-1268)	1.0	1.0	ND	ND		
Our Lab I.D.			89062.35	89062.36		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
Decachlorobiphenyl	30-150		132	139		
Tetrachloro-m-xylene	30-150		106	129		



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082217-2A

Our Lab I.D.			Method Blank	89062.01	89062.05	89062.06	89062.07
Client Sample I.D.				AC1	AC2	AC3	AC4
Date Sampled				08/21/2017	08/21/2017	08/21/2017	08/21/2017
Date Prepared			08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017
Matrix			Solid	Solid	Solid	Solid	Solid
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Aroclor-1016 (PCB-1016)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	1.0	1.0	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	89062.01	89062.05	89062.06	89062.07
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		102	96.0	61.8	70.3	70.0
Tetrachloro-m-xylene	30-150		90.6	125	80.0	101	90.2



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082217-2A

Our Lab I.D.			89062.11	89062.12	89062.16	89062.17	
Client Sample I.D.			AC5	AC6	AC7	AC8	
Date Sampled			08/21/2017	08/21/2017	08/21/2017	08/21/2017	
Date Prepared			08/22/2017	08/22/2017	08/22/2017	08/22/2017	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			08/22/2017	08/22/2017	08/22/2017	08/22/2017	
Matrix			Solid	Solid	Solid	Solid	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	
Aroclor-1016 (PCB-1016)	1.0	1.0	ND	ND	ND	ND	
Aroclor-1221 (PCB-1221)	1.0	1.0	ND	ND	ND	ND	
Aroclor-1232 (PCB-1232)	1.0	1.0	ND	ND	ND	ND	
Aroclor-1242 (PCB-1242)	1.0	1.0	ND	ND	ND	ND	
Aroclor-1248 (PCB-1248)	1.0	1.0	ND	ND	ND	ND	
Aroclor-1254 (PCB-1254)	1.0	1.0	ND	ND	ND	ND	
Aroclor-1260 (PCB-1260)	1.0	1.0	ND	ND	ND	ND	
Aroclor-1262 (PCB-1262)	1.0	1.0	ND	ND	ND	ND	
Aroclor-1268 (PCB-1268)	1.0	1.0	ND	ND	ND	ND	
Our Lab I.D.			89062.11	89062.12	89062.16	89062.17	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
Decachlorobiphenyl	30-150		106	89.2	82.6	148	
Tetrachloro-m-xylene	30-150		112	106	121	128	



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082217-3A

Our Lab I.D.		Method Blank	89062.21	89062.22	89062.23	89062.27	
Client Sample I.D.			AC9	AC10	AC11	AC12	
Date Sampled			08/21/2017	08/21/2017	08/21/2017	08/21/2017	
Date Prepared		08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017	
Matrix		Solid	Solid	Solid	Solid	Solid	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Aroclor-1016 (PCB-1016)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	1.0	1.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	1.0	1.0	ND	ND	ND	ND	ND
Our Lab I.D.		Method Blank	89062.21	89062.22	89062.23	89062.27	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
Decachlorobiphenyl	30-150	104	139	83.2	72.0	126	
Tetrachloro-m-xylene	30-150	97.8	122	101	116	131	



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082217-3A

Our Lab I.D.			89062.28	89062.32	89062.33		
Client Sample I.D.			AC13	AC14	AC15		
Date Sampled			08/21/2017	08/21/2017	08/21/2017		
Date Prepared			08/22/2017	08/22/2017	08/22/2017		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			08/23/2017	08/23/2017	08/23/2017		
Matrix			Solid	Solid	Solid		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
Aroclor-1016 (PCB-1016)	1.0	1.0	ND	ND	ND		
Aroclor-1221 (PCB-1221)	1.0	1.0	ND	ND	ND		
Aroclor-1232 (PCB-1232)	1.0	1.0	ND	ND	ND		
Aroclor-1242 (PCB-1242)	1.0	1.0	ND	ND	ND		
Aroclor-1248 (PCB-1248)	1.0	1.0	ND	ND	ND		
Aroclor-1254 (PCB-1254)	1.0	1.0	ND	ND	ND		
Aroclor-1260 (PCB-1260)	1.0	1.0	ND	ND	ND		
Aroclor-1262 (PCB-1262)	1.0	1.0	ND	ND	ND		
Aroclor-1268 (PCB-1268)	1.0	1.0	ND	ND	ND		
Our Lab I.D.			89062.28	89062.32	89062.33		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
Decachlorobiphenyl	30-150		142	93.4	88.5		
Tetrachloro-m-xylene	30-150		139	136	121		



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### Site

Irwindale Corporate Warehouse  
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Telephone: (909)274-1646

Attn: Christine Brendle

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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0822172C3

Our Lab I.D.		Method Blank	89062.02	89062.03	89062.04	89062.08	
Client Sample I.D.			HA1-0.5'	HA1-0.75'	HA1-1.0'	HA2-0.5'	
Date Sampled			08/21/2017	08/21/2017	08/21/2017	08/21/2017	
Date Prepared		08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017	
Preparation Method		3050B	3050B	3050B	3050B	3050B	
Date Analyzed		08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Antimony	5.0	5.0	ND	ND	ND	ND	ND
Arsenic	2.5	2.5	ND	ND	ND	ND	ND
Barium	5.0	5.0	ND	90.9	113	73.5	82.7
Beryllium	2.5	2.5	ND	ND	ND	ND	ND
Cadmium	2.5	2.5	ND	ND	ND	ND	ND
Chromium	5.0	5.0	ND	11.8	13.0	11.6	11.4
Cobalt	5.0	5.0	ND	ND	ND	8.32	7.91
Copper	5.0	5.0	ND	17.3	19.4	17.8	17.7
Lead	5.0	5.0	ND	16.1	22.6	ND	6.60
Mercury (By EPA 7471)	0.2	0.2	ND	ND	ND	0.551	ND
Molybdenum	5.0	5.0	ND	ND	ND	ND	ND
Nickel	5.0	5.0	ND	8.71	8.65	8.83	9.71
Selenium	5.0	5.0	ND	ND	ND	ND	ND
Silver	5.0	5.0	ND	ND	ND	ND	ND
Thallium	5.0	5.0	ND	ND	ND	ND	ND
Vanadium	5.0	5.0	ND	23.5	23.2	31.6	32.6
Zinc	5.0	5.0	ND	72.2	86.7	39.3	46.2



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Attn: Christine Brendle

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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0822 / 2C3

Our Lab I.D.			89062.09	89062.10	89062.13	89062.14	89062.15
Client Sample I.D.			HA2-0.75'	HA2-1.0'	HA3-0.5'	HA3-0.75'	HA3-1.0'
Date Sampled			08/21/2017	08/21/2017	08/21/2017	08/21/2017	08/21/2017
Date Prepared			08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Antimony	5.0	5.0	ND	ND	ND	ND	ND
Arsenic	2.5	2.5	ND	ND	ND	ND	ND
Barium	5.0	5.0	84.3	77.7	51.7	69.4	34.5
Beryllium	2.5	2.5	ND	ND	ND	ND	ND
Cadmium	2.5	2.5	ND	ND	ND	ND	ND
Chromium	5.0	5.0	14.6	11.7	7.04	7.18	5.54
Cobalt	5.0	5.0	9.04	6.56	ND	ND	ND
Copper	5.0	5.0	21.6	18.4	10.8	10.4	7.04
Lead	5.0	5.0	12.8	18.5	ND	ND	ND
Mercury (By EPA 7471)	0.2	0.2	ND	ND	ND	ND	ND
Molybdenum	5.0	5.0	ND	ND	ND	ND	ND
Nickel	5.0	5.0	11.2	9.49	5.58	6.45	ND
Selenium	5.0	5.0	ND	ND	ND	ND	ND
Silver	5.0	5.0	ND	ND	ND	ND	ND
Thallium	5.0	5.0	ND	ND	ND	ND	ND
Vanadium	5.0	5.0	34.0	26.3	17.6	19.3	14.2
Zinc	5.0	5.0	56.4	62.4	28.5	30.0	21.5





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Telephone: (909)274-1646

Attn: Christine Brendle

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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0822-72C3

Our Lab I.D.	89062.18		
Client Sample I.D.	HA4-0.5'		
Date Sampled	08/21/2017		
Date Prepared	08/22/2017		
Preparation Method	3050B		
Date Analyzed	08/23/2017		
Matrix	Soil		
Units	mg/Kg		
Dilution Factor	1		
Analytes	MDL	PQL	Results
Antimony	5.0	5.0	ND
Arsenic	2.5	2.5	ND
Barium	5.0	5.0	80.3
Beryllium	2.5	2.5	ND
Cadmium	2.5	2.5	ND
Chromium	5.0	5.0	11.5
Cobalt	5.0	5.0	5.86
Copper	5.0	5.0	19.2
Lead	5.0	5.0	21.0
Mercury (By EPA 7471)	0.2	0.2	ND
Molybdenum	5.0	5.0	ND
Nickel	5.0	5.0	8.80
Selenium	5.0	5.0	ND
Silver	5.0	5.0	ND
Thallium	5.0	5.0	ND
Vanadium	5.0	5.0	22.3
Zinc	5.0	5.0	68.3



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0822172C4

Our Lab I.D.		Method Blank	89062.19	89062.20	89062.24	89062.25
Client Sample I.D.			HA4-0.75'	HA4-1.0'	HA5-0.5'	HA5-0.75'
Date Sampled			08/21/2017	08/21/2017	08/21/2017	08/21/2017
Date Prepared		08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017
Preparation Method		3050B	3050B	3050B	3050B	3050B
Date Analyzed		08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
Antimony	5.0	5.0	ND	ND	ND	ND
Arsenic	2.5	2.5	ND	ND	ND	ND
Barium	5.0	5.0	ND	61.7	69.3	94.5
Beryllium	2.5	2.5	ND	ND	ND	ND
Cadmium	2.5	2.5	ND	ND	ND	ND
Chromium	5.0	5.0	ND	10.5	11.6	11.1
Cobalt	5.0	5.0	ND	6.15	6.53	7.12
Copper	5.0	5.0	ND	12.5	14.6	16.3
Lead	5.0	5.0	ND	10.1	28.6	10.2
Mercury (By EPA 7471)	0.2	0.2	ND	ND	ND	ND
Molybdenum	5.0	5.0	ND	ND	ND	ND
Nickel	5.0	5.0	ND	8.69	9.14	9.26
Selenium	5.0	5.0	ND	ND	ND	ND
Silver	5.0	5.0	ND	ND	ND	ND
Thallium	5.0	5.0	ND	ND	ND	ND
Vanadium	5.0	5.0	ND	21.5	23.0	29.3
Zinc	5.0	5.0	ND	47.4	58.2	46.3



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0822172C4

Our Lab I.D.		89062.26	89062.29	89062.30	89062.31	89062.34	
Client Sample I.D.		HA5-1.0'	HA6-0.5'	HA6-0.75'	HA6-1.0'	HA7-0.5'	
Date Sampled		08/21/2017	08/21/2017	08/21/2017	08/21/2017	08/21/2017	
Date Prepared		08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017	
Preparation Method		3050B	3050B	3050B	3050B	3050B	
Date Analyzed		08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Antimony	5.0	5.0	ND	ND	ND	ND	ND
Arsenic	2.5	2.5	ND	8.06	ND	ND	ND
Barium	5.0	5.0	79.0	72.5	76.6	75.2	86.2
Beryllium	2.5	2.5	ND	ND	ND	ND	ND
Cadmium	2.5	2.5	ND	ND	ND	ND	ND
Chromium	5.0	5.0	10.9	9.63	11.3	10.2	10.5
Cobalt	5.0	5.0	6.94	6.13	6.83	7.37	7.83
Copper	5.0	5.0	17.5	13.5	14.8	15.4	15.1
Lead	5.0	5.0	8.55	6.93	6.57	5.81	5.42
Mercury (By EPA 7471)	0.2	0.2	ND	ND	ND	ND	ND
Molybdenum	5.0	5.0	ND	ND	ND	ND	ND
Nickel	5.0	5.0	10.8	8.43	8.97	8.21	9.05
Selenium	5.0	5.0	ND	ND	ND	ND	ND
Silver	5.0	5.0	ND	ND	ND	ND	ND
Thallium	5.0	5.0	ND	ND	ND	ND	ND
Vanadium	5.0	5.0	27.4	28.7	29.9	28.3	31.6
Zinc	5.0	5.0	47.9	36.4	37.7	38.1	41.8



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0822172C4

Our Lab I.D.			89062.35	89062.36			
Client Sample I.D.			HA7-0.75'	HA7-1.0'			
Date Sampled			08/21/2017	08/21/2017			
Date Prepared			08/22/2017	08/22/2017			
Preparation Method			3050B	3050B			
Date Analyzed			08/23/2017	08/23/2017			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	MDL	PQL	Results	Results			
Antimony	5.0	5.0	ND	ND			
Arsenic	2.5	2.5	ND	ND			
Barium	5.0	5.0	86.4	91.2			
Beryllium	2.5	2.5	ND	ND			
Cadmium	2.5	2.5	ND	ND			
Chromium	5.0	5.0	12.4	12.5			
Cobalt	5.0	5.0	8.42	8.64			
Copper	5.0	5.0	19.7	19.2			
Lead	5.0	5.0	10.0	9.12			
Mercury (By EPA 7471)	0.2	0.2	ND	ND			
Molybdenum	5.0	5.0	ND	ND			
Nickel	5.0	5.0	10.2	10.0			
Selenium	5.0	5.0	ND	ND			
Silver	5.0	5.0	ND	ND			
Thallium	5.0	5.0	ND	ND			
Vanadium	5.0	5.0	31.9	32.0			
Zinc	5.0	5.0	49.3	47.5			



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0822172C5

Our Lab I.D.			Method Blank	89062.01	89062.05	89062.06	89062.07
Client Sample I.D.				AC1	AC2	AC3	AC4
Date Sampled				08/21/2017	08/21/2017	08/21/2017	08/21/2017
Date Prepared			08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017
Matrix			Solid	Solid	Solid	Solid	Solid
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Antimony	5.0	5.0	ND	ND	ND	ND	ND
Arsenic	2.5	2.5	ND	ND	ND	2.53	ND
Barium	5.0	5.0	ND	88.8	70.7	66.1	129
Beryllium	2.5	2.5	ND	ND	ND	ND	ND
Cadmium	2.5	2.5	ND	ND	ND	ND	ND
Chromium	5.0	5.0	ND	9.64	6.33	5.78	6.06
Cobalt	5.0	5.0	ND	6.70	5.62	ND	5.72
Copper	5.0	5.0	ND	20.5	12.4	14.8	35.2
Lead	5.0	5.0	ND	5.47	ND	ND	ND
Mercury (By EPA 7471)	0.2	0.2	ND	ND	ND	ND	ND
Molybdenum	5.0	5.0	ND	ND	ND	ND	ND
Nickel	5.0	5.0	ND	13.6	11.4	13.6	12.3
Selenium	5.0	5.0	ND	ND	ND	ND	ND
Silver	5.0	5.0	ND	ND	ND	ND	ND
Thallium	5.0	5.0	ND	ND	ND	ND	ND
Vanadium	5.0	5.0	ND	26.1	21.3	21.0	31.9
Zinc	5.0	5.0	ND	60.2	65.0	32.5	33.0



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0822172C5

Our Lab I.D.			89062.11	89062.12	89062.16	89062.17	89062.21
Client Sample I.D.			AC5	AC6	AC7	AC8	AC9
Date Sampled			08/21/2017	08/21/2017	08/21/2017	08/21/2017	08/21/2017
Date Prepared			08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017
Matrix			Solid	Solid	Solid	Solid	Solid
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Antimony	5.0	5.0	ND	ND	ND	ND	ND
Arsenic	2.5	2.5	ND	ND	ND	ND	ND
Barium	5.0	5.0	63.9	54.1	40.7	77.0	51.8
Beryllium	2.5	2.5	ND	ND	ND	ND	ND
Cadmium	2.5	2.5	ND	ND	ND	ND	ND
Chromium	5.0	5.0	10.8	26.8	ND	6.97	ND
Cobalt	5.0	5.0	7.16	ND	ND	5.45	ND
Copper	5.0	5.0	23.1	8.53	5.60	23.1	13.5
Lead	5.0	5.0	ND	ND	ND	ND	ND
Mercury (By EPA 7471)	0.2	0.2	ND	ND	ND	ND	ND
Molybdenum	5.0	5.0	ND	ND	ND	ND	ND
Nickel	5.0	5.0	16.8	10.8	7.44	13.5	11.5
Selenium	5.0	5.0	ND	ND	ND	ND	ND
Silver	5.0	5.0	ND	ND	ND	ND	ND
Thallium	5.0	5.0	ND	ND	ND	ND	ND
Vanadium	5.0	5.0	31.5	25.5	17.1	32.5	25.6
Zinc	5.0	5.0	55.0	26.7	28.0	36.4	29.9



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## ANALYTICAL RESULTS

### Ordered By

Southern California Edison Company  
1 Innovation Way  
Pomona, CA 91768-

### Site

Irwindale Corporate Warehouse  
13025 E. Los Angeles St.  
Irwindale, CA 91706

Telephone: (909)274-1646

Attn: Christine Brendle

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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0822172C5

Our Lab I.D.	89062.22		
Client Sample I.D.	AC10		
Date Sampled	08/21/2017		
Date Prepared	08/22/2017		
Preparation Method	3050B		
Date Analyzed	08/23/2017		
Matrix	Solid		
Units	mg/Kg		
Dilution Factor	1		
Analytes	MDL	PQL	Results
Antimony	5.0	5.0	ND
Arsenic	2.5	2.5	ND
Barium	5.0	5.0	38.6
Beryllium	2.5	2.5	ND
Cadmium	2.5	2.5	ND
Chromium	5.0	5.0	ND
Cobalt	5.0	5.0	ND
Copper	5.0	5.0	7.81
Lead	5.0	5.0	ND
Mercury (By EPA 7471)	0.2	0.2	ND
Molybdenum	5.0	5.0	ND
Nickel	5.0	5.0	9.50
Selenium	5.0	5.0	ND
Silver	5.0	5.0	ND
Thallium	5.0	5.0	ND
Vanadium	5.0	5.0	20.6
Zinc	5.0	5.0	22.2



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0822172C6

Our Lab I.D.		Method Blank	89062.23	89062.27	89062.28	89062.32	
Client Sample I.D.			AC11	AC12	AC13	AC14	
Date Sampled			08/21/2017	08/21/2017	08/21/2017	08/21/2017	
Date Prepared		08/22/2017	08/22/2017	08/22/2017	08/22/2017	08/22/2017	
Preparation Method		3050B	3050B	3050B	3050B	3050B	
Date Analyzed		08/23/2017	08/23/2017	08/23/2017	08/23/2017	08/23/2017	
Matrix		Solid	Solid	Solid	Solid	Solid	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Antimony	5.0	5.0	ND	ND	ND	ND	ND
Arsenic	2.5	2.5	ND	ND	ND	ND	ND
Barium	5.0	5.0	ND	78.4	66.8	67.0	50.3
Beryllium	2.5	2.5	ND	ND	ND	ND	ND
Cadmium	2.5	2.5	ND	ND	ND	ND	ND
Chromium	5.0	5.0	ND	ND	ND	5.12	ND
Cobalt	5.0	5.0	ND	ND	ND	ND	ND
Copper	5.0	5.0	ND	11.4	12.4	12.0	10.1
Lead	5.0	5.0	ND	ND	ND	ND	ND
Mercury (By EPA 7471)	0.2	0.2	ND	ND	ND	ND	ND
Molybdenum	5.0	5.0	ND	ND	ND	ND	ND
Nickel	5.0	5.0	ND	9.34	9.15	10.0	8.48
Selenium	5.0	5.0	ND	ND	ND	ND	ND
Silver	5.0	5.0	ND	ND	ND	ND	ND
Thallium	5.0	5.0	ND	ND	ND	ND	ND
Vanadium	5.0	5.0	ND	50.1	53.8	39.4	53.3
Zinc	5.0	5.0	ND	25.5	26.5	35.6	31.8





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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0822172C6

Our Lab I.D.	89062.33		
Client Sample I.D.	AC15		
Date Sampled	08/21/2017		
Date Prepared	08/22/2017		
Preparation Method	3050B		
Date Analyzed	08/23/2017		
Matrix	Solid		
Units	mg/Kg		
Dilution Factor	1		
Analytes	MDL	PQL	Results
Antimony	5.0	5.0	ND
Arsenic	2.5	2.5	ND
Barium	5.0	5.0	128
Beryllium	2.5	2.5	ND
Cadmium	2.5	2.5	ND
Chromium	5.0	5.0	6.62
Cobalt	5.0	5.0	6.05
Copper	5.0	5.0	15.7
Lead	5.0	5.0	ND
Mercury (By EPA 7471)	0.2	0.2	ND
Molybdenum	5.0	5.0	ND
Nickel	5.0	5.0	11.7
Selenium	5.0	5.0	ND
Silver	5.0	5.0	ND
Thallium	5.0	5.0	ND
Vanadium	5.0	5.0	47.9
Zinc	5.0	5.0	37.8



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0822172C3; Dup or Spiked Sample: 89062.02; LCS: Clean Sand; QC Prepared: 08/22/2017; QC Analyzed: 08/23/2017;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	48.7	97.4	50.0	48.2	96.4	1.0	75-125	<15
Arsenic	0.00	50.0	49.0	98.0	50.0	49.7	99.4	1.4	75-125	<15
Barium	90.9	50.0	146	110	50.0	146	110	<1	75-125	<15
Beryllium	0.00	50.0	51.0	102	50.0	51.0	102	<1	75-125	<15
Cadmium	0.00	50.0	44.0	88.0	50.0	43.7	87.4	<1	75-125	<15
Chromium	11.8	50.0	58.0	92.4	50.0	57.7	91.8	<1	75-125	<15
Cobalt	0.00	50.0	47.5	95.0	50.0	47.3	94.6	<1	75-125	<15
Copper	17.3	50.0	67.3	100	50.0	67.3	100	<1	75-125	<15
Lead	16.1	50.0	55.6	79.0	50.0	55.2	78.2	1.0	75-125	<15
Mercury (By EPA 7471)	0.0500	0.500	0.625	115	0.500	0.615	113	1.8	75-125	<15
Molybdenum	0.00	50.0	45.5	91.0	50.0	45.3	90.6	<1	75-125	<15
Nickel	8.71	50.0	49.9	82.4	50.0	49.7	82.0	<1	75-125	<15
Selenium	0.00	50.0	41.9	83.8	50.0	41.0	82.0	2.2	75-125	<15
Silver	0.00	50.0	48.0	96.0	50.0	48.0	96.0	<1	75-125	<15
Thallium	0.00	50.0	36.2 #	72.4	50.0	36.7 #	73.4	1.4	75-125	<15
Vanadium	23.5	50.0	72.0	97.0	50.0	72.0	97.0	<1	75-125	<15
Zinc	72.2	50.0	113	81.6	50.0	113	81.6	<1	75-125	<15

QC Batch No: 0822172C3; Dup or Spiked Sample: 89062.02; LCS: Clean Sand; QC Prepared: 08/22/2017; QC Analyzed: 08/23/2017;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Antimony	50.0	50.0	100	50.0	50.5	101	<1	75-125	<15
Arsenic	50.0	49.8	99.6	50.0	50.0	100	<1	75-125	<15
Barium	50.0	51.5	103	50.0	50.5	101	2.0	75-125	<15
Beryllium	50.0	55.0	110	50.0	55.0	110	<1	75-125	<15
Cadmium	50.0	51.0	102	50.0	50.5	101	<1	75-125	<15
Chromium	50.0	51.0	102	50.0	51.5	103	<1	75-125	<15
Cobalt	50.0	51.0	102	50.0	50.0	100	2.0	75-125	<15
Copper	50.0	51.5	103	50.0	50.5	101	2.0	75-125	<15
Lead	50.0	48.5	97.0	50.0	49.2	98.4	1.4	75-125	<15



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## QUALITY CONTROL RESULTS

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Project ID: IO# 337145  
Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0822172C3; Dup or Spiked Sample: 89062.02; LCS: Clean Sand; QC Prepared: 08/22/2017; QC Analyzed: 08/23/2017;  
Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.560	112	0.500	0.560	112	<1	75-125	<15	
Molybdenum	50.0	49.0	98.0	50.0	49.4	98.8	<1	75-125	<15	
Nickel	50.0	49.5	99.0	50.0	48.7	97.4	1.6	75-125	<15	
Selenium	50.0	51.5	103	50.0	51.0	102	<1	75-125	<15	
Silver	50.0	52.0	104	50.0	51.0	102	1.9	75-125	<15	
Thallium	50.0	51.5	103	50.0	51.5	103	<1	75-125	<15	
Vanadium	50.0	51.0	102	50.0	50.0	100	2.0	75-125	<15	
Zinc	50.0	52.5	105	50.0	51.5	103	1.9	75-125	<15	



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Attn: Christine Brendle

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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0822172C4; Dup or Spiked Sample: 89062.19; LCS: Clean Sand; QC Prepared: 08/22/2017; QC Analyzed: 08/23/2017;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	49.5	99.0	50.0	49.2	98.4	<1	75-125	<15
Arsenic	0.00	50.0	48.0	96.0	50.0	47.9	95.8	<1	75-125	<15
Barium	61.7	50.0	110	96.6	50.0	110	96.6	<1	75-125	<15
Beryllium	0.00	50.0	54.5	109	50.0	54.0	108	<1	75-125	<15
Cadmium	0.00	50.0	49.5	99.0	50.0	49.6	99.2	<1	75-125	<15
Chromium	10.5	50.0	60.0	99.0	50.0	60.1	99.2	<1	75-125	<15
Cobalt	6.15	50.0	54.1	95.9	50.0	54.2	96.1	<1	75-125	<15
Copper	12.5	50.0	65.0	105	50.0	65.0	105	<1	75-125	<15
Lead	10.1	50.0	53.9	87.6	50.0	54.3	88.4	<1	75-125	<15
Mercury (By EPA 7471)	0.0110	0.500	0.480	93.8	0.500	0.486	95.0	1.3	75-125	<15
Molybdenum	0.00	50.0	49.3	98.6	50.0	49.4	98.8	<1	75-125	<15
Nickel	8.69	50.0	54.3	91.2	50.0	54.4	91.4	<1	75-125	<15
Selenium	0.00	50.0	43.2	86.4	50.0	42.6	85.2	1.4	75-125	<15
Silver	0.00	50.0	49.1	98.2	50.0	49.0	98.0	<1	75-125	<15
Thallium	0.00	50.0	42.3	84.6	50.0	42.3	84.6	<1	75-125	<15
Vanadium	21.5	50.0	71.2	99.4	50.0	71.0	99.0	<1	75-125	<15
Zinc	47.4	50.0	93.0	91.2	50.0	92.9	91.0	<1	75-125	<15

QC Batch No: 0822172C4; Dup or Spiked Sample: 89062.19; LCS: Clean Sand; QC Prepared: 08/22/2017; QC Analyzed: 08/23/2017;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Antimony	50.0	51.0	102	50.0	51.0	102	<1	75-125	<15
Arsenic	50.0	50.5	101	50.0	51.5	103	2.0	75-125	<15
Barium	50.0	51.5	103	50.0	52.0	104	<1	75-125	<15
Beryllium	50.0	56.0	112	50.0	55.5	111	<1	75-125	<15
Cadmium	50.0	51.5	103	50.0	52.0	104	<1	75-125	<15
Chromium	50.0	49.9	99.8	50.0	52.5	105	5.1	75-125	<15
Cobalt	50.0	51.5	103	50.0	51.5	103	<1	75-125	<15
Copper	50.0	51.0	102	50.0	52.0	104	1.9	75-125	<15
Lead	50.0	49.3	98.6	50.0	49.5	99.0	<1	75-125	<15



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## QUALITY CONTROL RESULTS

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Project ID: IO# 337145  
Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0822172C4; Dup or Spiked Sample: 89062.19; LCS: Clean Sand; QC Prepared: 08/22/2017; QC Analyzed: 08/23/2017;  
Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.448	89.6	0.500	0.456	91.2	1.8	75-125	<15	
Molybdenum	50.0	50.0	100	50.0	50.0	100	<1	75-125	<15	
Nickel	50.0	49.8	99.6	50.0	50.5	101	1.4	75-125	<15	
Selenium	50.0	51.0	102	50.0	52.0	104	1.9	75-125	<15	
Silver	50.0	51.5	103	50.0	52.5	105	1.9	75-125	<15	
Thallium	50.0	53.0	106	50.0	53.0	106	<1	75-125	<15	
Vanadium	50.0	51.0	102	50.0	51.5	103	<1	75-125	<15	
Zinc	50.0	54.5	109	50.0	54.5	109	<1	75-125	<15	



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082217-2; Dup or Spiked Sample: 89062.15; LCS: Clean Sand; QC Prepared: 08/22/2017; QC Analyzed: 08/22/2017;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	0.500	0.484	96.8	0.500	0.481	96.2	<1	50-150	<20
Aroclor-1260 (PCB-1260)	0.00	0.500	0.550	110	0.500	0.590	118	7.0	50-150	<20
<b>Surrogates</b>										
Decachlorobiphenyl	0.00	0.0500	0.0560	112	0.0500	0.0640	128	13.3	30-150	<20
Tetrachloro-m-xylene	0.00	0.0500	0.0590	118	0.0500	0.0660	132	11.2	30-150	<20

QC Batch No: 082217-2; Dup or Spiked Sample: 89062.15; LCS: Clean Sand; QC Prepared: 08/22/2017; QC Analyzed: 08/22/2017;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Aroclor-1016 (PCB-1016)	0.500	0.455	91.0	0.500	0.356	71.2	24.4	50-150	<20
Aroclor-1260 (PCB-1260)	0.500	0.500	100	0.500	0.535	107	6.8	50-150	<20
<b>Surrogates</b>									
Decachlorobiphenyl	0.0500	0.0610	122	0.0500	0.0595	119	2.5	30-150	<20
Tetrachloro-m-xylene	0.0500	0.0515	103	0.0500	0.0530	106	2.9	30-150	<20



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082217-3; Dup or Spiked Sample: 89062.20; LCS: Clean Sand; QC Prepared: 08/22/2017; QC Analyzed: 08/23/2017;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	0.500	0.463	92.6	0.500	0.495	99.0	6.7	50-150	<20
Aroclor-1260 (PCB-1260)	0.00	0.500	0.550	110	0.500	0.620	124	12.0	50-150	<20
<b>Surrogates</b>										
Decachlorobiphenyl	0.00	0.0500	0.0580	116	0.0500	0.0590	118	1.7	30-150	<20
Tetrachloro-m-xylene	0.00	0.0500	0.0605	121	0.0500	0.0690	138	13.1	30-150	<20

QC Batch No: 082217-3; Dup or Spiked Sample: 89062.20; LCS: Clean Sand; QC Prepared: 08/22/2017; QC Analyzed: 08/23/2017;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Aroclor-1016 (PCB-1016)	0.500	0.425	85.0	0.500	0.456	91.2	7.0	50-150	<20
Aroclor-1260 (PCB-1260)	0.500	0.555	111	0.500	0.560	112	<1	50-150	<20
<b>Surrogates</b>									
Decachlorobiphenyl	0.0500	0.0555	111	0.0500	0.0560	112	<1	30-150	<20
Tetrachloro-m-xylene	0.0500	0.0520	104	0.0500	0.0530	106	1.9	30-150	<20



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Edison Company  
 1 Innovation Way  
 Pomona, CA 91768-

### Site

Irwindale Corporate Warehouse  
 13025 E. Los Angeles St.  
 Irwindale, CA 91706

Telephone: (909)274-1646

Attn: Christine Brendle

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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082217PB1; Dup or Spiked Sample: 89062.15; LCS: Clean Sand; QC Prepared: 08/22/2017; QC Analyzed: 08/22/2017;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	548	110	500	497	99.4	10.1	75-125	<20
<b>Surrogates</b>										
Chlorobenzene	0.00	100	107	107	100	87.5	87.5	18.2	75-125	<20

QC Batch No: 082217PB1; Dup or Spiked Sample: 89062.15; LCS: Clean Sand; QC Prepared: 08/22/2017; QC Analyzed: 08/22/2017;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
TPH as Diesel (C13-C22)	500	554	111	500	574	115	3.54	75-125	<20
<b>Surrogates</b>									
Chlorobenzene	100	102	102	100	105	105	2.94	75-125	<20





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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 082217PB2; Dup or Spiked Sample: 89064.16; LCS: Clean Sand; QC Prepared: 08/22/2017; QC Analyzed: 08/23/2017;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	609	122	500	614	123	<1	75-125	<20
<b>Surrogates</b>										
Chlorobenzene	0.00	100	120	120	100	122	122	1.67	75-125	<20

QC Batch No: 082217PB2; Dup or Spiked Sample: 89064.16; LCS: Clean Sand; QC Prepared: 08/22/2017; QC Analyzed: 08/23/2017;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
TPH as Diesel (C13-C22)	500	580	116	500	572	114	1.74	75-125	<20
<b>Surrogates</b>									
Chlorobenzene	100	106	106	100	106	106	<1	75-125	<20



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082217NB1; Dup or Spiked Sample: 89062.02AGA; LCS: Clean Sand; QC Prepared: 08/22/2017; QC Analyzed: 08/22/2017;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	0.00	1.00	0.634M	63.4	1.00	0.608M	60.8	4.2	75-125	<20
<b>Surrogates</b>										
Bromofluorobenzene	0.00	0.0500	0.0540	108	0.0500	0.0500	100	7.7	75-125	<20

QC Batch No: 082217NB1; Dup or Spiked Sample: 89062.02AGA; LCS: Clean Sand; QC Prepared: 08/22/2017; QC Analyzed: 08/22/2017;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.925	92.5	1.00	0.893	89.3	3.5	75-125	<20
<b>Surrogates</b>									
Bromofluorobenzene	0.0500	0.0488	97.6	0.0500	0.0515	103	5.4	75-125	<20



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 082217NB2; LCS: Clean Sand; LCS Prepared: 08/22/2017; LCS Analyzed: 08/22/2017; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.830	82.9	1.00	0.910	90.8	9.10	75-125	<20	
<b>Surrogates</b>										
Bromofluorobenzene	0.0500	0.0481	96.2	0.0500	0.0523	105	9.15	75-125	<20	



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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0822172C5; Dup or Spiked Sample: 89062.01; LCS: Blank; QC Prepared: 08/22/2017; QC Analyzed: 08/23/2017;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	49.5	99.0	50.0	48.7	97.4	1.6	75-125	<15
Arsenic	0.00	50.0	49.4	98.8	50.0	49.7	99.4	<1	75-125	<15
Barium	88.8	50.0	128	78.4	50.0	129	80.4	2.5	75-125	<15
Beryllium	0.00	50.0	52.0	104	50.0	52.5	105	<1	75-125	<15
Cadmium	0.00	50.0	48.5	97.0	50.0	48.1	96.2	<1	75-125	<15
Chromium	9.64	50.0	59.0	98.7	50.0	58.3	97.3	1.4	75-125	<15
Cobalt	6.70	50.0	53.8	94.2	50.0	53.4	93.4	<1	75-125	<15
Copper	20.5	50.0	76.5	112	50.0	76.0	111	<1	75-125	<15
Lead	5.47	50.0	47.1	83.3	50.0	46.7	82.5	<1	75-125	<15
Mercury (By EPA 7471)	0.0110	0.500	0.432	84.2	0.500	0.406	79.0	6.4	75-125	<15
Molybdenum	0.00	50.0	50.5	101	50.0	50.0	100	<1	75-125	<15
Nickel	13.6	50.0	57.2	87.2	50.0	56.6	86.0	1.4	75-125	<15
Selenium	0.00	50.0	43.5	87.0	50.0	44.0	88.0	1.1	75-125	<15
Silver	0.00	50.0	48.0	96.0	50.0	48.1	96.2	<1	75-125	<15
Thallium	0.00	50.0	40.8	81.6	50.0	41.0	82.0	<1	75-125	<15
Vanadium	26.1	50.0	73.2	94.2	50.0	73.7	95.2	1.1	75-125	<15
Zinc	60.2	50.0	102	83.6	50.0	102	83.6	<1	75-125	<15

QC Batch No: 0822172C5; Dup or Spiked Sample: 89062.01; LCS: Blank; QC Prepared: 08/22/2017; QC Analyzed: 08/23/2017;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Antimony	50.0	50.5	101	50.0	50.5	101	<1	75-125	<15
Arsenic	50.0	51.0	102	50.0	50.5	101	<1	75-125	<15
Barium	50.0	51.0	102	50.0	51.5	103	<1	75-125	<15
Beryllium	50.0	56.0	112	50.0	55.5	111	<1	75-125	<15
Cadmium	50.0	51.5	103	50.0	52.5	105	1.9	75-125	<15
Chromium	50.0	49.7	99.4	50.0	52.0	104	4.5	75-125	<15
Cobalt	50.0	51.0	102	50.0	52.0	104	1.9	75-125	<15
Copper	50.0	51.0	102	50.0	51.5	103	<1	75-125	<15
Lead	50.0	49.2	98.4	50.0	49.4	98.8	<1	75-125	<15



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## QUALITY CONTROL RESULTS

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Project ID: IO# 337145  
Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0822172C5; Dup or Spiked Sample: 89062.01; LCS: Blank; QC Prepared: 08/22/2017; QC Analyzed: 08/23/2017;  
Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.560	112	0.500	0.560	112	<1	75-125	<15	
Molybdenum	50.0	49.8	99.6	50.0	50.0	100	<1	75-125	<15	
Nickel	50.0	49.6	99.2	50.0	50.0	100	<1	75-125	<15	
Selenium	50.0	52.0	104	50.0	51.5	103	<1	75-125	<15	
Silver	50.0	51.5	103	50.0	52.0	104	<1	75-125	<15	
Thallium	50.0	52.0	104	50.0	52.5	105	<1	75-125	<15	
Vanadium	50.0	50.5	101	50.0	51.0	102	<1	75-125	<15	
Zinc	50.0	52.5	105	50.0	53.0	106	<1	75-125	<15	



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 Irwindale, CA 91706

Telephone: (909)274-1646

Attn: Christine Brendle

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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0822172C6; Dup or Spiked Sample: 89062.23; LCS: Blank; QC Prepared: 08/22/2017; QC Analyzed: 08/23/2017;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	48.1	96.2	50.0	48.6	97.2	1.0	75-125	<15
Arsenic	0.00	50.0	49.0	98.0	50.0	49.0	98.0	<1	75-125	<15
Barium	78.4	50.0	108 #	59.2	50.0	109 #	61.2	3.3	75-125	<15
Beryllium	0.00	50.0	53.5	107	50.0	53.5	107	<1	75-125	<15
Cadmium	0.00	50.0	48.7	97.4	50.0	48.7	97.4	<1	75-125	<15
Chromium	0.00	50.0	57.0	114	50.0	57.0	114	<1	75-125	<15
Cobalt	0.00	50.0	53.0	106	50.0	52.5	105	<1	75-125	<15
Copper	11.4	50.0	62.9	103	50.0	63.9	105	1.9	75-125	<15
Lead	0.00	50.0	45.7	91.4	50.0	45.5	91.0	<1	75-125	<15
Mercury (By EPA 7471)	0.00300	0.500	0.463	92.0	0.500	0.446	88.6	3.8	75-125	<15
Molybdenum	0.00	50.0	49.5	99.0	50.0	49.3	98.6	<1	75-125	<15
Nickel	9.34	50.0	55.8	92.9	50.0	55.9	93.1	<1	75-125	<15
Selenium	0.00	50.0	43.3	86.6	50.0	44.3	88.6	2.3	75-125	<15
Silver	0.00	50.0	47.7	95.4	50.0	48.1	96.2	<1	75-125	<15
Thallium	0.00	50.0	43.0	86.0	50.0	43.0	86.0	<1	75-125	<15
Vanadium	50.1	50.0	93.4	86.6	50.0	94.5	88.8	2.5	75-125	<15
Zinc	25.5	50.0	74.6	98.2	50.0	74.9	98.8	<1	75-125	<15

QC Batch No: 0822172C6; Dup or Spiked Sample: 89062.23; LCS: Blank; QC Prepared: 08/22/2017; QC Analyzed: 08/23/2017;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Antimony	50.0	51.5	103	50.0	51.0	102	<1	75-125	<15
Arsenic	50.0	51.0	102	50.0	50.5	101	<1	75-125	<15
Barium	50.0	51.5	103	50.0	51.0	102	<1	75-125	<15
Beryllium	50.0	55.5	111	50.0	55.5	111	<1	75-125	<15
Cadmium	50.0	52.0	104	50.0	51.5	103	<1	75-125	<15
Chromium	50.0	52.5	105	50.0	50.0	100	4.9	75-125	<15
Cobalt	50.0	52.0	104	50.0	51.0	102	1.9	75-125	<15
Copper	50.0	51.5	103	50.0	51.0	102	<1	75-125	<15
Lead	50.0	49.2	98.4	50.0	49.1	98.2	<1	75-125	<15



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## QUALITY CONTROL RESULTS

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Project ID: IO# 337145  
Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0822172C6; Dup or Spiked Sample: 89062.23; LCS: Blank; QC Prepared: 08/22/2017; QC Analyzed: 08/23/2017;  
Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.560	112	0.500	0.560	112	<1	75-125	<15	
Molybdenum	50.0	50.5	101	50.0	50.5	101	<1	75-125	<15	
Nickel	50.0	50.0	100	50.0	49.5	99.0	1.0	75-125	<15	
Selenium	50.0	52.5	105	50.0	52.0	104	<1	75-125	<15	
Silver	50.0	52.0	104	50.0	51.5	103	<1	75-125	<15	
Thallium	50.0	53.0	106	50.0	52.5	105	<1	75-125	<15	
Vanadium	50.0	51.5	103	50.0	51.0	102	<1	75-125	<15	
Zinc	50.0	54.5	109	50.0	52.5	105	3.7	75-125	<15	



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## QUALITY CONTROL RESULTS

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Attn: Christine Brendle

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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082217-2A; Dup or Spiked Sample: 89062.15; LCS: Blank; QC Prepared: 08/22/2017; QC Analyzed: 08/22/2017;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	0.500	0.484	96.8	0.500	0.481	96.2	<1	50-150	<20
Aroclor-1260 (PCB-1260)	0.00	0.500	0.550	110	0.500	0.590	118	7.0	50-150	<20
<b>Surrogates</b>										
Decachlorobiphenyl	0.00	0.0500	0.0560	112	0.0500	0.0640	128	13.3	30-150	<20
Tetrachloro-m-xylene	0.00	0.0500	0.0590	118	0.0500	0.0660	132	11.2	30-150	<20

QC Batch No: 082217-2A; Dup or Spiked Sample: 89062.15; LCS: Blank; QC Prepared: 08/22/2017; QC Analyzed: 08/22/2017;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Aroclor-1016 (PCB-1016)	0.500	0.455	91.0	0.500	0.356	71.2	24.4	50-150	<20
Aroclor-1260 (PCB-1260)	0.500	0.500	100	0.500	0.535	107	6.8	50-150	<20
<b>Surrogates</b>									
Decachlorobiphenyl	0.0500	0.0610	122	0.0500	0.0595	119	2.5	30-150	<20
Tetrachloro-m-xylene	0.0500	0.0515	103	0.0500	0.0530	106	2.9	30-150	<20





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Project ID: IO# 337145

Project Name: Irwindale C.W. Pav. Alter.

AETL Job Number	Submitted	Client
89062	08/21/2017	SCE

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 082217-3A; Dup or Spiked Sample: 89062.20; LCS: Blank; QC Prepared: 08/22/2017; QC Analyzed: 08/23/2017;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	0.500	0.463	92.6	0.500	0.495	99.0	6.7	50-150	<20
Aroclor-1260 (PCB-1260)	0.00	0.500	0.550	110	0.500	0.620	124	12.0	50-150	<20
<b>Surrogates</b>										
Decachlorobiphenyl	0.00	0.0500	0.0580	116	0.0500	0.0590	118	1.7	30-150	<20
Tetrachloro-m-xylene	0.00	0.0500	0.0605	121	0.0500	0.0690	138	13.1	30-150	<20

QC Batch No: 082217-3A; Dup or Spiked Sample: 89062.20; LCS: Blank; QC Prepared: 08/22/2017; QC Analyzed: 08/23/2017;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Aroclor-1016 (PCB-1016)	0.500	0.425	85.0	0.500	0.456	91.2	7.0	50-150	<20
Aroclor-1260 (PCB-1260)	0.500	0.555	111	0.500	0.560	112	<1	50-150	<20
<b>Surrogates</b>									
Decachlorobiphenyl	0.0500	0.0555	111	0.0500	0.0560	112	<1	30-150	<20
Tetrachloro-m-xylene	0.0500	0.0520	104	0.0500	0.0530	106	1.9	30-150	<20



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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above PQL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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### Ordered By

Southern California Edison Company  
1 Innovation Way  
Pomona, CA 91768-

Number of Pages 8  
Date Received 06/25/2018  
Date Reported 06/25/2018

Telephone: (909)274-1646  
Attention: Christine Brendle

Job Number	Order Date	Client
93076	06/25/2018	SCE

Project ID: IO# 337145  
Project Name: Irwindale CW  
Site: Irwindale, CA

Enclosed please find results of analyses of 6 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director





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## COOLER RECEIPT FORM

Client Name: <u>SCE</u>			
Project Name: <u>LOW WDALE</u>			
AETL Job Number: <u>93076</u>			
Date Received: <u>08/25/10</u>		Received by: <u>Jean Claude</u>	
Carrier: <input checked="" type="checkbox"/> AETL Courier <input type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler ( <u>1</u> ) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <u>2-5°C</u> , No 2: _____, No 3: _____			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):			
How are samples preserved: <input type="checkbox"/> None, <input checked="" type="checkbox"/> Ice, <input type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<input checked="" type="checkbox"/> None, <u>HNO<sub>3</sub></u> , <u>NaOH</u> , <u>ZnOAc</u> , <u>HCl</u> , <u>Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub></u> , <u>MeOH</u>			
Other (Specify):			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	<input checked="" type="checkbox"/>		
2. Are the Sample labels legible?	<input checked="" type="checkbox"/>		
3. Do samples match the COC?	<input checked="" type="checkbox"/>		
4. Are the required analyses clear?	<input checked="" type="checkbox"/>		
5. Is there enough samples for required analysis?	<input checked="" type="checkbox"/>		
6. Are samples sealed with evidence tape?	<u>NA</u>		
7. Are sample containers in good condition?	<input checked="" type="checkbox"/>		
8. Are samples preserved?	<input checked="" type="checkbox"/>		
9. Are samples preserved properly for the intended analysis?	<input checked="" type="checkbox"/>		
10. Are the VOAs free of headspace?	<u>M</u>		
11. Are the jars free of headspace?	<u>J</u>		

Explain all "No" answers for above questions:

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Page: 1 A

### Ordered By

Southern California Edison Company  
1 Innovation Way  
Pomona, CA 91768-

Project ID: IO# 337145  
Date Received 06/25/2018  
Date Reported 06/25/2018

Telephone: (909) 274-1646  
Attention: Christine Brendle

Job Number	Order Date	Client
93076	06/25/2018	SCE

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 6 samples with the following specification on 06/25/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93076.01	HA2	06/25/2018	Soil	1
93076.02	HA3	06/25/2018	Soil	1
93076.03	HA4	06/25/2018	Soil	1
93076.04	HA5	06/25/2018	Soil	1
93076.05	HA6	06/25/2018	Soil	1
93076.06	HA7	06/25/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8260B) ^ SCE	06/25/2018	1	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Edison Company  
 1 Innovation Way  
 Pomona, CA 91768-

### Site

Irwindale, CA

Telephone: (909)274-1646

Attn: Christine Brendle

Page: 2

Project ID: IO# 337145  
 Project Name: Irwindale CW

AETL Job Number	Submitted	Client
93076	06/25/2018	SCE

Method: (8260B), Volatile Organic Compounds by GC/MS (S/W846)

QC Batch No: 0625182A1

Our Lab I.D.		Method Blank	93076.01	93076.02	93076.03	93076.04	
Client Sample I.D.			HA2	HA3	HA4	HA5	
Date Sampled			06/25/2018	06/25/2018	06/25/2018	06/25/2018	
Date Prepared		06/25/2018	06/25/2018	06/25/2018	06/25/2018	06/25/2018	
Preparation Method		5030	5030	5030	5030	5030	
Date Analyzed		06/25/2018	06/25/2018	06/25/2018	06/25/2018	06/25/2018	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Acetone	0.025	0.025	ND	ND	ND	ND	ND
Benzene	0.001	0.001	ND	ND	ND	ND	ND
Bromobenzene (Phenyl bromide)	0.005	0.005	ND	ND	ND	ND	ND
Bromochloromethane	0.005	0.005	ND	ND	ND	ND	ND
Bromodichloromethane	0.005	0.005	ND	ND	ND	ND	ND
Bromoform (Tribromomethane)	0.025	0.025	ND	ND	ND	ND	ND
Bromomethane (Methyl bromide)	0.015	0.015	ND	ND	ND	ND	ND
2-Butanone (MEK)	0.025	0.025	ND	ND	ND	ND	ND
n-Butylbenzene	0.005	0.005	ND	ND	ND	ND	ND
sec-Butylbenzene	0.005	0.005	ND	ND	ND	ND	ND
tert-Butylbenzene	0.005	0.005	ND	ND	ND	ND	ND
Carbon Disulfide	0.025	0.025	ND	ND	ND	ND	ND
Carbon tetrachloride	0.005	0.005	ND	ND	ND	ND	ND
Chlorobenzene	0.005	0.005	ND	ND	ND	ND	ND
Chloroethane	0.015	0.015	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	0.050	0.050	ND	ND	ND	ND	ND
Chloroform (Trichloromethane)	0.005	0.005	ND	ND	ND	ND	ND
Chloromethane (Methyl chloride)	0.015	0.015	ND	ND	ND	ND	ND
2-Chlorotoluene	0.005	0.005	ND	ND	ND	ND	ND
4-Chlorotoluene	0.005	0.005	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	0.005	0.005	ND	ND	ND	ND	ND
Dibromochloromethane	0.005	0.005	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	0.005	0.005	ND	ND	ND	ND	ND
Dibromomethane	0.005	0.005	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	0.005	0.005	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	0.005	0.005	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	0.005	0.005	ND	ND	ND	ND	ND
Dichlorodifluoromethane	0.015	0.015	ND	ND	ND	ND	ND





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## ANALYTICAL RESULTS

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Project ID: IO# 337145  
 Project Name: Irwindale CW

AETL Job Number	Submitted	Client
93076	06/25/2018	SCE

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0625182A1

Our Lab I.D.			Method Blank	93076.01	93076.02	93076.03	93076.04
Client Sample I.D.				HA2	HA3	HA4	HA5
Date Sampled				06/25/2018	06/25/2018	06/25/2018	06/25/2018
Date Prepared			06/25/2018	06/25/2018	06/25/2018	06/25/2018	06/25/2018
Preparation Method			5030	5030	5030	5030	5030
Date Analyzed			06/25/2018	06/25/2018	06/25/2018	06/25/2018	06/25/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
1,1-Dichloroethane	0.005	0.005	ND	ND	ND	ND	ND
1,2-Dichloroethane (EDC)	0.005	0.005	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.005	0.005	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.005	0.005	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.005	0.005	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.005	0.005	ND	ND	ND	ND	ND
1,3-Dichloropropane	0.005	0.005	ND	ND	ND	ND	ND
2,2-Dichloropropane	0.005	0.005	ND	ND	ND	ND	ND
1,1-Dichloropropene	0.005	0.005	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.005	0.005	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.005	0.005	ND	ND	ND	ND	ND
Ethylbenzene	0.001	0.001	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.015	0.015	ND	ND	ND	ND	ND
2-Hexanone	0.025	0.025	ND	ND	ND	ND	ND
Iodomethane	0.005	0.005	ND	ND	ND	ND	ND
Isopropylbenzene	0.005	0.005	ND	ND	ND	ND	ND
p-Isopropyltoluene	0.005	0.005	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	0.025	0.025	ND	ND	ND	ND	ND
Methyl-tert-butyl ether (MTBE)	0.002	0.002	ND	ND	ND	ND	ND
Methylene chloride (DCM)	0.025	0.025	ND	ND	ND	ND	ND
Naphthalene	0.005	0.005	ND	ND	ND	ND	ND
n-Propylbenzene	0.005	0.005	ND	ND	ND	ND	ND
Styrene	0.005	0.005	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	0.005	0.005	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.005	0.005	ND	ND	ND	ND	ND
Tetrachloroethene	0.002	0.002	ND	ND	ND	ND	ND
Toluene (Methyl benzene)	0.001	0.001	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.005	0.005	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.005	0.005	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.005	0.005	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.005	0.005	ND	ND	ND	ND	ND
Trichloroethene	0.0015	0.0015	ND	ND	ND	ND	ND
Trichlorofluoromethane	0.005	0.005	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.001	0.001	ND	ND	ND	ND	ND



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## ANALYTICAL RESULTS

Page: **4**

Project ID: IO# 337145  
 Project Name: Irwindale CW

AETL Job Number	Submitted	Client
93076	06/25/2018	SCE

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0625182A1

Our Lab I.D.		Method Blank	93076.01	93076.02	93076.03	93076.04	
Client Sample I.D.			HA2	HA3	HA4	HA5	
Date Sampled			06/25/2018	06/25/2018	06/25/2018	06/25/2018	
Date Prepared		06/25/2018	06/25/2018	06/25/2018	06/25/2018	06/25/2018	
Preparation Method		5030	5030	5030	5030	5030	
Date Analyzed		06/25/2018	06/25/2018	06/25/2018	06/25/2018	06/25/2018	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
1,2,4-Trimethylbenzene	0.005	0.005	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.005	0.005	ND	ND	ND	ND	ND
Vinyl Acetate	0.025	0.025	ND	ND	ND	ND	ND
Vinyl chloride (Chloroethene)	0.005	0.005	ND	ND	ND	ND	ND
o-Xylene	0.001	0.001	ND	ND	ND	ND	ND
m,p-Xylenes	0.001	0.001	ND	ND	ND	ND	ND
Our Lab I.D.		Method Blank	93076.01	93076.02	93076.03	93076.04	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
Bromofluorobenzene	75-125	102	116	104	105	106	
Dibromofluoromethane	75-125	106	103	111	113	115	
Toluene-d8	75-125	108	110	111	109	108	



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## ANALYTICAL RESULTS

### Ordered By

Southern California Edison Company  
 1 Innovation Way  
 Pomona, CA 91768-

### Site

Irwindale, CA

Telephone: (909)274-1646

Attn: Christine Brendle

Page: 5

Project ID: IO# 337145

Project Name: Irwindale CW

AETL Job Number	Submitted	Client
93076	06/25/2018	SCE

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0625182A1

Our Lab I.D.			93076.05	93076.06		
Client Sample I.D.			HA6	HA7		
Date Sampled			06/25/2018	06/25/2018		
Date Prepared			06/25/2018	06/25/2018		
Preparation Method			5030	5030		
Date Analyzed			06/25/2018	06/25/2018		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Acetone	0.025	0.025	ND	ND		
Benzene	0.001	0.001	ND	ND		
Bromobenzene (Phenyl bromide)	0.005	0.005	ND	ND		
Bromochloromethane	0.005	0.005	ND	ND		
Bromodichloromethane	0.005	0.005	ND	ND		
Bromoform (Tribromomethane)	0.025	0.025	ND	ND		
Bromomethane (Methyl bromide)	0.015	0.015	ND	ND		
2-Butanone (MEK)	0.025	0.025	ND	ND		
n-Butylbenzene	0.005	0.005	ND	ND		
sec-Butylbenzene	0.005	0.005	ND	ND		
tert-Butylbenzene	0.005	0.005	ND	ND		
Carbon Disulfide	0.025	0.025	ND	ND		
Carbon tetrachloride	0.005	0.005	ND	ND		
Chlorobenzene	0.005	0.005	ND	ND		
Chloroethane	0.015	0.015	ND	ND		
2-Chloroethyl vinyl ether	0.050	0.050	ND	ND		
Chloroform (Trichloromethane)	0.005	0.005	ND	ND		
Chloromethane (Methyl chloride)	0.015	0.015	ND	ND		
2-Chlorotoluene	0.005	0.005	ND	ND		
4-Chlorotoluene	0.005	0.005	ND	ND		
1,2-Dibromo-3-chloropropane (DBCP)	0.005	0.005	ND	ND		
Dibromochloromethane	0.005	0.005	ND	ND		
1,2-Dibromoethane (EDB)	0.005	0.005	ND	ND		
Dibromomethane	0.005	0.005	ND	ND		
1,2-Dichlorobenzene	0.005	0.005	ND	ND		
1,3-Dichlorobenzene	0.005	0.005	ND	ND		
1,4-Dichlorobenzene	0.005	0.005	ND	ND		
Dichlorodifluoromethane	0.015	0.015	ND	ND		



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## ANALYTICAL RESULTS

Page: 6

Project ID: IO# 337145  
 Project Name: Irwindale CW

AETL Job Number	Submitted	Client
93076	06/25/2018	SCE

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0625182A1

Our Lab I.D.			93076.05	93076.06			
Client Sample I.D.			HA6	HA7			
Date Sampled			06/25/2018	06/25/2018			
Date Prepared			06/25/2018	06/25/2018			
Preparation Method			5030	5030			
Date Analyzed			06/25/2018	06/25/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	MDL	PQL	Results	Results			
1,1-Dichloroethane	0.005	0.005	ND	ND			
1,2-Dichloroethane (EDC)	0.005	0.005	ND	ND			
1,1-Dichloroethene	0.005	0.005	ND	ND			
cis-1,2-Dichloroethene	0.005	0.005	ND	ND			
trans-1,2-Dichloroethene	0.005	0.005	ND	ND			
1,2-Dichloropropane	0.005	0.005	ND	ND			
1,3-Dichloropropane	0.005	0.005	ND	ND			
2,2-Dichloropropane	0.005	0.005	ND	ND			
1,1-Dichloropropene	0.005	0.005	ND	ND			
cis-1,3-Dichloropropene	0.005	0.005	ND	ND			
trans-1,3-Dichloropropene	0.005	0.005	ND	ND			
Ethylbenzene	0.001	0.001	ND	ND			
Hexachlorobutadiene	0.015	0.015	ND	ND			
2-Hexanone	0.025	0.025	ND	ND			
Iodomethane	0.005	0.005	ND	ND			
Isopropylbenzene	0.005	0.005	ND	ND			
p-Isopropyltoluene	0.005	0.005	ND	ND			
4-Methyl-2-pentanone (MIBK)	0.025	0.025	ND	ND			
Methyl-tert-butyl ether (MTBE)	0.002	0.002	ND	ND			
Methylene chloride (DCM)	0.025	0.025	ND	ND			
Naphthalene	0.005	0.005	ND	ND			
n-Propylbenzene	0.005	0.005	ND	ND			
Styrene	0.005	0.005	ND	ND			
1,1,1,2-Tetrachloroethane	0.005	0.005	ND	ND			
1,1,2,2-Tetrachloroethane	0.005	0.005	ND	ND			
Tetrachloroethene	0.002	0.002	ND	ND			
Toluene (Methyl benzene)	0.001	0.001	ND	ND			
1,2,3-Trichlorobenzene	0.005	0.005	ND	ND			
1,2,4-Trichlorobenzene	0.005	0.005	ND	ND			
1,1,1-Trichloroethane	0.005	0.005	ND	ND			
1,1,2-Trichloroethane	0.005	0.005	ND	ND			
Trichloroethene	0.0015	0.0015	ND	ND			
Trichlorofluoromethane	0.005	0.005	ND	ND			
1,2,3-Trichloropropane	0.001	0.001	ND	ND			



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## ANALYTICAL RESULTS

Page: 7

Project ID: IO# 337145  
 Project Name: Irwindale CW

AETL Job Number	Submitted	Client
93076	06/25/2018	SCE

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0625182A1

Our Lab I.D.			93076.05	93076.06			
Client Sample I.D.			HA6	HA7			
Date Sampled			06/25/2018	06/25/2018			
Date Prepared			06/25/2018	06/25/2018			
Preparation Method			5030	5030			
Date Analyzed			06/25/2018	06/25/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	MDL	PQL	Results	Results			
1,2,4-Trimethylbenzene	0.005	0.005	ND	ND			
1,3,5-Trimethylbenzene	0.005	0.005	ND	ND			
Vinyl Acetate	0.025	0.025	ND	ND			
Vinyl chloride (Chloroethene)	0.005	0.005	ND	ND			
o-Xylene	0.001	0.001	ND	ND			
m,p-Xylenes	0.001	0.001	ND	ND			
Our Lab I.D.			93076.05	93076.06			
Surrogates	%Rec. Limit		% Rec.	% Rec.			
Bromofluorobenzene	75-125		106	105			
Dibromofluoromethane	75-125		118	114			
Toluene-d8	75-125		108	108			



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Edison Company  
 1 Innovation Way  
 Pomona, CA 91768-

### Site

Irwindale, CA

Telephone: (909)274-1646

Attn: Christine Brendle

Page: 8

Project ID: IO# 337145

Project Name: Irwindale CW

AETL Job Number	Submitted	Client
93076	06/25/2018	SCE

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0625182A1; LCS: Clean Sand; LCS Prepared: 06/25/2018; LCS Analyzed: 06/25/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Benzene	0.0500	0.0491	98.2	0.0500	0.0480	96.0	2.27	75-125	<20	
Carbon tetrachloride	0.0500	0.0560	112	0.0500	0.0550	110	1.80	75-125	<20	
Chlorobenzene	0.0500	0.0545	109	0.0500	0.0525	105	3.74	75-125	<20	
Chloroform (Trichloromethane)	0.0500	0.0480	96.0	0.0500	0.0480	96.0	<1	75-125	<20	
1,2-Dichlorobenzene	0.0500	0.0525	105	0.0500	0.0515	103	1.92	75-125	<20	
1,1-Dichloroethane	0.0500	0.0453	90.6	0.0500	0.0435	87.0	4.05	75-125	<20	
1,1-Dichloroethene	0.0500	0.0535	107	0.0500	0.0510	102	4.78	75-125	<20	
cis-1,2-Dichloroethene	0.0500	0.0555	111	0.0500	0.0540	108	2.74	75-125	<20	
Ethylbenzene	0.0500	0.0515	103	0.0500	0.0500	100	2.96	75-125	<20	
Methyl-tert-butyl ether (MTBE)	0.0500	0.0510	102	0.0500	0.0495	99.0	2.99	75-125	<20	
n-Propylbenzene	0.0500	0.0545	109	0.0500	0.0545	109	<1	75-125	<20	
Toluene (Methyl benzene)	0.0500	0.0520	104	0.0500	0.0510	102	1.94	75-125	<20	
1,1,1-Trichloroethane	0.0500	0.0535	107	0.0500	0.0515	103	3.81	75-125	<20	
1,1,2-Trichloroethane	0.0500	0.0474	94.8	0.0500	0.0465	93.0	1.92	75-125	<20	
Trichloroethene	0.0500	0.0555	111	0.0500	0.0535	107	3.67	75-125	<20	
1,2,4-Trimethylbenzene	0.0500	0.0540	108	0.0500	0.0520	104	3.77	75-125	<20	
1,3,5-Trimethylbenzene	0.0500	0.0535	107	0.0500	0.0515	103	3.81	75-125	<20	
o-Xylene	0.0500	0.0515	103	0.0500	0.0490	98.0	4.98	75-125	<20	
m,p-Xylenes	0.100	0.107	107	0.100	0.102	102	4.78	75-125	<20	
<b>Surrogates</b>										
Bromofluorobenzene	0.0500	0.0505	101	0.0500	0.0520	104	2.97	75-125	<20	
Dibromofluoromethane	0.0500	0.0482	96.3	0.0500	0.0460	92.0	4.47	75-125	<20	
Toluene-d8	0.0500	0.0505	101	0.0500	0.0510	102	<1	75-125	<20	



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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above PQL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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AGENT SPECIAL WASTE SERVICE AGREEMENT
NON-HAZARDOUS WASTES

Special Waste Profile Number: 5123 18 10622

Agent Billing Information
Name: MISSION PAVING & SEALING (ACCT# 333393
Address: 12747 SCHABARUM AVE
City: IRWINDALE
State: CALIFORNIA Zip: 91706
Phone: 626.452.8200 Fax:
Contact: PHIL DRESDEN

Republic Waste Location (Company)
SUNSHINE CANYON LANDFILL (5123)
14747 SAN FERNANDO ROAD
SYLMAR, CA 91342
818.833.6500

Project: SOUTHERN CALIFORNIA EDISON - IRWINDALE County and State of Origin: LOS ANGELES CALIFORNIA
Generator Address: 13025 E LOS ANGELES ST, IRWINDALE CA 91706
Additional Information: CONTACT: RYAN CASTILLO | PHONE: 626 656.0453

- 1. Special Waste Service Subject to the terms and conditions contained herein, the Company and the Agent agree to be legally bound hereby and the Company agrees to accept at its Facility, Acceptable Waste (hereinafter referred to as "Special Waste" or "Waste") delivered by Agent, and which is acceptable to the Company as herein provided.
2. Acceptable Waste Only those Special Wastes described in Paragraph 3 herein and in any Special Waste Profile(s) which number is identical to the contract number referenced above, and which Profile(s) are hereby incorporated by reference herein, and which Waste is subsequently approved by the Company and is otherwise in accordance with all laws, regulations and permits, shall be acceptable for disposal at the Facility ("Acceptable Waste").

3 (A) Rates for Disposal: Table with columns: Waste, Disposal Method, Disposal Rate, Fees / Taxes / Misc., Transportation. Includes additional information: ENVIRONMENTAL RECOVERY FEE (ERF) \$16.25 PER LOAD | FUEL RECOVERY FEE (FRF) 6-10% | INVOICE FEE \$5.95 PER INVOICE AND LATE FEES | A completed / signed manifest is required for each profiled approved load received at Sunshine Landfill. PROFILE EXPIRES: 8/23/18 | MATERIAL CODE: VG-SW-CONT SOIL | EAV: 800 CUBIC YARDS

Agent shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations.

Cannot Exceed Daily Volume of 800 CUBIC YARDS Without Prior Approval of Company.

- (B) Incorporation by Reference. In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.
1) N/A
2) N/A

- 4. Term of Agreement This Agreement is effective for 12 months, commencing 6/28/2018 and shall automatically be renewed for a similar term thereafter unless either party shall give written notice (via certified mail) of termination to the other party at least thirty (30) days prior written notice

THE COMPANY AND THE AGENT, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

MISSION PAVING AND SEALING, INC /AGENT
Signature: Doug Sweeney
Name and Title: President
Date:

REPUBLIC SERVICES, INC /COMPANY
Signature: Mike Riley, Director
Name and Title: Director
Date: 6-29-18

# Terms and Conditions of Agent Special Waste Service Agreement

- 5 **The Agreement** This agreement of the parties ("Agreement") for the disposal of Special Waste shall consist of this Agreement, riders to the Agreement (if any) and any Application, permit and approval that may be applicable to such Waste
- 6 **Waste Accepted at Facility** Agent represents, warrants and covenants that the Waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any Waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Agent shall in all matters relating to the collection, transportation and disposal of the Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same. The word "Facility" shall mean any landfill, transfer station or other location used to transfer, process or otherwise dispose of such Waste
- 7 **Special Waste** Agent represents, warrants and covenants that the Waste delivered to Company hereunder (i) will not contain any Special Waste that is not specifically described on any Application which is attached hereto and which is subsequently approved by the Company, (ii) will meet the material description as set forth in any Application and otherwise in all significant respects and (iii) will not contain Unacceptable Waste. The parties may incorporate additional Special Waste as part of this Agreement if prior to delivery of such Waste to Company, Agent has provided an Application for such Waste and Company has approved disposal of such Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste. Title to any and all Waste handled or disposed of by Company shall at all times remain with Generator and Agent
- 8 **Rights of Refusal/Rejection** The Agent shall inspect all Waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of Waste(s) delivered to its Facility including if the Company believes the Agent has breached (or is breaching) its representations, warranties, covenants or agreements hereunder, or any applicable federal, state or local laws, regulations, rules or orders, even if only a portion of such Waste load is unacceptable. The Company shall have the right to inspect all vehicles of Waste haulers, including the Agent's vehicles, in order to determine whether the Waste is Acceptable Waste or Unacceptable Waste pursuant to this Agreement and all applicable federal, state and local laws, rules and regulations. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Agent of its responsibilities or liability under this Agreement. The Agent shall be responsible for, and bear all reasonable expenses and damages incurred by the Company, as a result of the Unacceptable Waste and in the reloading and removal of Unacceptable Waste disposed in the Facility. The Company may also, in its sole discretion, require the Agent to promptly remove the Unacceptable Waste
- 9 **Limited License to Enter** This Agreement provides Agent with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Agent's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Waste, Agent's personnel shall promptly leave the Facility. Under no circumstances shall Agent or its personnel engage in any scavenging of Waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of Waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Agent agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept Waste from and shall deny an entrance license to, any of Agent's personnel whom Company believes is under the influence of alcohol or other chemical substances. Agent shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company
- 10 **Charges and Payment** Payment shall be made by Agent within sixty (60) days after receipt of invoice from Company. In the event that any amount is overdue, the Company may terminate this Agreement. Agent agrees to pay a finance charge equal to the maximum interest rate permitted by law. Agent shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon sixty (60) days written notice to Agent. Agent hereby agrees that the Company's right to receive payments under this Agreement is unconditional and is not conditioned upon Agent first receiving payment from Generator or any other party
- 11 **Termination** Agent's obligations, representations, warranties and covenants regarding the Waste delivered and all indemnities shall survive termination of this Agreement. Should Agent materially default in any of its obligations hereunder, then Company may immediately terminate this Agreement and Agent shall be liable for all costs and damages incurred by the Company
- 12 **Driver's Knowledge and Authority** Agent represents, warrants and covenants that its drivers who deliver Waste to Company's Facility have been advised by Agent of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility, of Company's restrictions on deliveries of Special Waste to the Facility of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility
- 13 **Indemnification** Agent shall indemnify, defend and hold harmless the Company and its subsidiaries, affiliates and parent corporations, as applicable and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys fees arising under federal, state or local laws, regulations or ordinances, or relating to the content of the Waste, or arising out of or in connection with any breach of this Agreement or arising out of the negligent collection, transportation and disposal of Waste by Agent or Agent's employees, agents, subcontractors or representatives thereof. Agent shall also be responsible for increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of the Company as to the content of the Waste following discovery of potentially Unacceptable Waste. This indemnification and other obligations stated in this paragraph shall survive the termination of this Agreement
- 14 **Insurance** Agent shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
General Liability	\$500,000 combined single limit
Automobile Liability	\$500,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Prior to Agent being allowed on Facility premises, Agent shall provide the Company with certificates of insurance or other satisfactory evidence that such insurance has been procured and is in force. Said policies shall not thereafter be canceled, be permitted to expire, or be changed without thirty (30) days advance written notice to the Company. Agent warrants that it will secure the above minimum amounts of insurance from any transportation of the Waste to the Facility

- 15 **Failure to Perform** Neither party hereto shall be liable for its failure to perform hereunder due to circumstances not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party hereto. In the event of any of the circumstances provided for in the preceding sentence, including, but not limited to, whether any federal, state or local court or governmental authority takes any action which would (i) close or restrict operations at the Facility, (ii) limit the quantity or prohibit the disposal of Waste at the Facility, or (iii) limit the ability of or prohibit Agent from delivering Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminate Agent's access to the Facility immediately, without prior notice and without any additional liabilities between the parties, other than Agent's payment obligation hereunder. Neither Party is required hereunder to settle any labor dispute against its own best judgment

- 16 **Other Termination** The occurrence of any of the following events shall also constitute an event of default by the Agent and shall give the Company the right to immediately terminate this Agreement

- (A) A petition for reorganization or bankruptcy filed by or against the Agent
- (B) Failure by Agent to pay any amounts due to Company
- (C) Any breach by Agent of any of its obligations pursuant to the Agreement

Agent shall be liable for and shall indemnify, defend and hold harmless Company from any losses, claims expenses or damages incurred by the Company as a result of termination hereunder

- 17 **Assignment** Agent may not assign, transfer or otherwise vest in any other Company, entity or person, in whole or in part, any of its rights or obligations under the Agreement without the prior written consent of the Company, provided, however, that the Company may without any such prior written consent, assign its rights and/or obligations under the Agreement to a subsidiary or affiliate corporation

- 18 **Right of Disposal** This Agreement does not grant any rights to dispose of Waste other than in accordance herewith. The Company reserves the right to immediately terminate access to the Facility by Agent and Agent's personnel in the event of breach or violation by Agent of any of the terms of this Agreement, the Company's operating rules or payment policies or any applicable laws or regulations

- 19 **Continuing Compliance** The Agent has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Agent and/or Generator which may affect the acceptability of the Waste by the Company. Further, the Agent shall comply with all Company requests for evidence of Agent's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Waste profiles on the Waste(s) offered for disposal or (ii) providing appropriate certification that the Waste being offered for disposal is accurately reflected by the appropriate Application or, (iii) re-sample the Waste at Agent's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the Waste at Agent's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or (v) all of the above

20 **Miscellaneous**

- (A) This Agreement shall be governed by the laws of the State in which the Facility is located
- (B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement
- (C) No modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement
- (D) Agent shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or data) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Agent or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company
- (E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision
- (F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgment, purchase order or other response by Agent which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect
- (G) Agent represents, warrants and covenants that it is and during the term of this Agreement, will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof
- (H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Agent. It is the further understanding and agreement of the parties that Agent is an authorized representative of Generator.

- 21 **Notices** All notices herein provided for shall be considered as having been given upon being placed in the mail, certified postage prepaid addressed to the Company or Agent at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing

- 22 **Unsettled Damages** In the event that this Agreement is terminated by the Agent in a manner not in accordance with paragraph 4 hereof, or terminated due to a breach of this Agreement by the Agent, the Agent shall pay, as liquidated damages, and not as a penalty, the greater of an amount equal to six (6) months' service charges or the Agent's most recent monthly charge multiplied by six (6). The Agent shall be given credit for any advance payments made hereunder, however, in computing the amount owed as liquidated damages hereunder. The Agent acknowledges that this liquidated damages clause is reasonable and is applicable to recover damages related to its investment in equipment, development of landfills and hiring of employees undertaken by the Company to service its customers including the Agent. This liquidated damages clause in no way relieves the Agent from its obligations and liability for other cost or damages as set forth elsewhere in this Agreement

AGENT: 

Republic Services, INC./COMPANY: 

May 2009



Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 5123189975	Expiration Date 6/18/2019	
I. Decision Request:	<input checked="" type="checkbox"/> Initial <input type="checkbox"/> Recertification <input type="checkbox"/> Change		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: NORTHROP GRUMMAN AEROSPACE SYSTEMS			
Generator Site Address: 3301 AVIATION BLVD			
City: MANHATTAN BEACH	County:	State: CA	Zip:
Name of Waste: D1 EXCAVATED SOIL WITH TRACE DIESEL RANGE ORGANICS			
Estimated Annual Volume: 100 Tons			

II. Special Waste Department Decision:    Approved    Rejected

Management Method(s):    Landfill    Solidification    Bioremediation    Transfer Facility

Problematic Special Waste according to Republic?    Yes    No

If yes, which one? \_\_\_\_\_

Approved by Special Waste Review Committee?    Yes    No    Not Applicable

Precautions, Conditions or Limitations on Approval

Special Waste Analyst Signature: \_\_\_\_\_  
Date: 6/18/2018

Name (Printed): Suzanne Glass

III. Facility Decision:    Approved    Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: \_\_\_\_\_  
Date: 6/18/2018

Name (Printed): Chris Coyne

Requested Disposal Facility: 5123 Sunshine Canyon LF CA

Saveable fill-in form. Restricted printing until all required (yellow) fields are completed

Waste Profile # <b>5123 18 9975</b>
--

Sales Rep #: <b>585</b>
-------------------------

**I. Generator Information**

Generator Name: Northrop Grumman Aerospace Systems			
Generator Site Address: 3301 Aviation Blvd.			
City: Manhattan Beach	County: Los Angeles	State: California	Zip: 90266
State ID/Reg No: CAD0093244	State Approval/Waste Code: (if applicable)		NAICS #: 334412
Generator Mailing Address (if different): <input type="checkbox"/> 3301 Aviation Blvd.			
City: Manhattan Beach	County:	State: California	Zip: 90266
Generator Contact Name: Arlen Fuhrman		Email: arlen.fuhrman@ngc.com	
Phone Number: (310) 813-5994	Ext:	Fax Number:	

**II. Billing Information**

Bill To: Republic Services Gardena	Contact Name:		
Billing Address: 14905 S San Pedro St.	Email:		
City: Gardena	State: CA	Zip: 90247	Phone: (888) 742-5234

**III. Waste Stream Information**

Name of Waste: D1 Excavated Soil with Trace Diesel Range Organics	
Process Generating Waste: Ground excavation at building D1	
Type of Waste:	<input checked="" type="checkbox"/> INDUSTRIAL PROCESS WASTE <input type="checkbox"/> POLLUTION CONTROL WASTE
Physical State:	<input checked="" type="checkbox"/> SOLID <input type="checkbox"/> SEMI-SOLID <input type="checkbox"/> POWDER <input type="checkbox"/> LIQUID
Method of Shipment:	<input checked="" type="checkbox"/> BULK <input type="checkbox"/> DRUM <input type="checkbox"/> BAGGED <input type="checkbox"/> OTHER:
Estimated Annual Volume:	100 Tons
Frequency:	<input checked="" type="checkbox"/> ONE TIME <input type="checkbox"/> ONGOING
Disposal Consideration:	<input checked="" type="checkbox"/> LANDFILL <input type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> BIOREMEDIATION

**IV. Representative Sample Certification**

NO SAMPLE TAKEN

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?	<input checked="" type="checkbox"/> YES or <input type="checkbox"/> NO
Type of Sample:	<input checked="" type="checkbox"/> COMPOSITE SAMPLE <input type="checkbox"/> GRAB SAMPLE
Sample Date: 5/24/18	
Sample ID Numbers: 01-D1-CT	

Waste Profile #

**V. Physical Characteristics of Waste**

Characteristic Components		% by Weight (range)			
1. Soil		99 - 100			
2. Diesel Range Organics		0 - 1			
3.					
4.					
5.					
Color	Odor (describe)	Does Waste Contain Free Liquids?	% Solids	pH:	Flash Point
Brown	Mild	<input type="checkbox"/> YES or <input checked="" type="checkbox"/> NO	100	N/A	N/A °F

**Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Chain of Custody and Required Parameters Provided for this Profile**

Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm)[reference 40 CFR 261.23(a)(5)]?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste a reactive or heat generating waste?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does the waste contain sulfur or sulfur by-products?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste generated at a Federal Superfund Clean Up Site?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste from a TSD facility, TSD like facility or consolidator?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No

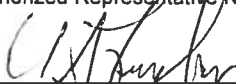
**VI. Certification**

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services Inc.

Arlen Fuhrman, Hazardous Waste Manager  
 \_\_\_\_\_  
 Authorized Representative Name And Title (Type or Print)



Authorized Representative Signature

Northrop Grumman Aerospace Systems  
 \_\_\_\_\_  
 Company Name

6/14/18

\_\_\_\_\_ Date



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**WORK ORDER NUMBER: 18-05-2282**

*The difference is service*



AIR | SOIL | WATER | MARINE CHEMISTRY

**Analytical Report For**

**Client:** Northrop Grumman Systems Corporation

**Client Project Name:** Space Park

**Attention:** Doug Hill  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Approved for release on 05/31/2018 by:  
Carla Hollowell  
Project Manager

ResultLink ▶

Email your PM ▶

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 18-05-2282

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**Condition Upon Receipt:**

Samples were received under Chain-of-Custody (COC) on 05/25/18. They were assigned to Work Order 18-05-2282.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

**Holding Times:**

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of  $\leq$  15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

**Quality Control:**

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

**Subcontractor Information:**

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

**Additional Comments:**

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

**DoD Projects:**

The test results contained in this report are accredited under the laboratory's ISO/IEC 17025:2005 and DoD-ELAP accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation ADE-1864.





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## Sample Summary

Client: Northrop Grumman Systems Corporation	Work Order:	18-05-2282
8710 Freeport Parkway, Suite 200	Project Name:	Space Park
Irving, TX 75063-2577	PO Number:	
	Date/Time Received:	05/25/18 13:52
	Number of Containers:	1

Attn: Doug Hill

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
01-D1-CT	18-05-2282-1	05/24/18 15:20	1	Solid


  
Return to Contents



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## Detections Summary

Client: Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Work Order: 18-05-2282  
Project Name: Space Park  
Received: 05/25/18

Attn: Doug Hill

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### Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
01-D1-CT (18-05-2282-1)						
Antimony	0.151	J	0.149*	mg/kg	EPA 6010B	EPA 3050B
Arsenic	1.01		0.750	mg/kg	EPA 6010B	EPA 3050B
Barium	34.4		0.500	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.154	J	0.137*	mg/kg	EPA 6010B	EPA 3050B
Cadmium	0.186	J	0.135*	mg/kg	EPA 6010B	EPA 3050B
Chromium	5.44		0.250	mg/kg	EPA 6010B	EPA 3050B
Cobalt	2.66		0.250	mg/kg	EPA 6010B	EPA 3050B
Copper	5.53		0.500	mg/kg	EPA 6010B	EPA 3050B
Lead	3.80	B	0.500	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	0.499		0.250	mg/kg	EPA 6010B	EPA 3050B
Nickel	3.53		0.250	mg/kg	EPA 6010B	EPA 3050B
Selenium	0.957		0.750	mg/kg	EPA 6010B	EPA 3050B
Vanadium	10.2		0.250	mg/kg	EPA 6010B	EPA 3050B
Zinc	19.6		1.00	mg/kg	EPA 6010B	EPA 3050B
Mercury	0.0360	J	0.00597*	mg/kg	EPA 7471A	EPA 7471A Total
Diesel Range Organics	4.3	HD,J	1.3*	mg/kg	EPA 8015B	EPA 3550B
Dimethyl Phthalate	0.36	J	0.11*	mg/kg	EPA 8270C	EPA 3545

Subcontracted analyses, if any, are not included in this summary.

\* MDL is shown



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## Analytical Report

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 3550B  
Method: EPA 8015B  
Units: mg/kg

Project: Space Park

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
01-D1-CT	18-05-2282-1-A	05/24/18 15:20	Solid	GC 50	05/29/18	05/29/18 17:09	180529B08

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Diesel Range Organics	4.3	5.0	1.3	1.00	HD,J

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	88	42-162	

Method Blank	099-15-414-1101	N/A	Solid	GC 50	05/29/18	05/29/18 14:30	180529B08
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Diesel Range Organics	ND	5.0	1.3	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	94	42-162	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 5030C  
Method: EPA 8015B  
Units: mg/kg

Project: Space Park

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
01-D1-CT	18-05-2282-1-A	05/24/18 15:20	Solid	GC 57	05/25/18	05/26/18 00:18	180525L054

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Gasoline Range Organics	ND	0.51	0.092	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	70	42-126	

Method Blank	099-12-024-1205	N/A	Solid	GC 57	05/25/18	05/25/18 13:41	180525L054
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Gasoline Range Organics	ND	0.50	0.091	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	68	42-126	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: Space Park

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
01-D1-CT	18-05-2282-1-A	05/24/18 15:20	Solid	ICP 7300	05/30/18	05/30/18 16:29	180530L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	0.151	0.750	0.149	1.00	J
Arsenic	1.01	0.750	0.259	1.00	
Barium	34.4	0.500	0.154	1.00	
Beryllium	0.154	0.250	0.137	1.00	J
Cadmium	0.186	0.500	0.135	1.00	J
Chromium	5.44	0.250	0.142	1.00	
Cobalt	2.66	0.250	0.148	1.00	
Copper	5.53	0.500	0.135	1.00	
Lead	3.80	0.500	0.132	1.00	B
Molybdenum	0.499	0.250	0.132	1.00	
Nickel	3.53	0.250	0.145	1.00	
Selenium	0.957	0.750	0.300	1.00	
Silver	ND	0.250	0.0857	1.00	
Thallium	ND	0.750	0.152	1.00	
Vanadium	10.2	0.250	0.141	1.00	
Zinc	19.6	1.00	0.178	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 3050B  
Method: EPA 6010B  
Units: mg/kg

Project: Space Park

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-002-26376	N/A	Solid	ICP 7300	05/30/18	05/30/18 16:51	180530L01

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Antimony	ND	0.725	0.144	0.966	
Arsenic	ND	0.725	0.250	0.966	
Barium	ND	0.483	0.149	0.966	
Beryllium	ND	0.242	0.132	0.966	
Cadmium	ND	0.483	0.131	0.966	
Chromium	ND	0.242	0.137	0.966	
Cobalt	ND	0.242	0.143	0.966	
Copper	ND	0.483	0.130	0.966	
Lead	0.149	0.483	0.127	0.966	J
Molybdenum	ND	0.242	0.128	0.966	
Nickel	ND	0.242	0.140	0.966	
Selenium	ND	0.725	0.289	0.966	
Silver	ND	0.242	0.0828	0.966	
Thallium	ND	0.725	0.147	0.966	
Vanadium	ND	0.242	0.136	0.966	
Zinc	ND	0.966	0.172	0.966	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 7471A Total  
Method: EPA 7471A  
Units: mg/kg

Project: Space Park

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
01-D1-CT	18-05-2282-1-A	05/24/18 15:20	Solid	Mercury 08	05/29/18	05/30/18 14:25	180529L02

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	0.0360	0.0847	0.00597	1.00	J

Method Blank	099-16-272-3858	N/A	Solid	Mercury 08	05/29/18	05/29/18 14:36	180529L02
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Mercury	ND	0.0833	0.00587	1.00	


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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 3545  
Method: EPA 8082  
Units: ug/kg

Project: Space Park

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
01-D1-CT	18-05-2282-1-A	05/24/18 15:20	Solid	GC 31	05/29/18	05/30/18 13:29	180529L13

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	49	20	1.00	
Aroclor-1221	ND	49	41	1.00	
Aroclor-1232	ND	49	25	1.00	
Aroclor-1242	ND	49	36	1.00	
Aroclor-1248	ND	49	31	1.00	
Aroclor-1254	ND	49	31	1.00	
Aroclor-1260	ND	49	30	1.00	
Aroclor-1262	ND	49	34	1.00	
Aroclor-1268	ND	49	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	105	24-168	
2,4,5,6-Tetrachloro-m-Xylene	106	25-145	

Method Blank	099-12-535-4682	N/A	Solid	GC 31	05/29/18	05/30/18 12:13	180529L13
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Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Aroclor-1016	ND	50	21	1.00	
Aroclor-1221	ND	50	42	1.00	
Aroclor-1232	ND	50	25	1.00	
Aroclor-1242	ND	50	37	1.00	
Aroclor-1248	ND	50	32	1.00	
Aroclor-1254	ND	50	32	1.00	
Aroclor-1260	ND	50	30	1.00	
Aroclor-1262	ND	50	35	1.00	
Aroclor-1268	ND	50	33	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	100	24-168	
2,4,5,6-Tetrachloro-m-Xylene	102	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 3545  
Method: EPA 8270C  
Units: mg/kg

Project: Space Park

Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
01-D1-CT	18-05-2282-1-A	05/24/18 15:20	Solid	GC/MS CCC	05/29/18	05/30/18 16:49	180529L11

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	0.49	0.062	1.00	
Acenaphthylene	ND	0.49	0.058	1.00	
Aniline	ND	0.49	0.058	1.00	
Anthracene	ND	0.49	0.062	1.00	
Azobenzene	ND	0.49	0.053	1.00	
Benzidine	ND	9.8	0.80	1.00	
Benzo (a) Anthracene	ND	0.49	0.055	1.00	
Benzo (a) Pyrene	ND	0.49	0.053	1.00	
Benzo (b) Fluoranthene	ND	0.49	0.062	1.00	
Benzo (g,h,i) Perylene	ND	0.49	0.054	1.00	
Benzo (k) Fluoranthene	ND	0.49	0.063	1.00	
Benzoic Acid	ND	2.4	0.48	1.00	
Benzyl Alcohol	ND	0.49	0.064	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.49	0.055	1.00	
Bis(2-Chloroethyl) Ether	ND	2.4	0.40	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.49	0.056	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.49	0.052	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.49	0.060	1.00	
Butyl Benzyl Phthalate	ND	0.49	0.053	1.00	
4-Chloro-3-Methylphenol	ND	0.49	0.065	1.00	
4-Chloroaniline	ND	0.49	0.064	1.00	
2-Chloronaphthalene	ND	0.49	0.058	1.00	
2-Chlorophenol	ND	0.49	0.065	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.49	0.063	1.00	
Chrysene	ND	0.49	0.063	1.00	
Di-n-Butyl Phthalate	ND	0.49	0.059	1.00	
Di-n-Octyl Phthalate	ND	0.49	0.098	1.00	
Dibenz (a,h) Anthracene	ND	0.49	0.045	1.00	
Dibenzofuran	ND	0.49	0.059	1.00	
1,2-Dichlorobenzene	ND	0.49	0.062	1.00	
1,3-Dichlorobenzene	ND	0.49	0.072	1.00	
1,4-Dichlorobenzene	ND	0.49	0.073	1.00	
3,3'-Dichlorobenzidine	ND	9.8	0.36	1.00	
2,4-Dichlorophenol	ND	0.49	0.057	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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## Analytical Report

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 3545  
Method: EPA 8270C  
Units: mg/kg

Project: Space Park

Page 2 of 6

Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	0.49	0.057	1.00	
Dimethyl Phthalate	0.36	0.49	0.11	1.00	J
2,4-Dimethylphenol	ND	0.49	0.26	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.4	0.62	1.00	
2,4-Dinitrophenol	ND	2.4	0.33	1.00	
2,4-Dinitrotoluene	ND	0.49	0.065	1.00	
2,6-Dichlorophenol	ND	0.49	0.058	1.00	
2,6-Dinitrotoluene	ND	0.49	0.071	1.00	
Fluoranthene	ND	0.49	0.061	1.00	
Fluorene	ND	0.49	0.062	1.00	
Hexachloro-1,3-Butadiene	ND	0.49	0.062	1.00	
Hexachlorobenzene	ND	0.49	0.065	1.00	
Hexachlorocyclopentadiene	ND	2.4	0.49	1.00	
Hexachloroethane	ND	0.49	0.077	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.49	0.052	1.00	
Isophorone	ND	0.49	0.055	1.00	
2-Methylnaphthalene	ND	0.49	0.059	1.00	
1-Methylnaphthalene	ND	0.49	0.055	1.00	
2-Methylphenol	ND	0.49	0.084	1.00	
3/4-Methylphenol	ND	0.49	0.16	1.00	
N-Nitroso-di-n-propylamine	ND	0.49	0.082	1.00	
N-Nitrosodimethylamine	ND	0.49	0.046	1.00	
N-Nitrosodiphenylamine	ND	0.49	0.13	1.00	
Naphthalene	ND	0.49	0.057	1.00	
4-Nitroaniline	ND	0.49	0.064	1.00	
3-Nitroaniline	ND	0.49	0.068	1.00	
2-Nitroaniline	ND	0.49	0.051	1.00	
Nitrobenzene	ND	2.4	0.32	1.00	
4-Nitrophenol	ND	0.49	0.053	1.00	
2-Nitrophenol	ND	0.49	0.066	1.00	
Pentachlorophenol	ND	2.4	0.38	1.00	
Phenanthrene	ND	0.49	0.067	1.00	
Phenol	ND	0.49	0.047	1.00	
Pyrene	ND	0.49	0.075	1.00	
Pyridine	ND	0.49	0.053	1.00	
1,2,4-Trichlorobenzene	ND	0.49	0.058	1.00	
2,4,6-Trichlorophenol	ND	0.49	0.075	1.00	
2,4,5-Trichlorophenol	ND	0.49	0.062	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 3545  
Method: EPA 8270C  
Units: mg/kg

Project: Space Park

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<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
2-Fluorobiphenyl	63	27-120	
2-Fluorophenol	60	25-120	
Nitrobenzene-d5	59	33-123	
p-Terphenyl-d14	77	27-159	
Phenol-d6	63	26-122	
2,4,6-Tribromophenol	67	18-138	

## Analytical Report

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 3545  
Method: EPA 8270C  
Units: mg/kg

Project: Space Park

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-549-4194	N/A	Solid	GC/MS CCC	05/29/18	05/30/18 15:18	180529L11

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acenaphthene	ND	0.50	0.063	1.00	
Acenaphthylene	ND	0.50	0.060	1.00	
Aniline	ND	0.50	0.060	1.00	
Anthracene	ND	0.50	0.063	1.00	
Azobenzene	ND	0.50	0.054	1.00	
Benzidine	ND	10	0.83	1.00	
Benzo (a) Anthracene	ND	0.50	0.057	1.00	
Benzo (a) Pyrene	ND	0.50	0.054	1.00	
Benzo (b) Fluoranthene	ND	0.50	0.064	1.00	
Benzo (g,h,i) Perylene	ND	0.50	0.055	1.00	
Benzo (k) Fluoranthene	ND	0.50	0.065	1.00	
Benzoic Acid	ND	2.5	0.50	1.00	
Benzyl Alcohol	ND	0.50	0.066	1.00	
Bis(2-Chloroethoxy) Methane	ND	0.50	0.056	1.00	
Bis(2-Chloroethyl) Ether	ND	2.5	0.41	1.00	
Bis(2-Chloroisopropyl) Ether	ND	0.50	0.057	1.00	
Bis(2-Ethylhexyl) Phthalate	ND	0.50	0.053	1.00	
4-Bromophenyl-Phenyl Ether	ND	0.50	0.061	1.00	
Butyl Benzyl Phthalate	ND	0.50	0.054	1.00	
4-Chloro-3-Methylphenol	ND	0.50	0.066	1.00	
4-Chloroaniline	ND	0.50	0.065	1.00	
2-Chloronaphthalene	ND	0.50	0.059	1.00	
2-Chlorophenol	ND	0.50	0.067	1.00	
4-Chlorophenyl-Phenyl Ether	ND	0.50	0.064	1.00	
Chrysene	ND	0.50	0.064	1.00	
Di-n-Butyl Phthalate	ND	0.50	0.060	1.00	
Di-n-Octyl Phthalate	ND	0.50	0.10	1.00	
Dibenz (a,h) Anthracene	ND	0.50	0.046	1.00	
Dibenzofuran	ND	0.50	0.060	1.00	
1,2-Dichlorobenzene	ND	0.50	0.064	1.00	
1,3-Dichlorobenzene	ND	0.50	0.073	1.00	
1,4-Dichlorobenzene	ND	0.50	0.075	1.00	
3,3'-Dichlorobenzidine	ND	10	0.36	1.00	
2,4-Dichlorophenol	ND	0.50	0.058	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 3545  
Method: EPA 8270C  
Units: mg/kg

Project: Space Park

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Parameter	Result	RL	MDL	DF	Qualifiers
Diethyl Phthalate	ND	0.50	0.058	1.00	
Dimethyl Phthalate	ND	0.50	0.11	1.00	
2,4-Dimethylphenol	ND	0.50	0.27	1.00	
4,6-Dinitro-2-Methylphenol	ND	2.5	0.63	1.00	
2,4-Dinitrophenol	ND	2.5	0.34	1.00	
2,4-Dinitrotoluene	ND	0.50	0.067	1.00	
2,6-Dichlorophenol	ND	0.50	0.059	1.00	
2,6-Dinitrotoluene	ND	0.50	0.073	1.00	
Fluoranthene	ND	0.50	0.062	1.00	
Fluorene	ND	0.50	0.063	1.00	
Hexachloro-1,3-Butadiene	ND	0.50	0.063	1.00	
Hexachlorobenzene	ND	0.50	0.067	1.00	
Hexachlorocyclopentadiene	ND	2.5	0.50	1.00	
Hexachloroethane	ND	0.50	0.078	1.00	
Indeno (1,2,3-c,d) Pyrene	ND	0.50	0.053	1.00	
Isophorone	ND	0.50	0.057	1.00	
2-Methylnaphthalene	ND	0.50	0.060	1.00	
1-Methylnaphthalene	ND	0.50	0.056	1.00	
2-Methylphenol	ND	0.50	0.087	1.00	
3/4-Methylphenol	ND	0.50	0.16	1.00	
N-Nitroso-di-n-propylamine	ND	0.50	0.084	1.00	
N-Nitrosodimethylamine	ND	0.50	0.047	1.00	
N-Nitrosodiphenylamine	ND	0.50	0.14	1.00	
Naphthalene	ND	0.50	0.059	1.00	
4-Nitroaniline	ND	0.50	0.065	1.00	
3-Nitroaniline	ND	0.50	0.070	1.00	
2-Nitroaniline	ND	0.50	0.052	1.00	
Nitrobenzene	ND	2.5	0.32	1.00	
4-Nitrophenol	ND	0.50	0.054	1.00	
2-Nitrophenol	ND	0.50	0.067	1.00	
Pentachlorophenol	ND	2.5	0.39	1.00	
Phenanthrene	ND	0.50	0.069	1.00	
Phenol	ND	0.50	0.048	1.00	
Pyrene	ND	0.50	0.077	1.00	
Pyridine	ND	0.50	0.055	1.00	
1,2,4-Trichlorobenzene	ND	0.50	0.059	1.00	
2,4,6-Trichlorophenol	ND	0.50	0.077	1.00	
2,4,5-Trichlorophenol	ND	0.50	0.064	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

**Analytical Report**

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 3545  
Method: EPA 8270C  
Units: mg/kg

Project: Space Park

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<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
2-Fluorobiphenyl	84	27-120	
2-Fluorophenol	75	25-120	
Nitrobenzene-d5	83	33-123	
p-Terphenyl-d14	89	27-159	
Phenol-d6	78	26-122	
2,4,6-Tribromophenol	78	18-138	

## Analytical Report

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/kg

Project: Space Park

Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
01-D1-CT	18-05-2282-1-A	05/24/18 15:20	Solid	GC/MS BB	05/25/18	05/25/18 17:11	180525L018

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	120	6.2	1.00	
Benzene	ND	5.0	0.13	1.00	
Bromobenzene	ND	5.0	0.21	1.00	
Bromochloromethane	ND	5.0	0.69	1.00	
Bromodichloromethane	ND	5.0	0.23	1.00	
Bromoform	ND	5.0	0.79	1.00	
Bromomethane	ND	25	9.4	1.00	
2-Butanone	ND	50	3.8	1.00	
n-Butylbenzene	ND	5.0	0.16	1.00	
sec-Butylbenzene	ND	5.0	0.58	1.00	
tert-Butylbenzene	ND	5.0	0.15	1.00	
Carbon Disulfide	ND	50	0.31	1.00	
Carbon Tetrachloride	ND	5.0	0.28	1.00	
Chlorobenzene	ND	5.0	0.22	1.00	
Chloroethane	ND	5.0	1.5	1.00	
Chloroform	ND	5.0	0.24	1.00	
Chloromethane	ND	25	0.30	1.00	
2-Chlorotoluene	ND	5.0	0.23	1.00	
4-Chlorotoluene	ND	5.0	0.21	1.00	
Dibromochloromethane	ND	5.0	0.57	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.7	1.00	
1,2-Dibromoethane	ND	5.0	0.26	1.00	
Dibromomethane	ND	5.0	0.77	1.00	
1,2-Dichlorobenzene	ND	5.0	0.23	1.00	
1,3-Dichlorobenzene	ND	5.0	0.18	1.00	
1,4-Dichlorobenzene	ND	5.0	0.22	1.00	
Dichlorodifluoromethane	ND	5.0	0.44	1.00	
1,1-Dichloroethane	ND	5.0	0.21	1.00	
1,2-Dichloroethane	ND	5.0	0.31	1.00	
1,1-Dichloroethene	ND	5.0	0.35	1.00	
c-1,2-Dichloroethene	ND	5.0	0.28	1.00	
t-1,2-Dichloroethene	ND	5.0	0.51	1.00	
1,2-Dichloropropane	ND	5.0	0.44	1.00	
1,3-Dichloropropane	ND	5.0	0.25	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/kg

Project: Space Park

Page 2 of 4

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	5.0	0.33	1.00	
1,1-Dichloropropene	ND	5.0	0.33	1.00	
c-1,3-Dichloropropene	ND	5.0	0.25	1.00	
t-1,3-Dichloropropene	ND	5.0	0.61	1.00	
Ethylbenzene	ND	5.0	0.15	1.00	
2-Hexanone	ND	50	1.8	1.00	
Isopropylbenzene	ND	5.0	0.55	1.00	
p-Isopropyltoluene	ND	5.0	0.63	1.00	
Methylene Chloride	ND	50	1.3	1.00	
4-Methyl-2-Pentanone	ND	50	4.3	1.00	
Naphthalene	ND	50	0.81	1.00	
n-Propylbenzene	ND	5.0	0.50	1.00	
Styrene	ND	5.0	0.60	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	0.35	1.00	
Tetrachloroethene	ND	5.0	0.21	1.00	
Toluene	ND	5.0	0.52	1.00	
1,2,3-Trichlorobenzene	ND	10	0.91	1.00	
1,2,4-Trichlorobenzene	ND	5.0	0.31	1.00	
1,1,1-Trichloroethane	ND	5.0	0.23	1.00	
1,1,2-Trichloroethane	ND	5.0	0.35	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	0.35	1.00	
Trichloroethene	ND	5.0	0.30	1.00	
1,2,3-Trichloropropane	ND	5.0	0.83	1.00	
1,2,4-Trimethylbenzene	ND	5.0	0.59	1.00	
Trichlorofluoromethane	ND	50	0.38	1.00	
1,3,5-Trimethylbenzene	ND	5.0	0.55	1.00	
Vinyl Acetate	ND	50	4.7	1.00	
Vinyl Chloride	ND	5.0	0.50	1.00	
p/m-Xylene	ND	5.0	0.27	1.00	
o-Xylene	ND	5.0	0.56	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	0.30	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>		
1,4-Bromofluorobenzene	93	80-120			
Dibromofluoromethane	93	79-133			
1,2-Dichloroethane-d4	106	71-155			
Toluene-d8	100	80-120			

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.





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## Analytical Report

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/kg

Project: Space Park

Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-796-14113	N/A	Solid	GC/MS BB	05/25/18	05/25/18 16:13	180525L018

Comment(s): - Results were evaluated to the MDL (DL), concentrations  $\geq$  to the MDL (DL) but  $<$  RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Acetone	ND	120	6.2	1.00	
Benzene	ND	5.0	0.13	1.00	
Bromobenzene	ND	5.0	0.21	1.00	
Bromochloromethane	ND	5.0	0.69	1.00	
Bromodichloromethane	ND	5.0	0.23	1.00	
Bromoform	ND	5.0	0.79	1.00	
Bromomethane	ND	25	9.4	1.00	
2-Butanone	ND	50	3.8	1.00	
n-Butylbenzene	ND	5.0	0.16	1.00	
sec-Butylbenzene	ND	5.0	0.58	1.00	
tert-Butylbenzene	ND	5.0	0.15	1.00	
Carbon Disulfide	ND	50	0.31	1.00	
Carbon Tetrachloride	ND	5.0	0.28	1.00	
Chlorobenzene	ND	5.0	0.22	1.00	
Chloroethane	ND	5.0	1.5	1.00	
Chloroform	ND	5.0	0.24	1.00	
Chloromethane	ND	25	0.30	1.00	
2-Chlorotoluene	ND	5.0	0.23	1.00	
4-Chlorotoluene	ND	5.0	0.21	1.00	
Dibromochloromethane	ND	5.0	0.57	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.7	1.00	
1,2-Dibromoethane	ND	5.0	0.26	1.00	
Dibromomethane	ND	5.0	0.77	1.00	
1,2-Dichlorobenzene	ND	5.0	0.23	1.00	
1,3-Dichlorobenzene	ND	5.0	0.18	1.00	
1,4-Dichlorobenzene	ND	5.0	0.22	1.00	
Dichlorodifluoromethane	ND	5.0	0.44	1.00	
1,1-Dichloroethane	ND	5.0	0.21	1.00	
1,2-Dichloroethane	ND	5.0	0.31	1.00	
1,1-Dichloroethene	ND	5.0	0.35	1.00	
c-1,2-Dichloroethene	ND	5.0	0.28	1.00	
t-1,2-Dichloroethene	ND	5.0	0.51	1.00	
1,2-Dichloropropane	ND	5.0	0.44	1.00	
1,3-Dichloropropane	ND	5.0	0.25	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

## Analytical Report

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 5030C  
Method: EPA 8260B  
Units: ug/kg

Project: Space Park

Page 4 of 4

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qualifiers</u>
2,2-Dichloropropane	ND	5.0	0.33	1.00	
1,1-Dichloropropene	ND	5.0	0.33	1.00	
c-1,3-Dichloropropene	ND	5.0	0.25	1.00	
t-1,3-Dichloropropene	ND	5.0	0.61	1.00	
Ethylbenzene	ND	5.0	0.15	1.00	
2-Hexanone	ND	50	1.8	1.00	
Isopropylbenzene	ND	5.0	0.55	1.00	
p-Isopropyltoluene	ND	5.0	0.63	1.00	
Methylene Chloride	ND	50	1.3	1.00	
4-Methyl-2-Pentanone	ND	50	4.3	1.00	
Naphthalene	ND	50	0.81	1.00	
n-Propylbenzene	ND	5.0	0.50	1.00	
Styrene	ND	5.0	0.60	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	0.24	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	0.35	1.00	
Tetrachloroethene	ND	5.0	0.21	1.00	
Toluene	ND	5.0	0.52	1.00	
1,2,3-Trichlorobenzene	ND	10	0.91	1.00	
1,2,4-Trichlorobenzene	ND	5.0	0.31	1.00	
1,1,1-Trichloroethane	ND	5.0	0.23	1.00	
1,1,2-Trichloroethane	ND	5.0	0.35	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	0.35	1.00	
Trichloroethene	ND	5.0	0.30	1.00	
1,2,3-Trichloropropane	ND	5.0	0.83	1.00	
1,2,4-Trimethylbenzene	ND	5.0	0.59	1.00	
Trichlorofluoromethane	ND	50	0.38	1.00	
1,3,5-Trimethylbenzene	ND	5.0	0.55	1.00	
Vinyl Acetate	ND	50	4.7	1.00	
Vinyl Chloride	ND	5.0	0.50	1.00	
p/m-Xylene	ND	5.0	0.27	1.00	
o-Xylene	ND	5.0	0.56	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	0.30	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>		
1,4-Bromofluorobenzene	97	80-120			
Dibromofluoromethane	100	79-133			
1,2-Dichloroethane-d4	107	71-155			
Toluene-d8	99	80-120			

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Quality Control - Spike/Spike Duplicate

Northrop Grumman Systems Corporation  
 8710 Freeport Parkway, Suite 200  
 Irving, TX 75063-2577

Date Received: 05/25/18  
 Work Order: 18-05-2282  
 Preparation: EPA 3550B  
 Method: EPA 8015B

Project: Space Park

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-05-2198-1	Sample	Solid	GC 50	05/29/18	05/29/18 16:49	180529S08
18-05-2198-1	Matrix Spike	Solid	GC 50	05/29/18	05/29/18 15:29	180529S08
18-05-2198-1	Matrix Spike Duplicate	Solid	GC 50	05/29/18	05/29/18 15:49	180529S08

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	1654	400.0	2344	173	2075	105	33-153	12	0-32	3

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

**Quality Control - Spike/Spike Duplicate**

Northrop Grumman Systems Corporation  
 8710 Freeport Parkway, Suite 200  
 Irving, TX 75063-2577

Date Received: 05/25/18  
 Work Order: 18-05-2282  
 Preparation: EPA 5030C  
 Method: EPA 8015B

Project: Space Park

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
01-D1-CT	Sample	Solid	GC 57	05/25/18	05/26/18 00:18	180525S022
01-D1-CT	Matrix Spike	Solid	GC 57	05/25/18	05/26/18 00:50	180525S022
01-D1-CT	Matrix Spike Duplicate	Solid	GC 57	05/25/18	05/26/18 01:22	180525S022

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Gasoline Range Organics	ND	10.00	8.807	88	8.562	86	66-108	3	0-18	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: Space Park

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-05-2438-1	Sample	Solid	ICP 7300	05/30/18	05/30/18 16:18	180530S01
18-05-2438-1	Matrix Spike	Solid	ICP 7300	05/30/18	05/30/18 16:19	180530S01
18-05-2438-1	Matrix Spike Duplicate	Solid	ICP 7300	05/30/18	05/30/18 16:19	180530S01

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	2.986	12	3.352	13	50-115	12	0-20	3
Arsenic	7.841	25.00	29.42	86	30.40	90	75-125	3	0-20	
Barium	130.5	25.00	134.0	4X	132.3	4X	75-125	4X	0-20	Q
Beryllium	0.7453	25.00	25.91	101	26.76	104	75-125	3	0-20	
Cadmium	0.7363	25.00	24.84	96	26.25	102	75-125	5	0-20	
Chromium	24.13	25.00	49.61	102	50.28	105	75-125	1	0-20	
Cobalt	11.54	25.00	34.90	93	36.05	98	75-125	3	0-20	
Copper	15.86	25.00	42.01	105	42.90	108	75-125	2	0-20	
Lead	7.345	25.00	31.92	98	33.33	104	75-125	4	0-20	
Molybdenum	2.310	25.00	23.22	84	24.21	88	75-125	4	0-20	
Nickel	19.75	25.00	43.88	97	45.50	103	75-125	4	0-20	
Selenium	ND	25.00	23.45	94	23.40	94	75-125	0	0-20	
Silver	ND	12.50	12.21	98	12.72	102	75-125	4	0-20	
Thallium	ND	25.00	17.42	70	21.71	87	75-125	22	0-20	3,4
Vanadium	47.00	25.00	72.26	101	72.46	102	75-125	0	0-20	
Zinc	52.95	25.00	77.22	97	79.33	106	75-125	3	0-20	

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RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - Spike/Spike Duplicate

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: Space Park

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
18-05-2208-3	Sample	Solid	Mercury 08	05/29/18	05/29/18 14:41	180529S02
18-05-2208-3	Matrix Spike	Solid	Mercury 08	05/29/18	05/29/18 14:43	180529S02
18-05-2208-3	Matrix Spike Duplicate	Solid	Mercury 08	05/29/18	05/29/18 14:45	180529S02

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.8356	100	0.8290	99	71-137	1	0-14	

  
Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 3545  
Method: EPA 8082

Project: Space Park

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
01-D1-CT	Sample	Solid	GC 31	05/29/18	05/30/18 13:29	180529S13
01-D1-CT	Matrix Spike	Solid	GC 31	05/29/18	05/30/18 12:51	180529S13
01-D1-CT	Matrix Spike Duplicate	Solid	GC 31	05/29/18	05/30/18 13:10	180529S13

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	94.00	94	104.0	104	50-135	10	0-20	
Aroclor-1260	ND	100.0	86.00	86	89.00	89	50-135	3	0-20	


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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - Spike/Spike Duplicate

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 3545  
Method: EPA 8270C

Project: Space Park

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
01-D1-CT	Sample	Solid	GC/MS CCC	05/29/18	05/30/18 16:49	180529S11				
01-D1-CT	Matrix Spike	Solid	GC/MS CCC	05/29/18	05/30/18 17:27	180529S11				
01-D1-CT	Matrix Spike Duplicate	Solid	GC/MS CCC	05/29/18	05/30/18 17:45	180529S11				
Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Acenaphthene	ND	10.00	7.134	71	6.748	67	34-148	6	0-20	
Acenaphthylene	ND	10.00	7.243	72	6.891	69	53-120	5	0-20	
Butyl Benzyl Phthalate	ND	10.00	6.273	63	6.725	67	15-189	7	0-20	
4-Chloro-3-Methylphenol	ND	10.00	7.486	75	6.801	68	32-120	10	0-20	
2-Chlorophenol	ND	10.00	7.739	77	7.046	70	53-120	9	0-20	
1,4-Dichlorobenzene	ND	10.00	6.721	67	6.318	63	43-120	6	0-26	
Dimethyl Phthalate	ND	10.00	7.452	75	7.217	72	44-122	3	0-20	
2,4-Dinitrotoluene	ND	10.00	7.906	79	7.378	74	28-120	7	0-20	
Fluorene	ND	10.00	7.105	71	6.733	67	12-186	5	0-20	
N-Nitroso-di-n-propylamine	ND	10.00	8.032	80	7.146	71	38-140	12	0-20	
Naphthalene	ND	10.00	7.067	71	6.668	67	20-140	6	0-20	
4-Nitrophenol	ND	10.00	7.146	71	6.147	61	14-128	15	0-59	
Pentachlorophenol	ND	10.00	4.582	46	3.815	38	10-124	18	0-20	
Phenol	ND	10.00	7.836	78	6.986	70	22-124	11	0-20	
Pyrene	ND	10.00	6.203	62	6.782	68	31-169	9	0-20	
1,2,4-Trichlorobenzene	ND	10.00	7.128	71	6.677	67	56-120	7	0-20	

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RPD: Relative Percent Difference. CL: Control Limits





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## Quality Control - Spike/Spike Duplicate

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 5030C  
Method: EPA 8260B

Project: Space Park

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
01-D1-CT	Sample	Solid	GC/MS BB	05/25/18	05/25/18 17:11	180525S007
01-D1-CT	Matrix Spike	Solid	GC/MS BB	05/25/18	05/25/18 17:40	180525S007
01-D1-CT	Matrix Spike Duplicate	Solid	GC/MS BB	05/25/18	05/25/18 18:09	180525S007

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	47.08	94	46.22	92	61-127	2	0-20	
Carbon Tetrachloride	ND	50.00	33.31	67	34.63	69	51-135	4	0-29	
Chlorobenzene	ND	50.00	43.79	88	42.84	86	57-123	2	0-20	
1,2-Dibromoethane	ND	50.00	46.77	94	45.23	90	64-124	3	0-20	
1,2-Dichlorobenzene	ND	50.00	44.44	89	43.24	86	35-131	3	0-25	
1,2-Dichloroethane	ND	50.00	48.58	97	45.51	91	80-120	7	0-20	
1,1-Dichloroethene	ND	50.00	38.96	78	39.23	78	47-143	1	0-25	
Ethylbenzene	ND	50.00	43.80	88	44.14	88	57-129	1	0-22	
Toluene	ND	50.00	44.05	88	44.11	88	63-123	0	0-20	
Trichloroethene	ND	50.00	67.11	134	74.28	149	44-158	10	0-20	
Vinyl Chloride	ND	50.00	41.89	84	40.02	80	49-139	5	0-47	
p/m-Xylene	ND	100.0	85.33	85	84.76	85	70-130	1	0-30	
o-Xylene	ND	50.00	43.34	87	42.62	85	70-130	2	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	37.06	74	36.06	72	57-123	3	0-21	

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RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 3550B  
Method: EPA 8015B

Project: Space Park

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-15-414-1101</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 50</b>	<b>05/29/18</b>	<b>05/29/18 14:50</b>	<b>180529B08</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Diesel Range Organics		400.0	348.5	87	67-121	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 5030C  
Method: EPA 8015B

Project: Space Park

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-12-024-1205</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 57</b>	<b>05/25/18</b>	<b>05/25/18 13:09</b>	<b>180525L054</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Gasoline Range Organics		10.00	9.981	100	70-118	

  
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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 3050B  
Method: EPA 6010B

Project: Space Park

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
<b>097-01-002-26376</b>	<b>LCS</b>	<b>Solid</b>	<b>ICP 7300</b>	<b>05/30/18</b>	<b>05/30/18 16:17</b>	<b>180530L01</b>	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Antimony		25.00	20.34	81	80-120	73-127	
Arsenic		25.00	19.00	76	80-120	73-127	ME
Barium		25.00	24.61	98	80-120	73-127	
Beryllium		25.00	23.52	94	80-120	73-127	
Cadmium		25.00	23.94	96	80-120	73-127	
Chromium		25.00	23.95	96	80-120	73-127	
Cobalt		25.00	24.91	100	80-120	73-127	
Copper		25.00	23.88	96	80-120	73-127	
Lead		25.00	25.68	103	80-120	73-127	
Molybdenum		25.00	23.70	95	80-120	73-127	
Nickel		25.00	25.35	101	80-120	73-127	
Selenium		25.00	22.84	91	80-120	73-127	
Silver		12.50	11.61	93	80-120	73-127	
Thallium		25.00	24.67	99	80-120	73-127	
Vanadium		25.00	23.37	93	80-120	73-127	
Zinc		25.00	24.50	98	80-120	73-127	

Total number of LCS compounds: 16

Total number of ME compounds: 1

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 7471A Total  
Method: EPA 7471A

Project: Space Park

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-16-272-3858</b>	<b>LCS</b>	<b>Solid</b>	<b>Mercury 08</b>	<b>05/29/18</b>	<b>05/29/18 14:38</b>	<b>180529L02</b>

<u>Parameter</u>	<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Mercury	0.8350	0.7896	95	85-121	

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RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 3545  
Method: EPA 8082

Project: Space Park

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
<b>099-12-535-4682</b>	<b>LCS</b>	<b>Solid</b>	<b>GC 31</b>	<b>05/29/18</b>	<b>05/30/18 12:32</b>	<b>180529L13</b>
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Aroclor-1016		100.0	103.0	103	50-135	
Aroclor-1260		100.0	89.00	89	50-135	

  
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RPD: Relative Percent Difference. CL: Control Limits



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## Quality Control - LCS

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 3545  
Method: EPA 8270C

Project: Space Park

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
<b>099-12-549-4194</b>	<b>LCS</b>	<b>Solid</b>	<b>GC/MS CCC</b>	<b>05/29/18</b>	<b>05/30/18 15:37</b>	<b>180529L11</b>	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Acenaphthene		10.00	7.239	72	51-123	39-135	
Acenaphthylene		10.00	7.364	74	52-120	41-131	
Butyl Benzyl Phthalate		10.00	7.416	74	43-139	27-155	
4-Chloro-3-Methylphenol		10.00	7.278	73	55-121	44-132	
2-Chlorophenol		10.00	7.746	77	58-124	47-135	
1,4-Dichlorobenzene		10.00	7.504	75	42-132	27-147	
Dimethyl Phthalate		10.00	7.454	75	51-123	39-135	
2,4-Dinitrotoluene		10.00	7.948	79	51-129	38-142	
Fluorene		10.00	7.076	71	54-126	42-138	
N-Nitroso-di-n-propylamine		10.00	8.252	83	40-136	24-152	
Naphthalene		10.00	7.490	75	32-146	13-165	
4-Nitrophenol		10.00	6.229	62	24-126	7-143	
Pentachlorophenol		10.00	4.211	42	23-131	5-149	
Phenol		10.00	7.608	76	40-130	25-145	
Pyrene		10.00	7.184	72	47-143	31-159	
1,2,4-Trichlorobenzene		10.00	7.792	78	45-129	31-143	

Total number of LCS compounds: 16

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

## Quality Control - LCS

Northrop Grumman Systems Corporation  
8710 Freeport Parkway, Suite 200  
Irving, TX 75063-2577

Date Received: 05/25/18  
Work Order: 18-05-2282  
Preparation: EPA 5030C  
Method: EPA 8260B

Project: Space Park

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
<b>099-12-796-14113</b>	<b>LCS</b>	<b>Solid</b>	<b>GC/MS BB</b>	<b>05/25/18</b>	<b>05/25/18 15:15</b>	<b>180525L018</b>	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Benzene		50.00	58.66	117	80-120	73-127	
Carbon Tetrachloride		50.00	43.40	87	65-137	53-149	
Chlorobenzene		50.00	54.40	109	80-120	73-127	
1,2-Dibromoethane		50.00	53.83	108	80-120	73-127	
1,2-Dichlorobenzene		50.00	53.06	106	80-120	73-127	
1,2-Dichloroethane		50.00	55.93	112	80-120	73-127	
1,1-Dichloroethene		50.00	47.15	94	68-128	58-138	
Ethylbenzene		50.00	54.84	110	80-120	73-127	
Toluene		50.00	54.57	109	80-120	73-127	
Trichloroethene		50.00	53.19	106	80-120	73-127	
Vinyl Chloride		50.00	44.42	89	67-127	57-137	
p/m-Xylene		100.0	106.2	106	75-125	67-133	
o-Xylene		50.00	53.26	107	75-125	67-133	
Methyl-t-Butyl Ether (MTBE)		50.00	42.31	85	70-124	61-133	

Total number of LCS compounds: 14

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits



## Glossary of Terms and Qualifiers

Work Order: 18-05-2282

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<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494  
For courier service / sample drop-off information, contact us26\_sales@eurofins.com or call us.

LABORATORY CLIENT:

Northrop Grumman

ADDRESS: One Space Park

CITY: Redondo Beach

STATE: CA

ZIP: 90278

TEL: 310-813-3189

E-MAIL: doug.hill@ngc.com

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

SAME DAY  24 HR  48 HR  72 HR  7 Days (standard)

GLOBAL ID:

COELT EDF

LOG CODE:

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY RECORD

DATE: 5/24/18

PAGE: 1 OF 1

18-05-2282

WORK/LAB USE ONLY

CLIENT PROJECT NAME / NUMBER

Space Park

P.O. NO.:

4800011247

PROJECT CONTACT:

Doug Hill

SAMPLER(S): (PRINT)

James Smith

REQUESTED ANALYSES

Please check box or fill in blank as needed.

ANALYSIS	UNPRESERVED	PRESERVED	FIELD FILTERED
EPA 8015 GRO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EPA 8015 DRO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EPA 6010/7471 Title 22 Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EPA 8082 PCBs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EPA 8260B VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EPA 8270C Semi-Volatile Organics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Received by: (Signature/Affiliation)

Date:

Time:

5/25/18 1206  
5/25/18 1352

Received by: (Signature/Affiliation)

Date:

Time:

5/25/18 1352

Received by: (Signature/Affiliation)

Date:

Time:

5/25/18 1352

**SAMPLE RECEIPT CHECKLIST**

COOLER 1 OF 1

CLIENT: NORTH RD GUMMAN

DATE: 05/25/2018

**TEMPERATURE:** (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)  
 Thermometer ID: SC6 (CF: +0.1°C); Temperature (w/o CF): 2.2 °C (w/ CF): 2.3 °C;  Blank  Sample  
 Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_)  
 Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling  
 Sample(s) received at ambient temperature; placed on ice for transport by courier  
 Ambient Temperature:  Air  Filter Checked by: 676

**CUSTODY SEAL:**  
 Cooler  Present and Intact  Present but Not Intact  Not Present  N/A Checked by: 676  
 Sample(s)  Present and Intact  Present but Not Intact  Not Present  N/A Checked by: 1017

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers			
<input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input type="checkbox"/> No relinquished date <input type="checkbox"/> No relinquished time			
Sampler's name indicated on COC .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and in good condition .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sufficient volume/mass for analyses requested .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within holding time .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples for certain analyses received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation chemical(s) noted on COC and/or sample container .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Unpreserved aqueous sample(s) received for certain analyses			
<input type="checkbox"/> Volatile Organics <input type="checkbox"/> Total Metals <input type="checkbox"/> Dissolved Metals			
Acid/base preserved samples - pH within acceptable range .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Container(s) for certain analysis free of headspace .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500)			
<input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**CONTAINER TYPE:** (Trip Blank Lot Number: \_\_\_\_\_)  
 Aqueous:  VOA  VOA<sub>h</sub>  VOA<sub>na2</sub>  100PJ  100PJ<sub>na2</sub>  125AGB  125AGB<sub>h</sub>  125AGB<sub>p</sub>  125PB  125PB<sub>znna</sub> (pH\_\_9)  
 250AGB  250CGB  250CGB<sub>s</sub> (pH\_\_2)  250PB  250PB<sub>h</sub> (pH\_\_2)  500AGB  500AGJ  500AGJ<sub>s</sub> (pH\_\_2)  500PB  
 1AGB  1AGB<sub>na2</sub>  1AGB<sub>s</sub> (pH\_\_2)  1AGB<sub>s</sub> (O&G)  1PB  1PB<sub>na</sub> (pH\_\_12)  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_  
 Solid:  4ozCGJ  8ozCGJ  16ozCGJ  Sleeve (\_\_\_\_)  EnCores® (\_\_\_\_)  TerraCores® (\_\_\_\_)  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_  
 Air:  Tedlar™  Canister  Sorbent Tube  PUF  \_\_\_\_\_ Other Matrix (\_\_\_\_):  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_  
 Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag  
 Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO<sub>3</sub>, **na** = NaOH, **na<sub>2</sub>** = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, **p** = H<sub>3</sub>PO<sub>4</sub>, Labeled/Checked by: 1017  
**s** = H<sub>2</sub>SO<sub>4</sub>, **u** = ultra-pure, **x** = Na<sub>2</sub>SO<sub>3</sub>+NaHSO<sub>4</sub>.H<sub>2</sub>O, **znna** = Zn (CH<sub>3</sub>CO<sub>2</sub>)<sub>2</sub> + NaOH Reviewed by: IS



# PROPOSAL

6/18/2018

Rick Fleming  
 UDC BLDG D1 Special Waste \*TEMP R/O\*  
 3001 AVIATION BLVD  
 REDONDO BEACH, CA 90278  
 Quote: A183330748

UDC:

Below is our proposal of recommended services, customized for your business needs identified during our discussions. If you ever need additional services, or just need an extra pickup, please give us a call at 800-299-4898. It's that easy.

## Service Details

### LARGE CONTAINERS

Equipment Qty/Type/Size:	1 - Open Top 10.00Yd(s)	Haul Rate:	\$620.00 per haul
Frequency:	On-Call	Tons Included in Haul Rate:	5.0
Material Type:	Special Waste	Additional Tons:	\$44.99 per ton
Hauls/ month:	1.0		

## Estimated Monthly Amount \*

Large Container Haul Charge	\$620.00
<b>Total Estimated Amount</b>	<b>\$620.00</b>

## One Time Charges

Delivery Charge Subtotal	\$157.50
Valued Customer Discount - Delivery	-\$82.50
<b>Total One-Time Amount</b>	<b>\$75.00</b>

Sam Minh Ho  
 Republic Services  
 747.245.9283  
 MHo@republicservices.com  
[www.republicservices.com](http://www.republicservices.com)

\* The Total Estimated Amount is merely an estimate of your typical monthly invoice amount without one-time start-up charges (e.g., delivery). It does not include any applicable taxes or local fees, which would be additional charges on your invoice.

\*\* FRF, ERF & ADMIN: The Fuel Recovery Fee (FRF) is a variable charge that changes monthly. For more information on the FRF, Environmental Recovery Fee (ERF) and Administrative Fee, please visit the links available on the Bill Pay page of our website, [www.republicservices.com](http://www.republicservices.com). The proposed rates above are valid for 60 days. This proposal is not a contract or agreement or an offer to enter into a contract or agreement. The purpose of this proposal is to set forth the proposed framework of service offerings and rates and fees for those offerings. Any transaction based upon this proposal is subject to and conditioned upon the execution by both parties of Republic Services' Customer Service Agreement.

INVOICE TO	
CUSTOMER NAME	UDC
ATTN:	Rick Fleming
ADDRESS	1041 N KRAEMER PL
CITY	ANAHEIM, CA
STATE	
ZIP CODE	92806-2611
TEL. NO.	(714) 240-5024 FAX NO.

SITE LOCATION	
SITE NAME	UDC BLDG D1 Special Waste *TEMP R/O*
ADDRESS	3001 AVIATION BLVD
CITY	REDONDO BEACH, CA
STATE	
ZIP CODE	90278
TEL. NO.	(714) 936-3879 FAX NO.
AUTHORIZED BY:	Rick Fleming TITLE
CONTACT	Rick Fleming TITLE



Temporary Service Agreement

AGREEMENT NUMBER A183330748

ACCOUNT NUMBER 902-146927

EMAIL rfleming@udccorporation.com

NO	CONT. GRP	TYPE	SIZE	C	QTY	ACCT. TYPE	C/O	SERV. FREQUENCY	EST. LIFTS	S	P.O. REQ	RECPT. REQ	LIF CODE	OPEN/ CLOSE DATE	LIFT CHARGE	MONTHLY SERVICE	EXTRA LIFT	DISP RATE	ADDITIONAL CHARGES	ONE TIME CHARGES	TC/RC CMP
N		RO	10.00Yd(s)	N	1	T	N	O/C	1.0	X		N	SSSW	6/20/2018	\$820.00			\$44.99 over 5.0 tons		Delivery \$75.00 Dry Run \$150.70 Pelocate \$165.00 Removal \$165.00 Washout \$150.70	

Consolidated Disposal Service, L.L.C. DBA Allied Waste Services, Republic Services, Republic Services of Southern California  
HEREINAFTER REFERRED TO AS THE "COMPANY"

The undersigned individual signing this Agreement on behalf of the Customer acknowledges that he or she has read and understands the terms and conditions of this Agreement and that he or she has the authority to sign the Agreement on behalf of the Customer.

BY: Sam Ho  
(AUTHORIZED SIGNATURE)

TITLE: Construction Solution Executive

BY: [Signature]  
(AUTHORIZED SIGNATURE)  
Rick Fleming  
CUSTOMER NAME (PLEASE PRINT)

TITLE: SR PROJ MGR  
6-18-18  
DATE OF AGREEMENT

COMMENTS  
Valued Customer Discount - Delivery for 1 container RO 10.00 yard - \$39.37  
Delivery Notes:  
Safety: No Safety Concerns  
Exempt From: Fuel Recovery Fee, Environmental Recovery Fee, Administrative Fee

TERMS AND CONDITIONS

**SERVICES.** Customer grants to Company the right to collect, transport, and dispose of or recycle all of customer's non-hazardous solid waste materials (including Recyclable Materials) (collectively, "Waste Materials"), and Company agrees to furnish such services as permitted by Applicable Laws. Company agrees to respond to customer's inquiries regarding the services within 30 days of such inquiry.

**TERM.** THE TERM OF THIS AGREEMENT SHALL START ON THE DATE ON WHICH SERVICE UNDER THIS AGREEMENT COMMENCES AND SHALL CONTINUE UNTIL THE EARLIER OF CUSTOMER GIVING WRITTEN NOTICE TO COMPANY OF THE FINAL PULL UNDER THIS AGREEMENT OR 30 DAYS AFTER WRITTEN NOTICE TO COMPANY. COMPANY MAY TERMINATE THIS AGREEMENT AT ANY TIME BY ORAL OR WRITTEN NOTICE TO CUSTOMER. COMPANY SHALL REMOVE ALL EQUIPMENT PROVIDED TO CUSTOMER WITHIN 30 DAYS OF THE EFFECTIVE DATE OF THE TERMINATION OF SERVICES.

**WASTE MATERIALS.** The Waste Materials shall not contain any hazardous materials, wastes or substances; toxic substances, wastes or pollutants; contaminants; pollutants; infectious wastes; medical wastes; or radioactive wastes (collectively, "Excluded Waste"), each as defined by applicable federal, state or local laws or regulations (collectively, "Applicable Laws"). CUSTOMER SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS COMPANY FROM AND AGAINST ANY AND ALL CLAIMS, DAMAGES, SUITS, PENALTIES, FINES, REMEDIATION COSTS, AND LIABILITIES (INCLUDING COURT COSTS AND REASONABLE ATTORNEYS' FEES) (COLLECTIVELY, "LOSSES") RESULTING FROM THE INCLUSION OF EXCLUDED WASTE IN THE WASTE MATERIALS.

**TITLE.** Company shall acquire title to Waste Materials when they are loaded into Company's truck. Title to and liability for any Excluded Waste shall remain with Customer and shall at no time pass to Company.

Bin already located on site and ready for disposal.

CONTINUED ON NEXT PAGE

TERMS AND CONDITIONS (Continued from previous page)

**PAYMENT.** Customer shall pay Company for the services and equipment furnished by Company at the rates provided in this Agreement. Customer shall pay all taxes, fees and other governmental charges assessed against or passed through to Company (other than income or real property taxes). Customer shall pay such fees as the Company may impose from time to time by notice to Customer (including, by way of example only, late payment fees, administrative fees and environmental fees), with Company to determine the amounts of such fees in its discretion up to the maximum amount allowed by Applicable Law. Without limiting the foregoing, Customer shall pay Company: (a) a fee of \$50 (which Company may increase from time to time by notice to Customer) for each check submitted by Customer that is an insufficient funds check or is returned or dishonored; and (b) fuel/environmental recovery fees in the amount shown on each of Company's invoices, which amount Company may increase or decrease from time to time by showing the amount on the invoice. Customer shall pay Company within 20 days after the date of Company's invoice. At any time after Company becomes concerned about Customer's creditworthiness or after Customer has made any late payment, Company may request, and if requested Customer shall pay, a deposit in an amount equal to one month's charges under this Agreement.

**RATE ADJUSTMENTS.** Company may, from time to time by 30 days prior written notice to Customer, increase the rates provided in this Agreement to adjust for any increase in: (a) disposal costs; (b) transportation costs due to a change in location of Customer or the disposal or recycling facility used by Company; (c) the Consumer Price Index for All Urban Consumers (Water, Sewer and Trash Collection Services), U.S. City Average; (d) the average weight per cubic yard of Customer's Waste Materials above the number of pounds per cubic yard upon which the rates provided in this Agreement are based as indicated on the cover page of this Agreement; (e) recycling sorting, processing and related costs; (f) costs related to Customer's failure to separate Recyclable Materials from other Waste Materials, the contamination of the Recyclable Materials, or other decreases in the value of the Recyclable Materials; or (g) Company's costs due to changes in Applicable Laws. Company may increase rates for reasons other than those set forth above with Customer's consent, which may be evidenced verbally, in writing or by the parties' actions and practices.

**SERVICE CHANGES.** The parties may change the type, size or amount of equipment, the type or frequency of service, and correspondingly the rates by agreement of the parties, which may be evidenced verbally, in writing or by the parties' actions and practices. This Agreement shall apply to any change of location of Customer within the area in which Company provides collection and disposal services.

**RECYCLABLE MATERIALS.** This section applies in the event Company has expressly agreed to remove and transport Recyclable Materials (material that Company determines can be recycled typically including, without limitation, aluminum cans (UBC – Used Beverage Containers), cardboard (free of wax), ferrous metal cans, mixed office paper, newspaper and plastics containers) to a material recovery facility, recycling center or similar facility. Customer agrees that Company in its sole discretion may determine any single load is contaminated and may refuse to collect it or may charge Customer for any additional costs, including (but not limited to) sorting, processing, transportation and disposal costs. Customer shall comply with all Applicable Laws regarding the separation of solid waste from Recyclable Materials and use of its best efforts to not place items in the container that may result in the decrease in the value of Recyclable Materials or make the Recyclable Materials unsuitable for recycling.

**RESPONSIBILITY FOR EQUIPMENT; ACCESS.** Any equipment Company furnishes shall remain Company's property. Customer shall be liable for all loss or damage to such equipment (except for normal wear and tear and for loss or damage resulting from Company's handling of the equipment). Customer shall use the equipment only for its proper and intended purpose and shall not overload (by weight or volume), move or alter the equipment. **CUSTOMER SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS COMPANY FROM AND AGAINST ALL LOSSES ARISING FROM ANY INJURY OR DEATH TO PERSONS OR LOSS OR DAMAGE TO PROPERTY (INCLUDING THE EQUIPMENT) ARISING OUT OF CUSTOMER'S USE, OPERATION OR POSSESSION OF THE EQUIPMENT.** Customer shall provide safe, unobstructed access to the equipment on the scheduled collection day. Company may charge an additional fee for any additional collection service required by Customer's failure to provide access.

**DAMAGE TO PAVEMENT.** Company shall not be responsible for any damages to Customer's pavement, curbing or other driving surfaces resulting from Company's providing service at Customer's location.

**SUSPENSION.** If any amount due from Customer is not paid within 60 days after the date of Company's invoice, Company may, without notice and without terminating this Agreement, suspend collecting and disposing of Waste Materials until Customer has paid such amount to Company. If Company suspends service, Customer shall pay Company a service interruption fee in an amount determined by Company in its discretion up to the maximum amount allowed by Applicable Law.

**ASSIGNMENT.** Customer shall not assign this Agreement without Company's prior written consent, which Company shall not unreasonably withhold. Company may assign this Agreement without Customer's consent.

**EXCUSED PERFORMANCE.** Except for Customer's obligation to pay amounts due to Company, any failure or delay in performance due to contingencies beyond a party's reasonable control, including strikes, riots, terrorist acts, compliance with Applicable Laws or governmental orders, fires and acts of God, shall not constitute a breach of this Agreement.

**ATTORNEYS' FEES.** If any litigation is commenced under this Agreement, the successful party shall be entitled to recover, in addition to such other relief as the court may award, its reasonable attorneys' fees, expert witness fees, litigation related expenses, and court or other costs incurred in such litigation or proceeding.

**MISCELLANEOUS.** This Agreement sets forth the entire agreement of the parties and supersedes all prior agreements, whether written or oral, that exist between the parties regarding the subject matter of this Agreement. Company shall have no confidentiality obligation with respect to any Waste Materials. This Agreement shall be binding upon and inure solely to the benefit of the parties and their permitted assigns. If any provision of this Agreement shall be invalid, illegal or unenforceable, it shall be modified so as to be valid, legal and enforceable but so as most nearly to retain the intent of the parties. If such modification is not possible, such provision shall be severed from this Agreement. In either case, the validity, legality and enforceability of the remaining provisions of this Agreement shall not in any way be affected thereby. Customer and Company agree that electronic signatures are valid and effective, and that an electronically stored copy of this Agreement constitutes proof of the signature and contents of this Agreement, as though it were an original.

CUSTOMER'S INITIAL:



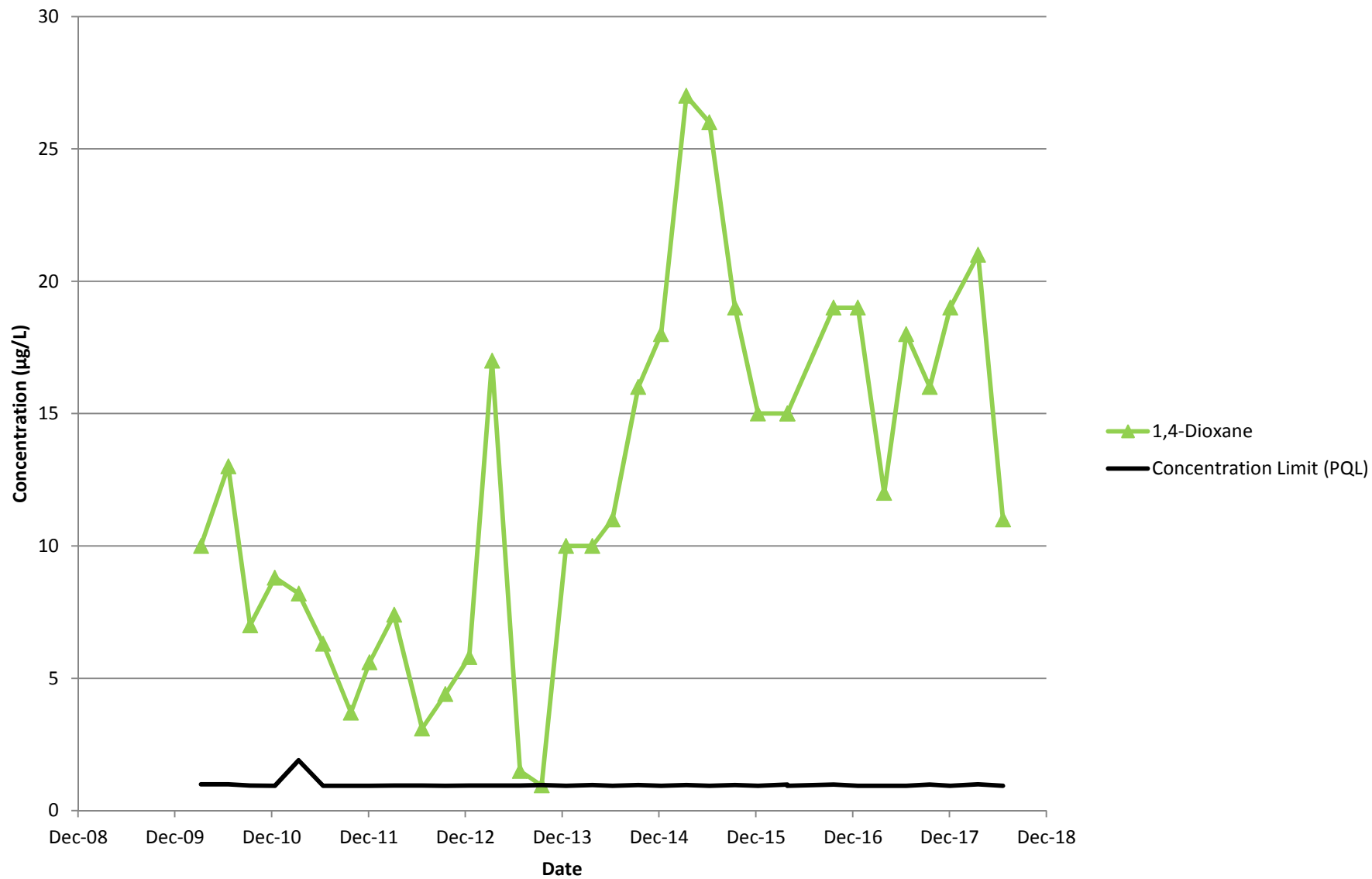
DATE:

6-18-18

## APPENDIX G

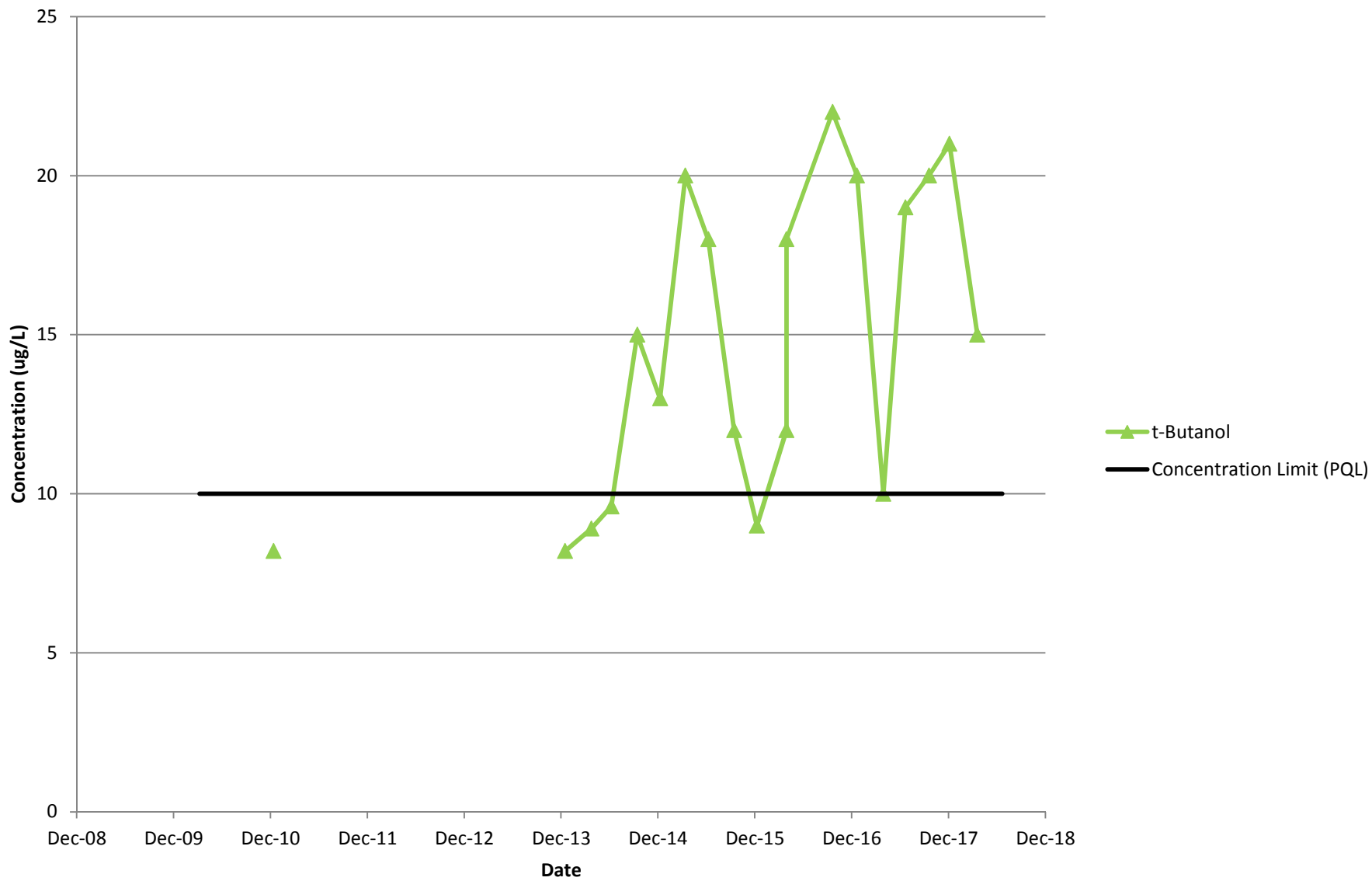
### TRACKING MODE TRENDS

# Tracking Mode Evaluation Shallow Well MW-1

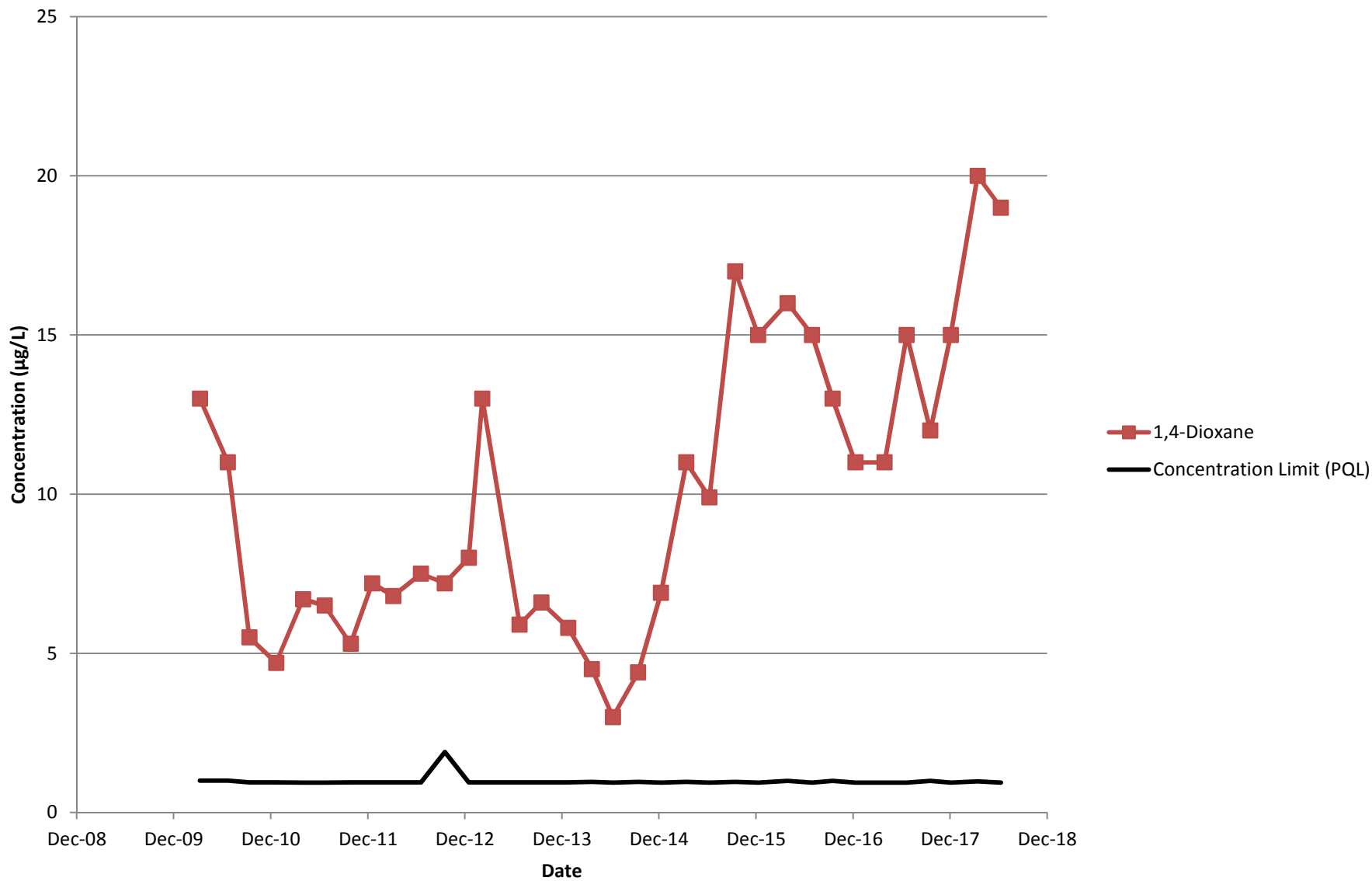




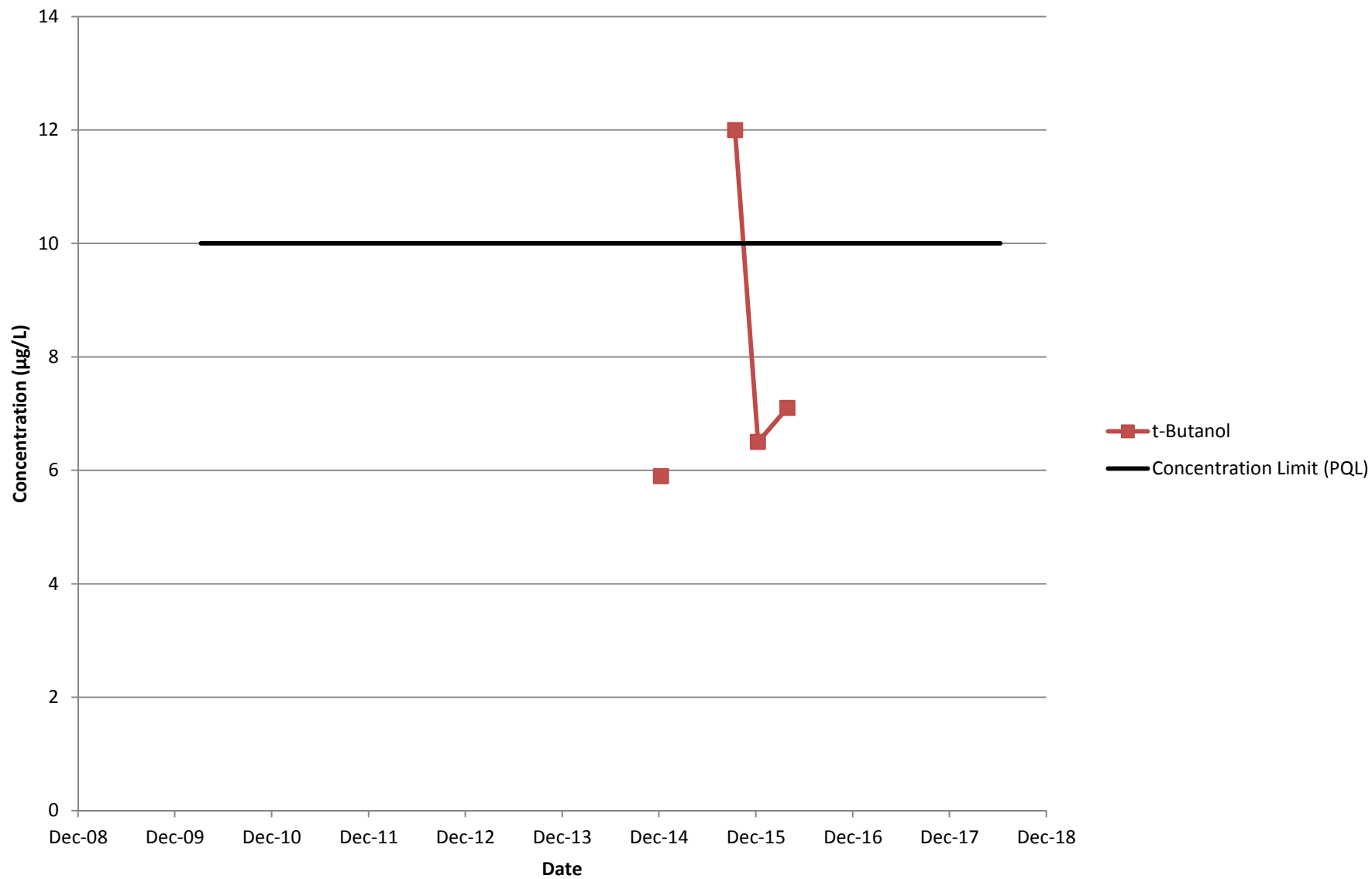
# Tracking Mode Evaluation Shallow Well MW-1



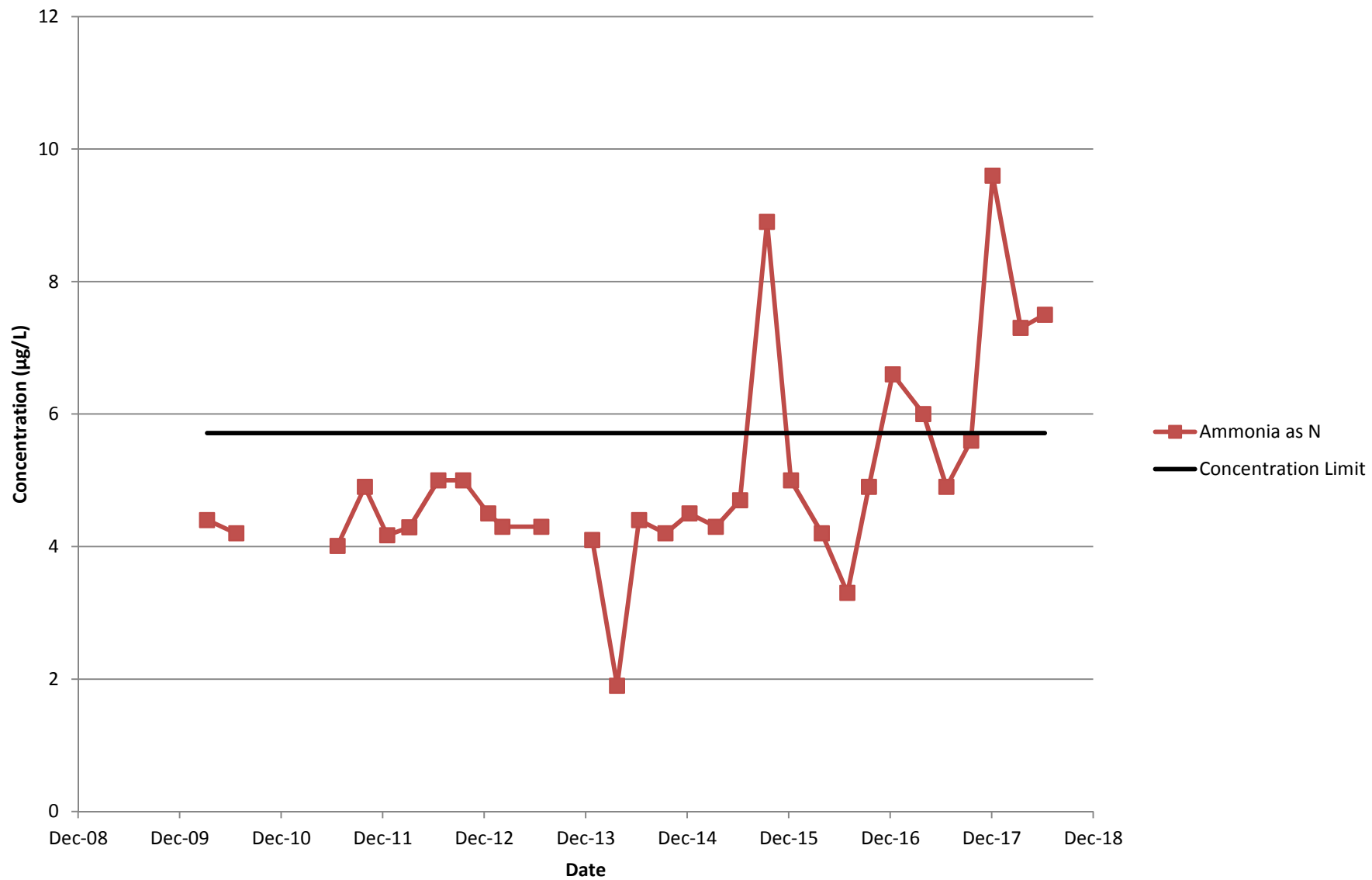
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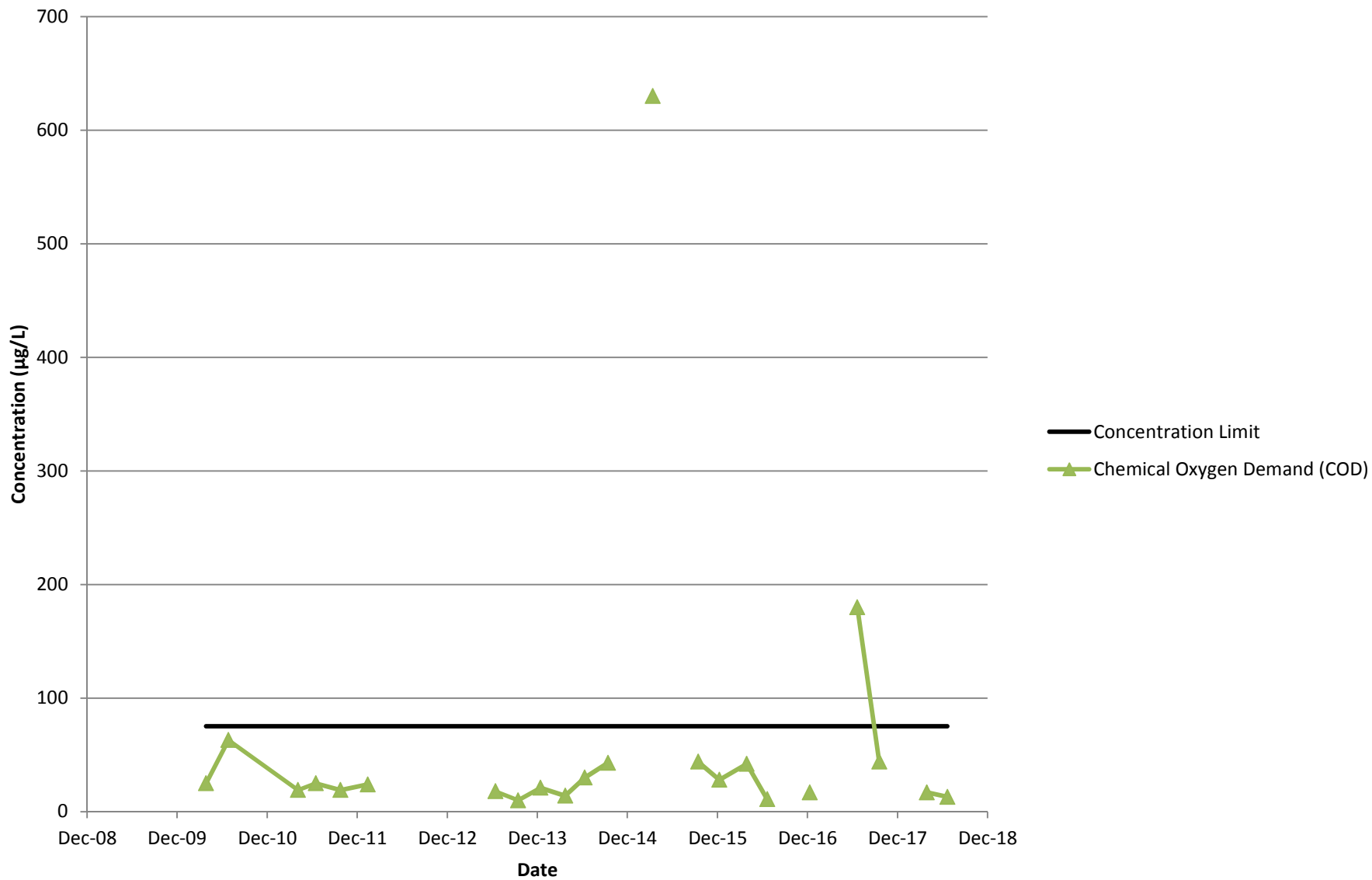
# Tracking Mode Evaluation Shallow Well MW-5



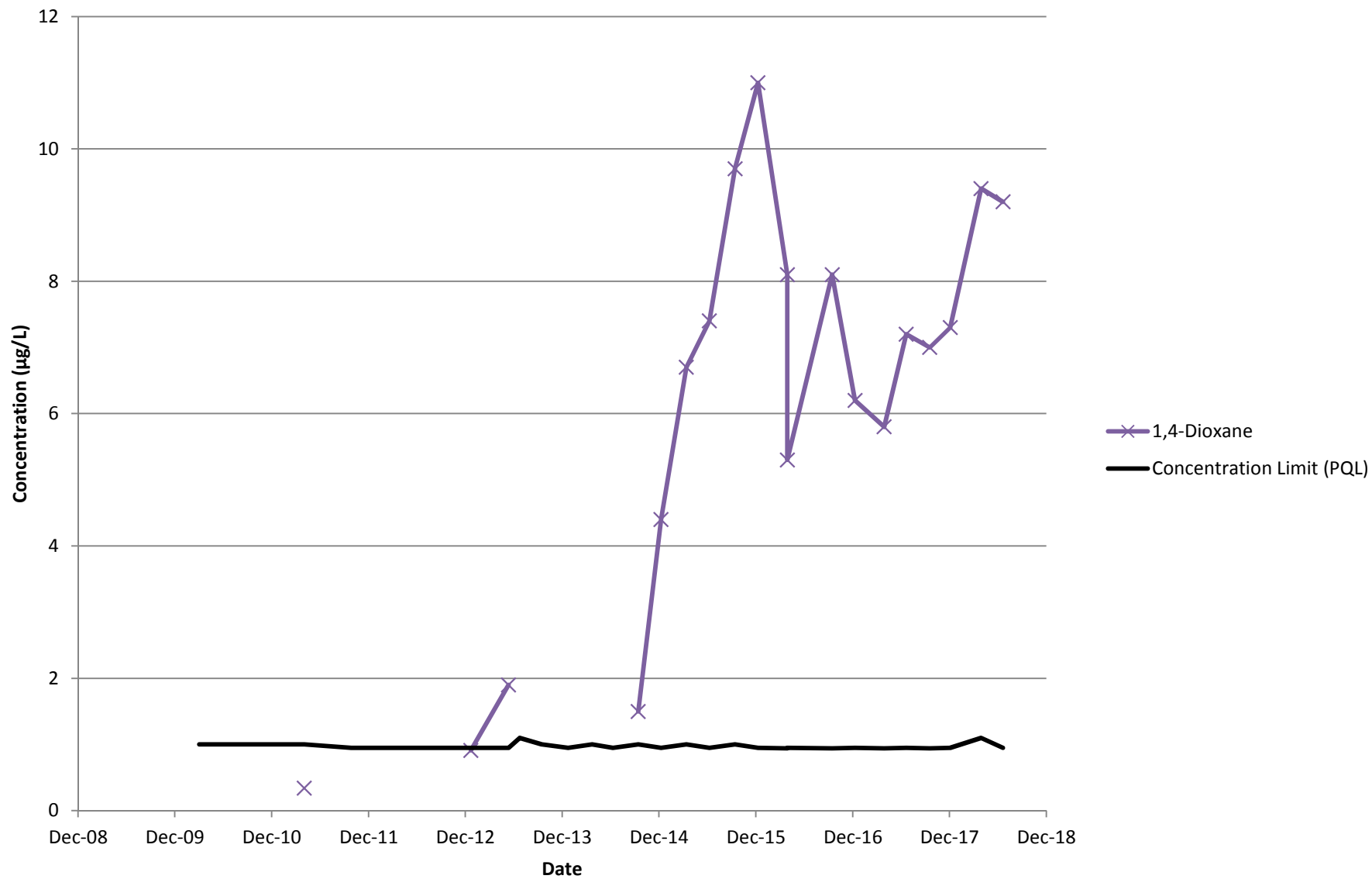
# Tracking Mode Evaluation Shallow Well MW-5



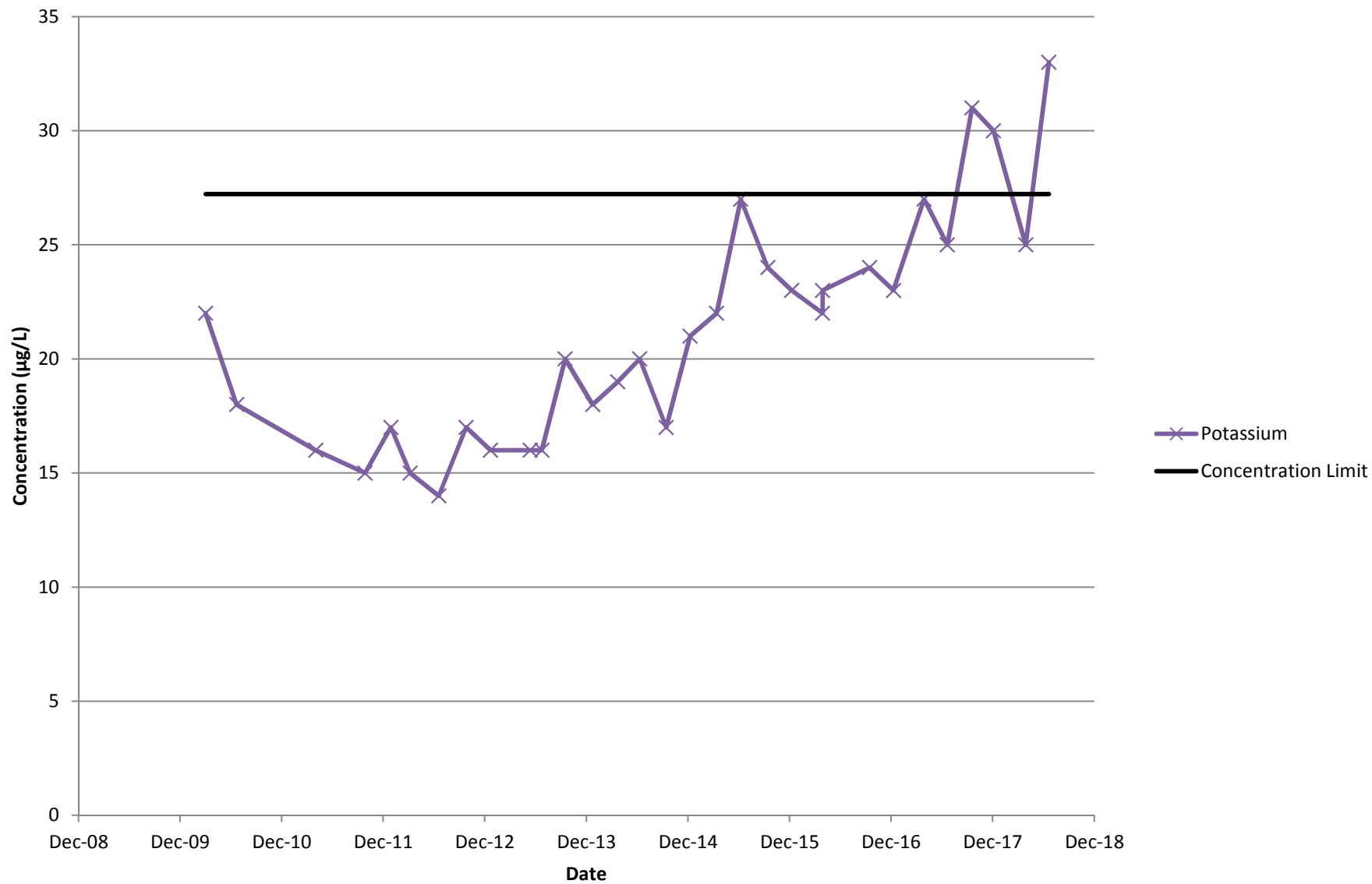
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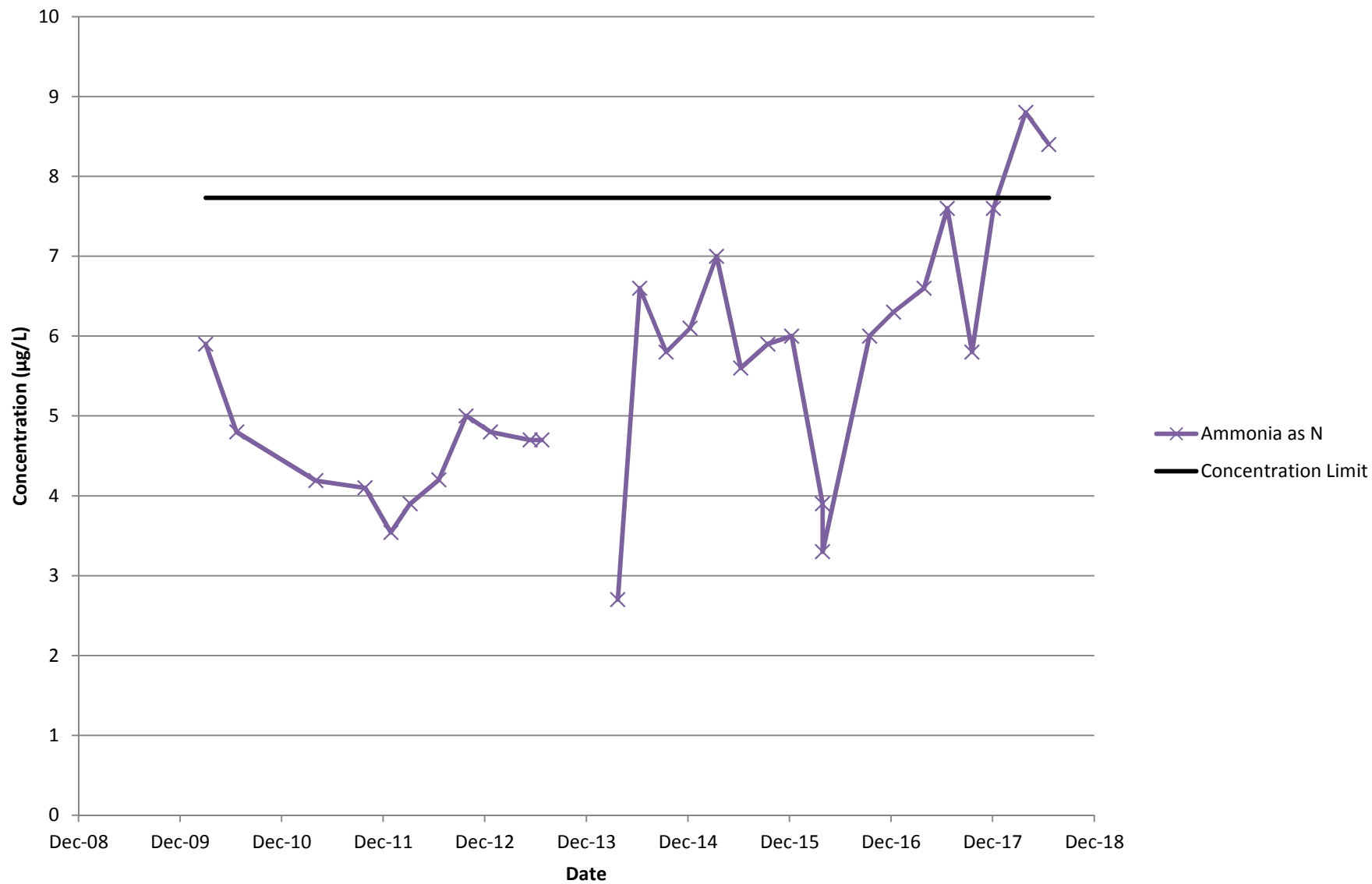
# Tracking Mode Evaluation Shallow Well MW-13R



# Tracking Mode Evaluation Shallow Well MW-13R

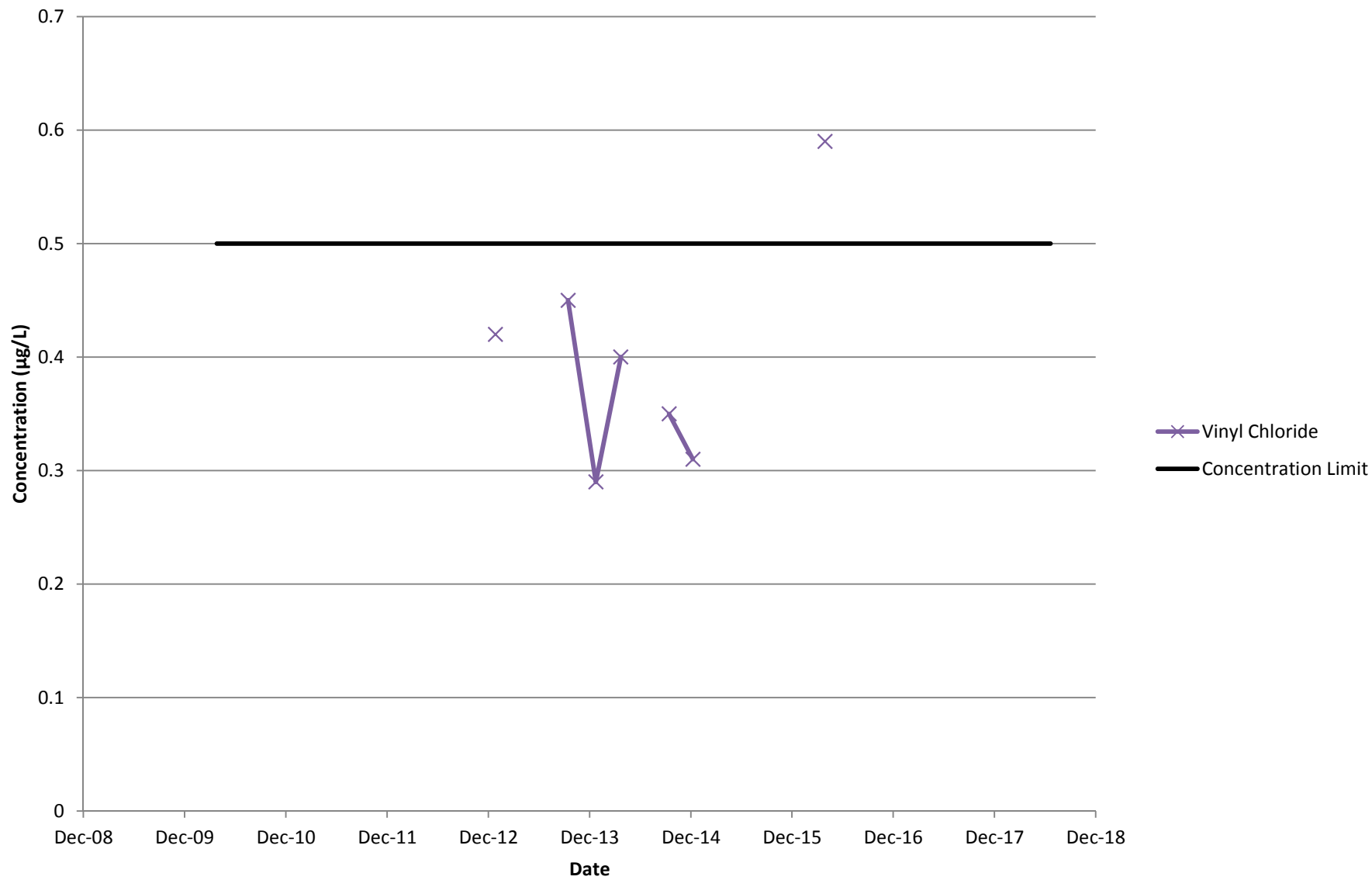


# Tracking Mode Evaluation Shallow Well MW-13R

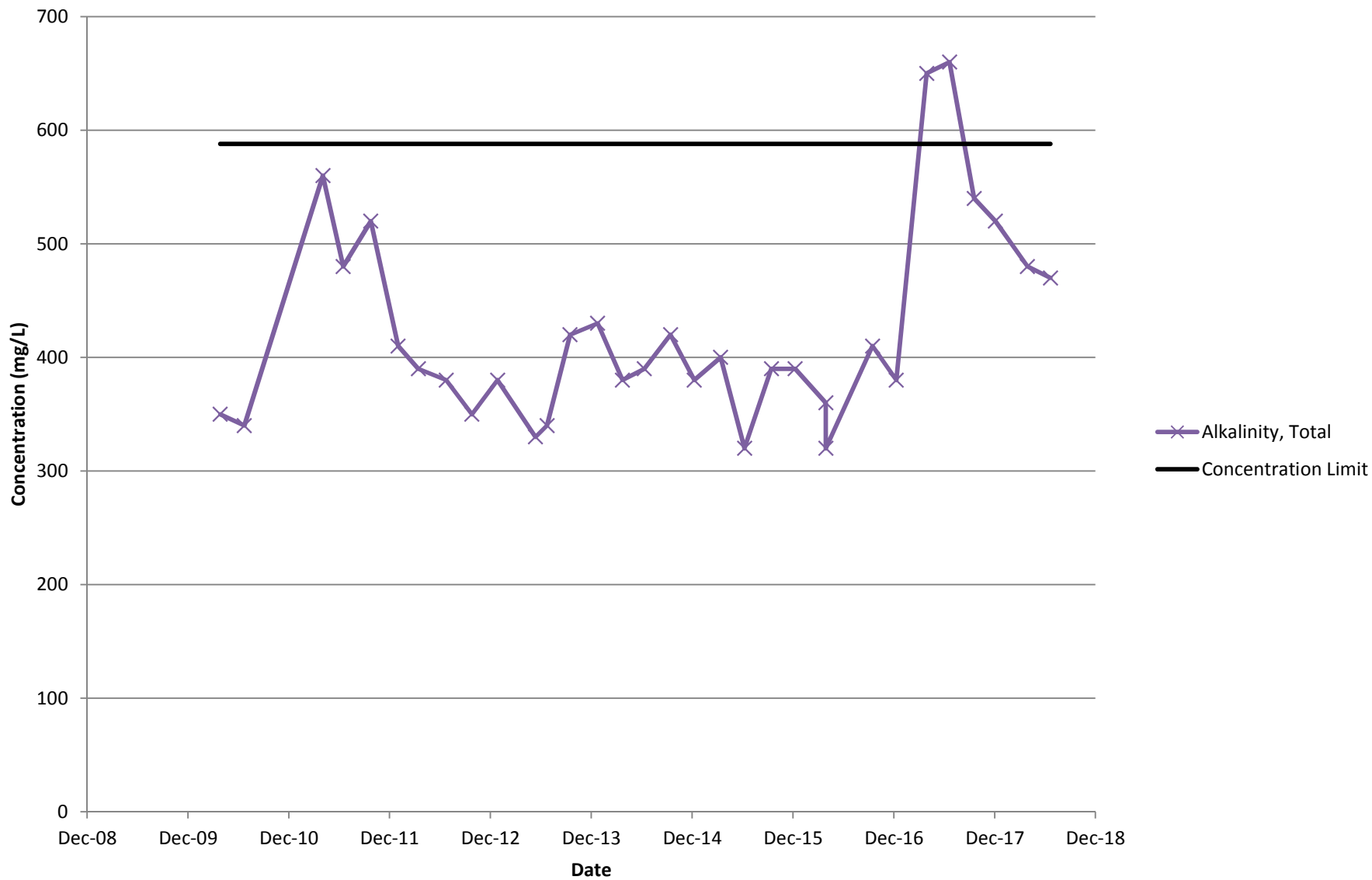




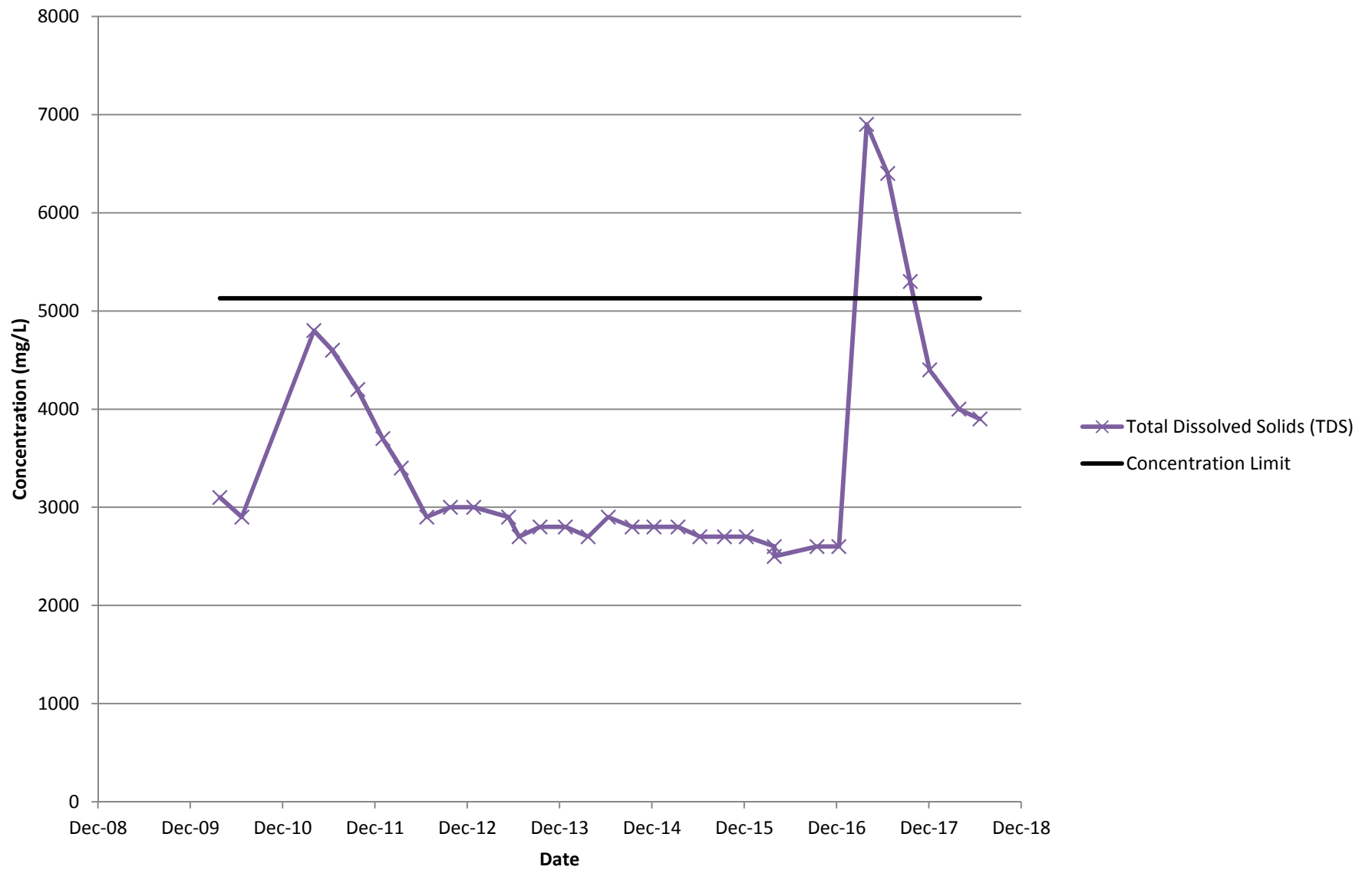
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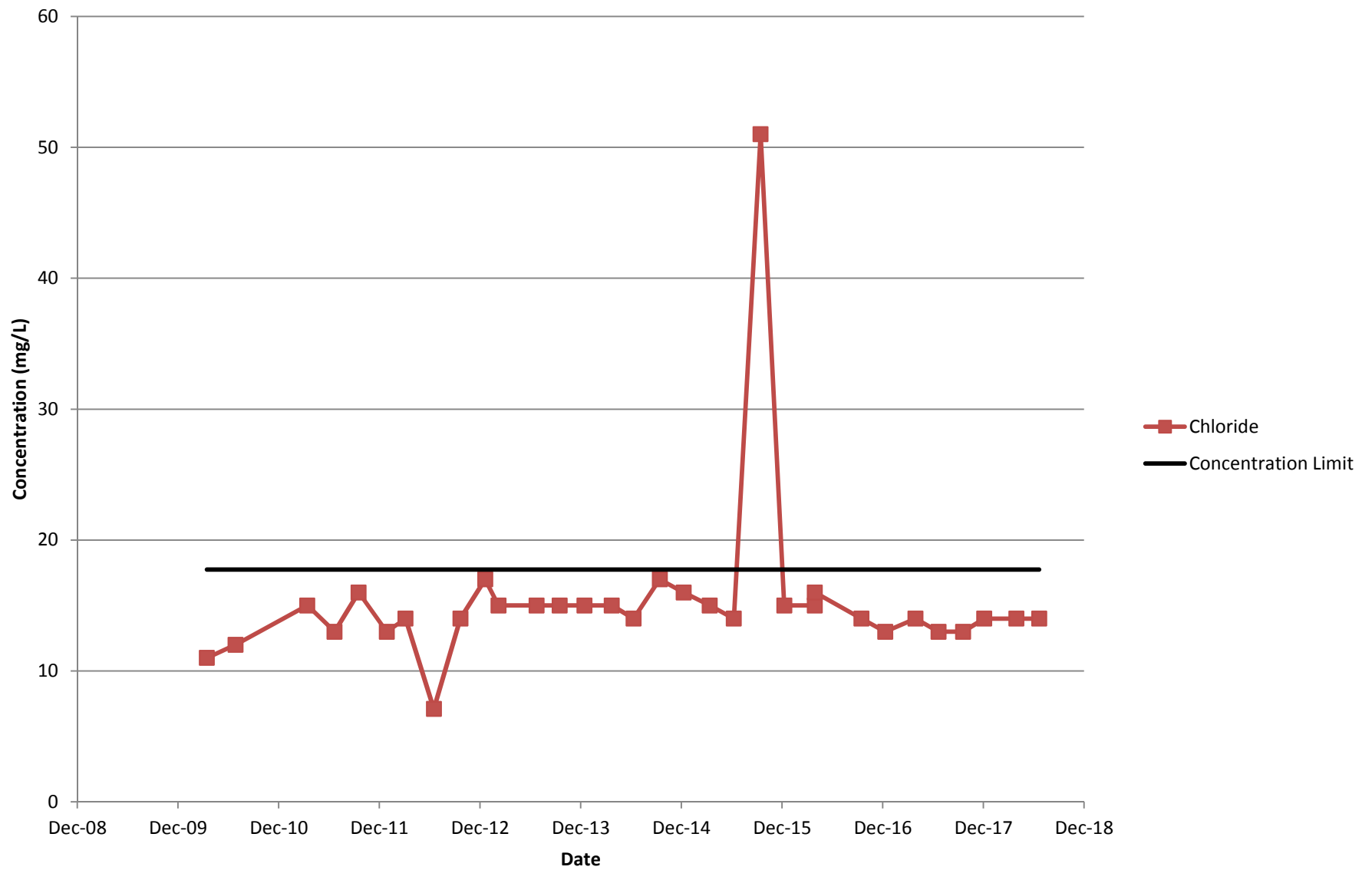
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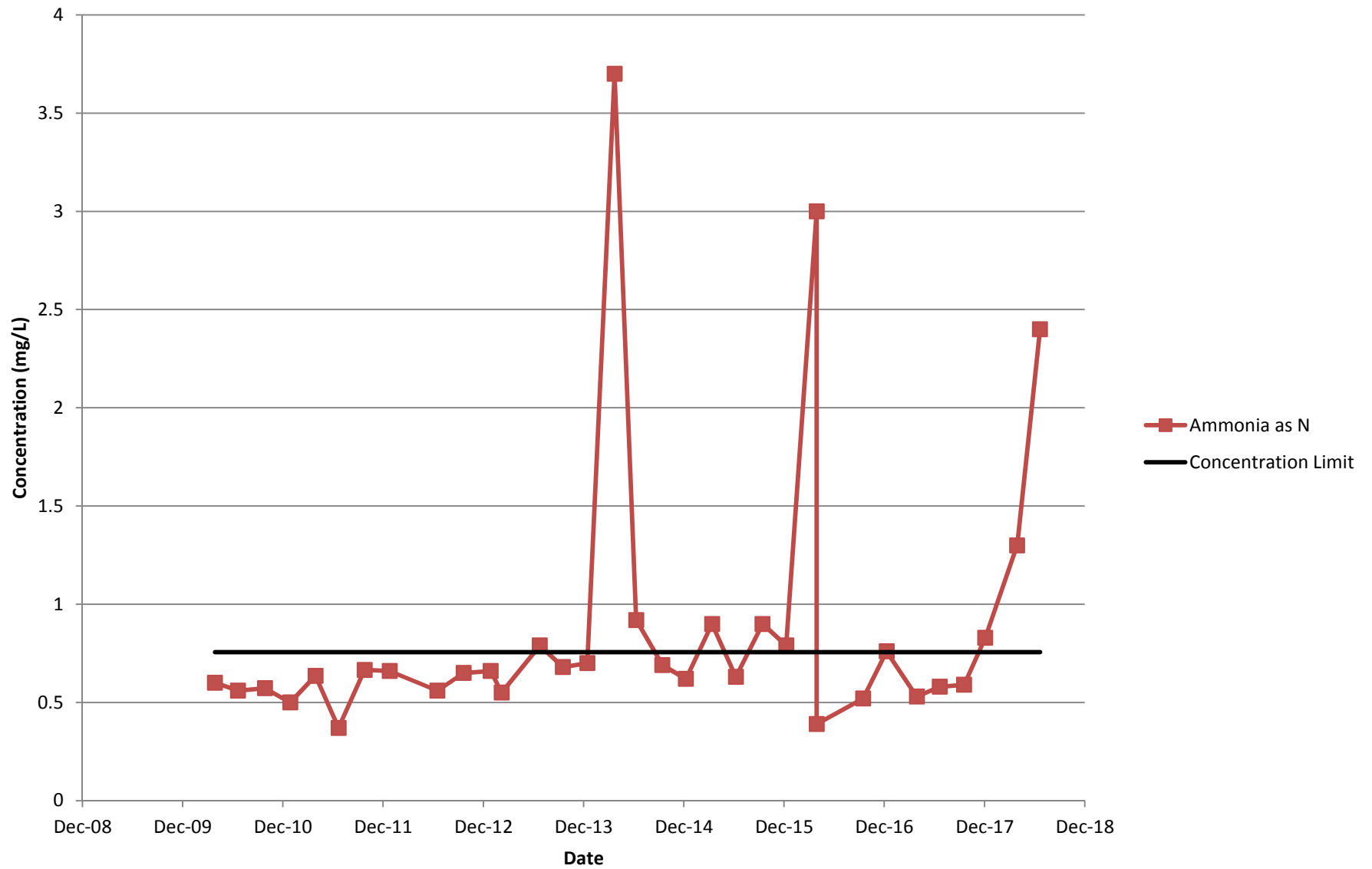
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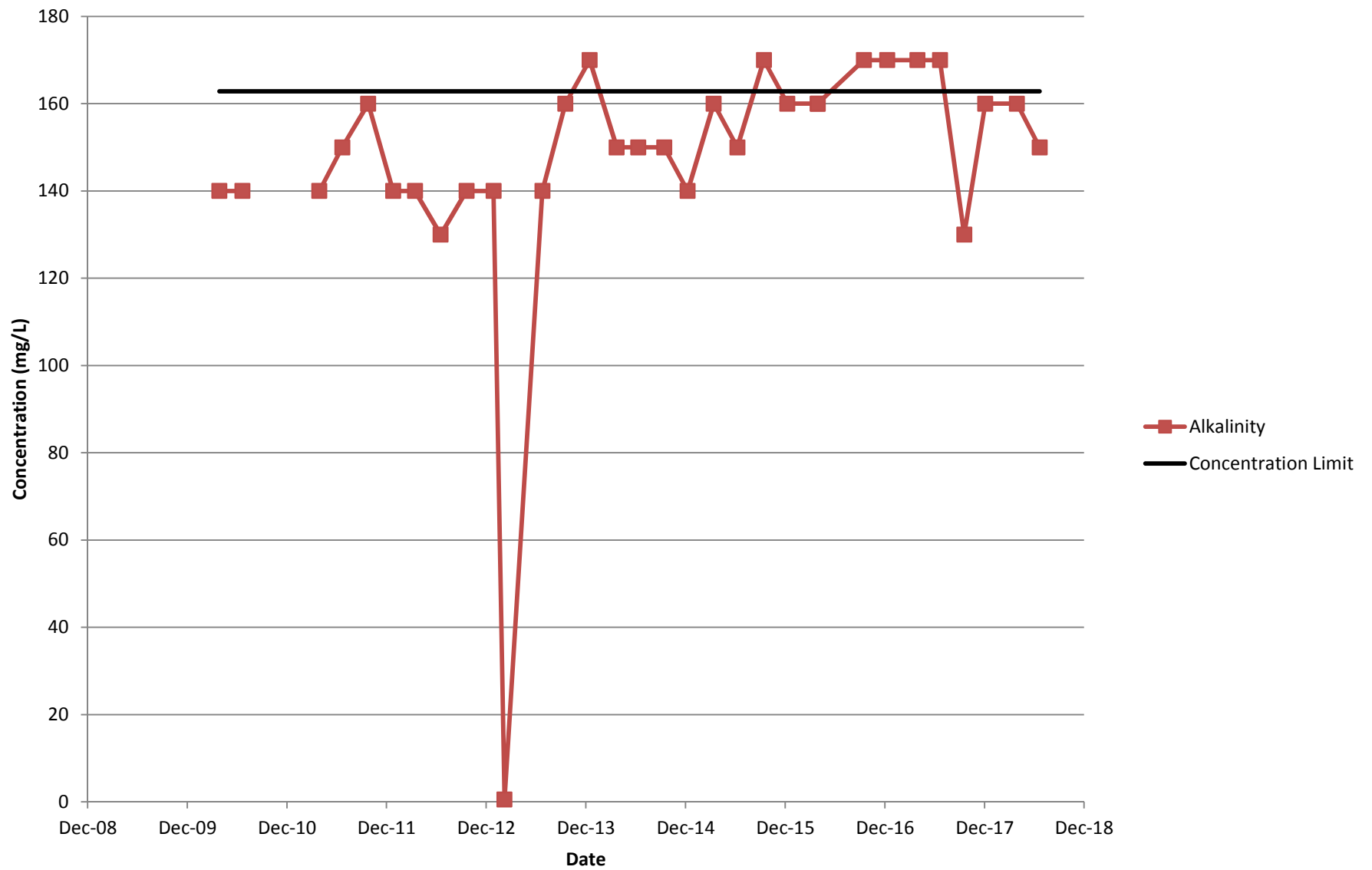
# Tracking Mode Evaluation Deep Well DW-1



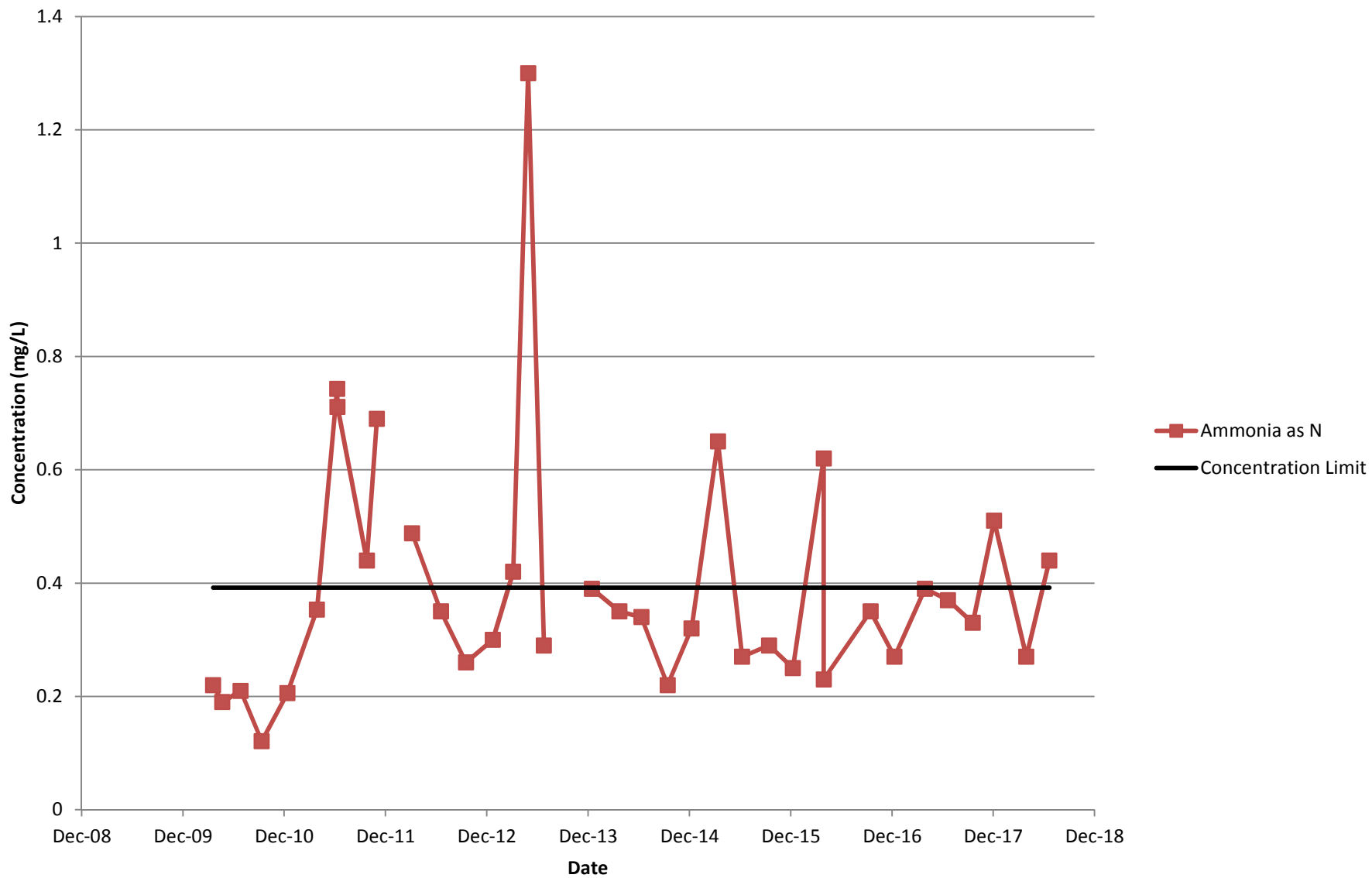
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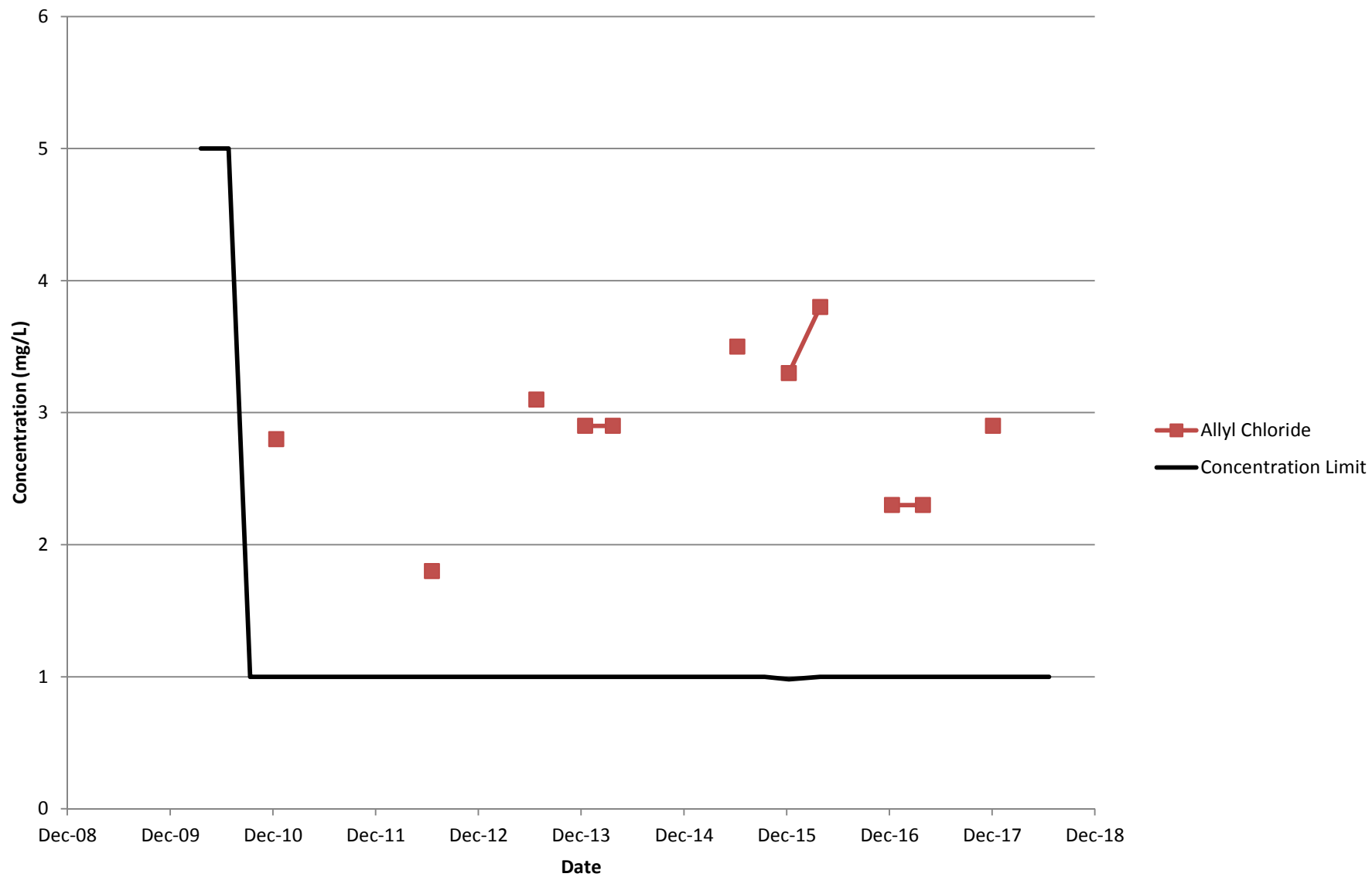
# Tracking Mode Evaluation Deep Well DW-3



# Tracking Mode Evaluation Deep Well DW-5

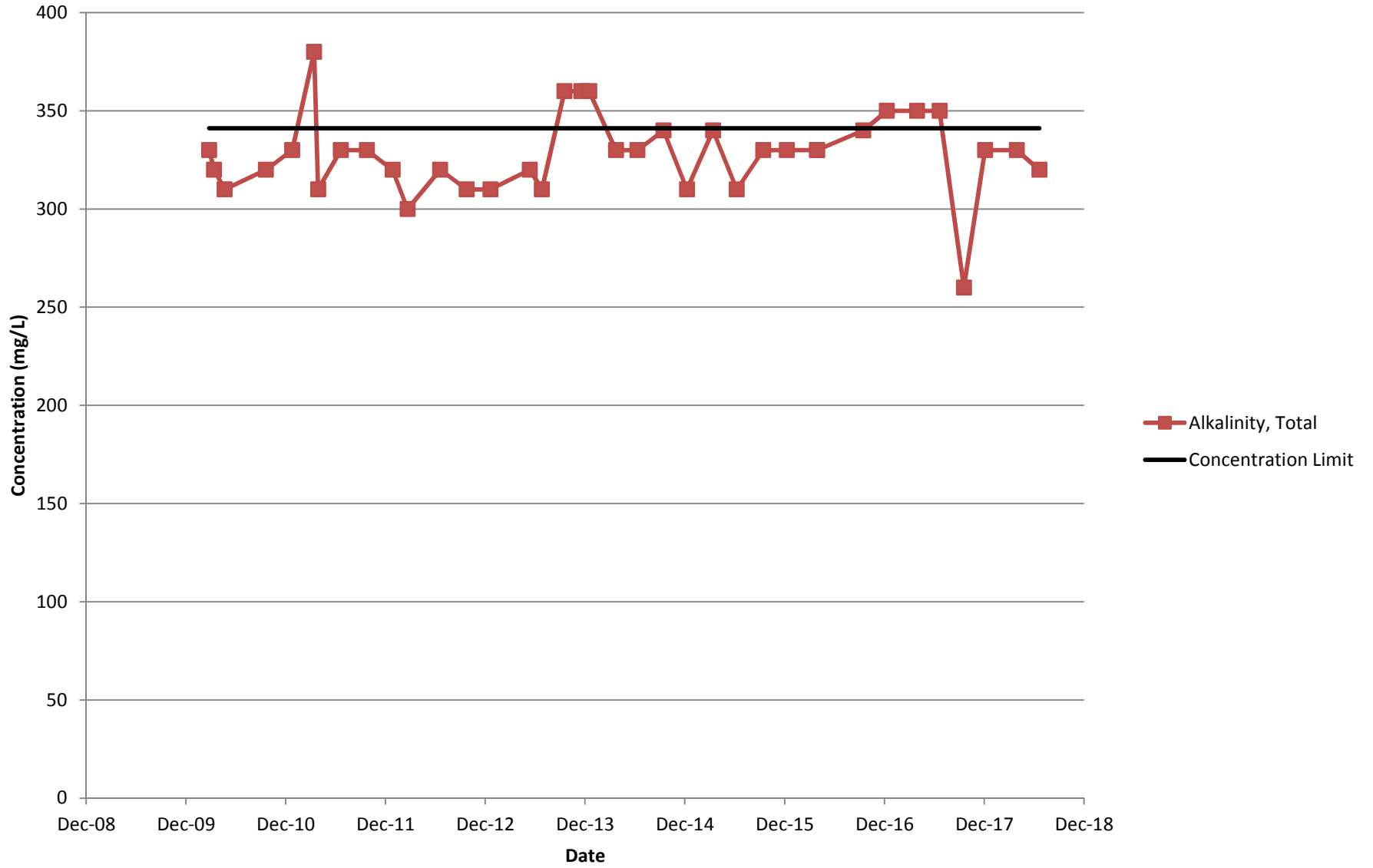


# Tracking Mode Evaluation Deep Well DW-5





# Historical Constituent Concentrations Deep Well PZ-4



# Historical Consituent Concentrations Deep Well PZ-4

