


ANALYTICAL REPORT

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Laboratory Job ID: 440-288144-1
Laboratory SDG: 42748 Old Hwy 80, Jacumba, CA
Client Project/Site: Old Highway 80

For:
County of San Diego
5500 Overland Ave, Suite 110
PO BOX 129261
San Diego, California 92112

Attn: Kelly Robertson



Authorized for release by:
9/1/2021 5:28:03 PM

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LINKS

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



Table of Contents

Cover Page	1
Table of Contents	2
Sample Summary	3
Case Narrative	4
Client Sample Results	5
Method Summary	7
Lab Chronicle	8
QC Sample Results	9
QC Association Summary	12
Definitions/Glossary	13
Certification Summary	14
Chain of Custody	15
Receipt Checklists	17
Action Limit Summary	19

Sample Summary

Client: County of San Diego
Project/Site: Old Highway 80

Job ID: 440-288144-1
SDG: 42748 Old Hwy 80, Jacumba, CA

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-288144-1	17535	Water	08/23/21 10:42	08/26/21 18:30
440-288144-2	17534	Waste	08/23/21 10:54	08/26/21 18:30
440-288144-3	17537	Solid	08/23/21 11:20	08/26/21 18:30
440-288144-4	17536	Solid	08/23/21 11:25	08/26/21 18:30

- 1
- 2
- 3
- 4
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- 6
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- 12
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- 14

Case Narrative

Client: County of San Diego
Project/Site: Old Highway 80

Job ID: 440-288144-1
SDG: 42748 Old Hwy 80, Jacumba, CA

Job ID: 440-288144-1

Laboratory: Eurofins Calscience Irvine

Narrative

Job Narrative 440-288144-1

Comments

No additional comments.

Receipt

The samples were received on 8/26/2021 6:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.9° C.

Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for Antimony were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: County of San Diego
Project/Site: Old Highway 80

Job ID: 440-288144-1
SDG: 42748 Old Hwy 80, Jacumba, CA

Client Sample ID: 17535
Date Collected: 08/23/21 10:42
Date Received: 08/26/21 18:30

Lab Sample ID: 440-288144-1
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	12.8	HF	0.1	SU			08/27/21 15:51	1

Client Sample ID: 17534
Date Collected: 08/23/21 10:54
Date Received: 08/26/21 18:30

Lab Sample ID: 440-288144-2
Matrix: Waste

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ignitability	179		70.0	Degrees F			08/30/21 13:57	1

Client Sample ID: 17537
Date Collected: 08/23/21 11:20
Date Received: 08/26/21 18:30

Lab Sample ID: 440-288144-3
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		100	mg/Kg		08/30/21 08:45	08/31/21 13:57	50
Arsenic	ND		30	mg/Kg		08/30/21 08:45	08/31/21 13:57	50
Barium	85		15	mg/Kg		08/30/21 08:45	08/31/21 13:57	50
Beryllium	ND		5.0	mg/Kg		08/30/21 08:45	08/31/21 13:57	50
Cadmium	ND		5.0	mg/Kg		08/30/21 08:45	08/31/21 13:57	50
Chromium	12		10	mg/Kg		08/30/21 08:45	08/31/21 13:57	50
Cobalt	ND		10	mg/Kg		08/30/21 08:45	08/31/21 13:57	50
Copper	ND		20	mg/Kg		08/30/21 08:45	08/31/21 13:57	50
Lead	ND		20	mg/Kg		08/30/21 08:45	08/31/21 13:57	50
Molybdenum	ND		20	mg/Kg		08/30/21 08:45	08/31/21 13:57	50
Nickel	32		20	mg/Kg		08/30/21 08:45	08/31/21 13:57	50
Selenium	ND		30	mg/Kg		08/30/21 08:45	08/31/21 13:57	50
Silver	ND		15	mg/Kg		08/30/21 08:45	08/31/21 13:57	50
Thallium	ND		100	mg/Kg		08/30/21 08:45	08/31/21 13:57	50
Vanadium	18		10	mg/Kg		08/30/21 08:45	08/31/21 13:57	50
Zinc	110		50	mg/Kg		08/30/21 08:45	08/31/21 13:57	50

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.84		0.041	mg/Kg		08/30/21 10:03	08/30/21 16:04	2

Client Sample ID: 17536
Date Collected: 08/23/21 11:25
Date Received: 08/26/21 18:30

Lab Sample ID: 440-288144-4
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		99	mg/Kg		08/30/21 08:45	08/31/21 14:00	50
Arsenic	ND		30	mg/Kg		08/30/21 08:45	08/31/21 14:00	50
Barium	91		15	mg/Kg		08/30/21 08:45	08/31/21 14:00	50
Beryllium	ND		4.9	mg/Kg		08/30/21 08:45	08/31/21 14:00	50
Cadmium	ND		4.9	mg/Kg		08/30/21 08:45	08/31/21 14:00	50
Chromium	11		9.9	mg/Kg		08/30/21 08:45	08/31/21 14:00	50
Cobalt	ND		9.9	mg/Kg		08/30/21 08:45	08/31/21 14:00	50
Copper	ND		20	mg/Kg		08/30/21 08:45	08/31/21 14:00	50

Client Sample Results

Client: County of San Diego
 Project/Site: Old Highway 80

Job ID: 440-288144-1
 SDG: 42748 Old Hwy 80, Jacumba, CA

Client Sample ID: 17536
Date Collected: 08/23/21 11:25
Date Received: 08/26/21 18:30

Lab Sample ID: 440-288144-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		20	mg/Kg		08/30/21 08:45	08/31/21 14:00	50
Molybdenum	ND		20	mg/Kg		08/30/21 08:45	08/31/21 14:00	50
Nickel	29		20	mg/Kg		08/30/21 08:45	08/31/21 14:00	50
Selenium	ND		30	mg/Kg		08/30/21 08:45	08/31/21 14:00	50
Silver	ND		15	mg/Kg		08/30/21 08:45	08/31/21 14:00	50
Thallium	ND		99	mg/Kg		08/30/21 08:45	08/31/21 14:00	50
Vanadium	17		9.9	mg/Kg		08/30/21 08:45	08/31/21 14:00	50
Zinc	130		49	mg/Kg		08/30/21 08:45	08/31/21 14:00	50

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.88		0.020	mg/Kg		08/30/21 10:03	08/30/21 15:57	1



Method Summary

Client: County of San Diego
Project/Site: Old Highway 80

Job ID: 440-288144-1
SDG: 42748 Old Hwy 80, Jacumba, CA

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV
7471A	Mercury (CVAA)	SW846	TAL IRV
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	ECL 1
9040B	pH	SW846	TAL IRV
3050B	Preparation, Metals	SW846	TAL IRV
7471A	Preparation, Mercury	SW846	TAL IRV

Protocol References:

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

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

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

Lab Chronicle

Client: County of San Diego
Project/Site: Old Highway 80

Job ID: 440-288144-1
SDG: 42748 Old Hwy 80, Jacumba, CA

Client Sample ID: 17535
Date Collected: 08/23/21 10:42
Date Received: 08/26/21 18:30

Lab Sample ID: 440-288144-1
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	9040B		1			655598	08/27/21 15:51	MA6V	TAL IRV

Client Sample ID: 17534
Date Collected: 08/23/21 10:54
Date Received: 08/26/21 18:30

Lab Sample ID: 440-288144-2
Matrix: Waste

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1010		1	70 g	70 mL	175445	08/30/21 13:57	UAPD	ECL 1

Client Sample ID: 17537
Date Collected: 08/23/21 11:20
Date Received: 08/26/21 18:30

Lab Sample ID: 440-288144-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	655648	08/30/21 08:45	FIQ7	TAL IRV
Total/NA	Analysis	6010B		50			655783	08/31/21 13:57	VZ0K	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	655665	08/30/21 10:03	MA6V	TAL IRV
Total/NA	Analysis	7471A		2			655709	08/30/21 16:04	MA6V	TAL IRV

Client Sample ID: 17536
Date Collected: 08/23/21 11:25
Date Received: 08/26/21 18:30

Lab Sample ID: 440-288144-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	655648	08/30/21 08:45	FIQ7	TAL IRV
Total/NA	Analysis	6010B		50			655783	08/31/21 14:00	VZ0K	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	655665	08/30/21 10:03	MA6V	TAL IRV
Total/NA	Analysis	7471A		1			655709	08/30/21 15:57	MA6V	TAL IRV

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494
TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

QC Sample Results

Client: County of San Diego
Project/Site: Old Highway 80

Job ID: 440-288144-1
SDG: 42748 Old Hwy 80, Jacumba, CA

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-655648/1-A ^5
Matrix: Solid
Analysis Batch: 655783

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 655648

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	mg/Kg		08/30/21 08:45	08/31/21 13:40	5
Arsenic	ND		3.0	mg/Kg		08/30/21 08:45	08/31/21 13:40	5
Barium	ND		1.5	mg/Kg		08/30/21 08:45	08/31/21 13:40	5
Beryllium	ND		0.51	mg/Kg		08/30/21 08:45	08/31/21 13:40	5
Cadmium	ND		0.51	mg/Kg		08/30/21 08:45	08/31/21 13:40	5
Chromium	ND		1.0	mg/Kg		08/30/21 08:45	08/31/21 13:40	5
Cobalt	ND		1.0	mg/Kg		08/30/21 08:45	08/31/21 13:40	5
Copper	ND		2.0	mg/Kg		08/30/21 08:45	08/31/21 13:40	5
Lead	ND		2.0	mg/Kg		08/30/21 08:45	08/31/21 13:40	5
Molybdenum	ND		2.0	mg/Kg		08/30/21 08:45	08/31/21 13:40	5
Nickel	ND		2.0	mg/Kg		08/30/21 08:45	08/31/21 13:40	5
Selenium	ND		3.0	mg/Kg		08/30/21 08:45	08/31/21 13:40	5
Silver	ND		1.5	mg/Kg		08/30/21 08:45	08/31/21 13:40	5
Thallium	ND		10	mg/Kg		08/30/21 08:45	08/31/21 13:40	5
Vanadium	ND		1.0	mg/Kg		08/30/21 08:45	08/31/21 13:40	5
Zinc	ND		5.1	mg/Kg		08/30/21 08:45	08/31/21 13:40	5

Lab Sample ID: LCS 440-655648/2-A ^5
Matrix: Solid
Analysis Batch: 655783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 655648

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	49.5	46.2		mg/Kg		93	80 - 120
Arsenic	49.5	44.0		mg/Kg		89	80 - 120
Barium	49.5	43.2		mg/Kg		87	80 - 120
Beryllium	49.5	43.7		mg/Kg		88	80 - 120
Cadmium	49.5	43.3		mg/Kg		88	80 - 120
Chromium	49.5	44.5		mg/Kg		90	80 - 120
Cobalt	49.5	43.5		mg/Kg		88	80 - 120
Copper	49.5	44.0		mg/Kg		89	80 - 120
Lead	49.5	44.3		mg/Kg		89	80 - 120
Molybdenum	49.5	42.4		mg/Kg		86	80 - 120
Nickel	49.5	44.2		mg/Kg		89	80 - 120
Selenium	49.5	43.1		mg/Kg		87	80 - 120
Silver	24.8	21.8		mg/Kg		88	80 - 120
Thallium	49.5	45.1		mg/Kg		91	80 - 120
Vanadium	49.5	43.2		mg/Kg		87	80 - 120
Zinc	49.5	44.2		mg/Kg		89	80 - 120

Lab Sample ID: 440-288165-A-1-B MS ^5
Matrix: Solid
Analysis Batch: 655783

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 655648

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	ND	F1	49.8	12.5	F1	mg/Kg		25	75 - 125
Arsenic	ND		49.8	50.0		mg/Kg		100	75 - 125
Barium	73		49.8	122		mg/Kg		98	75 - 125
Beryllium	ND		49.8	49.1		mg/Kg		98	75 - 125
Cadmium	ND		49.8	46.6		mg/Kg		94	75 - 125

Eurofins Calscience Irvine

QC Sample Results

Client: County of San Diego
Project/Site: Old Highway 80

Job ID: 440-288144-1
SDG: 42748 Old Hwy 80, Jacumba, CA

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

Lab Sample ID: 440-288165-A-1-B MS ^5
Matrix: Solid
Analysis Batch: 655783

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 655648

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	11		49.8	60.2		mg/Kg		99	75 - 125
Cobalt	5.5		49.8	52.6		mg/Kg		95	75 - 125
Copper	13		49.8	62.9		mg/Kg		100	75 - 125
Lead	9.0		49.8	55.3		mg/Kg		93	75 - 125
Molybdenum	ND		49.8	46.0		mg/Kg		92	75 - 125
Nickel	7.1		49.8	55.0		mg/Kg		96	75 - 125
Selenium	ND		49.8	47.5		mg/Kg		95	75 - 125
Silver	ND		24.9	23.7		mg/Kg		95	75 - 125
Thallium	ND		49.8	47.6		mg/Kg		96	75 - 125
Vanadium	27		49.8	77.0		mg/Kg		101	75 - 125
Zinc	43		49.8	90.5		mg/Kg		96	75 - 125

Lab Sample ID: 440-288165-A-1-C MSD ^5
Matrix: Solid
Analysis Batch: 655783

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 655648

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND	F1	50.0	12.8	F1	mg/Kg		26	75 - 125	3	20
Arsenic	ND		50.0	46.1		mg/Kg		92	75 - 125	8	20
Barium	73		50.0	118		mg/Kg		89	75 - 125	4	20
Beryllium	ND		50.0	46.4		mg/Kg		92	75 - 125	6	20
Cadmium	ND		50.0	44.1		mg/Kg		88	75 - 125	5	20
Chromium	11		50.0	57.6		mg/Kg		93	75 - 125	4	20
Cobalt	5.5		50.0	49.5		mg/Kg		88	75 - 125	6	20
Copper	13		50.0	59.4		mg/Kg		93	75 - 125	6	20
Lead	9.0		50.0	52.4		mg/Kg		87	75 - 125	5	20
Molybdenum	ND		50.0	43.5		mg/Kg		87	75 - 125	6	20
Nickel	7.1		50.0	51.8		mg/Kg		89	75 - 125	6	20
Selenium	ND		50.0	44.8		mg/Kg		90	75 - 125	6	20
Silver	ND		25.0	22.4		mg/Kg		90	75 - 125	6	20
Thallium	ND		50.0	44.6		mg/Kg		89	75 - 125	6	20
Vanadium	27		50.0	72.8		mg/Kg		93	75 - 125	6	20
Zinc	43		50.0	85.3		mg/Kg		85	75 - 125	6	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 440-655665/1-A
Matrix: Solid
Analysis Batch: 655709

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 655665

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	mg/Kg		08/30/21 10:03	08/30/21 15:28	1

Lab Sample ID: LCS 440-655665/2-A
Matrix: Solid
Analysis Batch: 655709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 655665

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.392	0.373		mg/Kg		95	80 - 120

QC Sample Results

Client: County of San Diego
Project/Site: Old Highway 80

Job ID: 440-288144-1
SDG: 42748 Old Hwy 80, Jacumba, CA

Method: 1010 - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCSSRM 570-175445/1
Matrix: Waste
Analysis Batch: 175445

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Ignitability	81.0	82.00		Degrees F		101.2	95.1 - 104.9

Lab Sample ID: LCSSRM 570-175445/2
Matrix: Waste
Analysis Batch: 175445

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Ignitability	81.0	80.00		Degrees F		98.8	95.1 - 104.9

Lab Sample ID: 570-68182-A-8 DU
Matrix: Waste
Analysis Batch: 175445

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ignitability	>212		>212.0		Degrees F		NC	25

Method: 9040B - pH

Lab Sample ID: 440-288144-1 DU
Matrix: Water
Analysis Batch: 655598

Client Sample ID: 17535
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	12.8	HF	12.8		SU		0.08	2

QC Association Summary

Client: County of San Diego
Project/Site: Old Highway 80

Job ID: 440-288144-1
SDG: 42748 Old Hwy 80, Jacumba, CA

Metals

Prep Batch: 655648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-288144-3	17537	Total/NA	Solid	3050B	
440-288144-4	17536	Total/NA	Solid	3050B	
MB 440-655648/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-655648/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-288165-A-1-B MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-288165-A-1-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 655665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-288144-3	17537	Total/NA	Solid	7471A	
440-288144-4	17536	Total/NA	Solid	7471A	
MB 440-655665/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 440-655665/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Analysis Batch: 655709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-288144-3	17537	Total/NA	Solid	7471A	655665
440-288144-4	17536	Total/NA	Solid	7471A	655665
MB 440-655665/1-A	Method Blank	Total/NA	Solid	7471A	655665
LCS 440-655665/2-A	Lab Control Sample	Total/NA	Solid	7471A	655665

Analysis Batch: 655783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-288144-3	17537	Total/NA	Solid	6010B	655648
440-288144-4	17536	Total/NA	Solid	6010B	655648
MB 440-655648/1-A ^5	Method Blank	Total/NA	Solid	6010B	655648
LCS 440-655648/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	655648
440-288165-A-1-B MS ^5	Matrix Spike	Total/NA	Solid	6010B	655648
440-288165-A-1-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	655648

General Chemistry

Analysis Batch: 175445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-288144-2	17534	Total/NA	Waste	1010	
LCSSRM 570-175445/1	Lab Control Sample	Total/NA	Waste	1010	
LCSSRM 570-175445/2	Lab Control Sample	Total/NA	Waste	1010	
570-68182-A-8 DU	Duplicate	Total/NA	Waste	1010	

Analysis Batch: 655598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-288144-1	17535	Total/NA	Water	9040B	
440-288144-1 DU	17535	Total/NA	Water	9040B	

Definitions/Glossary

Client: County of San Diego
Project/Site: Old Highway 80

Job ID: 440-288144-1
SDG: 42748 Old Hwy 80, Jacumba, CA

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: County of San Diego
Project/Site: Old Highway 80

Job ID: 440-288144-1
SDG: 42748 Old Hwy 80, Jacumba, CA

Laboratory: Eurofins Calscience Irvine

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2706	06-30-22

Laboratory: Eurofins Calscience LLC

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0161	11-19-21
California	Los Angeles County Sanitation Districts	10109	09-30-21
California	SCAQMD LAP	17LA0919	11-30-21
California	State	2944	09-30-21
Guam	State	21-003R	06-22-22
Nevada	State	CA00111	07-31-22
Oregon	NELAP	CA300001	01-30-22
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-21

Project/Business Name Old Highway 80
 UPFP#/Complaint#/HRT#
 Address 42748 Old Hwy 80
San Marcos, CA
 Sampler's Signature Lea Wisshen
 Sampler's Printed Name Lea Wisshen



440-283144 Chain of Custody

SAMPLE LABEL NO.	DATE	TIME (of Collection)	DESCRIPTION OF SAMPLE/CONTAINER/LOCATION	Title 22 Metals (TTLG)		Title 22 Metals (STLG)		Flashpoint/Ignitibility	Other	SAMPLE TYPE		NO OF CONTAINERS	COMMENTS
				DATE IN	TIME IN	DATE IN	TIME IN			SOLID	LIQUID		
17535	8/23/21	10:42	Purple power Northwest parcel					X		X		1	
17535	8/23/21	10:43	Purple power										
17534	8/23/21	10:54	Black metal drum oil collection building - red dye/water					X		X		1	
17537	8/23/21	11:20	Floor esyent 4 gnt tubes same loc soil sample	X								1	
17536	8/23/21	11:25	fluorescent gnt tubes Bas entry / soil sample	X								1	
17517	8/13/21	11:30	Fluorescent gnt tubes non detection										8 bubbles - separate cap

HMD LAB CUSTODIAN (PRINT NAME)		DATE IN	TIME IN	HMD LAB CUSTODIAN (PRINT NAME)	DATE IN	TIME IN
L. WIKICUM		8/23/21	3:27 PM			
R. ISP		8/26/21	2:38 PM			

RELINQUISHED BY		DATE	TIME	RELINQUISHED BY		DATE	TIME
Lea Wisshen		8/25/21		Ron ISP		8/26/21	
Lea Wisshen				William Rivera		8/26/21	
COSD DEHQ		3:00 PM		EC-IRU		2:38 PM	
Lea Wisshen		8/25/21		William Rivera		8/26/21	
Ron ISP		3:00 PM		EC-IRU		1:38	

RECEIVED BY		DATE	TIME	RECEIVED BY		DATE	TIME
Lea Wisshen		8/25/21		William Rivera		8/26/21	
COSD DEHQ		3:00 PM		EC-IRU		1830	
Lea Wisshen		8/25/21		William Rivera		8/26/21	
Ron ISP		3:00 PM		EC-IRU		1830	

RECEIVED BY		DATE	TIME	RECEIVED BY		DATE	TIME
Lea Wisshen		8/25/21		William Rivera		8/26/21	
COSD DEHQ		3:00 PM		EC-IRU		1830	
Lea Wisshen		8/25/21		William Rivera		8/26/21	
Ron ISP		3:00 PM		EC-IRU		1830	



Login Sample Receipt Checklist

Client: County of San Diego

Job Number: 440-288144-1
SDG Number: 42748 Old Hwy 80, Jacumba, CA

Login Number: 288144

List Number: 1

Creator: Skinner, Alma D

List Source: Eurofins Calscience 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.	True	
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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	False	Sample -2 is multiphasic
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: County of San Diego

Job Number: 440-288144-1
SDG Number: 42748 Old Hwy 80, Jacumba, CA

Login Number: 288144

List Number: 2

Creator: Ortiz-Luis, Michael

List Source: Eurofins Calscience LLC

List Creation: 08/27/21 08:24 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
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	1.5
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?	False	Received project as a subcontract.
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Action Limit Summary

Client: County of San Diego
Project/Site: Old Highway 80

Job ID: 440-288144-1
SDG: 42748 Old Hwy 80, Jacumba, CA

Client Sample ID: 17537

Lab Sample ID: 440-288144-3

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

STLC limits in boxes signify the result exceeds 10x STLC limit. TCLP limits in boxes signify the result exceeds 20x TCLP limit

Analyte	Result	Qualifier	Unit	TTLC Limit	STLC Limit	TCLP Limit	Method	Prep Type
Antimony	ND		mg/Kg	500	15		6010B	Total/NA
Arsenic	ND		mg/Kg	500	5	5	6010B	Total/NA
Barium	85		mg/Kg	10000	100	100	6010B	Total/NA
Beryllium	ND		mg/Kg	75	0.75		6010B	Total/NA
Cadmium	ND		mg/Kg	100	1	1	6010B	Total/NA
Chromium	12		mg/Kg	2500	5	5	6010B	Total/NA
Cobalt	ND		mg/Kg	8000	80		6010B	Total/NA
Copper	ND		mg/Kg	2500	25		6010B	Total/NA
Lead	ND		mg/Kg	1000	5	5	6010B	Total/NA
Molybdenum	ND		mg/Kg	3500	350		6010B	Total/NA
Nickel	32		mg/Kg	2000	20		6010B	Total/NA
Selenium	ND		mg/Kg	100	1	1	6010B	Total/NA
Silver	ND		mg/Kg	500	5	5	6010B	Total/NA
Thallium	ND		mg/Kg	700	7		6010B	Total/NA
Vanadium	18		mg/Kg	2400	24		6010B	Total/NA
Zinc	110		mg/Kg	5000	250		6010B	Total/NA
Mercury	0.84		mg/Kg	20	0.2	0.2	7471A	Total/NA

Client Sample ID: 17536

Lab Sample ID: 440-288144-4

POTENTIAL STLC / TCLP / TTLC LIMITS EXCEEDANCE

STLC limits in boxes signify the result exceeds 10x STLC limit. TCLP limits in boxes signify the result exceeds 20x TCLP limit

Analyte	Result	Qualifier	Unit	TTLC Limit	STLC Limit	TCLP Limit	Method	Prep Type
Antimony	ND		mg/Kg	500	15		6010B	Total/NA
Arsenic	ND		mg/Kg	500	5	5	6010B	Total/NA
Barium	91		mg/Kg	10000	100	100	6010B	Total/NA
Beryllium	ND		mg/Kg	75	0.75		6010B	Total/NA
Cadmium	ND		mg/Kg	100	1	1	6010B	Total/NA
Chromium	11		mg/Kg	2500	5	5	6010B	Total/NA
Cobalt	ND		mg/Kg	8000	80		6010B	Total/NA
Copper	ND		mg/Kg	2500	25		6010B	Total/NA
Lead	ND		mg/Kg	1000	5	5	6010B	Total/NA
Molybdenum	ND		mg/Kg	3500	350		6010B	Total/NA
Nickel	29		mg/Kg	2000	20		6010B	Total/NA
Selenium	ND		mg/Kg	100	1	1	6010B	Total/NA
Silver	ND		mg/Kg	500	5	5	6010B	Total/NA
Thallium	ND		mg/Kg	700	7		6010B	Total/NA
Vanadium	17		mg/Kg	2400	24		6010B	Total/NA
Zinc	130		mg/Kg	5000	250		6010B	Total/NA
Mercury	0.88		mg/Kg	20	0.2	0.2	7471A	Total/NA