



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1504392

Report Created for: Patrick Roddie

1935 Franklin Street #603
San Francisco, CA 94109

Project Contact: Patrick Roddie

Project P.O.:

Project Name: Rain 4-5-15

Project Received: 04/09/2015

Analytical Report reviewed & approved for release on 04/15/2015 by:

Angela Rydelius,
Laboratory Manager

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Glossary of Terms & Qualifier Definitions

Client: Patrick Roddie
Project: Rain 4-5-15
WorkOrder: 1504392

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Analytical Report

Client: Patrick Roddie
Project: Rain 4-5-15
Date Received: 4/9/15 12:36
Date Prepared: 4/9/15

WorkOrder: 1504392
Extraction Method: E200.8
Analytical Method: E200.8
Unit: µg/L

Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
Rain 4-5-15	1504392-001A	Water	04/05/2015 12:00	ICP-MS2	103432

Analytes	Result	RL	DF	Date Analyzed
Aluminum	ND	50	1	04/13/2015 14:59
Barium	160	5.0	1	04/13/2015 14:59
Strontium	ND	20	1	04/13/2015 14:59

Surrogates	REC (%)	Limits	Date Analyzed
Tb 350.917	100	70-130	04/13/2015 14:59

Analyst(s): DVH



Quality Control Report

Client: Patrick Roddie
Date Prepared: 4/9/15
Date Analyzed: 4/9/15
Instrument: ICP-MS2
Matrix: Water
Project: Rain 4-5-15

WorkOrder: 1504392
BatchID: 103432
Extraction Method: E200.8
Analytical Method: E200.8
Unit: µg/L
Sample ID: MB/LCS-103432
 1504391-001DMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Aluminum	ND	532	50	500	-	106	85-115
Barium	ND	509	5.0	500	-	102	85-115
Strontium	ND	541	20	500	-	108	85-115
Surrogate Recovery							
Tb 350.917	767	767		750	102	102	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aluminum	NR	NR		77000	NR	NR	-	NR	
Barium	NR	NR		1200	NR	NR	-	NR	
Strontium	NR	NR		ND<1000	NR	NR	-	NR	
Surrogate Recovery									
Tb 350.917	NR	NR			NR	NR	-	NR	



1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1504392

ClientCode: PRSF

WaterTrax
 WriteOn
 EDF
 Excel
 EQuIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:
 Patrick Roddie
 Patrick Roddie
 1935 Franklin Street #603
 San Francisco, CA 94109
 415 336-4728 FAX:

Email: patrick@webbery.com
 cc/3rd Party:
 PO:
 ProjectNo: Rain 4-5-15

Bill to:
 Accounts Payable
 Patrick Roddie
 1935 Franklin Street #603
 San Francisco, CA 94109

Requested TAT: 5 days

Date Received: 04/09/2015
Date Printed: 04/15/2015

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)													
					1	2	3	4	5	6	7	8	9	10	11	12		
1504392-001	Rain 4-5-15	Water	4/5/2015 12:00	<input type="checkbox"/>	A													

Test Legend:

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

Prepared by: Maria Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: PATRICK RODDIE

QC Level: LEVEL 2

Work Order: 1504392

Project: Rain 4-5-15

Client Contact: Patrick Roddie

Date Received: 4/9/2015

Comments:

Contact's Email: patrick@webbery.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1504392-001A	Rain 4-5-15	Water	E200.8 (Metals) <Aluminum, Barium, Strontium>	1	8OZ GJ/Mason Jar	<input type="checkbox"/>	4/5/2015 12:00	5 days	Trace	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



Sample Receipt Checklist

Client Name: **Patrick Roddie** Date and Time Received: **4/9/2015 12:36:54 PM**
 Project Name: **Rain 4-5-15** LogIn Reviewed by: **Maria Venegas**
 WorkOrder No: **1504392** Matrix: Water Carrier: USPS

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Sample/Temp Blank temperature Temp: NA
 Water - VOA vials have zero headspace / no bubbles? Yes No NA
 Sample labels checked for correct preservation? Yes No
 pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes No NA
 Samples Received on Ice? Yes No

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes No NA
 Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes No NA

* NOTE: If the "No" box is checked, see comments below.

Comments: pH adjusted in Lab.