



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1402952

Report Created for: Patrick Roddie
1935 Franklin Street #603
San Francisco, CA 94109

Project Contact: Patrick Roddie
Project P.O.:
Project Name: Feb 2014 SF Rain

Project Received: 02/27/2014

Analytical Report reviewed & approved for release on 03/05/2014 by:

Question about
your data?

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

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Glossary of Terms & Qualifier Definitions

Client: Patrick Roddie
Project: Feb 2014 SF Rain
WorkOrder: 1402952

| <u>Glossary Abbreviation</u> | <u>Description</u> |
|----------------------------------|---|
| 95% Interval | 95% Confident Interval |
| DF | Dilution Factor |
| 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 |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ND | Not detected at or above the indicated MDL or RL |
| NR | Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content. |
| 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 |
| TEQ | Toxicity Equivalence |



Analytical Report

Client: Patrick Roddie
Project: Feb 2014 SF Rain
Date Received: 2/27/14 10:12
Date Prepared: 2/27/14

WorkOrder: 1402952
Extraction Method: E200.8
Analytical Method: E200.8
Unit: µg/L

Metals

| Client ID | Lab ID | Matrix/ExtType | Date Collected | Instrument | Batch ID |
|-------------------|----------------|----------------|------------------|------------|----------------------|
| Feb 14 SF Rain | 1402952-001A | Water/TOTAL | 02/26/2014 10:00 | ICP-MS1 | 87529 |
| <u>Analytes</u> | <u>Result</u> | | <u>RL</u> | <u>DF</u> | <u>Date Analyzed</u> |
| Aluminum | ND | | 100 | 1 | 03/03/2014 14:19 |
| Barium | 6.0 | | 5.0 | 1 | 03/03/2014 14:19 |
| Strontium | ND | | 20 | 1 | 03/03/2014 14:19 |
| <u>Surrogates</u> | <u>REC (%)</u> | | <u>Limits</u> | | |
| Tb 350.917 | 97 | | 70-130 | | 03/03/2014 14:19 |



Quality Control Report

Client: Patrick Roddie
Date Prepared: 2/26/14
Date Analyzed: 2/27/14
Instrument: ICP-MS1
Matrix: Water
Project: Feb 2014 SF Rain

WorkOrder: 1402952
BatchID: 87529
Extraction Method: E200.8
Analytical Method: E200.8
Unit: µg/L
Sample ID: MB/LCS-87529
 1402931-003AMS/MSD

QC Summary Report for E200.8

| Analyte | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|---------------------------|-----------|------------|-----|---------|------------|----------|------------|
| Aluminum | ND | 518.9 | 50 | 500 | - | 104 | 85-115 |
| Barium | ND | 457.8 | 5.0 | 500 | - | 91.6 | 85-115 |
| Strontium | ND | 510 | 20 | 500 | - | 102 | 85-115 |
| Surrogate Recovery | | | | | | | |
| Tb 350.917 | 738.7 | 716 | | 750 | 98 | 95 | 70-130 |

| Analyte | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD Limit |
|---------------------------|-----------|------------|---------|------------|---------|----------|---------------|-----|-----------|
| Aluminum | NR | NR | 0 | 10000 | NR | NR | - | NR | |
| Barium | NR | NR | 0 | 140 | NR | NR | - | NR | |
| Strontium | NR | NR | 0 | 570 | NR | NR | - | NR | |
| Surrogate Recovery | | | | | | | | | |
| Tb 350.917 | NR | NR | 0 | | NR | NR | - | NR | |



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1402952

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:
 PO:
 ProjectNo: Feb 2014 SF Rain

Bill to:

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

Requested TAT:

5 days

Date Received: **02/27/2014**

Date Printed: **02/27/2014**

| 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 | | |
| 1402952-001 | Feb 14 SF Rain | Water | 2/26/2014 10:00 | <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: 1402952

Project: Feb 2014 SF Rain

Client Contact: Patrick Roddie

Date Received: 2/27/2014

Comments:

Contact's Email: patrick@webbery.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

| Lab ID | Client ID | Matrix | Test Name | Number of Containers | Bottle & Preservative | De-chlorinated | Collection Date & Time | TAT | Sediment Content | Hold | SubOut |
|--------------|----------------|--------|---|----------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1402952-001A | Feb 14 SF Rain | Water | E200.8 (Metals) <Aluminum, Barium, Strontium> | 1 | 8OZ GJ/Tall | <input type="checkbox"/> | 2/26/2014 10:00 | 5 days | Present | <input type="checkbox"/> | |

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:

8OZ GJ/Tall =



Sample Receipt Checklist

Client Name: **Patrick Roddie** Date and Time Received: **2/27/2014 10:12:13 AM**
 Project Name: **Feb 2014 SF Rain** Login Reviewed by: **Maria Venegas**
 WorkOrder N°: **1402952** 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
 Container/Temp Blank temperature Cooler Temp: NA
 Water - VOA vials have zero headspace / no bubbles? Yes No NA
 Sample labels checked for correct preservation? Yes No
 Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 Samples Received on Ice? Yes No

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

 Comments: pH had to be adjusted for Metals!