

EXCELCHEM
Environmental Labs

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ELAP Certificate No. : 2119

24 March 2014

Kathy Amaru

RWQC Central Valley

11020 Sun Center Dr. #200

Rancho Cordova, CA 95670

RE: 10-02-150

Work order number:1403004

Enclosed are the results of analyses for samples received by the laboratory on 03/04/14 11:40. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

John Somers, Lab Director

Excelchem Environmental Labs

RWQC Central Valley
 11020 Sun Center Dr. #200
 Rancho Cordova, CA 95670


Project: 10-02-150
 Project Number: [none]
 Project Manager: Kathy Amaru

Date Reported:
 03/24/14 17:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
1A	1403004-01	Water	02/28/14 14:05	03/04/14 11:40
1B	1403004-02	Water	02/28/14 14:05	03/04/14 11:40
1C	1403004-03	Water	02/28/14 14:05	03/04/14 11:40
2A	1403004-04	Water	03/03/14 11:10	03/04/14 11:40
2B	1403004-05	Water	03/03/14 11:10	03/04/14 11:40
2C	1403004-06	Water	03/03/14 11:10	03/04/14 11:40
3A	1403004-07	Water	03/03/14 11:25	03/04/14 11:40
3B	1403004-08	Water	03/03/14 11:25	03/04/14 11:40
3C	1403004-09	Water	03/03/14 11:25	03/04/14 11:40
4A	1403004-10	Water	03/03/14 11:45	03/04/14 11:40
4B	1403004-11	Water	03/03/14 11:45	03/04/14 11:40
5A	1403004-12	Water	03/03/14 12:10	03/04/14 11:40
5B	1403004-13	Water	03/03/14 12:10	03/04/14 11:40
5C	1403004-14	Water	03/03/14 12:10	03/04/14 11:40

Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

1A 1403004-01 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Recoverable Metals										
Calcium	14300	100	79.0	ug/l	1	AXC0044	03/06/14	03/07/14	EPA 200.7	
Antimony	1.5	10.0	1.2	"	1	"	"	"	"	J
Arsenic	2.6	10.0	1.1	"	1	"	"	"	"	J
Barium	42.1	5.0	1.1	"	1	"	"	"	"	
Beryllium	ND	5.0	0.2	"	1	"	"	"	"	
Cadmium	0.4	5.0	0.06	"	1	"	"	"	"	J
Chromium	3.6	5.0	0.3	"	1	"	"	"	"	J
Cobalt	0.8	5.0	0.1	"	1	"	"	"	"	J
Copper	10.0	5.0	0.3	"	1	"	"	"	"	
Lead	ND	5.0	0.9	"	1	"	"	"	"	
Molybdenum	5.0	5.0	0.8	"	1	"	"	"	"	
Nickel	6.6	5.0	0.2	"	1	"	"	"	"	
Selenium	0.8	20.0	0.8	"	1	"	"	"	"	J
Silver	0.3	5.0	0.3	"	1	"	"	"	"	J
Thallium	ND	5.0	1.7	"	1	"	"	"	"	
Vanadium	6.0	5.0	0.2	"	1	"	"	"	"	
Zinc	164	20.0	0.4	"	1	"	"	"	"	
Magnesium	2000	50.0	15.6	"	1	"	"	"	"	
Mercury	ND	0.200	0.0460	"	1	AXC0158	03/14/14	03/18/14	EPA 245.1	
Potassium	1490	200	46.8	"	1	AXC0044	03/06/14	03/07/14	EPA 200.7	
Sodium	1110	200	120	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

1B 1403004-02 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Sulfate as SO4	3.6	0.5	0.07	mg/L	1	AXC0012	03/04/14	03/04/14	EPA 300.0	
Wet Chemistry										
Carbonate Alkalinity	ND	5.00	2.37	mg/L	1	AXC0124	03/13/14	03/13/14	SM2320B	
pH	7.46	0.100	0.100	pH Units	1	AXC0092	03/04/14	03/04/14	SM 4500-H+ B	Field
Total Recoverable Metals										
Calcium	13100	100	79.0	ug/l	1	AXC0173	03/17/14	03/18/14	EPA 200.7	
Antimony	ND	10.0	1.2	"	1	"	"	"	"	
Arsenic	ND	10.0	1.1	"	1	"	"	"	"	
Barium	39.9	5.0	1.1	"	1	"	"	"	"	
Beryllium	ND	5.0	0.2	"	1	"	"	"	"	
Cadmium	0.1	5.0	0.06	"	1	"	"	"	"	J
Chromium	3.4	5.0	0.3	"	1	"	"	"	"	J
Cobalt	0.6	5.0	0.1	"	1	"	"	"	"	J
Copper	9.4	5.0	0.3	"	1	"	"	"	"	
Lead	ND	5.0	0.9	"	1	"	"	"	"	
Molybdenum	4.5	5.0	0.8	"	1	"	"	"	"	J
Nickel	5.0	5.0	0.2	"	1	"	"	"	"	
Selenium	2.0	20.0	0.8	"	1	"	"	"	"	J
Silver	0.3	5.0	0.3	"	1	"	"	"	"	J
Thallium	ND	5.0	1.7	"	1	"	"	"	"	
Vanadium	6.1	5.0	0.2	"	1	"	"	"	"	
Zinc	81.4	20.0	0.4	"	1	"	"	"	"	
Magnesium	1990	50.0	15.6	"	1	"	"	"	"	
Mercury	ND	0.200	0.0460	"	1	AXC0158	03/14/14	03/18/14	EPA 245.1	
Potassium	1440	200	46.8	"	1	AXC0173	03/17/14	03/18/14	EPA 200.7	
Sodium	1110	200	120	"	1	"	"	"	"	
Dissolved Metals										
Dissolved Calcium	12700	100	79.0	ug/l	1	AXC0155	03/17/14	03/17/14	EPA 200.7	
Dissolved Antimony	ND	10.0	1.3	"	1	"	"	"	"	
Dissolved Arsenic	2.2	10.0	1.0	"	1	"	"	"	"	J
Dissolved Barium	59.8	5.0	1.2	"	1	"	"	"	"	
Dissolved Beryllium	0.1	5.0	0.09	"	1	"	"	"	"	J
Dissolved Cadmium	0.3	5.0	0.1	"	1	"	"	"	"	J

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RWQC Central Valley
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Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

1B 1403004-02 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Dissolved Metals										
Dissolved Chromium	0.7	5.0	0.3	ug/l	1	AXC0155	03/17/14	03/17/14	"	J
Dissolved Cobalt	0.2	5.0	0.2	"	1	"	"	"	"	J
Dissolved Copper	5.6	5.0	0.8	"	1	"	"	"	"	
Dissolved Lead	ND	5.0	0.9	"	1	"	"	"	"	
Dissolved Molybdenum	4.4	5.0	0.8	"	1	"	"	"	"	J
Dissolved Nickel	2.2	5.0	0.6	"	1	"	"	"	"	J
Dissolved Selenium	1.8	20.0	1.3	"	1	"	"	"	"	J
Dissolved Silver	0.4	5.0	0.4	"	1	"	"	"	"	J
Dissolved Thallium	ND	20.0	2.2	"	1	"	"	"	"	
Dissolved Vanadium	1.9	5.0	0.2	"	1	"	"	"	"	J
Dissolved Zinc	51.8	10.0	0.3	"	1	"	"	"	"	
Dissolved Magnesium	1830	50.0	15.6	"	1	"	"	"	"	
Dissolved Mercury	ND	0.200	0.0460	"	1	AXC0157	03/14/14	03/18/14	EPA 245.1	
Dissolved Potassium	1520	200	46.8	"	1	AXC0155	03/17/14	03/17/14	EPA 200.7	
Dissolved Sodium	1160	200	120	"	1	"	"	"	"	

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RWQC Central Valley
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Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

1C 1403004-03 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Sulfate as SO4	3.8	0.5	0.07	mg/L	1	AXC0012	03/07/14	03/07/14	EPA 300.0	
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Wet Chemistry

Carbonate Alkalinity	ND	5.00	2.37	mg/L	1	AXC0124	03/13/14	03/13/14	SM2320B	
pH	7.37	0.100	0.100	pH Units	1	AXC0094	03/06/14	03/06/14	SM 4500-H+ B	Field

Total Recoverable Metals

Calcium	13500	100	79.0	ug/l	1	AXC0173	03/17/14	03/18/14	EPA 200.7	
Antimony	ND	10.0	1.2	"	1	"	"	"	"	
Arsenic	ND	10.0	1.1	"	1	"	"	"	"	
Barium	39.8	5.0	1.1	"	1	"	"	"	"	
Beryllium	ND	5.0	0.2	"	1	"	"	"	"	
Cadmium	0.2	5.0	0.06	"	1	"	"	"	"	J
Chromium	3.4	5.0	0.3	"	1	"	"	"	"	J
Cobalt	0.5	5.0	0.1	"	1	"	"	"	"	J
Copper	7.8	5.0	0.3	"	1	"	"	"	"	
Lead	ND	5.0	0.9	"	1	"	"	"	"	
Molybdenum	2.1	5.0	0.8	"	1	"	"	"	"	J
Nickel	4.8	5.0	0.2	"	1	"	"	"	"	J
Selenium	ND	20.0	0.8	"	1	"	"	"	"	
Silver	0.8	5.0	0.3	"	1	"	"	"	"	J
Thallium	ND	5.0	1.7	"	1	"	"	"	"	
Vanadium	6.1	5.0	0.2	"	1	"	"	"	"	
Zinc	82.9	20.0	0.4	"	1	"	"	"	"	
Magnesium	2020	50.0	15.6	"	1	"	"	"	"	
Mercury	ND	0.200	0.0460	"	1	AXC0158	03/14/14	03/18/14	EPA 245.1	
Potassium	1440	200	46.8	"	1	AXC0173	03/17/14	03/18/14	EPA 200.7	
Sodium	1120	200	120	"	1	"	"	"	"	

Dissolved Metals

Dissolved Calcium	13300	100	79.0	ug/l	1	AXC0155	03/17/14	03/17/14	EPA 200.7	
Dissolved Antimony	ND	10.0	1.3	"	1	"	"	"	"	
Dissolved Arsenic	ND	10.0	1.0	"	1	"	"	"	"	
Dissolved Barium	43.2	5.0	1.2	"	1	"	"	"	"	
Dissolved Beryllium	ND	5.0	0.09	"	1	"	"	"	"	
Dissolved Cadmium	0.2	5.0	0.1	"	1	"	"	"	"	J

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Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: 10-02-150 Project Number: [none] Project Manager: Kathy Amaru	Date Reported: 03/24/14 17:07
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1C
1403004-03 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Dissolved Metals										
Dissolved Chromium	0.5	5.0	0.3	ug/l	1	AXC0155	03/17/14	03/17/14	"	J
Dissolved Cobalt	ND	5.0	0.2	"	1	"	"	"	"	
Dissolved Copper	5.3	5.0	0.8	"	1	"	"	"	"	
Dissolved Lead	ND	5.0	0.9	"	1	"	"	"	"	
Dissolved Molybdenum	ND	5.0	0.8	"	1	"	"	"	"	
Dissolved Nickel	2.0	5.0	0.6	"	1	"	"	"	"	J
Dissolved Selenium	ND	20.0	1.3	"	1	"	"	"	"	
Dissolved Silver	0.7	5.0	0.4	"	1	"	"	"	"	J
Dissolved Thallium	ND	20.0	2.2	"	1	"	"	"	"	
Dissolved Vanadium	1.9	5.0	0.2	"	1	"	"	"	"	J
Dissolved Zinc	56.7	10.0	0.3	"	1	"	"	"	"	
Dissolved Magnesium	1890	50.0	15.6	"	1	"	"	"	"	
Dissolved Mercury	ND	0.200	0.0460	"	1	AXC0157	03/14/14	03/18/14	EPA 245.1	
Dissolved Potassium	1370	200	46.8	"	1	AXC0155	03/17/14	03/17/14	EPA 200.7	
Dissolved Sodium	1090	200	120	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

2A 1403004-04 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Recoverable Metals										
Calcium	18400	100	79.0	ug/l	1	AXC0044	03/06/14	03/07/14	EPA 200.7	
Antimony	2.2	10.0	1.2	"	1	"	"	"	"	J
Arsenic	1.9	10.0	1.1	"	1	"	"	"	"	J
Barium	8.6	5.0	1.1	"	1	"	"	"	"	
Beryllium	ND	5.0	0.2	"	1	"	"	"	"	
Cadmium	0.2	5.0	0.06	"	1	"	"	"	"	J
Chromium	0.8	5.0	0.3	"	1	"	"	"	"	J
Cobalt	0.1	5.0	0.1	"	1	"	"	"	"	J
Copper	3.2	5.0	0.3	"	1	"	"	"	"	J
Lead	ND	5.0	0.9	"	1	"	"	"	"	
Molybdenum	15.8	5.0	0.8	"	1	"	"	"	"	
Nickel	0.7	5.0	0.2	"	1	"	"	"	"	J
Selenium	1.3	20.0	0.8	"	1	"	"	"	"	J
Silver	ND	5.0	0.3	"	1	"	"	"	"	
Thallium	ND	5.0	1.7	"	1	"	"	"	"	
Vanadium	3.5	5.0	0.2	"	1	"	"	"	"	J
Zinc	1.4	20.0	0.4	"	1	"	"	"	"	J
Magnesium	2760	50.0	15.6	"	1	"	"	"	"	
Mercury	ND	0.200	0.0460	"	1	AXC0158	03/14/14	03/18/14	EPA 245.1	
Potassium	949	200	46.8	"	1	AXC0044	03/06/14	03/07/14	EPA 200.7	
Sodium	1610	200	120	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

2B 1403004-05 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Sulfate as SO4	7.5	0.5	0.07	mg/L	1	AXC0012	03/04/14	03/04/14	EPA 300.0	
Wet Chemistry										
Carbonate Alkalinity	ND	5.00	2.37	mg/L	1	AXC0124	03/13/14	03/13/14	SM2320B	
pH	7.66	0.100	0.100	pH Units	1	AXC0092	03/04/14	03/04/14	SM 4500-H+ B	Field
Total Recoverable Metals										
Calcium	18100	100	79.0	ug/l	1	AXC0173	03/17/14	03/18/14	EPA 200.7	
Antimony	ND	10.0	1.2	"	1	"	"	"	"	
Arsenic	ND	10.0	1.1	"	1	"	"	"	"	
Barium	11.1	5.0	1.1	"	1	"	"	"	"	
Beryllium	ND	5.0	0.2	"	1	"	"	"	"	
Cadmium	0.2	5.0	0.06	"	1	"	"	"	"	J
Chromium	0.9	5.0	0.3	"	1	"	"	"	"	J
Cobalt	0.1	5.0	0.1	"	1	"	"	"	"	J
Copper	4.8	5.0	0.3	"	1	"	"	"	"	J
Lead	ND	5.0	0.9	"	1	"	"	"	"	
Molybdenum	12.0	5.0	0.8	"	1	"	"	"	"	
Nickel	1.0	5.0	0.2	"	1	"	"	"	"	J
Selenium	2.3	20.0	0.8	"	1	"	"	"	"	J
Silver	0.8	5.0	0.3	"	1	"	"	"	"	J
Thallium	ND	5.0	1.7	"	1	"	"	"	"	
Vanadium	3.6	5.0	0.2	"	1	"	"	"	"	J
Zinc	1.5	20.0	0.4	"	1	"	"	"	"	J
Magnesium	2970	50.0	15.6	"	1	"	"	"	"	
Mercury	ND	0.200	0.0460	"	1	AXC0158	03/14/14	03/18/14	EPA 245.1	
Potassium	952	200	46.8	"	1	AXC0173	03/17/14	03/18/14	EPA 200.7	
Sodium	1710	200	120	"	1	"	"	"	"	
Dissolved Metals										
Dissolved Calcium	17800	100	79.0	ug/l	1	AXC0155	03/17/14	03/17/14	EPA 200.7	
Dissolved Antimony	ND	10.0	1.3	"	1	"	"	"	"	
Dissolved Arsenic	1.8	10.0	1.0	"	1	"	"	"	"	J
Dissolved Barium	22.6	5.0	1.2	"	1	"	"	"	"	
Dissolved Beryllium	ND	5.0	0.09	"	1	"	"	"	"	
Dissolved Cadmium	0.2	5.0	0.1	"	1	"	"	"	"	J

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

2B 1403004-05 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Dissolved Metals										
Dissolved Chromium	0.5	5.0	0.3	ug/l	1	AXC0155	03/17/14	03/17/14	"	J
Dissolved Cobalt	0.2	5.0	0.2	"	1	"	"	"	"	J
Dissolved Copper	4.4	5.0	0.8	"	1	"	"	"	"	J
Dissolved Lead	ND	5.0	0.9	"	1	"	"	"	"	
Dissolved Molybdenum	10.1	5.0	0.8	"	1	"	"	"	"	
Dissolved Nickel	ND	5.0	0.6	"	1	"	"	"	"	
Dissolved Selenium	ND	20.0	1.3	"	1	"	"	"	"	
Dissolved Silver	0.7	5.0	0.4	"	1	"	"	"	"	J
Dissolved Thallium	ND	20.0	2.2	"	1	"	"	"	"	
Dissolved Vanadium	2.7	5.0	0.2	"	1	"	"	"	"	J
Dissolved Zinc	5.7	10.0	0.3	"	1	"	"	"	"	J
Dissolved Magnesium	2890	50.0	15.6	"	1	"	"	"	"	
Dissolved Mercury	ND	0.200	0.0460	"	1	AXC0157	03/14/14	03/18/14	EPA 245.1	
Dissolved Potassium	932	200	46.8	"	1	AXC0155	03/17/14	03/17/14	EPA 200.7	
Dissolved Sodium	1580	200	120	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: 10-02-150 Project Number: [none] Project Manager: Kathy Amaru	Date Reported: 03/24/14 17:07
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2C
1403004-06 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Sulfate as SO4	7.5	0.5	0.07	mg/L	1	AXC0012	03/04/14	03/04/14	EPA 300.0	
Wet Chemistry										
pH	7.71	0.100	0.100	pH Units	1	AXC0092	03/04/14	03/04/14	SM 4500-H+ B	Field
Total Recoverable Metals										
Calcium	17800	100	79.0	ug/l	1	AXC0173	03/17/14	03/18/14	EPA 200.7	
Antimony	ND	10.0	1.2	"	1	"	"	"	"	
Arsenic	1.3	10.0	1.1	"	1	"	"	"	"	J
Barium	11.2	5.0	1.1	"	1	"	"	"	"	
Beryllium	ND	5.0	0.2	"	1	"	"	"	"	
Cadmium	0.1	5.0	0.06	"	1	"	"	"	"	J
Chromium	0.8	5.0	0.3	"	1	"	"	"	"	J
Cobalt	0.2	5.0	0.1	"	1	"	"	"	"	J
Copper	4.5	5.0	0.3	"	1	"	"	"	"	J
Lead	ND	5.0	0.9	"	1	"	"	"	"	
Molybdenum	11.4	5.0	0.8	"	1	"	"	"	"	
Nickel	0.8	5.0	0.2	"	1	"	"	"	"	J
Selenium	ND	20.0	0.8	"	1	"	"	"	"	
Silver	0.9	5.0	0.3	"	1	"	"	"	"	J
Thallium	ND	5.0	1.7	"	1	"	"	"	"	
Vanadium	3.4	5.0	0.2	"	1	"	"	"	"	J
Zinc	2.6	20.0	0.4	"	1	"	"	"	"	J
Magnesium	2880	50.0	15.6	"	1	"	"	"	"	
Mercury	ND	0.200	0.0460	"	1	AXC0158	03/14/14	03/18/14	EPA 245.1	
Potassium	945	200	46.8	"	1	AXC0173	03/17/14	03/18/14	EPA 200.7	
Sodium	1700	200	120	"	1	"	"	"	"	

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RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

3A 1403004-07 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Recoverable Metals										
Calcium	24700	100	79.0	ug/l	1	AXC0044	03/06/14	03/07/14	EPA 200.7	
Antimony	1.2	10.0	1.2	"	1	"	"	"	"	J
Arsenic	3.5	10.0	1.1	"	1	"	"	"	"	J
Barium	47.3	5.0	1.1	"	1	"	"	"	"	
Beryllium	ND	5.0	0.2	"	1	"	"	"	"	
Cadmium	0.5	5.0	0.06	"	1	"	"	"	"	J
Chromium	10.2	5.0	0.3	"	1	"	"	"	"	
Cobalt	4.5	5.0	0.1	"	1	"	"	"	"	J
Copper	25.2	5.0	0.3	"	1	"	"	"	"	
Lead	ND	5.0	0.9	"	1	"	"	"	"	
Molybdenum	12.6	5.0	0.8	"	1	"	"	"	"	
Nickel	7.8	5.0	0.2	"	1	"	"	"	"	
Selenium	ND	20.0	0.8	"	1	"	"	"	"	
Silver	ND	5.0	0.3	"	1	"	"	"	"	
Thallium	ND	5.0	1.7	"	1	"	"	"	"	
Vanadium	18.0	5.0	0.2	"	1	"	"	"	"	
Zinc	22.2	20.0	0.4	"	1	"	"	"	"	
Magnesium	4350	50.0	15.6	"	1	"	"	"	"	
Mercury	ND	0.200	0.0460	"	1	AXC0158	03/14/14	03/18/14	EPA 245.1	
Potassium	1740	200	46.8	"	1	AXC0044	03/06/14	03/07/14	EPA 200.7	
Sodium	1860	200	120	"	1	"	"	"	"	

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

3B 1403004-08 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Sulfate as SO4	7.2	0.5	0.07	mg/L	1	AXC0012	03/04/14	03/04/14	EPA 300.0	
Wet Chemistry										
Carbonate Alkalinity	ND	5.00	2.37	mg/L	1	AXC0124	03/13/14	03/13/14	SM2320B	
pH	7.58	0.100	0.100	pH Units	1	AXC0092	03/04/14	03/04/14	SM 4500-H+ B	Field
Total Recoverable Metals										
Calcium	19600	100	79.0	ug/l	1	AXC0173	03/17/14	03/18/14	EPA 200.7	
Antimony	ND	10.0	1.2	"	1	"	"	"	"	
Arsenic	1.7	10.0	1.1	"	1	"	"	"	"	J
Barium	24.9	5.0	1.1	"	1	"	"	"	"	
Beryllium	ND	5.0	0.2	"	1	"	"	"	"	
Cadmium	0.2	5.0	0.06	"	1	"	"	"	"	J
Chromium	5.0	5.0	0.3	"	1	"	"	"	"	
Cobalt	1.8	5.0	0.1	"	1	"	"	"	"	J
Copper	14.2	5.0	0.3	"	1	"	"	"	"	
Lead	ND	5.0	0.9	"	1	"	"	"	"	
Molybdenum	11.9	5.0	0.8	"	1	"	"	"	"	
Nickel	3.5	5.0	0.2	"	1	"	"	"	"	J
Selenium	ND	20.0	0.8	"	1	"	"	"	"	
Silver	0.6	5.0	0.3	"	1	"	"	"	"	J
Thallium	ND	5.0	1.7	"	1	"	"	"	"	
Vanadium	9.8	5.0	0.2	"	1	"	"	"	"	
Zinc	10.4	20.0	0.4	"	1	"	"	"	"	J
Magnesium	3600	50.0	15.6	"	1	"	"	"	"	
Mercury	ND	0.200	0.0460	"	1	AXC0158	03/14/14	03/18/14	EPA 245.1	
Potassium	1400	200	46.8	"	1	AXC0173	03/17/14	03/18/14	EPA 200.7	
Sodium	1820	200	120	"	1	"	"	"	"	
Dissolved Metals										
Dissolved Calcium	17400	100	79.0	ug/l	1	AXC0155	03/17/14	03/17/14	EPA 200.7	
Dissolved Antimony	ND	10.0	1.3	"	1	"	"	"	"	
Dissolved Arsenic	1.2	10.0	1.0	"	1	"	"	"	"	J
Dissolved Barium	15.4	5.0	1.2	"	1	"	"	"	"	
Dissolved Beryllium	ND	5.0	0.09	"	1	"	"	"	"	
Dissolved Cadmium	0.1	5.0	0.1	"	1	"	"	"	"	J

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RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: 10-02-150 Project Number: [none] Project Manager: Kathy Amaru	Date Reported: 03/24/14 17:07
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3B
1403004-08 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Dissolved Metals										
Dissolved Chromium	ND	5.0	0.3	ug/l	1	AXC0155	03/17/14	03/17/14	"	
Dissolved Cobalt	ND	5.0	0.2	"	1	"	"	"	"	
Dissolved Copper	5.0	5.0	0.8	"	1	"	"	"	"	
Dissolved Lead	ND	5.0	0.9	"	1	"	"	"	"	
Dissolved Molybdenum	8.8	5.0	0.8	"	1	"	"	"	"	
Dissolved Nickel	0.7	5.0	0.6	"	1	"	"	"	"	J
Dissolved Selenium	ND	20.0	1.3	"	1	"	"	"	"	
Dissolved Silver	0.4	5.0	0.4	"	1	"	"	"	"	J
Dissolved Thallium	ND	20.0	2.2	"	1	"	"	"	"	
Dissolved Vanadium	3.2	5.0	0.2	"	1	"	"	"	"	J
Dissolved Zinc	4.2	10.0	0.3	"	1	"	"	"	"	J
Dissolved Magnesium	2620	50.0	15.6	"	1	"	"	"	"	
Dissolved Mercury	ND	0.200	0.0460	"	1	AXC0157	03/14/14	03/18/14	EPA 245.1	
Dissolved Potassium	848	200	46.8	"	1	AXC0155	03/17/14	03/17/14	EPA 200.7	
Dissolved Sodium	1470	200	120	"	1	"	"	"	"	

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3C
1403004-09 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Sulfate as SO4	7.1	0.5	0.07	mg/L	1	AXC0012	03/04/14	03/04/14	EPA 300.0	
Wet Chemistry										
pH	7.53	0.100	0.100	pH Units	1	AXC0092	03/04/14	03/04/14	SM 4500-H+ B	Field
Total Recoverable Metals										
Calcium	20500	100	79.0	ug/l	1	AXC0173	03/17/14	03/18/14	EPA 200.7	
Antimony	ND	10.0	1.2	"	1	"	"	"	"	
Arsenic	1.7	10.0	1.1	"	1	"	"	"	"	J
Barium	34.8	5.0	1.1	"	1	"	"	"	"	
Beryllium	ND	5.0	0.2	"	1	"	"	"	"	
Cadmium	0.2	5.0	0.06	"	1	"	"	"	"	J
Chromium	7.9	5.0	0.3	"	1	"	"	"	"	
Cobalt	2.9	5.0	0.1	"	1	"	"	"	"	J
Copper	20.1	5.0	0.3	"	1	"	"	"	"	
Lead	ND	5.0	0.9	"	1	"	"	"	"	
Molybdenum	11.3	5.0	0.8	"	1	"	"	"	"	
Nickel	5.6	5.0	0.2	"	1	"	"	"	"	
Selenium	ND	20.0	0.8	"	1	"	"	"	"	
Silver	0.7	5.0	0.3	"	1	"	"	"	"	J
Thallium	ND	5.0	1.7	"	1	"	"	"	"	
Vanadium	14.0	5.0	0.2	"	1	"	"	"	"	
Zinc	17.4	20.0	0.4	"	1	"	"	"	"	J
Magnesium	4140	50.0	15.6	"	1	"	"	"	"	
Mercury	ND	0.200	0.0460	"	1	AXC0158	03/14/14	03/18/14	EPA 245.1	
Potassium	1680	200	46.8	"	1	AXC0173	03/17/14	03/18/14	EPA 200.7	
Sodium	1920	200	120	"	1	"	"	"	"	

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4A
1403004-10 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Total Recoverable Metals

Calcium	118000	100	79.0	ug/l	1	AXC0173	03/17/14	03/18/14	EPA 200.7	
Antimony	ND	10.0	1.2	"	1	"	"	"	"	
Arsenic	1.2	10.0	1.1	"	1	"	"	"	"	J
Barium	75.7	5.0	1.1	"	1	"	"	"	"	
Beryllium	ND	5.0	0.2	"	1	"	"	"	"	
Cadmium	0.3	5.0	0.06	"	1	"	"	"	"	J
Chromium	2.0	5.0	0.3	"	1	"	"	"	"	J
Cobalt	1.6	5.0	0.1	"	1	"	"	"	"	J
Copper	4.3	5.0	0.3	"	1	"	"	"	"	J
Lead	ND	5.0	0.9	"	1	"	"	"	"	
Molybdenum	12.3	5.0	0.8	"	1	"	"	"	"	
Nickel	3.2	5.0	0.2	"	1	"	"	"	"	J
Selenium	ND	20.0	0.8	"	1	"	"	"	"	
Silver	0.9	5.0	0.3	"	1	"	"	"	"	J
Thallium	ND	5.0	1.7	"	1	"	"	"	"	
Vanadium	3.8	5.0	0.2	"	1	"	"	"	"	J
Zinc	18.0	20.0	0.4	"	1	"	"	"	"	J
Magnesium	13900	50.0	15.6	"	1	"	"	"	"	
Mercury	ND	0.200	0.0460	"	1	AXC0158	03/14/14	03/18/14	EPA 245.1	
Potassium	3160	200	46.8	"	1	AXC0173	03/17/14	03/18/14	EPA 200.7	
Sodium	12900	200	120	"	1	"	"	"	"	

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RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: 10-02-150 Project Number: [none] Project Manager: Kathy Amaru	Date Reported: 03/24/14 17:07
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4B
1403004-11 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Sulfate as SO4	146	5.0	0.7	mg/L	10	AXC0012	03/04/14	03/04/14	EPA 300.0	
Wet Chemistry										
pH	7.39	0.100	0.100	pH Units	1	AXC0094	03/06/14	03/06/14	SM 4500-H+ B	Field
Total Recoverable Metals										
Calcium	128000	100	79.0	ug/l	1	AXC0173	03/17/14	03/18/14	EPA 200.7	
Antimony	2.4	10.0	1.2	"	1	"	"	"	"	J
Arsenic	3.2	10.0	1.1	"	1	"	"	"	"	J
Barium	98.6	5.0	1.1	"	1	"	"	"	"	
Beryllium	ND	5.0	0.2	"	1	"	"	"	"	
Cadmium	0.4	5.0	0.06	"	1	"	"	"	"	J
Chromium	6.2	5.0	0.3	"	1	"	"	"	"	
Cobalt	3.7	5.0	0.1	"	1	"	"	"	"	J
Copper	9.0	5.0	0.3	"	1	"	"	"	"	
Lead	ND	5.0	0.9	"	1	"	"	"	"	
Molybdenum	15.2	5.0	0.8	"	1	"	"	"	"	
Nickel	6.5	5.0	0.2	"	1	"	"	"	"	
Selenium	ND	20.0	0.8	"	1	"	"	"	"	
Silver	0.6	5.0	0.3	"	1	"	"	"	"	J
Thallium	ND	5.0	1.7	"	1	"	"	"	"	
Vanadium	10.6	5.0	0.2	"	1	"	"	"	"	
Zinc	57.2	20.0	0.4	"	1	"	"	"	"	
Magnesium	15600	50.0	15.6	"	1	"	"	"	"	
Mercury	ND	0.200	0.0460	"	1	AXC0158	03/14/14	03/18/14	EPA 245.1	
Potassium	3430	200	46.8	"	1	AXC0173	03/17/14	03/18/14	EPA 200.7	
Sodium	13500	200	120	"	1	"	"	"	"	

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RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: 10-02-150 Project Number: [none] Project Manager: Kathy Amaru	Date Reported: 03/24/14 17:07
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5A 1403004-12 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Recoverable Metals										
Antimony	ND	10.0	1.2	ug/l	1	AXC0044	03/06/14	03/07/14	EPA 200.7	
Arsenic	2.3	10.0	1.1	"	1	"	"	"	"	J
Barium	371	5.0	1.1	"	1	"	"	"	"	
Beryllium	ND	5.0	0.2	"	1	"	"	"	"	
Cadmium	0.8	5.0	0.06	"	1	"	"	"	"	J
Chromium	4.1	5.0	0.3	"	1	"	"	"	"	J
Cobalt	1.9	5.0	0.1	"	1	"	"	"	"	J
Copper	17.7	5.0	0.3	"	1	"	"	"	"	
Lead	ND	5.0	0.9	"	1	"	"	"	"	
Molybdenum	12.4	5.0	0.8	"	1	"	"	"	"	
Nickel	7.4	5.0	0.2	"	1	"	"	"	"	
Selenium	ND	20.0	0.8	"	1	"	"	"	"	
Silver	0.4	5.0	0.3	"	1	"	"	"	"	J
Thallium	ND	5.0	1.7	"	1	"	"	"	"	
Vanadium	7.1	5.0	0.2	"	1	"	"	"	"	
Zinc	58.8	20.0	0.4	"	1	"	"	"	"	
Magnesium	14600	50.0	15.6	"	1	"	"	"	"	
Mercury	ND	0.200	0.0460	"	1	AXC0158	03/14/14	03/18/14	EPA 245.1	
Potassium	3250	200	46.8	"	1	AXC0044	03/06/14	03/07/14	EPA 200.7	
Sodium	13200	200	120	"	1	"	"	"	"	

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RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: 10-02-150 Project Number: [none] Project Manager: Kathy Amaru	Date Reported: 03/24/14 17:07
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**5A
1403004-12RE1 (Water)**

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Total Recoverable Metals

Calcium	994000	500	395	ug/l	5	AXC0044	03/06/14	03/07/14	EPA 200.7	
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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

5B 1403004-13 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Sulfate as SO4	104	5.0	0.7	mg/L	10	AXC0012	03/04/14	03/04/14	EPA 300.0	
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Wet Chemistry

pH	9.08	0.100	0.100	pH Units	1	AXC0092	03/04/14	03/04/14	SM 4500-H+ B	Field
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Total Recoverable Metals

Antimony	1.3	10.0	1.2	ug/l	1	AXC0173	03/17/14	03/18/14	EPA 200.7	J
Arsenic	5.6	10.0	1.1	"	1	"	"	"	"	J
Barium	578	5.0	1.1	"	1	"	"	"	"	
Beryllium	ND	5.0	0.2	"	1	"	"	"	"	
Cadmium	1.6	5.0	0.06	"	1	"	"	"	"	J
Chromium	20.6	5.0	0.3	"	1	"	"	"	"	
Cobalt	5.3	5.0	0.1	"	1	"	"	"	"	
Copper	41.8	5.0	0.3	"	1	"	"	"	"	
Lead	10.3	5.0	0.9	"	1	"	"	"	"	
Molybdenum	11.3	5.0	0.8	"	1	"	"	"	"	
Nickel	19.5	5.0	0.2	"	1	"	"	"	"	
Selenium	ND	20.0	0.8	"	1	"	"	"	"	
Silver	1.4	5.0	0.3	"	1	"	"	"	"	J
Thallium	ND	5.0	1.7	"	1	"	"	"	"	
Vanadium	26.1	5.0	0.2	"	1	"	"	"	"	
Zinc	145	20.0	0.4	"	1	"	"	"	"	
Magnesium	22000	50.0	15.6	"	1	"	"	"	"	
Mercury	ND	0.200	0.0460	"	1	AXC0158	03/14/14	03/18/14	EPA 245.1	
Potassium	4160	200	46.8	"	1	AXC0173	03/17/14	03/18/14	EPA 200.7	
Sodium	14100	200	120	"	1	"	"	"	"	

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Laboratory Representative

Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

5B

1403004-13RE1 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Total Recoverable Metals

Calcium	1580000	500	395	ug/l	5	AXC0173	03/17/14	03/19/14	EPA 200.7	
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Laboratory Representative

Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

5C 1403004-14 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Sulfate as SO4	132	5.0	0.7	mg/L	10	AXC0012	03/04/14	03/04/14	EPA 300.0	
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Wet Chemistry

Carbonate Alkalinity	ND	5.00	2.37	mg/L	1	AXC0124	03/13/14	03/13/14	SM2320B	
pH	7.68	0.100	0.100	pH Units	1	AXC0092	03/04/14	03/04/14	SM 4500-H+ B	Field

Total Recoverable Metals

Calcium	127000	100	79.0	ug/l	1	AXC0173	03/17/14	03/18/14	EPA 200.7	
Antimony	ND	10.0	1.2	"	1	"	"	"	"	
Arsenic	7.6	10.0	1.1	"	1	"	"	"	"	J
Barium	139	5.0	1.1	"	1	"	"	"	"	
Beryllium	ND	5.0	0.2	"	1	"	"	"	"	
Cadmium	0.5	5.0	0.06	"	1	"	"	"	"	J
Chromium	7.1	5.0	0.3	"	1	"	"	"	"	
Cobalt	8.2	5.0	0.1	"	1	"	"	"	"	
Copper	10.2	5.0	0.3	"	1	"	"	"	"	
Lead	ND	5.0	0.9	"	1	"	"	"	"	
Molybdenum	14.4	5.0	0.8	"	1	"	"	"	"	
Nickel	7.8	5.0	0.2	"	1	"	"	"	"	
Selenium	ND	20.0	0.8	"	1	"	"	"	"	
Silver	0.9	5.0	0.3	"	1	"	"	"	"	J
Thallium	ND	5.0	1.7	"	1	"	"	"	"	
Vanadium	13.5	5.0	0.2	"	1	"	"	"	"	
Zinc	62.6	20.0	0.4	"	1	"	"	"	"	
Magnesium	14700	50.0	15.6	"	1	"	"	"	"	
Mercury	ND	0.200	0.0460	"	1	AXC0158	03/14/14	03/18/14	EPA 245.1	
Potassium	3730	200	46.8	"	1	AXC0173	03/17/14	03/18/14	EPA 200.7	
Sodium	12900	200	120	"	1	"	"	"	"	

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Laboratory Representative

Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AXC0012 - EPA 300.0

Blank (AXC0012-BLK1)

Prepared & Analyzed: 03/04/14

Sulfate as SO4	ND	0.5	0.07	mg/L							
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LCS (AXC0012-BS1)

Prepared & Analyzed: 03/04/14

Sulfate as SO4	10.2	0.5	0.07	mg/L	10.0	102					
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LCS Dup (AXC0012-BSD1)

Prepared & Analyzed: 03/04/14

Sulfate as SO4	10.3	0.5	0.07	mg/L	10.0	103	80-120	0.792	20		
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Duplicate (AXC0012-DUP1)

Source: 1403002-02RE1

Prepared & Analyzed: 03/04/14

Sulfate as SO4	75.8	5.0	0.7	mg/L	76.1		0.395	20			
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Duplicate (AXC0012-DUP2)

Source: 1403004-02

Prepared & Analyzed: 03/04/14

Sulfate as SO4	3.7	0.5	0.07	mg/L	3.6		1.39	20			
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Matrix Spike (AXC0012-MS1)

Source: 1403002-02RE1

Prepared & Analyzed: 03/04/14

Sulfate as SO4	182	5.0	0.7	mg/L	100	76.1	106	75-125			
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Matrix Spike (AXC0012-MS2)

Source: 1403004-02

Prepared & Analyzed: 03/04/14

Sulfate as SO4	13.6	0.5	0.07	mg/L	10.0	3.6	99.6	75-125			
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Matrix Spike Dup (AXC0012-MSD1)

Source: 1403002-02RE1

Prepared & Analyzed: 03/04/14

Sulfate as SO4	183	5.0	0.7	mg/L	100	76.1	107	0.503	20		
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Matrix Spike Dup (AXC0012-MSD2)

Source: 1403004-02

Prepared & Analyzed: 03/04/14

Sulfate as SO4	13.6	0.5	0.07	mg/L	10.0	3.6	99.2	0.317	20		
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Laboratory Representative


Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: 10-02-150 Project Number: [none] Project Manager: Kathy Amaru	Date Reported: 03/24/14 17:07
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Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AXC0092 - SM 4500-H+ B											
Duplicate (AXC0092-DUP1)		Source: 1403004-02				Prepared & Analyzed: 03/04/14					
pH	7.49	0.100	0.100	pH Units		7.46			0.401	20	
Batch AXC0094 - SM 4500-H+ B											
Duplicate (AXC0094-DUP1)		Source: 1403004-03				Prepared & Analyzed: 03/06/14					
pH	7.41	0.100	0.100	pH Units		7.37			0.541	20	Field
Batch AXC0124 - SM2320B											
Blank (AXC0124-BLK1)						Prepared & Analyzed: 03/13/14					
Carbonate Alkalinity	ND	5.00	2.37	mg/L							
Duplicate (AXC0124-DUP1)		Source: 1403041-01				Prepared & Analyzed: 03/13/14					
Carbonate Alkalinity	40.0	5.00	2.37	mg/L		48.0			18.2	20	

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Laboratory Representative

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AXC0044 - EPA 200.7

Blank (AXC0044-BLK1)

Prepared: 03/06/14 Analyzed: 03/07/14

Antimony	ND	10.0	1.2	ug/l							
Arsenic	ND	10.0	1.1	"							
Barium	ND	5.0	1.1	"							
Beryllium	ND	5.0	0.2	"							
Cadmium	ND	5.0	0.06	"							
Chromium	0.400	5.0	0.3	"							J
Calcium	ND	100	79.0	"							
Cobalt	0.200	5.0	0.1	"							J
Copper	ND	5.0	0.3	"							
Lead	ND	5.0	0.9	"							
Molybdenum	ND	5.0	0.8	"							
Nickel	ND	5.0	0.2	"							
Selenium	ND	20.0	0.8	"							
Magnesium	ND	50.0	15.6	"							
Silver	ND	5.0	0.3	"							
Thallium	ND	5.0	1.7	"							
Vanadium	ND	5.0	0.2	"							
Zinc	0.600	20.0	0.4	"							J
Potassium	ND	200	46.8	"							
Sodium	ND	200	120	"							

LCS (AXC0044-BS1)

Prepared: 03/06/14 Analyzed: 03/07/14

Antimony	1010	10.0	1.2	ug/l	1000		101	85-115			
Arsenic	999	10.0	1.1	"	1000		99.9	85-115			
Barium	979	5.0	1.1	"	1000		97.9	85-115			
Beryllium	987	5.0	0.2	"	1000		98.7	85-115			
Cadmium	997	5.0	0.06	"	1000		99.7	85-115			
Calcium	1070	100	79.0	"	1000		107	85-115			
Chromium	1010	5.0	0.3	"	1000		101	85-115			
Cobalt	1000	5.0	0.1	"	1000		100	85-115			
Copper	995	5.0	0.3	"	1000		99.5	85-115			
Lead	987	5.0	0.9	"	1000		98.7	85-115			
Molybdenum	1010	5.0	0.8	"	1000		101	85-115			
Nickel	998	5.0	0.2	"	1000		99.8	85-115			
Selenium	956	20.0	0.8	"	1000		95.6	85-115			
Magnesium	981	50.0	15.6	"	1000		98.1	85-115			
Silver	954	5.0	0.3	"	1000		95.4	85-115			
Thallium	988	5.0	1.7	"	1000		98.8	85-115			
Vanadium	966	5.0	0.2	"	1000		96.6	85-115			

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Laboratory Representative

Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AXC0044 - EPA 200.7

LCS (AXC0044-BS1)

Prepared: 03/06/14 Analyzed: 03/07/14

Zinc	968	20.0	0.4	ug/l	1000		96.8	85-115			
Potassium	9730	200	46.8	"	10000		97.3	85-115			
Sodium	987	200	120	"	1000		98.7	85-115			

LCS Dup (AXC0044-BS1)

Prepared: 03/06/14 Analyzed: 03/07/14

Antimony	1020	10.0	1.2	ug/l	1000		102	85-115	0.890	20	
Arsenic	1010	10.0	1.1	"	1000		101	85-115	0.688	20	
Barium	985	5.0	1.1	"	1000		98.5	85-115	0.641	20	
Beryllium	999	5.0	0.2	"	1000		99.9	85-115	1.15	20	
Cadmium	1010	5.0	0.06	"	1000		101	85-115	0.879	20	
Calcium	1040	100	79.0	"	1000		104	85-115	3.12	20	
Chromium	1020	5.0	0.3	"	1000		102	85-115	0.985	20	
Cobalt	1010	5.0	0.1	"	1000		101	85-115	0.892	20	
Copper	1010	5.0	0.3	"	1000		101	85-115	1.20	20	
Lead	996	5.0	0.9	"	1000		99.6	85-115	0.928	20	
Molybdenum	1020	5.0	0.8	"	1000		102	85-115	1.18	20	
Nickel	1010	5.0	0.2	"	1000		101	85-115	1.03	20	
Magnesium	964	50.0	15.6	"	1000		96.4	85-115	1.77	20	
Selenium	966	20.0	0.8	"	1000		96.6	85-115	1.06	20	
Silver	956	5.0	0.3	"	1000		95.6	85-115	0.199	20	
Thallium	996	5.0	1.7	"	1000		99.6	85-115	0.847	20	
Vanadium	972	5.0	0.2	"	1000		97.2	85-115	0.619	20	
Zinc	977	20.0	0.4	"	1000		97.7	85-115	0.946	20	
Potassium	9740	200	46.8	"	10000		97.4	85-115	0.0205	20	
Sodium	998	200	120	"	1000		99.8	85-115	1.17	20	

Matrix Spike (AXC0044-MS1)

Source: 1403004-01

Prepared: 03/06/14 Analyzed: 03/07/14

Antimony	986	10.0	1.2	ug/l	1000	1.50	98.4	75-125			
Arsenic	980	10.0	1.1	"	1000	2.60	97.8	75-125			
Barium	992	5.0	1.1	"	1000	42.1	95.0	75-125			
Beryllium	971	5.0	0.2	"	1000	ND	97.1	75-125			
Cadmium	975	5.0	0.06	"	1000	0.400	97.5	75-125			
Chromium	992	5.0	0.3	"	1000	3.60	98.8	75-125			
Calcium	15200	100	79.0	"	1000	14300	83.0	75-125			
Cobalt	981	5.0	0.1	"	1000	0.800	98.0	75-125			
Copper	976	5.0	0.3	"	1000	10.0	96.6	75-125			
Lead	955	5.0	0.9	"	1000	ND	95.5	75-125			
Molybdenum	992	5.0	0.8	"	1000	5.00	98.7	75-125			
Nickel	978	5.0	0.2	"	1000	6.60	97.2	75-125			
Magnesium	3120	50.0	15.6	"	1000	2000	112	75-125			

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Laboratory Representative

Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AXC0044 - EPA 200.7

Matrix Spike (AXC0044-MS1)

Source: 1403004-01

Prepared: 03/06/14 Analyzed: 03/07/14

Selenium	940	20.0	0.8	ug/l	1000	0.800	94.0	75-125			
Silver	923	5.0	0.3	"	1000	0.300	92.3	75-125			
Thallium	966	5.0	1.7	"	1000	ND	96.6	75-125			
Vanadium	947	5.0	0.2	"	1000	6.00	94.1	75-125			
Zinc	1100	20.0	0.4	"	1000	164	93.5	75-125			
Potassium	11000	200	46.8	"	10000	1490	95.2	75-125			
Sodium	2070	200	120	"	1000	1110	95.7	75-125			

Matrix Spike Dup (AXC0044-MSD1)

Source: 1403004-01

Prepared: 03/06/14 Analyzed: 03/07/14

Antimony	1020	10.0	1.2	ug/l	1000	1.50	102	75-125	3.43	25	
Arsenic	1020	10.0	1.1	"	1000	2.60	101	75-125	3.65	25	
Barium	1020	5.0	1.1	"	1000	42.1	97.5	75-125	2.53	25	
Beryllium	1000	5.0	0.2	"	1000	ND	100	75-125	3.22	25	
Cadmium	1010	5.0	0.06	"	1000	0.400	101	75-125	3.52	25	
Chromium	1030	5.0	0.3	"	1000	3.60	102	75-125	3.36	25	
Calcium	15500	100	79.0	"	1000	14300	115	75-125	2.09	25	
Cobalt	1020	5.0	0.1	"	1000	0.800	101	75-125	3.42	25	
Copper	1010	5.0	0.3	"	1000	10.0	100	75-125	3.50	25	
Lead	988	5.0	0.9	"	1000	ND	98.8	75-125	3.36	25	
Molybdenum	1030	5.0	0.8	"	1000	5.00	103	75-125	4.11	25	
Nickel	1010	5.0	0.2	"	1000	6.60	100	75-125	3.08	25	
Magnesium	3020	50.0	15.6	"	1000	2000	102	75-125	3.09	25	
Selenium	974	20.0	0.8	"	1000	0.800	97.3	75-125	3.47	25	
Silver	952	5.0	0.3	"	1000	0.300	95.1	75-125	3.05	25	
Thallium	1000	5.0	1.7	"	1000	ND	100	75-125	3.56	25	
Vanadium	982	5.0	0.2	"	1000	6.00	97.6	75-125	3.71	25	
Zinc	1130	20.0	0.4	"	1000	164	97.0	75-125	3.13	25	
Potassium	11300	200	46.8	"	10000	1490	98.1	75-125	2.60	25	
Sodium	2120	200	120	"	1000	1110	101	75-125	2.34	25	

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Laboratory Representative

Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AXC0082 - EPA 245.1

Blank (AXC0082-BLK1)					Prepared & Analyzed: 03/11/14						
Mercury	ND	0.0600	0.0138	ug/l							
Matrix Spike (AXC0082-MS1)					Source: 1403004-01		Prepared & Analyzed: 03/11/14				
Mercury	1.64	0.0600	0.0138	ug/l	2.00	ND	82.0	75-125			
Matrix Spike Dup (AXC0082-MSD1)					Source: 1403004-01		Prepared & Analyzed: 03/11/14				
Mercury	1.60	0.0600	0.0138	ug/l	2.00	ND	80.0	75-125	2.47	20	

Batch AXC0158 - EPA 245.1

Blank (AXC0158-BLK1)					Prepared: 03/14/14 Analyzed: 03/18/14						
Mercury	ND	0.200	0.0460	ug/l							
Blank (AXC0158-BLK2)					Prepared: 03/14/14 Analyzed: 03/18/14						
Mercury	ND	0.200	0.0460	ug/l							
LCS (AXC0158-BS1)					Prepared: 03/14/14 Analyzed: 03/18/14						
Mercury	6.48	0.200	0.0460	ug/l	6.67	97.2		85-115			
LCS (AXC0158-BS2)					Prepared: 03/14/14 Analyzed: 03/18/14						
Mercury	6.53	0.200	0.0460	ug/l	6.67	98.0		85-115			
LCS Dup (AXC0158-BSD1)					Prepared: 03/14/14 Analyzed: 03/18/14						
Mercury	6.36	0.200	0.0460	ug/l	6.67	95.4		85-115	1.87	20	
LCS Dup (AXC0158-BSD2)					Prepared: 03/14/14 Analyzed: 03/18/14						
Mercury	6.47	0.200	0.0460	ug/l	6.67	97.0		85-115	1.03	20	

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: 10-02-150 Project Number: [none] Project Manager: Kathy Amaru	Date Reported: 03/24/14 17:07
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Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AXC0173 - EPA 200.7

Blank (AXC0173-BLK1)

Prepared: 03/17/14 Analyzed: 03/18/14

Antimony	ND	10.0	1.2	ug/l							
Arsenic	ND	10.0	1.1	"							
Barium	ND	5.0	1.1	"							
Beryllium	ND	5.0	0.2	"							
Cadmium	ND	5.0	0.06	"							
Chromium	ND	5.0	0.3	"							
Calcium	ND	100	79.0	"							
Cobalt	ND	5.0	0.1	"							
Copper	1.30	5.0	0.3	"							J
Lead	ND	5.0	0.9	"							
Molybdenum	1.50	5.0	0.8	"							J
Nickel	ND	5.0	0.2	"							
Selenium	1.50	20.0	0.8	"							J
Magnesium	16.3	50.0	15.6	"							J
Silver	0.400	5.0	0.3	"							J
Thallium	ND	5.0	1.7	"							
Vanadium	ND	5.0	0.2	"							
Zinc	ND	20.0	0.4	"							
Potassium	ND	200	46.8	"							
Sodium	ND	200	120	"							

LCS (AXC0173-BS1)

Prepared: 03/17/14 Analyzed: 03/18/14

Antimony	1030	10.0	1.2	ug/l	1000		103	85-115			
Arsenic	1000	10.0	1.1	"	1000		100	85-115			
Barium	1030	5.0	1.1	"	1000		103	85-115			
Beryllium	972	5.0	0.2	"	1000		97.2	85-115			
Cadmium	958	5.0	0.06	"	1000		95.8	85-115			
Chromium	996	5.0	0.3	"	1000		99.6	85-115			
Calcium	958	100	79.0	"	1000		95.8	85-115			
Cobalt	994	5.0	0.1	"	1000		99.4	85-115			
Copper	1000	5.0	0.3	"	1000		100	85-115			
Lead	1030	5.0	0.9	"	1000		103	85-115			
Molybdenum	1000	5.0	0.8	"	1000		100	85-115			
Nickel	1010	5.0	0.2	"	1000		101	85-115			
Selenium	974	20.0	0.8	"	1000		97.4	85-115			
Magnesium	996	50.0	15.6	"	1000		99.6	85-115			
Silver	950	5.0	0.3	"	1000		95.0	85-115			
Thallium	982	5.0	1.7	"	1000		98.2	85-115			
Vanadium	978	5.0	0.2	"	1000		97.8	85-115			

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AXC0173 - EPA 200.7

LCS (AXC0173-BS1)

Prepared: 03/17/14 Analyzed: 03/18/14

Zinc	995	20.0	0.4	ug/l	1000		99.5	85-115			
Potassium	10100	200	46.8	"	10000		101	85-115			
Sodium	1020	200	120	"	1000		102	85-115			

LCS Dup (AXC0173-BS1)

Prepared: 03/17/14 Analyzed: 03/18/14

Antimony	1030	10.0	1.2	ug/l	1000		103	85-115	0.486	20	
Arsenic	999	10.0	1.1	"	1000		99.9	85-115	0.240	20	
Barium	1040	5.0	1.1	"	1000		104	85-115	0.386	20	
Beryllium	982	5.0	0.2	"	1000		98.2	85-115	1.06	20	
Cadmium	963	5.0	0.06	"	1000		96.3	85-115	0.531	20	
Calcium	975	100	79.0	"	1000		97.5	85-115	1.80	20	
Chromium	1000	5.0	0.3	"	1000		100	85-115	0.710	20	
Cobalt	1000	5.0	0.1	"	1000		100	85-115	0.642	20	
Copper	1020	5.0	0.3	"	1000		102	85-115	1.48	20	
Lead	1040	5.0	0.9	"	1000		104	85-115	0.580	20	
Molybdenum	1010	5.0	0.8	"	1000		101	85-115	0.892	20	
Nickel	1020	5.0	0.2	"	1000		102	85-115	0.592	20	
Selenium	976	20.0	0.8	"	1000		97.6	85-115	0.154	20	
Magnesium	1020	50.0	15.6	"	1000		102	85-115	2.92	20	
Silver	958	5.0	0.3	"	1000		95.8	85-115	0.923	20	
Thallium	979	5.0	1.7	"	1000		97.9	85-115	0.286	20	
Vanadium	990	5.0	0.2	"	1000		99.0	85-115	1.25	20	
Zinc	1000	20.0	0.4	"	1000		100	85-115	0.481	20	
Potassium	10200	200	46.8	"	10000		102	85-115	0.885	20	
Sodium	1020	200	120	"	1000		102	85-115	0.587	20	

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

Dissolved Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AXC0155 - EPA 200.7

Blank (AXC0155-BLK1)

Prepared & Analyzed: 03/17/14

Dissolved Antimony	ND	10.0	1.3	ug/l							
Dissolved Arsenic	ND	10.0	1.0	"							
Dissolved Sodium	ND	200	120	"							
Dissolved Potassium	ND	200	46.8	"							
Dissolved Barium	ND	5.0	1.2	"							
Dissolved Beryllium	ND	5.0	0.09	"							
Dissolved Cadmium	ND	5.0	0.1	"							
Dissolved Chromium	ND	5.0	0.3	"							
Dissolved Calcium	ND	100	79.0	"							
Dissolved Cobalt	ND	5.0	0.2	"							
Dissolved Copper	1.10	5.0	0.8	"							J
Dissolved Lead	ND	5.0	0.9	"							
Dissolved Molybdenum	ND	5.0	0.8	"							
Dissolved Nickel	ND	5.0	0.6	"							
Dissolved Magnesium	ND	50.0	15.6	"							
Dissolved Selenium	ND	20.0	1.3	"							
Dissolved Silver	0.400	5.0	0.4	"							J
Dissolved Thallium	ND	20.0	2.2	"							
Dissolved Vanadium	0.200	5.0	0.2	"							J
Dissolved Zinc	ND	10.0	0.3	"							

LCS (AXC0155-BS1)

Prepared & Analyzed: 03/17/14

Dissolved Antimony	1070	10.0	1.3	ug/l	1000	107	85-115
Dissolved Sodium	893	200	120	"	1000	89.3	85-115
Dissolved Potassium	9940	200	46.8	"	10000	99.4	85-115
Dissolved Arsenic	1040	10.0	1.0	"	1000	104	85-115
Dissolved Barium	1040	5.0	1.2	"	1000	104	85-115
Dissolved Beryllium	1040	5.0	0.09	"	1000	104	85-115
Dissolved Cadmium	1010	5.0	0.1	"	1000	101	85-115
Dissolved Calcium	1020	100	79.0	"	1000	102	85-115
Dissolved Chromium	1040	5.0	0.3	"	1000	104	85-115
Dissolved Cobalt	1030	5.0	0.2	"	1000	103	85-115
Dissolved Copper	1070	5.0	0.8	"	1000	107	85-115
Dissolved Lead	1070	5.0	0.9	"	1000	107	85-115
Dissolved Molybdenum	1040	5.0	0.8	"	1000	104	85-115
Dissolved Nickel	1040	5.0	0.6	"	1000	104	85-115
Dissolved Magnesium	1090	50.0	15.6	"	1000	109	85-115
Dissolved Selenium	1000	20.0	1.3	"	1000	100	85-115
Dissolved Silver	990	5.0	0.4	"	1000	99.0	85-115

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

Dissolved Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AXC0155 - EPA 200.7

LCS (AXC0155-BS1)

Prepared & Analyzed: 03/17/14

Dissolved Thallium	1020	20.0	2.2	ug/l	1000		102	85-115			
Dissolved Vanadium	996	5.0	0.2	"	1000		99.6	85-115			
Dissolved Zinc	1040	10.0	0.3	"	1000		104	85-115			

LCS Dup (AXC0155-BSD1)

Prepared & Analyzed: 03/17/14

Dissolved Antimony	1060	10.0	1.3	ug/l	1000		106	85-115	0.936	20	
Dissolved Sodium	908	200	120	"	1000		90.8	85-115	1.63	20	
Dissolved Potassium	9970	200	46.8	"	10000		99.7	85-115	0.291	20	
Dissolved Arsenic	1030	10.0	1.0	"	1000		103	85-115	1.16	20	
Dissolved Barium	1030	5.0	1.2	"	1000		103	85-115	0.483	20	
Dissolved Beryllium	1020	5.0	0.09	"	1000		102	85-115	1.26	20	
Dissolved Cadmium	1000	5.0	0.1	"	1000		100	85-115	0.994	20	
Dissolved Chromium	1030	5.0	0.3	"	1000		103	85-115	0.675	20	
Dissolved Calcium	1020	100	79.0	"	1000		102	85-115	0.0984	20	
Dissolved Cobalt	1020	5.0	0.2	"	1000		102	85-115	1.07	20	
Dissolved Copper	1050	5.0	0.8	"	1000		105	85-115	1.32	20	
Dissolved Lead	1060	5.0	0.9	"	1000		106	85-115	0.847	20	
Dissolved Molybdenum	1030	5.0	0.8	"	1000		103	85-115	0.484	20	
Dissolved Nickel	1040	5.0	0.6	"	1000		104	85-115	0.769	20	
Dissolved Selenium	992	20.0	1.3	"	1000		99.2	85-115	1.13	20	
Dissolved Magnesium	1090	50.0	15.6	"	1000		109	85-115	0.00	20	
Dissolved Silver	983	5.0	0.4	"	1000		98.3	85-115	0.760	20	
Dissolved Thallium	1010	20.0	2.2	"	1000		101	85-115	0.984	20	
Dissolved Vanadium	988	5.0	0.2	"	1000		98.8	85-115	0.786	20	
Dissolved Zinc	1040	10.0	0.3	"	1000		104	85-115	0.577	20	

Matrix Spike (AXC0155-MS1)

Source: 1403041-01

Prepared & Analyzed: 03/17/14

Dissolved Antimony	1070	10.0	1.3	ug/l	1000	ND	107	75-125			
Dissolved Arsenic	1040	10.0	1.0	"	1000	2.60	104	75-125			
Dissolved Potassium	158000	200	46.8	"	10000	149000	89.0	75-125			
Dissolved Sodium	35800	200	120	"	1000	35000	86.0	75-125			
Dissolved Barium	1040	5.0	1.2	"	1000	17.7	102	75-125			
Dissolved Beryllium	1040	5.0	0.09	"	1000	ND	104	75-125			
Dissolved Cadmium	1010	5.0	0.1	"	1000	0.300	101	75-125			
Dissolved Chromium	1030	5.0	0.3	"	1000	10.3	102	75-125			
Dissolved Calcium	27400	100	79.0	"	1000	26500	93.0	75-125			
Dissolved Cobalt	1010	5.0	0.2	"	1000	1.10	101	75-125			
Dissolved Copper	1050	5.0	0.8	"	1000	9.10	104	75-125			
Dissolved Lead	1020	5.0	0.9	"	1000	ND	102	75-125			
Dissolved Molybdenum	1050	5.0	0.8	"	1000	28.5	103	75-125			

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

Dissolved Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AXC0155 - EPA 200.7

Matrix Spike (AXC0155-MS1)

Source: 1403041-01

Prepared & Analyzed: 03/17/14

Dissolved Nickel	1020	5.0	0.6	ug/l	1000	3.40	101	75-125			
Dissolved Magnesium	23700	50.0	15.6	"	1000	22800	90.0	75-125			
Dissolved Selenium	1010	20.0	1.3	"	1000	4.30	101	75-125			
Dissolved Silver	975	5.0	0.4	"	1000	0.700	97.4	75-125			
Dissolved Thallium	988	20.0	2.2	"	1000	ND	98.8	75-125			
Dissolved Vanadium	992	5.0	0.2	"	1000	2.70	99.0	75-125			
Dissolved Zinc	1030	10.0	0.3	"	1000	2.50	103	75-125			

Matrix Spike Dup (AXC0155-MSD1)

Source: 1403041-01

Prepared & Analyzed: 03/17/14

Dissolved Antimony	1080	10.0	1.3	ug/l	1000	ND	108	75-125	0.373	25	
Dissolved Potassium	156000	200	46.8	"	10000	149000	73.0	75-125	1.02	25	QL-01
Dissolved Arsenic	1050	10.0	1.0	"	1000	2.60	105	75-125	0.764	25	
Dissolved Sodium	35600	200	120	"	1000	35000	62.0	75-125	0.672	25	QL-01
Dissolved Barium	1060	5.0	1.2	"	1000	17.7	105	75-125	2.38	25	
Dissolved Beryllium	1040	5.0	0.09	"	1000	ND	104	75-125	0.770	25	
Dissolved Cadmium	1010	5.0	0.1	"	1000	0.300	101	75-125	0.496	25	
Dissolved Calcium	27200	100	79.0	"	1000	26500	66.0	75-125	0.988	25	QL-01
Dissolved Chromium	1030	5.0	0.3	"	1000	10.3	102	75-125	0.485	25	
Dissolved Cobalt	1010	5.0	0.2	"	1000	1.10	101	75-125	0.693	25	
Dissolved Copper	1050	5.0	0.8	"	1000	9.10	104	75-125	0.190	25	
Dissolved Lead	1030	5.0	0.9	"	1000	ND	103	75-125	0.488	25	
Dissolved Molybdenum	1060	5.0	0.8	"	1000	28.5	104	75-125	0.944	25	
Dissolved Nickel	1020	5.0	0.6	"	1000	3.40	102	75-125	0.687	25	
Dissolved Magnesium	23500	50.0	15.6	"	1000	22800	70.0	75-125	0.849	25	QL-01
Dissolved Selenium	1020	20.0	1.3	"	1000	4.30	101	75-125	0.592	25	
Dissolved Silver	997	5.0	0.4	"	1000	0.700	99.6	75-125	2.26	25	
Dissolved Thallium	996	20.0	2.2	"	1000	ND	99.6	75-125	0.837	25	
Dissolved Vanadium	992	5.0	0.2	"	1000	2.70	98.9	75-125	0.0605	25	
Dissolved Zinc	1040	10.0	0.3	"	1000	2.50	103	75-125	0.386	25	

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: 10-02-150 Project Number: [none] Project Manager: Kathy Amaru	Date Reported: 03/24/14 17:07
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Dissolved Metals - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AXC0157 - EPA 245.1

Blank (AXC0157-BLK1)					Prepared: 03/14/14 Analyzed: 03/18/14						
Dissolved Mercury	ND	0.200	0.0460	ug/l							

LCS (AXC0157-BS1)					Prepared: 03/14/14 Analyzed: 03/18/14						
Dissolved Mercury	7.32	0.200	0.0460	ug/l	6.67		110	85-115			

LCS Dup (AXC0157-BSD1)					Prepared: 03/14/14 Analyzed: 03/18/14						
Dissolved Mercury	6.96	0.200	0.0460	ug/l	6.67		104	85-115	5.04	20	

Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

Notes and Definitions

- QL-01 Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- Field This analyte was analyzed outside of the EPA recommended hold time of ASAP and should be analyzed in the field.
- ND Analyte not detected at reporting limit.
- NR Not reported

Analysis Method

EPA 8260, EPA 8021/8015M
EPA 8270, EPA 8081, EPA 8082, EPA 8141, EPA 8015M (extractable)
Metals
TCLP
Not Specified

Prep Method

EPA 5030B
Water - EPA 3510C, Soil- EPA 3550B
Water- 3005A, Soil- 3050B
EPA 1311
Same as Analysis Method

Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

CHAIN OF CUSTODY		REPORTING REQUIREMENTS BELOW:	
Excelchem Environmental Labs 1105 W. Sunset Blvd. Suite A Redding, CA 95765 Ph: 916-543-4445 Fax: 916-543-4448		PDF / Standard Format Geotracker / EDF / Provide Global ID EDD / Equis / Data Table MDL Format Data to be reported to State's Database? Yes ___ No ___ EDT / CDPH - Provide Source Codes / PWS ID:	
Project Manager: KATHLEEN AMARU Email Address for Reporting: KAMARU@EXCELCHেম.COM Email Address for Reporting:		Phone #: 916-464-4607 Cell #: _____ Fax #: _____ P.O.# / Project Name: Project Location:	
Company Name & Address: 11020 Sun Center Dr #200 Rancho Cordova, CA 95670		Sampler Name: K. AMARU Sampler Signature: _____ page ___ of ___	
Billing Address:		ANALYSIS REQUEST	
Matrix Table: S = Soil / Sludge / Solid (circle one) A = Air DW = Drinking Water MW = Monitoring Wells GW = Groundwater TW = Treated Water WW = Waste Water		LAB USE: Bin #: P6 Microbiology Work Order: 1409004	
Matrix (See Matrix Table) Preserved? (check yes and no (both available)) Yes ___ No ___ Teflon / Summa 500ml plastic 1000ml plastic 1 Gallon plastic 1 Liter Amber 40ml Voa - Clear 40ml Voa - Amber 250ml Amber 500ml Amber Soil Jar		Metals Silic Triox PH Sulfate Carbonate	
SAMPLE ID: Source Codes SAMPLING DATE TIME 1A 2/28 1405 1B 1C 2A 3/31/110 2B 2C 3A 3/31/125 3B 3C 4A 3/3 1145 4B		Matrix (See Matrix Table) Matrix (See Matrix Table)	
Relinquished by: Kathy Amaru Relinquished by: Vol		DATE TIME Received by: V. Williams 1105 DATE TIME Received by Laboratory: 3/19/14 1140 Received by Laboratory: Jessie Morris	

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

CHAIN OF CUSTODY		REPORTING REQUIREMENTS BELOW:		
Excelchem Environmental Labs 1135 W. Suisun Blvd. Suite A Rocklin, CA 95765 P: 916-543-4445 F: 916-543-4449		PDF / Standard Format Geotracker / EDF / Provide Global ID		
Project Manager: <u>KATHLEEN AMARU</u> Email Address for Reporting: <u>KAMARU@RWQCENVIRONMENTALS.COM</u> Email Address for Reporting:		P: Cell #: <u>916-464-4440</u> Cell #:		
Company Name & Address: <u>11020 Sun Center Dr #200</u> <u>RANCHO CORDOVA, CA 95670</u>		EDD / Equis / Data Table MIDL Format		
Billing Address:		Data to be reported to State's Database? Yes ___ No ___ EDT / CDPH - Provide Source Codes / PWS ID:		
P: Cell / Project Name: <u>LINDSEAN PROPERTY</u> Project Location:		page ___ of ___		
Sample Name: <u>KATHLEEN AMARU</u> Sampler Signature: <u>[Signature]</u>		LAB USE: Bin #: <u>16</u> Microbiology Work Order: <u>1463004</u>		
Matrix Table: S = Soil / Sludge / Solid (circle one) A = Air DW = Drinking Water MW = Monitoring Wells GW = Groundwater TW = Treated Water WW = Waste Water		ANALYSIS REQUEST		
SAMPLE ID: <u>5A</u> <u>5B</u> <u>5C</u>	Source: COUS <u>1210</u> <u>1210</u> <u>1210</u>	SAMPLING DATE TIME: <u>3/14 12:10</u> <u>3/14 12:10</u> <u>3/14 12:10</u>	Matrix (See Matrix Table) Preserved? (Mark yes and no if both available) Yes <u>M</u> No <u>M</u> Teflar / Summa <u>✓</u> Corform Tube <u>✓</u> 250ml plastic <u>✓</u> 500ml plastic <u>✓</u> 1000ml plastic <u>✓</u> 1 Gallon plastic <u>✓</u> 1 Liter Amber <u>✓</u> 40ml Voa - Clear <u>✓</u> 40ml Voa - Amber <u>✓</u> 250ml Amber <u>✓</u> 500ml Amber <u>✓</u> Soil Jar <u>✓</u>	Metals: S/C Total <u>PH</u> <u>Chloride</u> <u>Sulfate</u>
Relinquished by: <u>[Signature]</u>		DATE TIME Received by: <u>MRS</u> <u>3/14 16:02</u> <u>V. Wells</u>		
Relinquished by: <u>[Signature]</u>		DATE TIME Received by Laboratory: <u>3/14 14:00</u> <u>Jean Morrison</u>		

Excelchem Environmental Lab.



Laboratory Representative

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Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

Sample Integrity

WORK ORDER 1403004

Date Received: 03/04/13

Section 1 - Sample Arrival Info.

Sample Transport: ONTRAC UPS USPS Walk-In EXCELCHEM Courier Fed-Ex Other: _____

Transported In: Ice Chest Box Hand

Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: _____

Has chilling process begun? N Samples Received: Chilled to Touch / Ambient / On Ice

Temperature of Samples (°C): 9 Ice Chest Temperature(s) (°C): 5

Section 2 - Bottle/Analysis Info.

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?	<input checked="" type="checkbox"/>			
Did all bottle labels agree with COC?		<input checked="" type="checkbox"/>		Sample 1C, 4A, and 4B didn't specify analysis.
Were correct containers used for the tests requested?	<input checked="" type="checkbox"/>			
Were correct preservations used for the tests requested?	<input checked="" type="checkbox"/>			
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>			
Were bubbles present in VOA Vials?: (Volatile Methods Only)			<input checked="" type="checkbox"/>	

Section 3 - Summa/Flow regulator Info.

Used Summa#: _____

Unused Summa#: _____

Cleaning Summa#: _____

Regulator#: _____

Was there any visual damage to summa canisters or flow regulators? Explain.

N/A

Section 4 - COC Info.

	Completed		Info From Container	Completed		Comments
	Yes	No		Yes	No	
Was COC Received	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Date Sampled	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Time Sampled	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		pH
Sample ID	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	
Rush TAT		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
Analysis Requested				<input checked="" type="checkbox"/>		
Samples arrived within holding time				<input checked="" type="checkbox"/>		
Any hold times less than 72 hrs				<input checked="" type="checkbox"/>		
Client Name					<input checked="" type="checkbox"/>	
Address/Telephone #				<input checked="" type="checkbox"/>		

Section 5 - Comments / Discrepancies

Was Client notified of discrepancies: Yes No N/A Notified by: _____

Explanations / Comments:

Samples Labeled by: JM

Bin #: P6

COC Scanned/Attached by: JM

Sample labels reviewed by: _____

Filled Jovelle Mawitoto Date: 03/04/14
Out by: _____ Time: 11:40

Excelchem Environmental Lab.



Laboratory Representative

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.

Excelchem Environmental Labs

RWQC Central Valley
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Project: 10-02-150
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
03/24/14 17:07

Page 1 of 1

Front Desk

From: Amaru, Kathy@Waterboards [Kathy.Amaru@waterboards.ca.gov]
Sent: Thursday, March 13, 2014 3:23 PM
To: Front Desk
Cc: Hoffman, Michael@Waterboards
Subject: RE: Project Lindeman Property, WO #1403004

You rock Marisa!!
Thanks so much. I will heed you're advice.
-k-

From: Front Desk [mailto:FrontDesk@excelchem.net]
Sent: Thursday, March 13, 2014 3:17 PM
To: Amaru, Kathy@Waterboards
Cc: Hoffman, Michael@Waterboards
Subject: Project Lindeman Property, WO #1403004

Hello Kathy,

Per our conversations and e-mails, please see summary.

For all 14 samples, you requested:

- CAM 17 total
- CAM 17 dissolved
- Ca, Mg, K, Na
- Ca dissolved, Mg dissolved, K dissolved, Na dissolved
- pH
- sulfate

Due to limited volume, we will not have enough sample for MS/MSD.

Any sample that was preserved with HN03 or only included 125 mLs bottle will be analyzed for total metals only.

In the future, to ensure that we have enough sample for all analyses requested and MS/MSD, we will need 1 liter unpreserved poly and 500 mLs preserved with HN03 poly.

I have also included a sample COC for this project for next time.

Please confirm receipt.

If you have any questions or concerns, please send an e-mail.

Thank you,

Marisa Torres
Excelchem Environmental Labs
1135 W. Sunset Blvd. Suite A
Rocklin, CA 95765
(916) 543-4445 Phone
(916) 543-4449 Fax

3/13/2014

Excelchem Environmental Lab.



Laboratory Representative

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