

EXCELCHEM
Environmental Labs

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ELAP Certificate No. : 2119

13 June 2013

Kathy Amaru

RWQC Central Valley

11020 Sun Center Dr. #200

Rancho Cordova, CA 95670

RE: Lime Kiln

Work order number:1305135

Enclosed are the results of analyses for samples received by the laboratory on 05/08/13 16:05. 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: Lime Kiln
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
06/13/13 10:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
1	1305135-01	Water	05/08/13 10:15	05/08/13 16:05
1A	1305135-02	Water	05/08/13 10:00	05/08/13 16:05
2	1305135-03	Water	05/08/13 10:15	05/08/13 16:05
2A	1305135-04	Water	05/08/13 11:00	05/08/13 16:05
3	1305135-05	Water	05/08/13 10:30	05/08/13 16:05
3A	1305135-06	Water	05/08/13 11:45	05/08/13 16:05

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: Lime Kiln
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
06/13/13 10:11

1 1305135-01 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Hexavalent Chromium	ND	1.0	0.1	ug/l	1	AWE0180	05/08/13	05/08/13	EPA 218.6	
Sulfate as SO4	5.2	0.5	0.07	mg/L	1	AWE0310	05/22/13	05/22/13	EPA 300.0	
Wet Chemistry										
Carbonate Alkalinity	ND	5.00	2.37	mg/L	1	AWE0267	05/21/13	05/21/13	SM2320B	
pH	8.00	0.100	0.100	pH Units	1	AWE0092	05/08/13	05/08/13	SM 4500-H+ B	Field
Dissolved Metals										
Dissolved Calcium	44000	100	79.0	ug/l	1	AWE0169	05/14/13	05/16/13	EPA 200.7	
Dissolved Antimony	ND	10.0	1.3	"	1	"	"	"	"	
Dissolved Arsenic	5.7	10.0	1.0	"	1	"	"	"	"	J
Dissolved Barium	21.4	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
Dissolved Chromium	1.3	5.0	0.3	"	1	"	"	"	"	J
Dissolved Cobalt	0.3	5.0	0.2	"	1	"	"	"	"	J
Dissolved Copper	3.1	5.0	0.8	"	1	"	"	"	"	J
Dissolved Lead	ND	5.0	0.9	"	1	"	"	"	"	
Dissolved Molybdenum	9.2	5.0	0.8	"	1	"	"	"	"	
Dissolved Nickel	1.4	5.0	0.6	"	1	"	"	"	"	J
Dissolved Selenium	ND	20.0	1.3	"	1	"	"	"	"	
Dissolved Silver	ND	5.0	0.4	"	1	"	"	"	"	
Dissolved Thallium	ND	20.0	2.2	"	1	"	"	"	"	
Dissolved Vanadium	4.3	5.0	0.2	"	1	"	"	"	"	J
Dissolved Zinc	6.4	10.0	0.3	"	1	"	"	"	"	J
Dissolved Magnesium	6830	50.0	15.6	"	1	"	"	"	"	
Dissolved Mercury	ND	0.200	0.0460	"	1	AWE0145	05/13/13	05/13/13	EPA 245.1	
Dissolved Potassium	2990	200	46.8	"	1	AWE0169	05/14/13	05/16/13	EPA 200.7	
Dissolved Sodium	6560	200	120	"	1	"	"	"	"	

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: Lime Kiln
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
06/13/13 10:11

1A 1305135-02 (Water)

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

Sulfate as SO4	6.4	0.5	0.07	mg/L	1	AWE0310	05/22/13	05/22/13	EPA 300.0	
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Wet Chemistry

Carbonate Alkalinity	ND	50.0	23.7	mg/L	10	AWE0267	05/21/13	05/21/13	SM2320B	R-07
pH	8.03	0.100	0.100	pH Units	1	AWE0092	05/08/13	05/08/13	SM 4500-H+ B	Field

Total Recoverable Metals

Calcium	104000	100	79.0	ug/l	1	AWF0068	06/03/13	06/06/13	EPA 200.7	
Antimony	ND	10.0	1.3	"	1	AWE0161	05/13/13	05/14/13	"	
Arsenic	22.7	10.0	1.0	"	1	"	"	"	"	
Barium	333	5.0	1.2	"	1	"	"	"	"	
Beryllium	1.5	5.0	0.09	"	1	"	"	"	"	J
Cadmium	1.5	5.0	0.1	"	1	"	"	"	"	J
Chromium	127	5.0	0.3	"	1	"	"	"	"	
Cobalt	43.9	5.0	0.2	"	1	"	"	"	"	
Copper	283	5.0	0.8	"	1	"	"	"	"	
Lead	18.6	5.0	0.9	"	1	"	"	"	"	
Molybdenum	9.5	5.0	0.8	"	1	"	"	"	"	
Nickel	88.4	5.0	0.6	"	1	"	"	"	"	
Selenium	ND	20.0	1.3	"	1	"	"	"	"	
Silver	ND	5.0	0.4	"	1	"	"	"	"	
Thallium	ND	20.0	2.2	"	1	"	"	"	"	
Vanadium	191	5.0	0.2	"	1	"	"	"	"	
Zinc	261	10.0	0.3	"	1	"	"	"	"	
Magnesium	31900	50.0	15.6	"	1	AWF0068	06/03/13	06/06/13	"	
Mercury	0.375	0.200	0.0460	"	1	AWE0146	05/13/13	05/13/13	EPA 245.1	
Potassium	11100	200	46.8	"	1	AWF0068	06/03/13	06/06/13	EPA 200.7	
Sodium	7170	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: Lime Kiln
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
06/13/13 10:11

2 1305135-03 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Hexavalent Chromium	ND	1.0	0.1	ug/l	1	AWE0180	05/08/13	05/08/13	EPA 218.6	
Sulfate as SO4	49.4	0.5	0.07	mg/L	1	AWE0310	05/22/13	05/22/13	EPA 300.0	
Wet Chemistry										
Carbonate Alkalinity	ND	5.00	2.37	mg/L	1	AWE0267	05/21/13	05/21/13	SM2320B	
pH	7.53	0.100	0.100	pH Units	1	AWE0092	05/08/13	05/08/13	SM 4500-H+ B	Field
Dissolved Metals										
Dissolved Calcium	102000	100	79.0	ug/l	1	AWE0169	05/14/13	05/16/13	EPA 200.7	
Dissolved Antimony	ND	10.0	1.3	"	1	"	"	"	"	
Dissolved Arsenic	ND	10.0	1.0	"	1	"	"	"	"	
Dissolved Barium	64.7	5.0	1.2	"	1	"	"	"	"	
Dissolved Beryllium	ND	5.0	0.09	"	1	"	"	"	"	
Dissolved Cadmium	0.3	5.0	0.1	"	1	"	"	"	"	J
Dissolved Chromium	1.2	5.0	0.3	"	1	"	"	"	"	J
Dissolved Cobalt	0.9	5.0	0.2	"	1	"	"	"	"	J
Dissolved Copper	1.6	5.0	0.8	"	1	"	"	"	"	J
Dissolved Lead	ND	5.0	0.9	"	1	"	"	"	"	
Dissolved Molybdenum	3.6	5.0	0.8	"	1	"	"	"	"	J
Dissolved Nickel	2.9	5.0	0.6	"	1	"	"	"	"	J
Dissolved Selenium	1.3	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	ND	5.0	0.2	"	1	"	"	"	"	
Dissolved Zinc	2.6	10.0	0.3	"	1	"	"	"	"	J
Dissolved Magnesium	17000	50.0	15.6	"	1	"	"	"	"	
Dissolved Mercury	ND	0.200	0.0460	"	1	AWE0145	05/13/13	05/13/13	EPA 245.1	
Dissolved Potassium	2220	200	46.8	"	1	AWE0169	05/14/13	05/16/13	EPA 200.7	
Dissolved Sodium	13000	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: Lime Kiln
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
06/13/13 10:11

2A 1305135-04 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Sulfate as SO4	58.3	5.0	0.7	mg/L	10	AWE0310	05/22/13	05/23/13	EPA 300.0	
Wet Chemistry										
Carbonate Alkalinity	1000	250	118	mg/L	50	AWE0267	05/21/13	05/21/13	SM2320B	
pH	8.56	0.100	0.100	pH Units	1	AWE0092	05/08/13	05/08/13	SM 4500-H+ B	Field
Total Recoverable Metals										
Calcium	1680000	10000	7900	ug/l	100	AWF0068	06/03/13	06/06/13	EPA 200.7	
	0									
Antimony	ND	100	13.2	"	10	AWE0161	05/13/13	05/14/13	"	
Arsenic	224	100	9.6	"	10	"	"	"	"	
Barium	5100	50.0	11.8	"	10	"	"	"	"	
Beryllium	0.9	50.0	0.9	"	10	"	"	"	"	J
Cadmium	14.9	50.0	1.0	"	10	"	"	"	"	J
Chromium	259	50.0	3.0	"	10	"	"	"	"	
Cobalt	176	50.0	1.5	"	10	"	"	"	"	
Copper	496	50.0	8.2	"	10	"	"	"	"	
Lead	305	50.0	9.4	"	10	"	"	"	"	
Molybdenum	ND	50.0	8.1	"	10	"	"	"	"	
Nickel	255	50.0	6.2	"	10	"	"	"	"	
Selenium	46.6	200	12.8	"	10	"	"	"	"	J
Silver	6.5	50.0	4.0	"	10	"	"	"	"	J
Thallium	ND	200	22.0	"	10	"	"	"	"	
Vanadium	523	50.0	2.3	"	10	"	"	"	"	
Zinc	3350	100	2.6	"	10	"	"	"	"	
Magnesium	272000	5000	1560	"	100	AWF0068	06/03/13	06/06/13	"	
Mercury	1.93	0.200	0.0460	"	1	AWE0146	05/13/13	05/13/13	EPA 245.1	
Potassium	16900	20000	4680	"	100	AWF0068	06/03/13	06/06/13	EPA 200.7	J
Sodium	28300	20000	12000	"	100	"	"	"	"	

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Laboratory Representative

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

Project: Lime Kiln
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
06/13/13 10:11

3 1305135-05 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Hexavalent Chromium	0.6	1.0	0.1	ug/l	1	AWE0180	05/08/13	05/08/13	EPA 218.6	J
Sulfate as SO4	89.9	5.0	0.7	mg/L	10	AWE0310	05/22/13	05/23/13	EPA 300.0	
Wet Chemistry										
Carbonate Alkalinity	68.0	5.00	2.37	mg/L	1	AWE0267	05/21/13	05/21/13	SM2320B	
pH	12.2	0.100	0.100	pH Units	1	AWE0092	05/08/13	05/08/13	SM 4500-H+ B	Field
Dissolved Metals										
Dissolved Calcium	410000	100	79.0	ug/l	1	AWE0169	05/14/13	05/16/13	EPA 200.7	
Dissolved Antimony	ND	10.0	1.3	"	1	"	"	"	"	
Dissolved Arsenic	ND	10.0	1.0	"	1	"	"	"	"	
Dissolved Barium	48.8	5.0	1.2	"	1	"	"	"	"	
Dissolved Beryllium	0.2	5.0	0.09	"	1	"	"	"	"	J
Dissolved Cadmium	0.1	5.0	0.1	"	1	"	"	"	"	J
Dissolved Chromium	1.9	5.0	0.3	"	1	"	"	"	"	J
Dissolved Cobalt	0.2	5.0	0.2	"	1	"	"	"	"	J
Dissolved Copper	11.6	5.0	0.8	"	1	"	"	"	"	
Dissolved Lead	6.7	5.0	0.9	"	1	"	"	"	"	
Dissolved Molybdenum	11.5	5.0	0.8	"	1	"	"	"	"	
Dissolved Nickel	8.4	5.0	0.6	"	1	"	"	"	"	
Dissolved Selenium	ND	20.0	1.3	"	1	"	"	"	"	
Dissolved Silver	ND	5.0	0.4	"	1	"	"	"	"	
Dissolved Thallium	ND	20.0	2.2	"	1	"	"	"	"	
Dissolved Vanadium	2.0	5.0	0.2	"	1	"	"	"	"	J
Dissolved Zinc	1.2	10.0	0.3	"	1	"	"	"	"	J
Dissolved Magnesium	78.0	50.0	15.6	"	1	"	"	"	"	
Dissolved Mercury	ND	0.200	0.0460	"	1	AWE0145	05/13/13	05/13/13	EPA 245.1	
Dissolved Potassium	2710	200	46.8	"	1	AWE0169	05/14/13	05/16/13	EPA 200.7	
Dissolved Sodium	11400	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: Lime Kiln
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
06/13/13 10:11

3A 1305135-06 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Sulfate as SO4	88.1	5.0	0.7	mg/L	10	AWE0310	05/22/13	05/23/13	EPA 300.0	
Wet Chemistry										
Carbonate Alkalinity	400	10.0	4.74	mg/L	2	AWE0267	05/21/13	05/21/13	SM2320B	
pH	12.3	0.100	0.100	pH Units	1	AWE0092	05/08/13	05/08/13	SM 4500-H+ B	Field
Total Recoverable Metals										
Calcium	1250000	1000	790	ug/l	10	AWF0068	06/03/13	06/06/13	EPA 200.7	
Antimony	2.1	10.0	1.3	"	1	AWE0161	05/13/13	05/14/13	"	J
Arsenic	13.3	10.0	1.0	"	1	"	"	"	"	
Barium	212	5.0	1.2	"	1	"	"	"	"	
Beryllium	3.5	5.0	0.09	"	1	"	"	"	"	J
Cadmium	4.6	5.0	0.1	"	1	"	"	"	"	J
Chromium	22.4	5.0	0.3	"	1	"	"	"	"	
Cobalt	8.0	5.0	0.2	"	1	"	"	"	"	
Copper	55.0	5.0	0.8	"	1	"	"	"	"	
Lead	129	5.0	0.9	"	1	"	"	"	"	
Molybdenum	14.6	5.0	0.8	"	1	"	"	"	"	
Nickel	33.3	5.0	0.6	"	1	"	"	"	"	
Selenium	ND	20.0	1.3	"	1	"	"	"	"	
Silver	ND	5.0	0.4	"	1	"	"	"	"	
Thallium	ND	20.0	2.2	"	1	"	"	"	"	
Vanadium	51.9	5.0	0.2	"	1	"	"	"	"	
Zinc	761	10.0	0.3	"	1	"	"	"	"	
Magnesium	13600	500	156	"	10	AWF0068	06/03/13	06/06/13	"	
Mercury	0.0467	0.200	0.0460	"	1	AWE0146	05/13/13	05/13/13	EPA 245.1	J
Potassium	4910	2000	468	"	10	AWF0068	06/03/13	06/06/13	EPA 200.7	
Sodium	12200	2000	1200	"	10	"	"	"	"	

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

Project: Lime Kiln
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
06/13/13 10:11

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 AWE0180 - EPA 218.6

Blank (AWE0180-BLK1)

Prepared & Analyzed: 05/08/13

Hexavalent Chromium	ND	1.0	0.1	ug/l							
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LCS (AWE0180-BS1)

Prepared & Analyzed: 05/08/13

Hexavalent Chromium	9.3	1.0	0.1	ug/l	10.0	93.2	80-120				
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LCS Dup (AWE0180-BSD1)

Prepared & Analyzed: 05/08/13

Hexavalent Chromium	9.5	1.0	0.1	ug/l	10.0	95.4	80-120	2.28	20		
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Duplicate (AWE0180-DUP1)

Source: 1305135-01

Prepared & Analyzed: 05/08/13

Hexavalent Chromium	ND	1.0	0.1	ug/l	ND						200
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Matrix Spike (AWE0180-MS1)

Source: 1305135-01

Prepared & Analyzed: 05/08/13

Hexavalent Chromium	8.8	1.0	0.1	ug/l	10.0	ND	88.5	75-125			
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Matrix Spike Dup (AWE0180-MSD1)

Source: 1305135-01

Prepared & Analyzed: 05/08/13

Hexavalent Chromium	9.0	1.0	0.1	ug/l	10.0	ND	89.6	75-125	1.24	20	
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Batch AWE0310 - EPA 300.0

Blank (AWE0310-BLK1)

Prepared: 05/22/13 Analyzed: 05/23/13

Sulfate as SO4	ND	0.5	0.07	mg/L							
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LCS (AWE0310-BS1)

Prepared: 05/22/13 Analyzed: 05/23/13

Sulfate as SO4	10.2	0.5	0.07	mg/L	10.0	102	80-120				
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LCS Dup (AWE0310-BSD1)

Prepared: 05/22/13 Analyzed: 05/23/13

Sulfate as SO4	10.2	0.5	0.07	mg/L	10.0	102	80-120	0.401	20		
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Laboratory Representative

Excelchem Environmental Labs

RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: Lime Kiln Project Number: [none] Project Manager: Kathy Amaru	Date Reported: 06/13/13 10:11
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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 AWE0310 - EPA 300.0

Duplicate (AWE0310-DUP1)		Source: 1305135-01			Prepared & Analyzed: 05/22/13						
Sulfate as SO4	5.3	0.5	0.07	mg/L		5.2			2.45	20	
Matrix Spike (AWE0310-MS1)		Source: 1305135-01			Prepared & Analyzed: 05/22/13						
Sulfate as SO4	15.1	0.5	0.07	mg/L	10.0	5.2	99.7	75-125			
Matrix Spike Dup (AWE0310-MSD1)		Source: 1305135-01			Prepared & Analyzed: 05/22/13						
Sulfate as SO4	15.2	0.5	0.07	mg/L	10.0	5.2	100	75-125	0.402	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: Lime Kiln Project Number: [none] Project Manager: Kathy Amaru	Date Reported: 06/13/13 10:11
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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
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Batch AWE0092 - SM 4500-H+ B

Duplicate (AWE0092-DUP1)		Source: 1305135-06			Prepared & Analyzed: 05/08/13						
pH	12.3	0.100	0.100	pH Units		12.3			0.244	20	

Batch AWE0267 - SM2320B

Blank (AWE0267-BLK1)		Prepared & Analyzed: 05/21/13									
Carbonate Alkalinity	ND	5.00	2.37	mg/L							

Duplicate (AWE0267-DUP1)		Source: 1305135-01			Prepared & Analyzed: 05/21/13						
Carbonate Alkalinity	ND	5.00	2.37	mg/L		ND				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: Lime Kiln
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
06/13/13 10:11

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 AWE0146 - EPA 245.1

Blank (AWE0146-BLK1)					Prepared & Analyzed: 05/13/13						
Mercury	ND	0.200	0.0460	ug/l							
LCS (AWE0146-BS1)					Prepared & Analyzed: 05/13/13						
Mercury	7.00	0.200	0.0460	ug/l	6.67		105	85-115			
LCS Dup (AWE0146-BSD1)					Prepared & Analyzed: 05/13/13						
Mercury	7.24	0.200	0.0460	ug/l	6.67		109	85-115	3.37	20	
Matrix Spike (AWE0146-MS1)					Source: 1305135-02		Prepared & Analyzed: 05/13/13				
Mercury	6.99	0.200	0.0460	ug/l	6.67	0.375	99.2	75-125			
Matrix Spike Dup (AWE0146-MSD1)					Source: 1305135-02		Prepared & Analyzed: 05/13/13				
Mercury	6.75	0.200	0.0460	ug/l	6.67	0.375	95.6	75-125	3.50	20	

Batch AWE0161 - EPA 200.7

Blank (AWE0161-BLK1)					Prepared: 05/13/13 Analyzed: 05/14/13						
Antimony	ND	10.0	1.3	ug/l							
Arsenic	ND	10.0	1.0	"							
Barium	3.40	5.0	1.2	"							J
Beryllium	ND	5.0	0.09	"							
Cadmium	ND	5.0	0.1	"							
Chromium	0.700	5.0	0.3	"							J
Cobalt	ND	5.0	0.2	"							
Copper	2.60	5.0	0.8	"							J
Lead	ND	5.0	0.9	"							
Molybdenum	ND	5.0	0.8	"							
Nickel	ND	5.0	0.6	"							
Selenium	ND	20.0	1.3	"							
Silver	ND	5.0	0.4	"							
Thallium	ND	20.0	2.2	"							
Vanadium	ND	5.0	0.2	"							
Zinc	11.1	10.0	0.3	"							QB-01

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Laboratory Representative

Excelchem Environmental Labs

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

Project: Lime Kiln
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
06/13/13 10:11

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 AWE0161 - EPA 200.7

LCS (AWE0161-BS1)

Prepared: 05/13/13 Analyzed: 05/14/13

Antimony	1040	10.0	1.3	ug/l	1000		104	85-115			
Arsenic	987	10.0	1.0	"	1000		98.7	85-115			
Barium	1030	5.0	1.2	"	1000		103	85-115			
Beryllium	1040	5.0	0.09	"	1000		104	85-115			
Cadmium	1010	5.0	0.1	"	1000		101	85-115			
Chromium	1060	5.0	0.3	"	1000		106	85-115			
Cobalt	1040	5.0	0.2	"	1000		104	85-115			
Copper	1090	5.0	0.8	"	1000		109	85-115			
Lead	1030	5.0	0.9	"	1000		103	85-115			
Molybdenum	1070	5.0	0.8	"	1000		107	85-115			
Nickel	1060	5.0	0.6	"	1000		106	85-115			
Selenium	1010	20.0	1.3	"	1000		101	85-115			
Silver	1030	5.0	0.4	"	1000		103	85-115			
Thallium	992	20.0	2.2	"	1000		99.2	85-115			
Vanadium	1060	5.0	0.2	"	1000		106	85-115			
Zinc	1050	10.0	0.3	"	1000		105	85-115			

LCS Dup (AWE0161-BS1)

Prepared: 05/13/13 Analyzed: 05/14/13

Antimony	1040	10.0	1.3	ug/l	1000		104	85-115	0.00	20	
Arsenic	986	10.0	1.0	"	1000		98.6	85-115	0.101	20	
Barium	1030	5.0	1.2	"	1000		103	85-115	0.388	20	
Beryllium	1040	5.0	0.09	"	1000		104	85-115	0.00	20	
Cadmium	1010	5.0	0.1	"	1000		101	85-115	0.198	20	
Chromium	1060	5.0	0.3	"	1000		106	85-115	0.0947	20	
Cobalt	1030	5.0	0.2	"	1000		103	85-115	0.290	20	
Copper	1080	5.0	0.8	"	1000		108	85-115	0.645	20	
Lead	1030	5.0	0.9	"	1000		103	85-115	0.291	20	
Molybdenum	1070	5.0	0.8	"	1000		107	85-115	0.0933	20	
Nickel	1060	5.0	0.6	"	1000		106	85-115	0.188	20	
Selenium	1010	20.0	1.3	"	1000		101	85-115	0.0993	20	
Silver	1020	5.0	0.4	"	1000		102	85-115	1.37	20	
Thallium	992	20.0	2.2	"	1000		99.2	85-115	0.0504	20	
Vanadium	1050	5.0	0.2	"	1000		105	85-115	0.757	20	
Zinc	1050	10.0	0.3	"	1000		105	85-115	0.191	20	

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Laboratory Representative

Excelchem Environmental Labs

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

Project: Lime Kiln
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
06/13/13 10:11

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 AWE0161 - EPA 200.7

Matrix Spike (AWE0161-MS1)

Source: 1305179-04

Prepared: 05/13/13 Analyzed: 05/14/13

Antimony	1010	10.0	1.3	ug/l	1000	ND	101	75-125		
Arsenic	981	10.0	1.0	"	1000	2.10	97.9	75-125		
Barium	1160	5.0	1.2	"	1000	155	100	75-125		
Beryllium	1030	5.0	0.09	"	1000	ND	103	75-125		
Cadmium	984	5.0	0.1	"	1000	0.200	98.4	75-125		
Chromium	1020	5.0	0.3	"	1000	0.900	101	75-125		
Cobalt	984	5.0	0.2	"	1000	1.60	98.2	75-125		
Copper	1000	5.0	0.8	"	1000	9.90	99.1	75-125		
Lead	961	5.0	0.9	"	1000	ND	96.1	75-125		
Molybdenum	1040	5.0	0.8	"	1000	2.50	104	75-125		
Nickel	1010	5.0	0.6	"	1000	2.30	101	75-125		
Selenium	1000	20.0	1.3	"	1000	ND	100	75-125		
Silver	950	5.0	0.4	"	1000	ND	95.0	75-125		
Thallium	905	20.0	2.2	"	1000	ND	90.5	75-125		
Vanadium	998	5.0	0.2	"	1000	1.80	99.6	75-125		
Zinc	1030	10.0	0.3	"	1000	0.600	103	75-125		

Matrix Spike Dup (AWE0161-MSD1)

Source: 1305179-04

Prepared: 05/13/13 Analyzed: 05/14/13

Antimony	1000	10.0	1.3	ug/l	1000	ND	100	75-125	0.892	25
Arsenic	972	10.0	1.0	"	1000	2.10	96.9	75-125	0.993	25
Barium	1160	5.0	1.2	"	1000	155	100	75-125	0.173	25
Beryllium	1020	5.0	0.09	"	1000	ND	102	75-125	0.976	25
Cadmium	976	5.0	0.1	"	1000	0.200	97.6	75-125	0.857	25
Chromium	1010	5.0	0.3	"	1000	0.900	101	75-125	0.791	25
Cobalt	976	5.0	0.2	"	1000	1.60	97.4	75-125	0.806	25
Copper	985	5.0	0.8	"	1000	9.90	97.5	75-125	1.64	25
Lead	954	5.0	0.9	"	1000	ND	95.4	75-125	0.763	25
Molybdenum	1040	5.0	0.8	"	1000	2.50	103	75-125	0.768	25
Nickel	1000	5.0	0.6	"	1000	2.30	100	75-125	0.695	25
Selenium	994	20.0	1.3	"	1000	ND	99.4	75-125	0.682	25
Silver	951	5.0	0.4	"	1000	ND	95.1	75-125	0.0316	25
Thallium	894	20.0	2.2	"	1000	ND	89.4	75-125	1.20	25
Vanadium	984	5.0	0.2	"	1000	1.80	98.2	75-125	1.40	25
Zinc	1020	10.0	0.3	"	1000	0.600	102	75-125	0.878	25

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Laboratory Representative

Excelchem Environmental Labs

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

Project: Lime Kiln
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
06/13/13 10:11

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 AWF0068 - EPA 200.7

Blank (AWF0068-BLK1)

Prepared: 06/03/13 Analyzed: 06/06/13

Calcium	160	100	79.0	ug/l							QB-01
Magnesium	ND	50.0	15.6	"							
Potassium	ND	200	46.8	"							
Sodium	ND	200	120	"							

LCS (AWF0068-BS1)

Prepared: 06/03/13 Analyzed: 06/06/13

Calcium	1090	100	79.0	ug/l	1000		109	85-115			
Magnesium	994	50.0	15.6	"	1000		99.4	85-115			
Potassium	10300	200	46.8	"	10000		103	85-115			
Sodium	1010	200	120	"	1000		101	85-115			

LCS Dup (AWF0068-BS1)

Prepared: 06/03/13 Analyzed: 06/06/13

Calcium	1080	100	79.0	ug/l	1000		108	85-115	1.57	20	
Magnesium	991	50.0	15.6	"	1000		99.1	85-115	0.252	20	
Potassium	10200	200	46.8	"	10000		102	85-115	0.876	20	
Sodium	1000	200	120	"	1000		100	85-115	0.597	20	

Matrix Spike (AWF0068-MS1)

Source: 1305441-01

Prepared: 06/03/13 Analyzed: 06/06/13

Calcium	2650	100	79.0	ug/l	1000	1780	87.0	75-125			
Magnesium	1010	50.0	15.6	"	1000	40.4	96.6	75-125			
Potassium	11000	200	46.8	"	10000	320	106	75-125			
Sodium	44900	200	120	"	1000	43300	161	75-125			QL-01

Matrix Spike Dup (AWF0068-MSD1)

Source: 1305441-01

Prepared: 06/03/13 Analyzed: 06/06/13

Calcium	2610	100	79.0	ug/l	1000	1780	83.6	75-125	1.29	25	
Magnesium	1000	50.0	15.6	"	1000	40.4	96.3	75-125	0.299	25	
Potassium	10900	200	46.8	"	10000	320	106	75-125	0.549	25	
Sodium	44200	200	120	"	1000	43300	95.0	75-125	1.48	25	

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Laboratory Representative

Excelchem Environmental Labs

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

Project: Lime Kiln
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
06/13/13 10:11

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 AWE0145 - EPA 245.1

Blank (AWE0145-BLK1)					Prepared & Analyzed: 05/13/13						
Dissolved Mercury	0.0813	0.200	0.0460	ug/l							J

LCS (AWE0145-BS1)					Prepared & Analyzed: 05/13/13						
Dissolved Mercury	7.64	0.200	0.0460	ug/l	6.67		115	85-115			

LCS Dup (AWE0145-BS1)					Prepared & Analyzed: 05/13/13						
Dissolved Mercury	7.55	0.200	0.0460	ug/l	6.67		113	85-115	1.23	20	

Matrix Spike (AWE0145-MS1)			Source: 1305135-03		Prepared & Analyzed: 05/13/13						
Dissolved Mercury	7.07	0.200	0.0460	ug/l	6.67	ND	106	75-125			

Matrix Spike Dup (AWE0145-MSD1)			Source: 1305135-03		Prepared & Analyzed: 05/13/13						
Dissolved Mercury	7.05	0.200	0.0460	ug/l	6.67	ND	106	75-125	0.189	20	

Batch AWE0169 - EPA 200.7

Blank (AWE0169-BLK1)					Prepared: 05/14/13 Analyzed: 05/16/13						
Dissolved Antimony	ND	10.0	1.3	ug/l							
Dissolved Sodium	ND	200	120	"							
Dissolved Arsenic	ND	10.0	1.0	"							
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 Calcium	ND	100	79.0	"							
Dissolved Chromium	0.600	5.0	0.3	"							J
Dissolved Cobalt	ND	5.0	0.2	"							
Dissolved Copper	1.20	5.0	0.8	"							J
Dissolved Lead	ND	5.0	0.9	"							
Dissolved Molybdenum	ND	5.0	0.8	"							
Dissolved Nickel	0.700	5.0	0.6	"							J
Dissolved Magnesium	ND	50.0	15.6	"							
Dissolved Selenium	ND	20.0	1.3	"							
Dissolved Silver	ND	5.0	0.4	"							
Dissolved Thallium	ND	20.0	2.2	"							
Dissolved Vanadium	ND	5.0	0.2	"							
Dissolved Zinc	3.50	10.0	0.3	"							J

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Laboratory Representative

Excelchem Environmental Labs

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

Project: Lime Kiln
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
06/13/13 10:11

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 AWE0169 - EPA 200.7

LCS (AWE0169-BS1)

Prepared: 05/14/13 Analyzed: 05/16/13

Dissolved Antimony	1010	10.0	1.3	ug/l	1000		101	85-115			
Dissolved Sodium	1070	200	120	"	1000		107	85-115			
Dissolved Potassium	10000	200	46.8	"	10000		100	85-115			
Dissolved Arsenic	939	10.0	1.0	"	1000		93.9	85-115			
Dissolved Barium	965	5.0	1.2	"	1000		96.5	85-115			
Dissolved Beryllium	1000	5.0	0.09	"	1000		100	85-115			
Dissolved Cadmium	989	5.0	0.1	"	1000		98.9	85-115			
Dissolved Calcium	857	100	79.0	"	1000		85.7	85-115			
Dissolved Chromium	1020	5.0	0.3	"	1000		102	85-115			
Dissolved Cobalt	1000	5.0	0.2	"	1000		100	85-115			
Dissolved Copper	990	5.0	0.8	"	1000		99.0	85-115			
Dissolved Lead	985	5.0	0.9	"	1000		98.5	85-115			
Dissolved Molybdenum	1010	5.0	0.8	"	1000		101	85-115			
Dissolved Nickel	964	5.0	0.6	"	1000		96.4	85-115			
Dissolved Selenium	1010	20.0	1.3	"	1000		101	85-115			
Dissolved Magnesium	981	50.0	15.6	"	1000		98.1	85-115			
Dissolved Silver	973	5.0	0.4	"	1000		97.3	85-115			
Dissolved Thallium	940	20.0	2.2	"	1000		94.0	85-115			
Dissolved Vanadium	988	5.0	0.2	"	1000		98.8	85-115			
Dissolved Zinc	951	10.0	0.3	"	1000		95.1	85-115			

LCS Dup (AWE0169-BSD1)

Prepared: 05/14/13 Analyzed: 05/16/13

Dissolved Antimony	1020	10.0	1.3	ug/l	1000		102	85-115	1.08	20	
Dissolved Sodium	961	200	120	"	1000		96.1	85-115	11.1	20	
Dissolved Potassium	10200	200	46.8	"	10000		102	85-115	2.07	20	
Dissolved Arsenic	938	10.0	1.0	"	1000		93.8	85-115	0.0959	20	
Dissolved Barium	963	5.0	1.2	"	1000		96.3	85-115	0.176	20	
Dissolved Beryllium	1010	5.0	0.09	"	1000		101	85-115	0.993	20	
Dissolved Cadmium	999	5.0	0.1	"	1000		99.9	85-115	1.02	20	
Dissolved Chromium	1030	5.0	0.3	"	1000		103	85-115	1.27	20	
Dissolved Calcium	887	100	79.0	"	1000		88.7	85-115	3.40	20	
Dissolved Cobalt	1010	5.0	0.2	"	1000		101	85-115	1.14	20	
Dissolved Copper	997	5.0	0.8	"	1000		99.7	85-115	0.634	20	
Dissolved Lead	992	5.0	0.9	"	1000		99.2	85-115	0.728	20	
Dissolved Molybdenum	1020	5.0	0.8	"	1000		102	85-115	1.18	20	
Dissolved Nickel	970	5.0	0.6	"	1000		97.0	85-115	0.589	20	
Dissolved Selenium	1020	20.0	1.3	"	1000		102	85-115	1.28	20	
Dissolved Magnesium	988	50.0	15.6	"	1000		98.8	85-115	0.721	20	
Dissolved Silver	980	5.0	0.4	"	1000		98.0	85-115	0.727	20	

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Laboratory Representative

Excelchem Environmental Labs

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

Project: Lime Kiln
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
06/13/13 10:11

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 AWE0169 - EPA 200.7

LCS Dup (AWE0169-BSD1)

Prepared: 05/14/13 Analyzed: 05/16/13

Dissolved Thallium	944	20.0	2.2	ug/l	1000		94.4	85-115	0.371	20	
Dissolved Vanadium	1000	5.0	0.2	"	1000		100	85-115	1.28	20	
Dissolved Zinc	954	10.0	0.3	"	1000		95.4	85-115	0.325	20	

Matrix Spike (AWE0169-MS1)

Source: 1305135-01

Prepared: 05/14/13 Analyzed: 05/16/13

Dissolved Antimony	1050	10.0	1.3	ug/l	1000	ND	105	75-125			
Dissolved Arsenic	986	10.0	1.0	"	1000	5.70	98.0	75-125			
Dissolved Potassium	24800	200	46.8	"	10000	2990	218	75-125			QL-01
Dissolved Sodium	8010	200	120	"	1000	6560	145	75-125			QL-01
Dissolved Barium	1970	5.0	1.2	"	1000	21.4	195	75-125			QL-01
Dissolved Beryllium	1060	5.0	0.09	"	1000	0.100	106	75-125			
Dissolved Cadmium	1020	5.0	0.1	"	1000	0.300	102	75-125			
Dissolved Calcium	46000	100	79.0	"	1000	44000	207	75-125			QL-01
Dissolved Chromium	1050	5.0	0.3	"	1000	1.30	104	75-125			
Dissolved Cobalt	1010	5.0	0.2	"	1000	0.300	101	75-125			
Dissolved Copper	993	5.0	0.8	"	1000	3.10	99.0	75-125			
Dissolved Lead	979	5.0	0.9	"	1000	ND	97.9	75-125			
Dissolved Molybdenum	1060	5.0	0.8	"	1000	9.20	105	75-125			
Dissolved Nickel	973	5.0	0.6	"	1000	1.40	97.2	75-125			
Dissolved Magnesium	7750	50.0	15.6	"	1000	6830	92.1	75-125			
Dissolved Selenium	1060	20.0	1.3	"	1000	ND	106	75-125			
Dissolved Silver	1950	5.0	0.4	"	1000	ND	195	75-125			QL-01
Dissolved Thallium	916	20.0	2.2	"	1000	ND	91.6	75-125			
Dissolved Vanadium	1010	5.0	0.2	"	1000	4.30	101	75-125			
Dissolved Zinc	975	10.0	0.3	"	1000	6.40	96.8	75-125			

Matrix Spike Dup (AWE0169-MSD1)

Source: 1305135-01

Prepared: 05/14/13 Analyzed: 05/16/13

Dissolved Antimony	1020	10.0	1.3	ug/l	1000	ND	102	75-125	2.70	25	
Dissolved Sodium	7320	200	120	"	1000	6560	75.6	75-125	9.08	25	
Dissolved Potassium	14000	200	46.8	"	10000	2990	110	75-125	55.9	25	QL-01
Dissolved Arsenic	958	10.0	1.0	"	1000	5.70	95.2	75-125	2.85	25	
Dissolved Barium	977	5.0	1.2	"	1000	21.4	95.6	75-125	67.5	25	QL-01
Dissolved Beryllium	1030	5.0	0.09	"	1000	0.100	103	75-125	2.78	25	
Dissolved Cadmium	999	5.0	0.1	"	1000	0.300	99.8	75-125	2.60	25	
Dissolved Calcium	48400	100	79.0	"	1000	44000	447	75-125	5.08	25	QL-01
Dissolved Chromium	1020	5.0	0.3	"	1000	1.30	102	75-125	2.52	25	
Dissolved Cobalt	985	5.0	0.2	"	1000	0.300	98.5	75-125	2.51	25	
Dissolved Copper	967	5.0	0.8	"	1000	3.10	96.4	75-125	2.65	25	
Dissolved Lead	955	5.0	0.9	"	1000	ND	95.5	75-125	2.51	25	
Dissolved Molybdenum	1030	5.0	0.8	"	1000	9.20	102	75-125	2.59	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: Lime Kiln Project Number: [none] Project Manager: Kathy Amaru	Date Reported: 06/13/13 10:11
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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 AWE0169 - EPA 200.7

Matrix Spike Dup (AWE0169-MSD1)	Source: 1305135-01			Prepared: 05/14/13 Analyzed: 05/16/13							
Dissolved Nickel	948	5.0	0.6	ug/l	1000	1.40	94.7	75-125	2.62	25	
Dissolved Magnesium	8100	50.0	15.6	"	1000	6830	127	75-125	4.44	25	QL-01
Dissolved Selenium	1020	20.0	1.3	"	1000	ND	102	75-125	3.17	25	
Dissolved Silver	951	5.0	0.4	"	1000	ND	95.1	75-125	68.8	25	QL-01
Dissolved Thallium	899	20.0	2.2	"	1000	ND	89.9	75-125	1.88	25	
Dissolved Vanadium	988	5.0	0.2	"	1000	4.30	98.4	75-125	2.39	25	
Dissolved Zinc	946	10.0	0.3	"	1000	6.40	94.0	75-125	2.96	25	

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: Lime Kiln
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
06/13/13 10:11

Notes and Definitions

- R-07 This sample was diluted due to matrix interference, resulting in elevated reporting limits
- QL-01 Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values.
- QB-01 The method blank contains analyte at a concentration above the MRL; however, concentration is less than 10% of the sample result, which is negligible according to method criteria.
- 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: Lime Kiln
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
06/13/13 10:11

Sample Integrity

WORK ORDER BOS135

Date Received: 5/8/13

Section 1 - Sample Arrival Info.

Sample Transport: ONTRAC UPS USPS Walk-In EXCEL-CHEM 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? Y N Samples Received: Chilled to Touch Ambient On Ice

Temperature of Samples (°C): 14 Ice Chest Temperature(s) (°C): 14

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"/>		Use labels, time - 1-1015
Were correct containers used for the tests requested?	<input checked="" type="checkbox"/>			1A-1000, 2-1015, 2A-1100
Were correct preservations used for the tests requested?		<input checked="" type="checkbox"/>		Buffer = Cr+6, HNO3 = Total Metals
Was a sufficient amount of sample sent for tests indicated?		<input checked="" type="checkbox"/>		ENOUGH FOR ONE RUN
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.

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"/>	<input checked="" type="checkbox"/>	No metals listed
Date Sampled	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	pH
Time Sampled	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	pH, Cr+6
Sample ID	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Rush CAT		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Analysis Requested				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Samples arrived within holding time				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Any hold times less than 72 hrs				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Client Name				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Address/Telephone #				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Section 5 - Comments / Discrepancies

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

Explanations / Comments:

Samples Labeled by: QA

Bin #: P16

COC Scanned/Attached by: QA

Sample labels reviewed by:

Filled: [Signature]
Out by:

Date: 5/8/13
Time: 1605

Excelchem Environmental Lab.

[Signature]

Laboratory Representative

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Excelchem Environmental Labs

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

Project: Lime Kiln
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
06/13/13 10:11

Page 1 of 1

Front Desk

From: Amaru, Kathy@Waterboards [Kathy.Amaru@waterboards.ca.gov]
Sent: Thursday, May 09, 2013 1:33 PM
To: Front Desk
Subject: RE: Project Lime Kiln Site, WO #1305135

YES! Correct. Sorry for the confusion..

From: Front Desk [mailto:FrontDesk@excelchem.net]
Sent: Thursday, May 09, 2013 11:30 AM
To: Amaru, Kathy@Waterboards
Subject: Project Lime Kiln Site, WO #1305135

Hello Kathy,

Total and dissolved metals are listed on the COC. You would like CAM 17, correct?

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

5/9/2013

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: Lime Kiln
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
06/13/13 10:11

Page 1 of 2

Front Desk

From: Amaru, Kathy@Waterboards [mailto:Kathy.Amaru@waterboards.ca.gov]
Sent: Tuesday, May 21, 2013 1:20 PM
To: Front Desk
Subject: RE: Final Report for Project Lime Kiln, WO# 1305135

Yes. Please proceed.
Thanks much!
KATHY

Kathleen Amaru, PG, CEG
Central Valley Regional Water Quality Control Board
11020 Sun Center Drive, Suite 200
Rancho Cordova, CA 95670

916-464-4607

From: Front Desk [mailto:FrontDesk@excelchem.net]
Sent: Tuesday, May 21, 2013 1:20 PM
To: Amaru, Kathy@Waterboards
Subject: RE: Final Report for Project Lime Kiln, WO# 1305135

Hello Kathy,

We have enough sample for all 6 samples to analyze carbonate alkalinity and sulfate. We will proceed. Please authorize.

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

From: Amaru, Kathy@Waterboards [mailto:Kathy.Amaru@waterboards.ca.gov]
Sent: Tuesday, May 21, 2013 12:31 PM
To: Front Desk
Subject: RE: Final Report for Project Lime Kiln, WO# 1305135

Thanks Sonja!
Regards,
Kathy

5/21/2013

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: Lime Kiln
Project Number: [none]
Project Manager: Kathy Amaru

Date Reported:
06/13/13 10:11

Page 1 of 1

Front Desk

From: Front Desk
Sent: Friday, May 24, 2013 11:28 AM
To: "Valadez, Leticia@Waterboards"; "Amaru, Kathy@Waterboards"
Subject: Project Lime Kiln, WO #1305135

Hello,

Per our conversation, you would like to add:

- Ca, Mg, K, Na total to samples 02, 04, 06
- Ca, Mg, K, Na dissolved to samples 01, 03, 05

Please confirm

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

5/29/2013

Excelchem Environmental Lab.



Laboratory Representative

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