

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

12 February 2016

CLS Work Order #: CZB0058

COC #:

Greg Stanton
El Dorado County Environmental

2850 Fairlane Court, Building C
Placerville, CA 95667

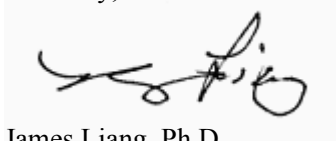
Project Name: Former Lime Plant

Enclosed are the results of analyses for samples received by the laboratory on 02/01/16 14:47. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness. Any comments and exceptions are addressed below as well as under the Notes and Definitions section.

Revision Remarks: The Anion balance was poor, therefore we re-ran samples -02, -10 and -11. Enclosed please find the revised report.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

A handwritten signature in black ink, appearing to read 'James Liang', is placed over a light gray rectangular background.

James Liang, Ph.D.
Laboratory Director

CALIFORNIA LABORATORY SERVICES

02/12/16 09:34

El Dorado County Environmental
2850 Fairlane Court, Building C
Placerville CA, 95667

Project: Former Lime Plant
Project Number: 037-C-0607-BOS
Project Manager: Greg Stanton

CLS Work Order #: CZB0058
COC #:

CAM 17 Metals (Dissolved Metals)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lime-2 (CZB0058-02) Water Sampled: 02/01/16 11:46 Received: 02/01/16 14:47										
Antimony	ND	2.2	50	µg/L	1	CZ00785	02/02/16	02/02/16	EPA 200.7	
Arsenic	0.38	0.27	5.0	"	1	CZ00766	02/02/16	02/02/16	EPA 200.8	J
Barium	54	1.5	20	"	1	CZ00785	02/02/16	02/02/16	EPA 200.7	
Beryllium	ND	0.18	5.0	"	1	"	"	"	"	
Cadmium	ND	1.8	10	"	1	"	"	"	"	
Chromium	5.5	1.6	20	"	1	"	"	"	"	J
Cobalt	ND	2.5	20	"	1	"	"	"	"	
Copper	3.2	3.1	20	"	1	"	"	"	"	J
Lead	0.29	0.23	5.0	"	1	CZ00766	02/02/16	02/02/16	EPA 200.8	J
Mercury	ND	0.15	0.20	"	1	CZ00803	02/03/16	02/04/16	EPA 245.1	
Molybdenum	8.6	3.6	20	"	1	CZ00785	02/02/16	02/02/16	EPA 200.7	J
Nickel	3.4	2.9	20	"	1	"	"	"	"	J
Selenium	ND	1.1	5.0	"	1	CZ00766	02/02/16	02/02/16	EPA 200.8	
Silver	0.030		10	"	1	"	"	"	"	J
Thallium	0.35	0.11	10	"	1	"	"	"	"	J
Vanadium	ND	3.9	20	"	1	CZ00785	02/02/16	02/02/16	EPA 200.7	
Zinc	4.0	1.9	20	"	1	"	"	"	"	J
Lime-7 (CZB0058-07) Water Sampled: 02/01/16 12:56 Received: 02/01/16 14:47										
Antimony	ND	2.2	50	µg/L	1	CZ00785	02/02/16	02/02/16	EPA 200.7	
Arsenic	0.67	0.27	5.0	"	1	CZ00766	02/02/16	02/02/16	EPA 200.8	J
Barium	41	1.5	20	"	1	CZ00785	02/02/16	02/02/16	EPA 200.7	
Beryllium	ND	0.18	5.0	"	1	"	"	"	"	
Cadmium	ND	1.8	10	"	1	"	"	"	"	
Chromium	2.3	1.6	20	"	1	"	"	"	"	J
Cobalt	ND	2.5	20	"	1	"	"	"	"	
Copper	9.3	3.1	20	"	1	"	"	"	"	J
Lead	7.3	0.23	5.0	"	1	CZ00766	02/02/16	02/02/16	EPA 200.8	
Mercury	0.33	0.15	0.20	"	1	CZ00803	02/03/16	02/04/16	EPA 245.1	
Molybdenum	12	3.6	20	"	1	CZ00785	02/02/16	02/02/16	EPA 200.7	J
Nickel	16	2.9	20	"	1	"	"	"	"	J
Selenium	1.5	1.1	5.0	"	1	CZ00766	02/02/16	02/02/16	EPA 200.8	J
Silver	0.030		10	"	1	"	"	"	"	J
Thallium	0.20	0.11	10	"	1	"	"	"	"	J
Vanadium	ND	3.9	20	"	1	CZ00785	02/02/16	02/02/16	EPA 200.7	
Zinc	12	1.9	20	"	1	"	"	"	"	J

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

02/12/16 09:34

El Dorado County Environmental
2850 Fairlane Court, Building C
Placerville CA, 95667

Project: Former Lime Plant
Project Number: 037-C-0607-BOS
Project Manager: Greg Stanton

CLS Work Order #: CZB0058
COC #:

CAM 17 Metals (Dissolved Metals)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lime-8 (CZB0058-08) Water Sampled: 02/01/16 13:05 Received: 02/01/16 14:47										
Antimony	3.4	2.2	50	µg/L	1	CZ00785	02/02/16	02/02/16	EPA 200.7	J
Arsenic	0.91	0.27	5.0	"	1	CZ00766	02/02/16	02/02/16	EPA 200.8	J
Barium	23	1.5	20	"	1	CZ00785	02/02/16	02/02/16	EPA 200.7	
Beryllium	0.18	0.18	5.0	"	1	"	"	"	"	J
Cadmium	ND	1.8	10	"	1	"	"	"	"	
Chromium	ND	1.6	20	"	1	"	"	"	"	
Cobalt	ND	2.5	20	"	1	"	"	"	"	
Copper	ND	3.1	20	"	1	"	"	"	"	
Lead	ND	0.23	5.0	"	1	CZ00766	02/02/16	02/02/16	EPA 200.8	
Mercury	ND	0.15	0.20	"	1	CZ00803	02/03/16	02/04/16	EPA 245.1	
Molybdenum	9.3	3.6	20	"	1	CZ00785	02/02/16	02/02/16	EPA 200.7	J
Nickel	5.9	2.9	20	"	1	"	"	"	"	J
Selenium	ND	1.1	5.0	"	1	CZ00766	02/02/16	02/02/16	EPA 200.8	
Silver	0.030		10	"	1	"	"	"	"	J
Thallium	0.31	0.11	10	"	1	"	"	"	"	J
Vanadium	ND	3.9	20	"	1	CZ00785	02/02/16	02/02/16	EPA 200.7	
Zinc	4.2	1.9	20	"	1	"	"	"	"	J

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CALIFORNIA LABORATORY SERVICES

02/12/16 09:34

El Dorado County Environmental 2850 Fairlane Court, Building C Placerville CA, 95667	Project: Former Lime Plant Project Number: 037-C-0607-BOS Project Manager: Greg Stanton	CLS Work Order #: CZB0058 COC #:
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Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lime-1 (CZB0058-01) Water Sampled: 02/01/16 11:33 Received: 02/01/16 14:47										
Bicarbonate as CaCO3	150	0.50	5.0	mg/L	1	CZ00786	02/02/16	02/02/16	SM2320B	
Calcium	64	0.031	1.0	"	1	CZ00820	02/03/16	02/03/16	200.7/2340B	
Carbonate as CaCO3	ND	0.50	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Chloride	7.7	0.026	0.50	"	1	CZ00762	02/02/16	02/02/16	EPA 300.0	
Fluoride	ND	0.0079	0.10	"	1	"	"	"	"	
Hardness as CaCO3	240	1.0	1.0	"	1	CZ00820	02/03/16	02/03/16	200.7/2340B	
Hydroxide as CaCO3	ND	0.50	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Magnesium	20	0.028	1.0	"	1	CZ00820	02/03/16	02/03/16	200.7/2340B	
MBAS as LAS, mol wt 340	0.11	0.067	0.10	"	1	CZ00770	02/02/16	02/02/16	SM5540 C	
Nitrate as N	3.8	0.053	0.40	"	1	CZ00762	02/02/16	02/02/16	EPA 300.0	
pH	8.05	0.01	0.01	pH Units	1	CZ00761	02/02/16	02/02/16	SM4500-H B	HT-F
Potassium	5.8	0.87	1.0	mg/L	1	CZ00820	02/03/16	02/03/16	200.7/2340B	
Sodium	16	0.021	1.0	"	1	"	"	"	"	
Specific Conductance (EC)	520	0.090	1.0	µmhos/cm	1	CZ00768	02/02/16	02/02/16	EPA 120.1	
Sulfate as SO4	110	0.19	2.5	mg/L	5	CZ00762	02/02/16	02/02/16	EPA 300.0	
Total Alkalinity	150	1.0	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Total Dissolved Solids	340	10	10	"	1	CZ00769	02/02/16	02/03/16	SM2540C	
Lime-2 (CZB0058-02) Water Sampled: 02/01/16 11:46 Received: 02/01/16 14:47										
Bicarbonate as CaCO3	ND	0.50	5.0	mg/L	1	CZ00786	02/02/16	02/02/16	SM2320B	
Calcium	200	0.031	1.0	"	1	CZ00785	02/02/16	02/09/16	200.7/2340B	
Carbonate as CaCO3	140	0.50	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Chloride	2.7	0.026	0.50	"	1	CZ00762	02/02/16	02/02/16	EPA 300.0	
Fluoride	0.22	0.0079	0.10	"	1	"	"	"	"	
Hardness as CaCO3	510	1.0	1.0	"	1	CZ00785	02/02/16	02/09/16	200.7/2340B	
Hydroxide as CaCO3	360	0.50	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Magnesium	3.7	0.028	1.0	"	1	CZ00785	02/02/16	02/09/16	200.7/2340B	
MBAS as LAS, mol wt 340	ND	0.067	0.10	"	1	CZ00770	02/02/16	02/02/16	SM5540 C	
Nitrate as N	0.42	0.053	0.40	"	1	CZ00762	02/02/16	02/02/16	EPA 300.0	
pH	11.82	0.01	0.01	pH Units	1	CZ00761	02/02/16	02/02/16	SM4500-H B	HT-F
Potassium	1.4	0.87	1.0	mg/L	1	CZ00785	02/02/16	02/09/16	200.7/2340B	
Sodium	8.0	0.021	1.0	"	1	"	"	"	"	
Specific Conductance (EC)	1900	0.090	1.0	µmhos/cm	1	CZ00768	02/02/16	02/02/16	EPA 120.1	
Sulfate as SO4	25	0.038	0.50	mg/L	1	CZ00762	02/02/16	02/02/16	EPA 300.0	
Total Alkalinity	490	1.0	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Total Dissolved Solids	480	10	10	"	1	CZ00769	02/02/16	02/03/16	SM2540C	

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El Dorado County Environmental
2850 Fairlane Court, Building C
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Project: Former Lime Plant
Project Number: 037-C-0607-BOS
Project Manager: Greg Stanton

CLS Work Order #: CZB0058
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lime-3 (CZB0058-03) Water Sampled: 02/01/16 11:59 Received: 02/01/16 14:47										
Bicarbonate as CaCO3	ND	0.50	5.0	mg/L	1	CZ00786	02/02/16	02/02/16	SM2320B	
Calcium	150	0.062	2.0	"	2	CZ00820	02/03/16	02/03/16	200.7/2340B	
Carbonate as CaCO3	68	0.50	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Chloride	5.6	0.026	0.50	"	1	CZ00762	02/02/16	02/02/16	EPA 300.0	
Fluoride	ND	0.0079	0.10	"	1	"	"	"	"	
Hardness as CaCO3	390	1.0	1.0	"	1	CZ00820	02/03/16	02/03/16	200.7/2340B	
Hydroxide as CaCO3	280	0.50	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Magnesium	1.2	0.028	1.0	"	1	CZ00820	02/03/16	02/03/16	200.7/2340B	
MBAS as LAS, mol wt 340	0.071	0.067	0.10	"	1	CZ00770	02/02/16	02/02/16	SM5540 C	J
Nitrate as N	2.6	0.053	0.40	"	1	CZ00762	02/02/16	02/02/16	EPA 300.0	
pH	11.65	0.01	0.01	pH Units	1	CZ00761	02/02/16	02/02/16	SM4500-H B	HT-F
Potassium	3.6	0.87	1.0	mg/L	1	CZ00820	02/03/16	02/03/16	200.7/2340B	
Sodium	14	0.021	1.0	"	1	"	"	"	"	
Specific Conductance (EC)	1300	0.090	1.0	µmhos/cm	1	CZ00768	02/02/16	02/02/16	EPA 120.1	
Sulfate as SO4	70	0.38	5.0	mg/L	10	CZ00762	02/02/16	02/02/16	EPA 300.0	
Total Alkalinity	350	1.0	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Total Dissolved Solids	390	10	10	"	1	CZ00769	02/02/16	02/03/16	SM2540C	
Lime-4 (CZB0058-04) Water Sampled: 02/01/16 12:24 Received: 02/01/16 14:47										
Bicarbonate as CaCO3	ND	0.50	5.0	mg/L	1	CZ00786	02/02/16	02/02/16	SM2320B	
Calcium	190	0.062	2.0	"	2	CZ00820	02/03/16	02/03/16	200.7/2340B	
Carbonate as CaCO3	70	0.50	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Chloride	4.6	0.026	0.50	"	1	CZ00762	02/02/16	02/02/16	EPA 300.0	
Fluoride	0.22	0.0079	0.10	"	1	"	"	"	"	
Hardness as CaCO3	470	1.0	1.0	"	1	CZ00820	02/03/16	02/03/16	200.7/2340B	
Hydroxide as CaCO3	410	0.50	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Magnesium	0.68	0.028	1.0	"	1	CZ00820	02/03/16	02/03/16	200.7/2340B	J
MBAS as LAS, mol wt 340	ND	0.067	0.10	"	1	CZ00770	02/02/16	02/02/16	SM5540 C	
Nitrate as N	1.9	0.053	0.40	"	1	CZ00762	02/02/16	02/02/16	EPA 300.0	
pH	11.83	0.01	0.01	pH Units	1	CZ00761	02/02/16	02/02/16	SM4500-H B	HT-F
Potassium	2.7	0.87	1.0	mg/L	1	CZ00820	02/03/16	02/03/16	200.7/2340B	
Sodium	12	0.021	1.0	"	1	"	"	"	"	
Specific Conductance (EC)	2200	0.090	1.0	µmhos/cm	1	CZ00768	02/02/16	02/02/16	EPA 120.1	
Sulfate as SO4	49	0.38	5.0	mg/L	10	CZ00762	02/02/16	02/02/16	EPA 300.0	
Total Alkalinity	480	1.0	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Total Dissolved Solids	520	10	10	"	1	CZ00769	02/02/16	02/03/16	SM2540C	

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02/12/16 09:34

El Dorado County Environmental 2850 Fairlane Court, Building C Placerville CA, 95667	Project: Former Lime Plant Project Number: 037-C-0607-BOS Project Manager: Greg Stanton	CLS Work Order #: CZB0058 COC #:
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Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lime-5 (CZB0058-05) Water Sampled: 02/01/16 12:35 Received: 02/01/16 14:47										
Bicarbonate as CaCO3	200	0.50	5.0	mg/L	1	CZ00786	02/02/16	02/02/16	SM2320B	
Calcium	89	0.031	1.0	"	1	CZ00820	02/03/16	02/03/16	200.7/2340B	
Carbonate as CaCO3	ND	0.50	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Chloride	5.0	0.026	0.50	"	1	CZ00762	02/02/16	02/02/16	EPA 300.0	
Fluoride	ND	0.0079	0.10	"	1	"	"	"	"	
Hardness as CaCO3	270	1.0	1.0	"	1	CZ00820	02/03/16	02/03/16	200.7/2340B	
Hydroxide as CaCO3	ND	0.50	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Magnesium	11	0.028	1.0	"	1	CZ00820	02/03/16	02/03/16	200.7/2340B	
MBAS as LAS, mol wt 340	ND	0.067	0.10	"	1	CZ00770	02/02/16	02/02/16	SM5540 C	
Nitrate as N	0.13	0.053	0.40	"	1	CZ00762	02/02/16	02/02/16	EPA 300.0	J
pH	8.63	0.01	0.01	pH Units	1	CZ00761	02/02/16	02/02/16	SM4500-H B	HT-F
Potassium	1.8	0.87	1.0	mg/L	1	CZ00820	02/03/16	02/03/16	200.7/2340B	
Sodium	9.7	0.021	1.0	"	1	"	"	"	"	
Specific Conductance (EC)	520	0.090	1.0	µmhos/cm	1	CZ00768	02/02/16	02/02/16	EPA 120.1	
Sulfate as SO4	71	0.19	2.5	mg/L	5	CZ00762	02/02/16	02/02/16	EPA 300.0	
Total Alkalinity	200	1.0	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Total Dissolved Solids	340	10	10	"	1	CZ00769	02/02/16	02/03/16	SM2540C	
Lime-6 (CZB0058-06) Water Sampled: 02/01/16 12:45 Received: 02/01/16 14:47										
Bicarbonate as CaCO3	190	0.50	5.0	mg/L	1	CZ00786	02/02/16	02/02/16	SM2320B	
Calcium	85	0.031	1.0	"	1	CZ00820	02/03/16	02/03/16	200.7/2340B	
Carbonate as CaCO3	9.2	0.50	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Chloride	5.0	0.026	0.50	"	1	CZ00762	02/02/16	02/02/16	EPA 300.0	
Fluoride	ND	0.0079	0.10	"	1	"	"	"	"	
Hardness as CaCO3	260	1.0	1.0	"	1	CZ00820	02/03/16	02/03/16	200.7/2340B	
Hydroxide as CaCO3	ND	0.50	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Magnesium	11	0.028	1.0	"	1	CZ00820	02/03/16	02/03/16	200.7/2340B	
MBAS as LAS, mol wt 340	ND	0.067	0.10	"	1	CZ00770	02/02/16	02/02/16	SM5540 C	
Nitrate as N	0.13	0.053	0.40	"	1	CZ00762	02/02/16	02/02/16	EPA 300.0	J
pH	8.44	0.01	0.01	pH Units	1	CZ00761	02/02/16	02/02/16	SM4500-H B	HT-F
Potassium	1.7	0.87	1.0	mg/L	1	CZ00820	02/03/16	02/03/16	200.7/2340B	
Sodium	9.3	0.021	1.0	"	1	"	"	"	"	
Specific Conductance (EC)	530	0.090	1.0	µmhos/cm	1	CZ00768	02/02/16	02/02/16	EPA 120.1	
Sulfate as SO4	71	0.19	2.5	mg/L	5	CZ00762	02/02/16	02/02/16	EPA 300.0	
Total Alkalinity	200	1.0	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Total Dissolved Solids	310	10	10	"	1	CZ00769	02/02/16	02/03/16	SM2540C	

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02/12/16 09:34

El Dorado County Environmental
2850 Fairlane Court, Building C
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Project: Former Lime Plant
Project Number: 037-C-0607-BOS
Project Manager: Greg Stanton

CLS Work Order #: CZB0058
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit	Units						
Lime-7 (CZB0058-07) Water Sampled: 02/01/16 12:56 Received: 02/01/16 14:47										
Bicarbonate as CaCO3	ND	0.50	5.0	mg/L	1	CZ00786	02/02/16	02/02/16	SM2320B	
Calcium	450	0.31	10	"	10	CZ00785	02/02/16	02/03/16	200.7/2340B	
Carbonate as CaCO3	52	0.50	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Chloride	2.9	0.026	0.50	"	1	CZ00762	02/02/16	02/02/16	EPA 300.0	
Fluoride	0.40	0.0079	0.10	"	1	"	"	"	"	
Hardness as CaCO3	1100	1.0	1.0	"	1	CZ00785	02/02/16	02/02/16	200.7/2340B	
Hydroxide as CaCO3	1300	0.50	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Magnesium	ND	0.028	1.0	"	1	CZ00785	02/02/16	02/02/16	200.7/2340B	
MBAS as LAS, mol wt 340	0.069	0.067	0.10	"	1	CZ00770	02/02/16	02/02/16	SM5540 C	J
Nitrate as N	0.54	0.053	0.40	"	1	CZ00762	02/02/16	02/02/16	EPA 300.0	
pH	12.21	0.01	0.01	pH Units	1	CZ00761	02/02/16	02/02/16	SM4500-H B	HT-F
Potassium	2.2	0.87	1.0	mg/L	1	CZ00785	02/02/16	02/02/16	200.7/2340B	
Sodium	6.4	0.021	1.0	"	1	"	"	"	"	
Specific Conductance (EC)	4900	0.090	1.0	µmhos/cm	1	CZ00768	02/02/16	02/02/16	EPA 120.1	
Sulfate as SO4	110	0.38	5.0	mg/L	10	CZ00762	02/02/16	02/02/16	EPA 300.0	
Total Alkalinity	1300	1.0	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Total Dissolved Solids	1300	10	10	"	1	CZ00769	02/02/16	02/03/16	SM2540C	
Lime-8 (CZB0058-08) Water Sampled: 02/01/16 13:05 Received: 02/01/16 14:47										
Bicarbonate as CaCO3	140	0.50	5.0	mg/L	1	CZ00786	02/02/16	02/02/16	SM2320B	
Calcium	65	0.031	1.0	"	1	CZ00785	02/02/16	02/02/16	200.7/2340B	
Carbonate as CaCO3	ND	0.50	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Chloride	3.6	0.026	0.50	"	1	CZ00762	02/02/16	02/02/16	EPA 300.0	
Fluoride	ND	0.0079	0.10	"	1	"	"	"	"	
Hardness as CaCO3	200	1.0	1.0	"	1	CZ00785	02/02/16	02/02/16	200.7/2340B	
Hydroxide as CaCO3	ND	0.50	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Magnesium	7.9	0.028	1.0	"	1	CZ00785	02/02/16	02/02/16	200.7/2340B	
MBAS as LAS, mol wt 340	ND	0.067	0.10	"	1	CZ00770	02/02/16	02/02/16	SM5540 C	
Nitrate as N	0.22	0.053	0.40	"	1	CZ00762	02/02/16	02/02/16	EPA 300.0	J
pH	7.87	0.01	0.01	pH Units	1	CZ00761	02/02/16	02/02/16	SM4500-H B	HT-F
Potassium	2.3	0.87	1.0	mg/L	1	CZ00785	02/02/16	02/02/16	200.7/2340B	
Sodium	6.9	0.021	1.0	"	1	"	"	"	"	
Specific Conductance (EC)	420	0.090	1.0	µmhos/cm	1	CZ00768	02/02/16	02/02/16	EPA 120.1	
Sulfate as SO4	61	0.19	2.5	mg/L	5	CZ00762	02/02/16	02/02/16	EPA 300.0	
Total Alkalinity	140	1.0	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Total Dissolved Solids	240	10	10	"	1	CZ00769	02/02/16	02/03/16	SM2540C	

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

02/12/16 09:34

El Dorado County Environmental
2850 Fairlane Court, Building C
Placerville CA, 95667

Project: Former Lime Plant
Project Number: 037-C-0607-BOS
Project Manager: Greg Stanton

CLS Work Order #: CZB0058
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
			Limit	Units						
Lime-9 (CZB0058-09) Water Sampled: 02/01/16 13:15 Received: 02/01/16 14:47										
Bicarbonate as CaCO3	ND	0.50	5.0	mg/L	1	CZ00786	02/02/16	02/02/16	SM2320B	
Calcium	630	0.31	10	"	10	CZ00820	02/03/16	02/04/16	200.7/2340B	
Carbonate as CaCO3	250	0.50	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Chloride	3.0	0.026	0.50	"	1	CZ00762	02/02/16	02/02/16	EPA 300.0	
Fluoride	0.41	0.0079	0.10	"	1	"	"	"	"	
Hardness as CaCO3	1600	1.0	1.0	"	1	CZ00820	02/03/16	02/04/16	200.7/2340B	
Hydroxide as CaCO3	1200	0.50	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Magnesium	ND	0.028	1.0	"	1	CZ00820	02/03/16	02/03/16	200.7/2340B	
MBAS as LAS, mol wt 340	0.074	0.067	0.10	"	1	CZ00770	02/02/16	02/02/16	SM5540 C	J
Nitrate as N	0.58	0.053	0.40	"	1	CZ00762	02/02/16	02/02/16	EPA 300.0	
pH	12.18	0.01	0.01	pH Units	1	CZ00761	02/02/16	02/02/16	SM4500-H B	HT-F
Potassium	1.2	0.87	1.0	mg/L	1	CZ00820	02/03/16	02/03/16	200.7/2340B	
Sodium	6.4	0.021	1.0	"	1	"	"	"	"	
Specific Conductance (EC)	5100	0.090	1.0	µmhos/cm	1	CZ00768	02/02/16	02/02/16	EPA 120.1	
Sulfate as SO4	110	0.38	5.0	mg/L	10	CZ00762	02/02/16	02/02/16	EPA 300.0	
Total Alkalinity	1400	1.0	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Total Dissolved Solids	1200	10	10	"	1	CZ00769	02/02/16	02/03/16	SM2540C	
Lime-2-S (CZB0058-10) Soil Sampled: 02/01/16 11:46 Received: 02/01/16 14:47										
Bicarbonate as CaCO3	230	0.50	5.0	mg/L	1	CZ00787	02/02/16	02/09/16	SM2320B	
Calcium	29		1.0	"	1	CZ00819	02/03/16	02/03/16	EPA 200.7	
Carbonate as CaCO3	94	0.50	5.0	"	1	CZ00787	02/02/16	02/09/16	SM2320B	
Chloride	8.2	0.059	5.0	mg/kg	1	CZ00775	02/02/16	02/03/16	EPA 300.0	
Fluoride	ND	0.086	1.0	"	1	"	"	"	"	
Hardness as CaCO3	78		1.0	mg/L	1	CZ00819	02/03/16	02/03/16	EPA 200.7	
Hydroxide as CaCO3	ND	0.50	5.0	"	1	CZ00787	02/02/16	02/09/16	SM2320B	
Magnesium	1.1		1.0	"	1	CZ00819	02/03/16	02/03/16	EPA 200.7	
MBAS as LAS, mol wt 340	0.44		1.0	mg/kg	1	CZ00806	02/03/16	02/03/16	SM5540 C	J
Nitrate as N	1.2	0.73	5.0	"	1	CZ00775	02/02/16	02/03/16	EPA 300.0	J
pH	10.58	0.01	0.01	pH Units	1	CZ00761	02/02/16	02/02/16	SM4500-H B	HT-F
Potassium	ND		1.0	mg/L	1	CZ00819	02/03/16	02/03/16	EPA 200.7	
Sodium	1.0		1.0	"	1	"	"	"	"	
Specific Conductance (EC)	180	0.090	1.0	µmhos/cm	1	CZ00828	02/03/16	02/03/16	EPA 120.1	
Sulfate as SO4	18		5.0	mg/kg	1	CZ00775	02/02/16	02/03/16	EPA 300.0	
Total Alkalinity	320	1.0	5.0	mg/L	1	CZ00787	02/02/16	02/09/16	SM2320B	
Total Dissolved Solids	110	10	10	"	1	CZ00792	02/03/16	02/04/16	SM2540C	

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

02/12/16 09:34

El Dorado County Environmental
2850 Fairlane Court, Building C
Placerville CA, 95667

Project: Former Lime Plant
Project Number: 037-C-0607-BOS
Project Manager: Greg Stanton

CLS Work Order #: CZB0058
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lime-7-S (CZB0058-11) Soil Sampled: 02/01/16 13:05 Received: 02/01/16 14:47										
Bicarbonate as CaCO3	3.0	0.50	5.0	mg/L	1	CZ00787	02/02/16	02/09/16	SM2320B	J
Calcium	29		1.0	"	1	CZ00819	02/03/16	02/03/16	EPA 200.7	
Carbonate as CaCO3	71	0.50	5.0	"	1	CZ00787	02/02/16	02/09/16	SM2320B	
Chloride	7.6	0.059	5.0	mg/kg	1	CZ00775	02/02/16	02/03/16	EPA 300.0	
Fluoride	1.7	0.086	1.0	"	1	"	"	"	"	
Hardness as CaCO3	79		1.0	mg/L	1	CZ00819	02/03/16	02/03/16	EPA 200.7	
Hydroxide as CaCO3	ND	0.50	5.0	"	1	CZ00787	02/02/16	02/09/16	SM2320B	
Magnesium	1.7		1.0	"	1	CZ00819	02/03/16	02/03/16	EPA 200.7	
MBAS as LAS, mol wt 340	0.96		1.0	mg/kg	1	CZ00806	02/03/16	02/03/16	SM5540 C	J
Nitrate as N	1.3	0.73	5.0	"	1	CZ00775	02/02/16	02/03/16	EPA 300.0	J
pH	10.30	0.01	0.01	pH Units	1	CZ00761	02/02/16	02/02/16	SM4500-H B	HT-F
Potassium	ND		1.0	mg/L	1	CZ00819	02/03/16	02/03/16	EPA 200.7	
Sodium	0.58		1.0	"	1	"	"	"	"	J
Specific Conductance (EC)	99	0.090	1.0	µmhos/cm	1	CZ00828	02/03/16	02/03/16	EPA 120.1	
Sulfate as SO4	29		5.0	mg/kg	1	CZ00775	02/02/16	02/03/16	EPA 300.0	
Total Alkalinity	74	1.0	5.0	mg/L	1	CZ00787	02/02/16	02/09/16	SM2320B	
Total Dissolved Solids	45	10	10	"	1	CZ00792	02/03/16	02/04/16	SM2540C	
Lime-10 (CZB0058-12) Water Sampled: 02/01/16 13:35 Received: 02/01/16 14:47										
Bicarbonate as CaCO3	ND	0.50	5.0	mg/L	1	CZ00786	02/02/16	02/02/16	SM2320B	
Calcium	93	0.031	1.0	"	1	CZ00820	02/03/16	02/03/16	200.7/2340B	
Carbonate as CaCO3	64	0.50	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Chloride	4.7	0.026	0.50	"	1	CZ00762	02/02/16	02/02/16	EPA 300.0	
Fluoride	0.18	0.0079	0.10	"	1	"	"	"	"	
Hardness as CaCO3	240	1.0	1.0	"	1	CZ00820	02/03/16	02/03/16	200.7/2340B	
Hydroxide as CaCO3	310	0.50	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Magnesium	0.52	0.028	1.0	"	1	CZ00820	02/03/16	02/03/16	200.7/2340B	J
MBAS as LAS, mol wt 340	ND	0.067	0.10	"	1	CZ00770	02/02/16	02/02/16	SM5540 C	
Nitrate as N	2.8	0.053	0.40	"	1	CZ00762	02/02/16	02/02/16	EPA 300.0	
pH	11.80	0.01	0.01	pH Units	1	CZ00761	02/02/16	02/02/16	SM4500-H B	HT-F
Potassium	2.4	0.87	1.0	mg/L	1	CZ00820	02/03/16	02/03/16	200.7/2340B	
Sodium	12	0.021	1.0	"	1	"	"	"	"	
Specific Conductance (EC)	1500	0.090	1.0	µmhos/cm	1	CZ00768	02/02/16	02/02/16	EPA 120.1	
Sulfate as SO4	51	0.38	5.0	mg/L	10	CZ00762	02/02/16	02/02/16	EPA 300.0	
Total Alkalinity	380	1.0	5.0	"	1	CZ00786	02/02/16	02/02/16	SM2320B	
Total Dissolved Solids	390	10	10	"	1	CZ00769	02/02/16	02/03/16	SM2540C	

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

02/12/16 09:34

El Dorado County Environmental 2850 Fairlane Court, Building C Placerville CA, 95667	Project: Former Lime Plant Project Number: 037-C-0607-BOS Project Manager: Greg Stanton	CLS Work Order #: CZB0058 COC #:
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CAM 17 Metals (Dissolved Metals) - Quality Control

CLS Labs

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CZ00766 - EPA 3020A

Blank (CZ00766-BLK1)

Prepared & Analyzed: 02/02/16

Arsenic	ND	0.27	5.0	µg/L							
Lead	ND	0.23	5.0	"							
Selenium	ND	1.1	5.0	"							
Silver	0.0100		10	"							J
Thallium	0.170	0.11	10	"							J

LCS (CZ00766-BS1)

Prepared & Analyzed: 02/02/16

Arsenic	95.6	0.27	5.0	µg/L	100		96	85-115			
Lead	100	0.23	5.0	"	100		100	85-115			
Selenium	110	1.1	5.0	"	100		110	85-115			
Silver	102		10	"	100		102	85-115			
Thallium	101	0.11	10	"	100		101	85-115			

Matrix Spike (CZ00766-MS1)

Source: CZA1345-01

Prepared & Analyzed: 02/02/16

Arsenic	85.8	0.27	5.0	µg/L	100	0.740	85	70-130			
Lead	94.3	0.23	5.0	"	100	ND	94	70-130			
Selenium	89.8	1.1	5.0	"	100	ND	90	70-130			
Silver	95.9		10	"	100	0.0600	96	70-130			
Thallium	97.8	0.11	10	"	100	0.950	97	70-130			

Matrix Spike (CZ00766-MS2)

Source: CZB0065-01

Prepared & Analyzed: 02/02/16

Arsenic	93.2	0.27	5.0	µg/L	100	5.83	87	70-130			
Lead	105	0.23	5.0	"	100	0.740	104	70-130			
Selenium	110	1.1	5.0	"	100	4.65	105	70-130			
Silver	73.0		10	"	100	0.0200	73	70-130			
Thallium	113	0.11	10	"	100	ND	113	70-130			

Matrix Spike Dup (CZ00766-MSD1)

Source: CZA1345-01

Prepared & Analyzed: 02/02/16

Arsenic	87.6	0.27	5.0	µg/L	100	0.740	87	70-130	2	25	
Lead	95.5	0.23	5.0	"	100	ND	95	70-130	1	25	
Selenium	91.1	1.1	5.0	"	100	ND	91	70-130	1	25	
Silver	97.5		10	"	100	0.0600	97	70-130	2	25	
Thallium	98.7	0.11	10	"	100	0.950	98	70-130	0.9	25	

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

02/12/16 09:34

El Dorado County Environmental 2850 Fairlane Court, Building C Placerville CA, 95667	Project: Former Lime Plant Project Number: 037-C-0607-BOS Project Manager: Greg Stanton	CLS Work Order #: CZB0058 COC #:
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CAM 17 Metals (Dissolved Metals) - Quality Control

CLS Labs

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CZ00785 - 6010A/No Digestion

Blank (CZ00785-BLK1)											Prepared & Analyzed: 02/02/16
Antimony	4.10	2.2	50	µg/L							J
Barium	ND	1.5	20	"							
Beryllium	ND	0.18	5.0	"							
Cadmium	ND	1.8	10	"							
Chromium	ND	1.6	20	"							
Cobalt	ND	2.5	20	"							
Copper	ND	3.1	20	"							
Molybdenum	ND	3.6	20	"							
Nickel	3.39	2.9	20	"							J
Vanadium	ND	3.9	20	"							
Zinc	ND	1.9	20	"							

LCS (CZ00785-BS1)											Prepared & Analyzed: 02/02/16
Antimony	968	2.2	50	µg/L	1000		97	85-115			
Barium	1050	1.5	20	"	1000		105	85-115			
Beryllium	1010	0.18	5.0	"	1000		101	85-115			
Cadmium	1070	1.8	10	"	1000		107	85-115			
Chromium	1070	1.6	20	"	1000		107	85-115			
Cobalt	997	2.5	20	"	1000		100	85-115			
Copper	1040	3.1	20	"	1000		104	85-115			
Molybdenum	997	3.6	20	"	1000		100	85-115			
Nickel	998	2.9	20	"	1000		100	85-115			
Vanadium	1030	3.9	20	"	1000		103	85-115			
Zinc	1040	1.9	20	"	1000		104	85-115			

Matrix Spike (CZ00785-MS1)											Source: CZA1290-01	Prepared & Analyzed: 02/02/16
Antimony	1220	2.2	50	µg/L	1000	2.93	122	70-130				
Barium	1640	1.5	20	"	1000	111	153	70-130			QM-7	
Beryllium	1500	0.18	5.0	"	1000	ND	150	70-130			QM-7	
Cadmium	1330	1.8	10	"	1000	ND	133	70-130			QM-7	
Chromium	1550	1.6	20	"	1000	2.14	155	70-130			QM-7	
Cobalt	1230	2.5	20	"	1000	ND	123	70-130				
Copper	1310	3.1	20	"	1000	12.1	130	70-130				
Molybdenum	1190	3.6	20	"	1000	ND	119	70-130				
Nickel	1400	2.9	20	"	1000	8.17	140	70-130			QM-7	
Vanadium	1470	3.9	20	"	1000	28.0	144	70-130			QM-7	

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

02/12/16 09:34

El Dorado County Environmental 2850 Fairlane Court, Building C Placerville CA, 95667	Project: Former Lime Plant Project Number: 037-C-0607-BOS Project Manager: Greg Stanton	CLS Work Order #: CZB0058 COC #:
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CAM 17 Metals (Dissolved Metals) - Quality Control

CLS Labs

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CZ00785 - 6010A/No Digestion

Matrix Spike (CZ00785-MS1)	Source: CZA1290-01			Prepared & Analyzed: 02/02/16							
Zinc	1330	1.9	20	µg/L	1000	5.55	132	70-130			QM-7

Matrix Spike (CZ00785-MS2)	Source: CZB0035-01			Prepared & Analyzed: 02/02/16							
Antimony	1270	2.2	50	µg/L	1000	ND	127	70-130			
Barium	1660	1.5	20	"	1000	81.3	158	70-130			QM-7
Beryllium	1540	0.18	5.0	"	1000	ND	154	70-130			QM-7
Cadmium	1390	1.8	10	"	1000	ND	139	70-130			QM-7
Chromium	1610	1.6	20	"	1000	ND	161	70-130			QM-7
Cobalt	1290	2.5	20	"	1000	ND	129	70-130			
Copper	1350	3.1	20	"	1000	ND	135	70-130			QM-7
Molybdenum	1220	3.6	20	"	1000	4.20	122	70-130			
Nickel	1490	2.9	20	"	1000	4.63	148	70-130			QM-7
Vanadium	1510	3.9	20	"	1000	ND	151	70-130			QM-7
Zinc	1370	1.9	20	"	1000	ND	137	70-130			QM-7

Matrix Spike Dup (CZ00785-MSD1)	Source: CZA1290-01			Prepared & Analyzed: 02/02/16							
Antimony	1120	2.2	50	µg/L	1000	2.93	112	70-130	8	25	
Barium	1790	1.5	20	"	1000	111	168	70-130	9	25	QM-7
Beryllium	1660	0.18	5.0	"	1000	ND	166	70-130	10	25	QM-7
Cadmium	1220	1.8	10	"	1000	ND	122	70-130	9	25	
Chromium	1650	1.6	20	"	1000	2.14	165	70-130	6	25	QM-7
Cobalt	1130	2.5	20	"	1000	ND	113	70-130	9	25	
Copper	1210	3.1	20	"	1000	12.1	119	70-130	9	25	
Molybdenum	1130	3.6	20	"	1000	ND	113	70-130	5	25	
Nickel	1510	2.9	20	"	1000	8.17	150	70-130	7	25	QM-7
Vanadium	1580	3.9	20	"	1000	28.0	155	70-130	7	25	QM-7
Zinc	1220	1.9	20	"	1000	5.55	121	70-130	8	25	

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

02/12/16 09:34

El Dorado County Environmental 2850 Fairlane Court, Building C Placerville CA, 95667	Project: Former Lime Plant Project Number: 037-C-0607-BOS Project Manager: Greg Stanton	CLS Work Order #: CZB0058 COC #:
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CAM 17 Metals (Dissolved Metals) - Quality Control

CLS Labs

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CZ00803 - EPA 7470A											
Blank (CZ00803-BLK1)											
						Prepared: 02/03/16 Analyzed: 02/04/16					
Mercury	ND	0.15	0.20	µg/L							
LCS (CZ00803-BS1)											
						Prepared: 02/03/16 Analyzed: 02/04/16					
Mercury	4.38	0.15	0.20	µg/L	5.00		88	85-115			
Matrix Spike (CZ00803-MS1)											
						Source: CZB0033-01 Prepared: 02/03/16 Analyzed: 02/04/16					
Mercury	4.98	0.15	0.20	µg/L	5.00	ND	100	70-130			
Matrix Spike (CZ00803-MS2)											
						Source: CZB0174-01 Prepared: 02/03/16 Analyzed: 02/04/16					
Mercury	7.77	0.15	0.20	µg/L	5.00	ND	155	70-130			QM-7
Matrix Spike Dup (CZ00803-MSD1)											
						Source: CZB0033-01 Prepared: 02/03/16 Analyzed: 02/04/16					
Mercury	4.72	0.15	0.20	µg/L	5.00	ND	94	70-130	5	25	

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

02/12/16 09:34

El Dorado County Environmental
2850 Fairlane Court, Building C
Placerville CA, 95667

Project: Former Lime Plant
Project Number: 037-C-0607-BOS
Project Manager: Greg Stanton

CLS Work Order #: CZB0058
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

CLS Labs

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CZ00762 - General Prep

Blank (CZ00762-BLK1)

Prepared & Analyzed: 02/02/16

Chloride	ND	0.026	0.50	mg/L							
Fluoride	ND	0.0079	0.10	"							
Nitrate as N	ND	0.053	0.40	"							
Sulfate as SO4	ND	0.038	0.50	"							

LCS (CZ00762-BS1)

Prepared & Analyzed: 02/02/16

Chloride	4.69	0.026	0.50	mg/L	5.00		94	80-120			
Fluoride	1.97	0.0079	0.10	"	2.00		98	80-120			
Nitrate as N	0.483	0.053	0.40	"	0.451		107	80-120			
Sulfate as SO4	5.11	0.038	0.50	"	5.00		102	80-120			

LCS Dup (CZ00762-BSD1)

Prepared & Analyzed: 02/02/16

Chloride	4.72	0.026	0.50	mg/L	5.00		94	80-120	0.8	20	
Fluoride	1.99	0.0079	0.10	"	2.00		100	80-120	1	20	
Nitrate as N	0.483	0.053	0.40	"	0.451		107	80-120	0.1	20	
Sulfate as SO4	5.18	0.038	0.50	"	5.00		104	80-120	1	20	

Matrix Spike (CZ00762-MS1)

Source: CZB0110-01

Prepared & Analyzed: 02/02/16

Chloride	17.1	0.026	0.50	mg/L	5.00	12.5	93	80-120			
Fluoride	2.22	0.0079	0.10	"	2.00	ND	111	80-120			
Nitrate as N	0.556	0.053	0.40	"	0.451	0.135	93	80-120			
Sulfate as SO4	76.7	0.038	0.50	"	5.00	65.7	221	80-120			QM-4X

Matrix Spike Dup (CZ00762-MSD1)

Source: CZB0110-01

Prepared: 02/02/16 Analyzed: 02/03/16

Chloride	16.9	0.026	0.50	mg/L	5.00	12.5	89	80-120	1	20	
Fluoride	2.33	0.0079	0.10	"	2.00	ND	116	80-120	5	20	
Nitrate as N	0.565	0.053	0.40	"	0.451	0.135	95	80-120	2	20	
Sulfate as SO4	76.5	0.038	0.50	"	5.00	65.7	217	80-120	0.3	20	QM-4X

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

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El Dorado County Environmental 2850 Fairlane Court, Building C Placerville CA, 95667	Project: Former Lime Plant Project Number: 037-C-0607-BOS Project Manager: Greg Stanton	CLS Work Order #: CZB0058 COC #:
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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control CLS Labs

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CZ00768 - General Preparation											
Blank (CZ00768-BLK1) Prepared & Analyzed: 02/02/16											
Specific Conductance (EC)	ND	0.090		1.0 µmhos/cm							
Batch CZ00769 - General Preparation											
Blank (CZ00769-BLK1) Prepared: 02/02/16 Analyzed: 02/03/16											
Total Dissolved Solids	ND	10	10	mg/L							
Duplicate (CZ00769-DUP1) Source: CZB0058-01 Prepared: 02/02/16 Analyzed: 02/03/16											
Total Dissolved Solids	333	10	10	mg/L		338			1	20	
Batch CZ00770 - General Preparation											
Blank (CZ00770-BLK1) Prepared & Analyzed: 02/02/16											
MBAS as LAS, mol wt 340	ND	0.067	0.10	mg/L							
LCS (CZ00770-BS1) Prepared & Analyzed: 02/02/16											
MBAS as LAS, mol wt 340	0.464	0.067	0.10	mg/L	0.500		93	80-120			
LCS Dup (CZ00770-BSD1) Prepared & Analyzed: 02/02/16											
MBAS as LAS, mol wt 340	0.459	0.067	0.10	mg/L	0.500		92	80-120	0.9	20	
Matrix Spike (CZ00770-MS1) Source: CZB0058-02 Prepared & Analyzed: 02/02/16											
MBAS as LAS, mol wt 340	0.492	0.067	0.10	mg/L	0.500	ND	98	75-125			
Matrix Spike Dup (CZ00770-MSD1) Source: CZB0058-02 Prepared & Analyzed: 02/02/16											
MBAS as LAS, mol wt 340	0.485	0.067	0.10	mg/L	0.500	ND	97	75-125	1	25	

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CALIFORNIA LABORATORY SERVICES

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El Dorado County Environmental 2850 Fairlane Court, Building C Placerville CA, 95667	Project: Former Lime Plant Project Number: 037-C-0607-BOS Project Manager: Greg Stanton	CLS Work Order #: CZB0058 COC #:
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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control CLS Labs

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CZ00775 - General Prep

Blank (CZ00775-BLK1)											
						Prepared: 02/02/16 Analyzed: 02/03/16					
Chloride	ND	0.059	5.0	mg/kg							
Fluoride	ND	0.086	1.0	"							
Nitrate as N	ND	0.73	5.0	"							
Sulfate as SO4	ND		5.0	"							

LCS (CZ00775-BS1)											
						Prepared: 02/02/16 Analyzed: 02/03/16					
Chloride	47.1	0.059	5.0	mg/kg	50.0		94	75-125			
Fluoride	20.5	0.086	1.0	"	20.0		103	75-125			
Nitrate as N	4.87	0.73	5.0	"	4.51		108	75-125			J
Sulfate as SO4	51.4		5.0	"	50.0		103	75-125			

LCS Dup (CZ00775-BSD1)											
						Prepared: 02/02/16 Analyzed: 02/03/16					
Chloride	47.7	0.059	5.0	mg/kg	50.0	8.24	95	75-125	1	25	
Fluoride	20.3	0.086	1.0	"	20.0	ND	101	75-125	1	25	
Nitrate as N	4.91	0.73	5.0	"	4.51	1.21	109	75-125	0.9	25	J
Sulfate as SO4	52.4		5.0	"	50.0	17.5	105	75-125	2	25	

Matrix Spike (CZ00775-MS1)											
						Source: CZB0058-10			Prepared: 02/02/16 Analyzed: 02/03/16		
Chloride	48.2	0.059	5.0	mg/kg	50.0	8.24	80	75-125			
Fluoride	19.9	0.086	1.0	"	20.0	ND	99	75-125			
Nitrate as N	5.33	0.73	5.0	"	4.51	1.21	91	75-125			
Sulfate as SO4	64.5		5.0	"	50.0	17.5	94	75-125			

Matrix Spike Dup (CZ00775-MSD1)											
						Source: CZB0058-10			Prepared: 02/02/16 Analyzed: 02/03/16		
Chloride	49.1	0.059	5.0	mg/kg	50.0	8.24	82	75-125	2	30	
Fluoride	20.2	0.086	1.0	"	20.0	ND	101	75-125	2	30	
Nitrate as N	5.13	0.73	5.0	"	4.51	1.21	87	75-125	4	30	
Sulfate as SO4	64.0		5.0	"	50.0	17.5	93	75-125	0.7	30	

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El Dorado County Environmental 2850 Fairlane Court, Building C Placerville CA, 95667	Project: Former Lime Plant Project Number: 037-C-0607-BOS Project Manager: Greg Stanton	CLS Work Order #: CZB0058 COC #:
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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control CLS Labs

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CZ00785 - 6010A/No Digestion

Blank (CZ00785-BLK1)											Prepared & Analyzed: 02/02/16
Calcium	ND	0.031	1.0	mg/L							
Hardness as CaCO3	ND	1.0	1.0	"							
Magnesium	ND	0.028	1.0	"							
Potassium	ND	0.87	1.0	"							
Sodium	ND	0.021	1.0	"							

LCS (CZ00785-BS1)											Prepared & Analyzed: 02/02/16
Calcium	4.96	0.031	1.0	mg/L	5.00		99	85-115			
Magnesium	4.94	0.028	1.0	"	5.00		99	85-115			
Potassium	5.40	0.87	1.0	"	5.00		108	85-115			
Sodium	4.98	0.021	1.0	"	5.00		100	85-115			

Matrix Spike (CZ00785-MS1)											Source: CZA1290-01	Prepared & Analyzed: 02/02/16
Calcium	30.2	0.031	1.0	mg/L	5.00	23.5	134	70-130			QM-4X	
Magnesium	19.5	0.028	1.0	"	5.00	12.2	145	70-130			QM-7	
Potassium	11.2	0.87	1.0	"	5.00	1.92	185	70-130			QM-7	
Sodium	36.5	0.021	1.0	"	5.00	30.1	128	70-130				

Matrix Spike (CZ00785-MS2)											Source: CZB0035-01	Prepared & Analyzed: 02/02/16
Calcium	26.4	0.031	1.0	mg/L	5.00	18.1	164	70-130			QM-7	
Magnesium	14.4	0.028	1.0	"	5.00	6.86	150	70-130			QM-7	
Potassium	10.5	0.87	1.0	"	5.00	1.76	176	70-130			QM-7	
Sodium	19.9	0.021	1.0	"	5.00	11.6	166	70-130			QM-7	

Matrix Spike Dup (CZ00785-MSD1)											Source: CZA1290-01	Prepared & Analyzed: 02/02/16
Calcium	32.0	0.031	1.0	mg/L	5.00	23.5	171	70-130	6	25	QM-4X	
Magnesium	21.1	0.028	1.0	"	5.00	12.2	177	70-130	8	25	QM-7	
Potassium	13.0	0.87	1.0	"	5.00	1.92	222	70-130	15	25	QM-7	
Sodium	38.5	0.021	1.0	"	5.00	30.1	168	70-130	5	25	QM-4X	

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El Dorado County Environmental
2850 Fairlane Court, Building C
Placerville CA, 95667

Project: Former Lime Plant
Project Number: 037-C-0607-BOS
Project Manager: Greg Stanton

CLS Work Order #: CZB0058
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

CLS Labs

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CZ00786 - General Preparation

Blank (CZ00786-BLK1)

Prepared & Analyzed: 02/02/16

Bicarbonate as CaCO3	ND	0.50	5.0	mg/L							
Carbonate as CaCO3	ND	0.50	5.0	"							
Hydroxide as CaCO3	ND	0.50	5.0	"							
Total Alkalinity	ND	1.0	5.0	"							

Duplicate (CZ00786-DUP1)

Source: CZA1292-01

Prepared & Analyzed: 02/02/16

Bicarbonate as CaCO3	28.0	0.50	5.0	mg/L		29.0			4	20	
Carbonate as CaCO3	ND	0.50	5.0	"		ND				20	
Hydroxide as CaCO3	ND	0.50	5.0	"		ND				20	
Total Alkalinity	28.0	1.0	5.0	"		29.0			4	20	

Batch CZ00787 - General Preparation

Blank (CZ00787-BLK1)

Prepared & Analyzed: 02/02/16

Bicarbonate as CaCO3	ND	0.50	5.0	mg/L							
Carbonate as CaCO3	ND	0.50	5.0	"							
Hydroxide as CaCO3	ND	0.50	5.0	"							
Total Alkalinity	ND	1.0	5.0	"							

Batch CZ00792 - General Preparation

Blank (CZ00792-BLK1)

Prepared: 02/03/16 Analyzed: 02/04/16

Total Dissolved Solids	ND	10	10	mg/L							
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Duplicate (CZ00792-DUP1)

Source: CZB0136-01

Prepared: 02/03/16 Analyzed: 02/04/16

Total Dissolved Solids	134	10	10	mg/L		126			6	20	
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CALIFORNIA LABORATORY SERVICES

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El Dorado County Environmental
2850 Fairlane Court, Building C
Placerville CA, 95667

Project: Former Lime Plant
Project Number: 037-C-0607-BOS
Project Manager: Greg Stanton

CLS Work Order #: CZB0058
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

CLS Labs

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CZ00806 - General Preparation

Blank (CZ00806-BLK1) Prepared & Analyzed: 02/03/16

MBAS as LAS, mol wt 340	ND		1.0	mg/kg							
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LCS (CZ00806-BS1) Prepared & Analyzed: 02/03/16

MBAS as LAS, mol wt 340	4.74		1.0	mg/kg	5.00		95	80-120			
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LCS Dup (CZ00806-BSD1) Prepared & Analyzed: 02/03/16

MBAS as LAS, mol wt 340	4.76		1.0	mg/kg	5.00		95	80-120	0.4	20	
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Batch CZ00819 - 6010A/No Digestion

Blank (CZ00819-BLK1) Prepared & Analyzed: 02/03/16

Calcium	0.287		1.0	mg/L							J
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Hardness as CaCO3	0.721		1.0	"							J
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Magnesium	0.000943		1.0	"							J
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Potassium	0.00811		1.0	"							J
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Sodium	0.101		1.0	"							J
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LCS (CZ00819-BS1) Prepared & Analyzed: 02/03/16

Calcium	4.65		1.0	mg/L	5.00		93	75-125			
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Magnesium	4.71		1.0	"	5.00		94	75-125			
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Potassium	4.77		1.0	"	5.00		95	75-125			
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Sodium	4.72		1.0	"	5.00		94	75-125			
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Matrix Spike (CZ00819-MS1) Source: CZB0058-10 Prepared & Analyzed: 02/03/16

Calcium	40.3		1.0	mg/L	5.00	29.3	220	75-125			QM-7
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Magnesium	10.8		1.0	"	5.00	1.07	195	75-125			QM-7
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Potassium	9.75		1.0	"	5.00	ND	195	75-125			QM-7
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Sodium	10.8		1.0	"	5.00	1.02	195	75-125			QM-7
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CALIFORNIA LABORATORY SERVICES

02/12/16 09:34

El Dorado County Environmental
2850 Fairlane Court, Building C
Placerville CA, 95667

Project: Former Lime Plant
Project Number: 037-C-0607-BOS
Project Manager: Greg Stanton

CLS Work Order #: CZB0058
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

CLS Labs

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch CZ00820 - 6010A/No Digestion

Blank (CZ00820-BLK1)

Prepared & Analyzed: 02/03/16

Calcium	0.0781	0.031	1.0	mg/L							J
Hardness as CaCO3	ND	1.0	1.0	"							
Magnesium	ND	0.028	1.0	"							
Potassium	ND	0.87	1.0	"							
Sodium	0.0990	0.021	1.0	"							J

LCS (CZ00820-BS1)

Prepared & Analyzed: 02/03/16

Calcium	4.70	0.031	1.0	mg/L	5.00		94	85-115			
Magnesium	4.84	0.028	1.0	"	5.00		97	85-115			
Potassium	4.81	0.87	1.0	"	5.00		96	85-115			
Sodium	4.87	0.021	1.0	"	5.00		97	85-115			

Matrix Spike (CZ00820-MS1)

Source: CZB0058-01

Prepared & Analyzed: 02/03/16

Calcium	66.2	0.031	1.0	mg/L	5.00	64.5	34	70-130			QM-7
Magnesium	23.4	0.028	1.0	"	5.00	20.1	66	70-130			QM-7
Potassium	10.4	0.87	1.0	"	5.00	5.80	92	70-130			
Sodium	19.7	0.021	1.0	"	5.00	15.9	76	70-130			

Batch CZ00828 - General Preparation

Blank (CZ00828-BLK1)

Prepared & Analyzed: 02/03/16

Specific Conductance (EC)	ND	0.090	1.0	µmhos/cm							
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CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

02/12/16 09:34

El Dorado County Environmental
2850 Fairlane Court, Building C
Placerville CA, 95667

Project: Former Lime Plant
Project Number: 037-C-0607-BOS
Project Manager: Greg Stanton

CLS Work Order #: CZB0058
COC #:

Notes and Definitions

QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration.
HT-F	This is a field test method and it is performed in the lab outside holding time.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

This is a “MDL Report”, thus if the report denotes an “ND” for a particular analyte, it should be noted that the analyte was not detected at or above the MDL.

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

02/12/16 09:34

El Dorado County Environmental
2850 Fairlane Court, Building C
Placerville CA, 95667

Project: Former Lime Plant
Project Number: 037-C-0607-BOS
Project Manager: Greg Stanton

CLS Work Order #: CZB0058
COC #:

CLS Laboratories

3249 Fitzgerald Road, Rancho Cordova, CA
Phone: (916) 638-7301

CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

CZB0058

Lab Login# _____ Date *2/11/15* Page *1* of *1*

Former Lime Plant				# of Containers	General Minerals	Bicarb/Carb/Hydrox	Ca, Mg, K, Na, SO4, Cl	Alkalinity	Dissolved	CAM 17 metals	Comments
Report to: Robert Lauritzen	Analysis Requested										
Sample ID	Date	Time	Lab ID	Sample Matrix	NP	NP					
Lime-1	2/1/2015	1130		water	1	X	X	X	X		
Lime-2	2/1/2015	1146		water	2	X	X	X	X	X	lab to filter
Lime-3	2/1/2015	1159		water	1	X	X	X	X		
Lime-4	2/1/2015	1224		water	1	X	X	X	X		
Lime-5	2/1/2015	1235		water	1	X	X	X	X		
Lime-6	2/1/2015	1245		water	1	X	X	X	X		
Lime-7	2/1/2015	1256		water	2	X	X	X	X	X	lab to filter
Lime-8	2/1/2015	1305		water	2	X	X	X	X	X	lab to filter
Lime-9	2/1/2015	1315		water	1	X	X	X	X		
Lime-2-5	2/1/2015	1146		solid	1	X	X	X	X		
Lime-7-5	2/1/2015	1305		solid	1	X	X	X	X		
Refinquished by: Signature: <i>Robert Lauritzen</i>	Received by: Signature:			TAT Requirements <input checked="" type="checkbox"/> Standard (5 days)		Report Requirements <input type="checkbox"/> I. Routine Report <input checked="" type="checkbox"/> II. Report (includes DUP, MS MSD, as required.) <input type="checkbox"/> III. Data Validation Report <input type="checkbox"/> RWOCB (MDLs/PQLs/Trace#)					
Printed Name: Robert Lauritzen	Printed Name:			El Dorado County Date/Time: 2/11/15 1446		Additional Info: Lime-10 2/1/15 1335 - SAME AS ABOVE					
Invoice: Greg Stanton, EDCM Address: 2850 Fairlane Ct., Bldg C, Placerville, CA, 95667 Contract # 037-C-0607-BOS CO#29077		<p><i>Greg Stanton</i> 2/11/16 1447 (0.4)</p>									

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CALIFORNIA LABORATORY SERVICES

02/12/16 09:34

El Dorado County Environmental
2850 Fairlane Court, Building C
Placerville CA, 95667

Project: Former Lime Plant
Project Number: 037-C-0607-BOS
Project Manager: Greg Stanton

CLS Work Order #: CZB0058
COC #:

CLS LABS SAMPLE RECEIVING EXCEPTION REPORTS

CLS Labs Job # CZB0058

Problem discovered by: Devon

Date: 2-11-16

Nature of problem

Sample IDs Lime-2-S and Lime-7-S are listed for
Diss CAM 17 Analysis but both samples are solids.

Client contacted? Yes No Spoke With: Robert C.

By whom: Devon Date: 2-11-16 Time: 1541 HRS

Client instructions:

CAM 17 Diss was a mistake. Run only Grav Mtd on both samples.

Resolution of problem:

logged work per client request

H:\WillOrellana\SampleException.Doc

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