

**Laboratory Analytical Report**

Customer Name: EOG - DJ Basin
Project ID: EOG CO Jubilee 2128H CWA

Order ID: 16102408
Report Date: 10/27/2016

Lab Sample ID: 16102408-02 Date: 10/21/2016 9:30 AM
Customer Sample ID: JUBILEE 117-2128H
Matrix: Aqueous Received: 10/24/2016 3:54 PM

Notes:

Analyses	Result	Units	RL	Qual.	Method	Analysis Date/Time	Analyst
Alkalinity, Bicarbonate (HCO ₃)	834.0	mg/L	2		SM 2320 B	10/25/2016 12:00:00 PM	JS
Alkalinity, Carbonate (CO ₃)	ND	mg/L	2		SM 2320 B	10/25/2016 12:00:00 PM	JS
Alkalinity, Hydroxide (OH)	ND	mg/L	2		SM 2320 B	10/25/2016 12:00:00 PM	JS
Total Alkalinity	834.0	mg/L	2		SM 2320 B	10/25/2016 12:00:00 PM	JS
Barium	33.3	mg/L	5		EPA 200.7	10/24/2016 9:35:20 PM	RG
Calcium	300	mg/L	5		EPA 200.7	10/24/2016 9:35:20 PM	RG
Calcium (meq/L)	14.9	meq/L	0		EPA 200.7	10/24/2016 9:35:20 PM	RG
Anions	418.8	meq/L	-50		Calculation	10/27/2016 9:05:00 AM	RG
Cation/Anion Balance	-28.7	%	-50		Calculation	10/27/2016 9:05:00 AM	RG
Cations	232	meq/L	-50		Calculation	10/27/2016 9:05:00 AM	RG
Chloride	14340	mg/L	1000		EPA 300.0	10/26/2016 1:01:00 AM	TMC
Field pH - Strip	7.5	s.u.			Strip	10/25/2016 10:50:00 AM	JS
Ionic Strength	0.3	mol/L	0		Calculation	10/27/2016 9:05:00 AM	RG
Iron	ND	mg/L	5	J	EPA 200.7	10/24/2016 9:35:20 PM	RG
Magnesium	38	mg/L	5		EPA 200.7	10/24/2016 9:35:20 PM	RG
Magnesium (meq/L)	3.2	meq/L	0		EPA 200.7	10/24/2016 9:35:20 PM	RG
Manganese	ND	mg/L	5		EPA 200.7	10/24/2016 9:35:20 PM	RG
Phosphorus	ND	mg/L	5		EPA 200.7	10/24/2016 9:35:20 PM	RG
Potassium	74	mg/L	5		EPA 200.7	10/24/2016 9:35:20 PM	RG
Potassium (meq/L)	1.9	meq/L	0		EPA 200.7	10/24/2016 9:35:20 PM	RG
Resistivity, 25C	0.23	ohms m	0.01		SM 2510 B	10/25/2016 10:00:00 AM	JS
Sodium	4900	mg/L	500		EPA 200.7	10/26/2016 10:38:00 PM	RG
Sodium (meq/L)	212	meq/L	0		EPA 200.7	10/26/2016 10:38:00 PM	RG
Specific Gravity	1.020	g/cc	0.001		ASTM D 1429-03	10/25/2016 11:15:00 AM	JS

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Definitions:

ND-Not Detected at the reporting limit

RL-Analyte Reporting Limit

H-Holding times for preparation or analysis exceeded

S-Spike Recovery outside accepted recovery limits

J-Analyte detected below quantitation limits

M-Matrix Effect

D-Diluted out of recovery limits

L-Analyzed by a contract laboratory



Gas Measurement • Emissions Testing

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Laboratory Analytical Report

Customer Name:	EOG - DJ Basin	Order ID:	16102408			
Project ID:	EOG CO Jubilee 2128H CWA	Report Date:	10/27/2016			
Strontium	49.2	mg/L	5	EPA 200.7	10/24/2016 9:35:20 PM	RG
Sulfate	36.6	mg/L	2	EPA 375.4	10/26/2016 8:30:00 AM	TMC
Total Dissolved Solids (TDS)	20500	mg/L	5	Calculation	10/27/2016 9:05:00 AM	RG

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Documentation will be kept for five (5) years.