



ANALYTICAL SUMMARY REPORT

January 07, 2016

EOG Resources Inc
600 17th St Ste 1000 N
Denver, CO 80202

Work Order: C15120534
Project Name: Simba SWD 11-26-15 Spill

Energy Laboratories, Inc. Casper WY received the following 10 samples for EOG Resources Inc on 12/18/2015 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C15120534-001	A1	12/14/15 13:20	12/18/15	Soil	Composite of two or more samples
C15120534-002	A2	12/14/15 13:20	12/18/15	Soil	Same As Above
C15120534-003	A3	12/14/15 13:20	12/18/15	Soil	Same As Above
C15120534-004	A4	12/14/15 13:20	12/18/15	Soil	Same As Above
C15120534-005	A1-A4 Composite	12/14/15 13:20	12/18/15	Soil	Metals, Saturated Paste Metals by ICP/ICPMS, TCLP Conductivity Mercury, TCLP Ultrasonic Extraction Methanol Extraction for Volatiles Diesel Range Organics Gasoline Range Organics pH, Saturated Paste Saturated Paste Sodium Adsorption Ratio TCLP Extraction, Non-volatiles Digestion, Total Metals
C15120534-006	B1	12/14/15 13:45	12/18/15	Soil	Composite of two or more samples
C15120534-007	B2	12/14/15 13:45	12/18/15	Soil	Same As Above
C15120534-008	B3	12/14/15 13:45	12/18/15	Soil	Same As Above
C15120534-009	B4	12/14/15 13:45	12/18/15	Soil	Same As Above
C15120534-010	B1-B4 Composite	12/14/15 13:45	12/18/15	Soil	Metals, Saturated Paste Metals by ICP/ICPMS, TCLP Conductivity Mercury, TCLP Ultrasonic Extraction Methanol Extraction for Volatiles Diesel Range Organics Gasoline Range Organics pH, Saturated Paste Saturated Paste Sodium Adsorption Ratio TCLP Extraction, Non-volatiles Digestion, Total Metals

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Radiochemistry analyses were performed at Energy Laboratories, Inc., 2325 Kerzell Lane, Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these test results, please call.



Trust our People. Trust our Data.
www.energylab.com

Billings, MT 800.735.4489 • Casper, WY 888.235.0515
College Station, TX 888.690.2218 • Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

ANALYTICAL SUMMARY REPORT

Report Approved By:



Trust our People. Trust our Data.
www.energylab.com

Billings, MT 800.735.4489 • Casper, WY 888.235.0515
College Station, TX 888.690.2218 • Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

CLIENT: EOG Resources Inc
Project: Simba SWD 11-26-15 Spill
Work Order: C15120534

Report Date: 01/07/16

CASE NARRATIVE

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

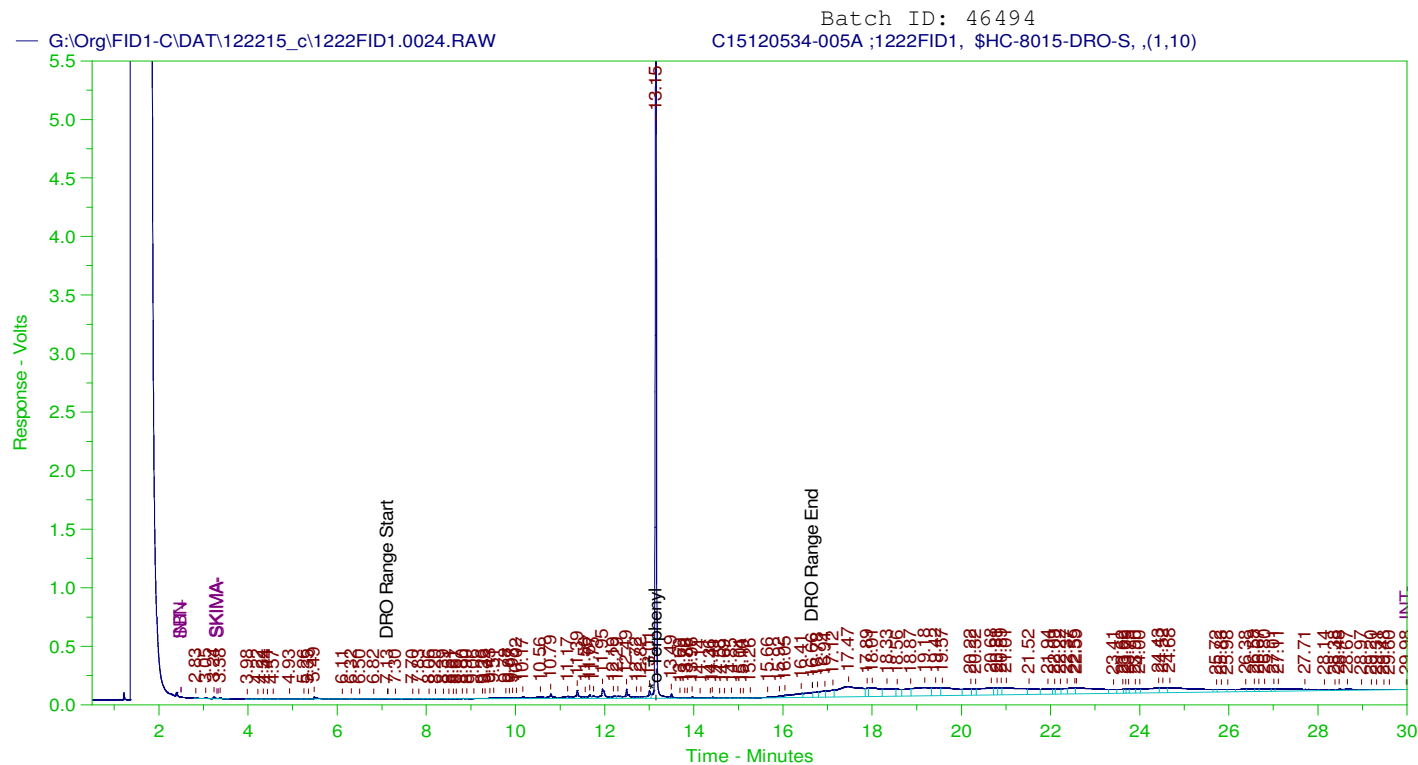
Client: EOG Resources Inc
Project: Simba SWD 11-26-15 Spill
Lab ID: C15120534-005
Client Sample ID: A1-A4 Composite

Report Date: 01/07/16
Collection Date: 12/14/15 13:20
Date Received: 12/18/15
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE EXTRACT							
Conductivity, sat. paste	4.85	mmhos/cm		0.01		ASAM10-3	01/05/16 10:45 / eli-b
pH, sat. paste	7.3	s.u.		0.1		ASAM10-3.2	01/05/16 10:45 / eli-b
Calcium, sat. paste	18.0	meq/L		0.05		SW6010B	01/06/16 11:30 / eli-b
Magnesium, sat. paste	4.24	meq/L		0.08		SW6010B	01/06/16 11:30 / eli-b
Sodium, sat. paste	26.3	meq/L	D	0.05		SW6010B	01/06/16 11:30 / eli-b
Sodium Adsorption Ratio (SAR)	7.9	unitless		0.1		USDA20B	01/07/16 08:29 / smm
METALS - TCLP EXTRACTABLE							
Arsenic	ND	mg/L		0.2	5	SW6020	12/24/15 16:44 / smm
Barium	2	mg/L		1	100	SW6010B	12/23/15 14:02 / sf
Cadmium	ND	mg/L		0.1	1	SW6010B	12/23/15 14:02 / sf
Chromium	ND	mg/L		0.2	5	SW6010B	12/23/15 14:02 / sf
Lead	ND	mg/L		0.2	5	SW6010B	12/23/15 14:02 / sf
Mercury	ND	mg/L		0.02	0.2	SW7470A	12/23/15 13:59 / tkr
Selenium	ND	mg/L		0.1	1	SW6010B	12/23/15 14:02 / sf
Silver	ND	mg/L		0.02	5	SW6010B	12/23/15 14:02 / sf
ORGANIC CHARACTERISTICS							
Diesel Range Organics (DRO)	ND	mg/kg		66		SW8015B	12/23/15 04:30 / bah
Surr: o-Terphenyl	98.0	%REC		32-106		SW8015B	12/23/15 04:30 / bah
Reporting limit raised due to non target matrix.							
Gasoline Range Organics (GRO)	ND	mg/kg		4.0		SW8015B	12/23/15 18:41 / dm
Total Purgeable Hydrocarbons	ND	mg/kg		4.0		SW8015B	12/23/15 18:41 / dm
Surr: Trifluorotoluene	114	%REC		53.8-137		SW8015B	12/23/15 18:41 / dm

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



DIESEL RANGE ORGANICS CHROMATOGRAM

Sample Name: C15120534-005A ;1222FID1, \$HC-8015-DRO-S, ,(1,10)
Raw File: G:\Org\FID1-C\DAT\122215_c\1222FID1.0024.RAW
Date & Time Acquired: 12/23/2015 04:30:28
Method File: G:\Org\FID1-C\Methods\FID1_BASE_CAL_122115_R.met
Calibration File: \\cafle\organics\Org\FID1-C\Cals\FID1_122115_R.CAL
Sample Weight: 30.7 Dilution: 10 S.A.: 1

Mean RF for Hydrocarbon Range Calculations: 69425
Rt range for Diesel Range Organics (C10 to C28): 7.05 to 16.85
Rt range for Oil Range Organics (C28 to C40+): 16.71 to End Time

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	13.153	65.147	63.963	98.18	-

DRO Area:5454366 DRO AMOUNT: 25.59116
TEH Area:3.545507E+07 TEH AMOUNT: 166.3505
Oil Area:2.999859E+07 OIL AMOUNT: 140.7494



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

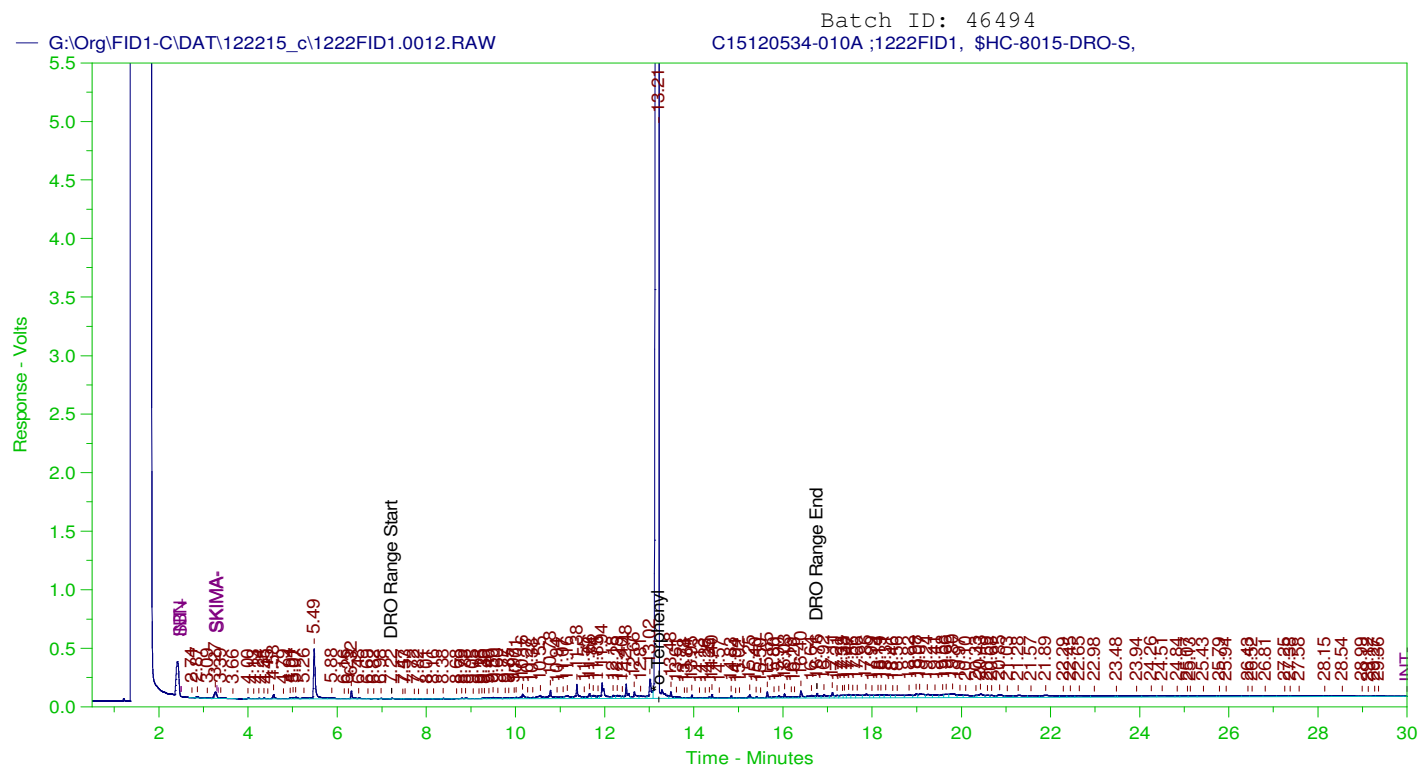
Client: EOG Resources Inc
Project: Simba SWD 11-26-15 Spill
Lab ID: C15120534-010
Client Sample ID: B1-B4 Composite

Report Date: 01/07/16
Collection Date: 12/14/15 13:45
Date Received: 12/18/15
Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SATURATED PASTE EXTRACT							
Conductivity, sat. paste	1.66	mmhos/cm		0.01		ASAM10-3	01/05/16 10:45 / eli-b
pH, sat. paste	7.3	s.u.		0.1		ASAM10-3.2	01/05/16 10:45 / eli-b
Calcium, sat. paste	8.51	meq/L		0.05		SW6010B	01/06/16 11:37 / eli-b
Magnesium, sat. paste	3.30	meq/L		0.08		SW6010B	01/06/16 11:37 / eli-b
Sodium, sat. paste	3.51	meq/L		0.04		SW6010B	01/06/16 11:37 / eli-b
Sodium Adsorption Ratio (SAR)	1.4	unitless		0.1		USDA20B	01/07/16 08:29 / smm
METALS - TCLP EXTRACTABLE							
Arsenic	ND	mg/L		0.2	5	SW6020	12/24/15 16:55 / smm
Barium	2	mg/L		1	100	SW6010B	12/23/15 14:07 / sf
Cadmium	ND	mg/L		0.1	1	SW6010B	12/23/15 14:07 / sf
Chromium	ND	mg/L		0.2	5	SW6010B	12/23/15 14:07 / sf
Lead	ND	mg/L		0.2	5	SW6010B	12/23/15 14:07 / sf
Mercury	ND	mg/L		0.02	0.2	SW7470A	12/23/15 14:00 / tkr
Selenium	ND	mg/L		0.1	1	SW6010B	12/23/15 14:07 / sf
Silver	ND	mg/L		0.02	5	SW6010B	12/23/15 14:07 / sf
ORGANIC CHARACTERISTICS							
Diesel Range Organics (DRO)	ND	mg/kg		10		SW8015B	12/22/15 19:17 / bah
Surr: o-Terphenyl	86.0	%REC		32-106		SW8015B	12/22/15 19:17 / bah
Gasoline Range Organics (GRO)	ND	mg/kg		4.0		SW8015B	12/23/15 19:18 / dm
Total Purgeable Hydrocarbons	ND	mg/kg		4.0		SW8015B	12/23/15 19:18 / dm
Surr: Trifluorotoluene	115	%REC		53.8-137		SW8015B	12/23/15 19:18 / dm

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



DIESEL RANGE ORGANICS CHROMATOGRAM

Sample Name: C15120534-010A ;1222FID1, \$HC-8015-DRO-S,
Raw File: G:\Org\FID1-C\DAT\122215_c\1222FID1.0012.RAW
Date & Time Acquired: 12/22/2015 19:17:31
Method File: G:\Org\FID1-C\Methods\FID1_BASE_CAL_122115_R.met
Calibration File: \\cafle\organics\Org\FID1-C\Cals\FID1_122115_R.CAL
Sample Weight: 32.7 Dilution: 1 S.A.: 1

Mean RF for Hydrocarbon Range Calculations: 69425
Rt range for Diesel Range Organics (C10 to C28): 7.05 to 16.85
Rt range for Oil Range Organics (C28 to C40+): 16.71 to End Time

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*o-Terphenyl	13.209	61.162	53.031	86.71

DRO Area:6492644 DRO AMOUNT: 2.859946
TEH Area:1.740701E+07 TEH AMOUNT: 7.667619
Oil Area:8804512 OIL AMOUNT: 3.878302



Trust our People. Trust our Data.
www.energylab.com

Billings, MT 800.735.4489 • Casper, WY 888.235.0515
College Station, TX 888.690.2218 • Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: EOG Resources Inc

Report Date: 01/07/16

Project: Simba SWD 11-26-15 Spill

Work Order: C15120534

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: ASAM10-3									Batch: B_R254581	
Lab ID: C15120534-005B	Sample Duplicate					Run: SUB-B254581			01/05/16 10:45	
Conductivity, sat. paste		4.86	mmhos/cm	0.10				0.2	30	
Lab ID: LCS-1601051045	Laboratory Control Sample					Run: SUB-B254581			01/05/16 10:45	
Conductivity, sat. paste		11.7	mmhos/cm	0.10	86	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Trust our People. Trust our Data.
www.energylab.com

Billings, MT 800.735.4489 • Casper, WY 888.235.0515
College Station, TX 888.690.2218 • Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: EOG Resources Inc

Report Date: 01/07/16

Project: Simba SWD 11-26-15 Spill

Work Order: C15120534

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: ASAM10-3.2									Batch: B_R254581	
Lab ID: C15120534-005B	Sample Duplicate					Run: SUB-B254581			01/05/16 10:45	
pH, sat. paste		7.30	s.u.	0.10				0.0	10	
Lab ID: LCS-1601051045	Laboratory Control Sample					Run: SUB-B254581			01/05/16 10:45	
pH, sat. paste		6.90	s.u.	0.10	97	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: EOG Resources Inc

Report Date: 01/07/16

Project: Simba SWD 11-26-15 Spill

Work Order: C15120534

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B								Analytical Run: ICP4-C_151223A		
Lab ID: ICV	6	Initial Calibration Verification Standard							12/23/15 12:37	
Barium		0.991	mg/L	0.10	99	90	110			
Cadmium		0.473	mg/L	0.010	95	90	110			
Chromium		0.963	mg/L	0.050	96	90	110			
Lead		0.998	mg/L	0.050	100	90	110			
Selenium		0.995	mg/L	0.10	99	90	110			
Silver		0.476	mg/L	0.010	95	90	110			
Lab ID: ICSA	6	Interference Check Sample A							12/23/15 13:02	
Barium		-8.00E-05	mg/L	0.10						
Cadmium		0.00194	mg/L	0.010						
Chromium		0.0233	mg/L	0.050						
Lead		0.184	mg/L	0.050						
Selenium		-0.0388	mg/L	0.10						
Silver		-0.00311	mg/L	0.010						
Lab ID: ICSAB	6	Interference Check Sample AB							12/23/15 13:06	
Barium		0.480	mg/L	0.10	96	80	120			
Cadmium		0.953	mg/L	0.010	95	80	120			
Chromium		0.466	mg/L	0.050	93	80	120			
Lead		1.09	mg/L	0.050	109	80	120			
Selenium		-0.0246	mg/L	0.10						
Silver		0.973	mg/L	0.010	97	80	120			
Method: SW6010B								Batch: 46503		
Lab ID: MB-46503	6	Method Blank							Run: ICP4-C_151223A 12/23/15 13:36	
Barium		0.06	mg/L	0.0002						
Cadmium		ND	mg/L	0.0005						
Chromium		0.008	mg/L	0.003						
Lead		0.04	mg/L	0.02						
Selenium		ND	mg/L	0.02						
Silver		ND	mg/L	0.004						
Lab ID: LCS3-46503	6	Laboratory Control Sample							Run: ICP4-C_151223A 12/23/15 13:40	
Barium		0.522	mg/L	0.50	93	85	115			
Cadmium		0.226	mg/L	0.010	91	85	115			
Chromium		0.475	mg/L	0.10	93	85	115			
Lead		0.597	mg/L	0.10	112	85	115			
Selenium		0.487	mg/L	0.10	97	85	115			
Silver		0.0428	mg/L	0.020	86	85	115			
Lab ID: C15120525-002ADIL	6	Serial Dilution							Run: ICP4-C_151223A 12/23/15 13:53	
Barium		1.37	mg/L	0.50				5.4	10	
Cadmium		ND	mg/L	0.013					10	
Chromium		0.0724	mg/L	0.10					10	N
Lead		0.567	mg/L	0.40					10	N

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: EOG Resources Inc

Report Date: 01/07/16

Project: Simba SWD 11-26-15 Spill

Work Order: C15120534

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B										Batch: 46503
Lab ID: C15120525-002ADIL	6	Serial Dilution				Run: ICP4-C_151223A				12/23/15 13:53
Selenium		ND	mg/L	0.45					10	
Silver		ND	mg/L	0.030					10	
Lab ID: C15120525-002AMS3	6	Sample Matrix Spike				Run: ICP4-C_151223A				12/23/15 13:58
Barium		1.82	mg/L	0.50	106	75	125			
Cadmium		0.227	mg/L	0.010	90	75	125			
Chromium		0.479	mg/L	0.10	96	75	125			
Lead		0.544	mg/L	0.10	109	75	125			
Selenium		0.518	mg/L	0.10	93	75	125			
Silver		0.0424	mg/L	0.020	85	75	125			
Lab ID: LCSD3-46503	6	Laboratory Control Sample Duplicate				Run: ICP4-C_151223A				12/23/15 14:45
Barium		0.533	mg/L	0.50	95	85	115	2.0	20	
Cadmium		0.236	mg/L	0.010	95	85	115	4.4	20	
Chromium		0.489	mg/L	0.10	96	85	115	2.8	20	
Lead		0.604	mg/L	0.10	113	85	115	1.2	20	
Selenium		0.535	mg/L	0.10	107	85	115	9.3	20	
Silver		0.0434	mg/L	0.020	87	85	115	1.6	20	
Method: SW6010B										Batch: B_95984
Lab ID: LCS-95984	3	Laboratory Control Sample				Run: SUB-B254648				01/06/16 11:20
Calcium, sat. paste		85.1	meq/L	0.083	109	70	130			
Magnesium, sat. paste		50.7	meq/L	0.082	102	70	130			
Sodium, sat. paste		113	meq/L	0.21	108	70	130			
Lab ID: C15120534-005B	3	Sample Duplicate				Run: SUB-B254648				01/06/16 11:34
Calcium, sat. paste		17.2	meq/L	0.050				4.7	30	
Magnesium, sat. paste		4.07	meq/L	0.082				4.2	30	
Sodium, sat. paste		25.9	meq/L	0.054				1.9	30	
Lab ID: C15120534-010B	3	Sample Matrix Spike				Run: SUB-B254648				01/06/16 11:41
Calcium, sat. paste		13.3	meq/L	0.050	96	75	125			
Magnesium, sat. paste		11.4	meq/L	0.082	99	75	125			
Sodium, sat. paste		7.78	meq/L	0.043	98	75	125			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: EOG Resources Inc

Report Date: 01/07/16

Project: Simba SWD 11-26-15 Spill

Work Order: C15120534

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	SW6020							Analytical Run: ICPMS4-C_151224A		
Lab ID:	ICV		Initial Calibration Verification Standard						12/24/15 10:56	
Arsenic		0.0489	mg/L	0.0010	98	90	110			
Lab ID:	ICSA		Interference Check Sample A						12/24/15 11:01	
Arsenic		0.000716	mg/L	0.0010						
Lab ID:	ICSAB		Interference Check Sample AB						12/24/15 11:07	
Arsenic		0.0101	mg/L	0.0010	101	70	130			
Method:	SW6020							Batch: 46503		
Lab ID:	MB-46503		Method Blank		Run: ICPMS4-C_151224A				12/24/15 16:23	
Arsenic		0.0005	mg/L	9E-05						
Lab ID:	LCS3-46503		Laboratory Control Sample		Run: ICPMS4-C_151224A				12/24/15 16:29	
Arsenic		0.470	mg/L	0.10	94	85	115			
Lab ID:	LCSD3-46503		Laboratory Control Sample Duplicate		Run: ICPMS4-C_151224A				12/24/15 16:34	
Arsenic		0.502	mg/L	0.10	100	85	115	6.5	20	
Lab ID:	C15120534-005ADIL		Serial Dilution		Run: ICPMS4-C_151224A				12/24/15 16:49	
Arsenic		0.00621	mg/L	0.10					10	N
Lab ID:	C15120525-002AMS3		Sample Matrix Spike		Run: ICPMS4-C_151224A				12/24/15 17:05	
Arsenic		0.493	mg/L	0.10	98	75	125			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: EOG Resources Inc

Report Date: 01/07/16

Project: Simba SWD 11-26-15 Spill

Work Order: C15120534

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method:	SW7470A							Analytical Run: CVAA_C203_151223A			
Lab ID:	ICV										12/23/15 12:58
Mercury		Initial Calibration Verification Standard									
		0.00523	mg/L	0.00010	105	90	110				
Lab ID:	CCV										12/23/15 13:47
Mercury		Continuing Calibration Verification Standard									
		0.0053	mg/L	0.020	106	90	110				
Method:	SW7470A							Batch: 46499			
Lab ID:	MB-46499										12/23/15 13:50
Mercury		Method Blank					Run: CVAA_C203_151223A				
		ND	mg/L	8E-06							
Lab ID:	LCS-46499										12/23/15 13:52
Mercury		Laboratory Control Sample					Run: CVAA_C203_151223A				
		0.0056	mg/L	0.020	111	85	115				
Lab ID:	LCSD-46499										12/23/15 13:53
Mercury		Laboratory Control Sample Duplicate					Run: CVAA_C203_151223A				
		0.0055	mg/L	0.020	110	85	115			10	
Lab ID:	C15120525-002ADIL										12/23/15 13:56
Mercury		Serial Dilution					Run: CVAA_C203_151223A				
		ND	mg/L	0.020		0	0			20	
Lab ID:	C15120525-002AMS										12/23/15 13:57
Mercury		Sample Matrix Spike					Run: CVAA_C203_151223A				
		0.0053	mg/L	0.020	106	75	125				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: EOG Resources Inc

Report Date: 01/07/16

Project: Simba SWD 11-26-15 Spill

Work Order: C15120534

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8015B										Batch: 46494
Lab ID: MB-46494	2	Method Blank					Run: FID1-C_151222A			12/22/15 12:53
Diesel Range Organics (DRO)		ND	mg/kg	10						
Surr: o-Terphenyl				0.67	72	56	147			
Lab ID: LCS-46494	2	Laboratory Control Sample					Run: FID1-C_151222A			12/22/15 13:39
Diesel Range Organics (DRO)		468	mg/kg	10	70	58.7	106			
Surr: o-Terphenyl				0.67	83	56	147			
Lab ID: LCSD-46494	2	Laboratory Control Sample Duplicate					Run: FID1-C_151222A			12/22/15 14:25
Diesel Range Organics (DRO)		494	mg/kg	10	74	58.7	106	5.3	20	
Surr: o-Terphenyl				0.67	84	56	147			
Lab ID: C15120430-001AMS	2	Sample Matrix Spike					Run: FID1-C_151222A			12/22/15 16:05
Diesel Range Organics (DRO)		428	mg/kg	66	65	60	140			
Surr: o-Terphenyl				6.6	82	32	106			
Lab ID: C15120430-001AMSD	2	Sample Matrix Spike Duplicate					Run: FID1-C_151222A			12/22/15 16:58
Diesel Range Organics (DRO)		461	mg/kg	64	73	60	140	7.5	20	
Surr: o-Terphenyl				6.4	95	32	106	0.0	30	
Method: SW8015B										Batch: 46516
Lab ID: MB-46516	3	Method Blank					Run: PIDELCD1-C_151223B			12/23/15 16:48
Gasoline Range Organics (GRO)		ND	mg/kg	2.0						
Total Purgeable Hydrocarbons		ND	mg/kg	2.0						
Surr: Trifluorotoluene				0.40	100	53.8	137			
Lab ID: LCS-46516	3	Laboratory Control Sample					Run: PIDELCD1-C_151223B			12/23/15 17:25
Gasoline Range Organics (GRO)		15.1	mg/kg	2.0	76	70	130			
Total Purgeable Hydrocarbons		18.8	mg/kg	2.0	94	54.2	133			
Surr: Trifluorotoluene				0.40	100	53.8	137			
Lab ID: LCSD-46516	3	Laboratory Control Sample Duplicate					Run: PIDELCD1-C_151223B			12/23/15 18:03
Gasoline Range Organics (GRO)		18.4	mg/kg	2.0	92	70	130	19	20	
Total Purgeable Hydrocarbons		22.6	mg/kg	2.0	113	54.2	133	18	20	
Surr: Trifluorotoluene				0.40	114	53.8	137			
Lab ID: C15120561-001AMS	2	Sample Matrix Spike					Run: PIDELCD1-C_151223B			12/23/15 20:34
Total Purgeable Hydrocarbons		21.3	mg/kg	4.0	106	22.4	153			
Surr: Trifluorotoluene				0.80	119	53.8	137			
Method: SW8015B										Analytical Run: R207760
Lab ID: CCV_1223HP102r	2	Continuing Calibration Verification Standard								12/23/15 14:19
Total Purgeable Hydrocarbons		20.1	mg/kg	2.0	100	85	115			
Surr: Trifluorotoluene				0.40	95	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Work Order Receipt Checklist

EOG Resources Inc

C15120534

Login completed by: Ralph Stanley

Date Received: 12/18/2015

Reviewed by: BL2000\khamre

Received by: bal

Reviewed Date: 12/21/2015

Carrier name: Ground

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on all sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Not Applicable <input type="checkbox"/>
Container/Temp Blank temperature:	6.2°C No Ice		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Contact and Corrective Action Comments:

None



Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT (Provide as much information as possible.)

Company Name: EOG Resources, Inc.		Project Name, PWS, Permit, Etc. Simba SWD 11-26-15 spill		Sample Origin State: CO		EPA/State Compliance: Yes <input type="radio"/> No <input checked="" type="radio"/>	
Report Mail Address (Required): 600 17th Street, Suite 1000N Denver, CO 80202		Contact Name: Jessica Marten		Cell: (303) 358-9263		Sampler: (Please Print) Theo Federer	
<input checked="" type="checkbox"/> No Hard Copy Email: jessica.marten@eogresources.com		Invoice Contact & Phone: Jessica Marten		Purchase Order: (303) 262-2862		Quote/Bottle Order:	
Invoice Address (Required): 600 17th Street, Suite 1000N Denver, CO 80202		Number of Containers Sample Type: A W S V B O DW Air Water Solids/Solids Vegetation Bioassay Other DW - Drinking Water		ANALYSIS REQUESTED SEE ATTACHED		Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments: IL-3 RS-N 450 w/hr	
Special Report/Formats: <input checked="" type="checkbox"/> DW <input type="checkbox"/> POTW/WWTP State: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: <input type="checkbox"/> NELAC <input checked="" type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		MATRIX		Standard Turnaround (TAT)		Shipped by: Cooler ID(s): Client Receipt Temp: 62.2°C On Ice: <input checked="" type="radio"/> Y <input type="radio"/> N Custody Seal On Bottle: <input checked="" type="radio"/> Y <input type="radio"/> N On Cooler: <input checked="" type="radio"/> Y <input type="radio"/> N Intact: <input checked="" type="radio"/> Y <input type="radio"/> N Signature Match: <input checked="" type="radio"/> Y <input type="radio"/> N	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date		Collection Time		LABORATORY USE ONLY C15120534	
1 A1 - A4 composite		12-14-15		1:20pm			
2 B1 - B4 composite		12-14-15		1:45pm			
3							
4							
5							
6							
7							
8							
9							
10							
Relinquished by (print): Theo Federer		Date/Time: 12-14-15 11:00 am		Signature: <i>[Signature]</i>		Date/Time: 12-14-15	
Relinquished by (print):		Date/Time:		Signature:		Date/Time:	
Sample Disposal:		Return to Client:		Lab Disposal:		Signature: 10:35	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

2393 Salt Creek Hwy * PO Box 247
Casper, WY 82602-0247
307.235.0515



CHAIN-OF-CUSTODY RECORD

Page 1 of 1
21-Dec-15

Custody Seal:	Y	N
Intact:	Y	N
Signature Match:	Y	N

Shipped By: _____
Receipt Temp: _____

Subcontractor:

ELI - Billings
1120 S. 27th St.
Billings, MT 59101
TEL: (406) 252-6325 FAX: (406) 252-6069
Acct #:

Subcontractor's Client: EOG Resources Inc

Rush	Sample ID	Matrix	Collection Date	Bottle Type
<input type="checkbox"/>	C15120534-005B	Soil	12/14/15 01:20 P	24OZ-CG-WM
<input type="checkbox"/>	C15120534-010B	Soil	12/14/15 01:45 P	24OZ-CG-WM

[illegible]

Earliest Due Date: 12/30/2015

Comments:

QC Level:

STD

Date/Time

Relinquished by:

Ralph Stanley

Received by:

Relinquished by:

Received by: