



*EOG Resources, Inc.
Artesia Division Office
105 S. 4th Street
Artesia, N. M. 88210*

January 6, 2017

Mr. Mike Bratcher/Ms. Crystal Weaver
NMOCD District II
811 S. First St.
Artesia, NM 88210

Re: Amole AMM State #3
30-015-28552
Section 16, T19S-R25E
660' FSL & 1980' FWL
Eddy County, New Mexico
2RP-4029

Mr. Bratcher/Ms. Weaver,

EOG Y Resources, Inc. is submitting the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 report dated December 8, 2016.

If there are no objections with the scope of work described in the plan, EOG Y Resources, Inc. will have a contractor begin work on or after January 21, 2017.

If you have any questions, feel free to call me at (575) 748-4171

Thank you.

EOG Y Resources, Inc.

Chase Settle
Rep Safety & Environmental II

EOG Y Resources, Inc.

Amole AMM State #3 Work Plan

Section 16, T19S-R25E

Eddy County, New Mexico

January 6, 2017

2RP- 4029

I. Location

From the intersection of US 285 and Rocking R Red Road, take Rocking R Red Road west for 6 miles, then turn north onto lease road and follow for 500 feet, then turn east on lease road for 1250 feet to the entrance of the location.

II. Background

On December 8, 2016, EOG Y Resources, Inc. submitted to the NMOCD District II office a Form C-141 for the release of 12 B/O & 8 B/PW with 11 B/O & 7 B/PW recovered. The affected area is approximately 75 feet by 50 feet around the wellhead on the production pad. Failure of a pressure gauge on the wellhead caused the release. Initial delineation samples were taken (12/15/2016) and sent to a NMOCD approved laboratory (12/29/2016, results enclosed).

III. Surface and Ground Water

Area surface geology is Cenozoic Quaternary. The ChevronTexaco Trend Map displays at this location (Section 16, T19S-R25E) that depth to groundwater is approximately 70 feet making the site ranking for this site a ten (10). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is ten (10) based on the as following:

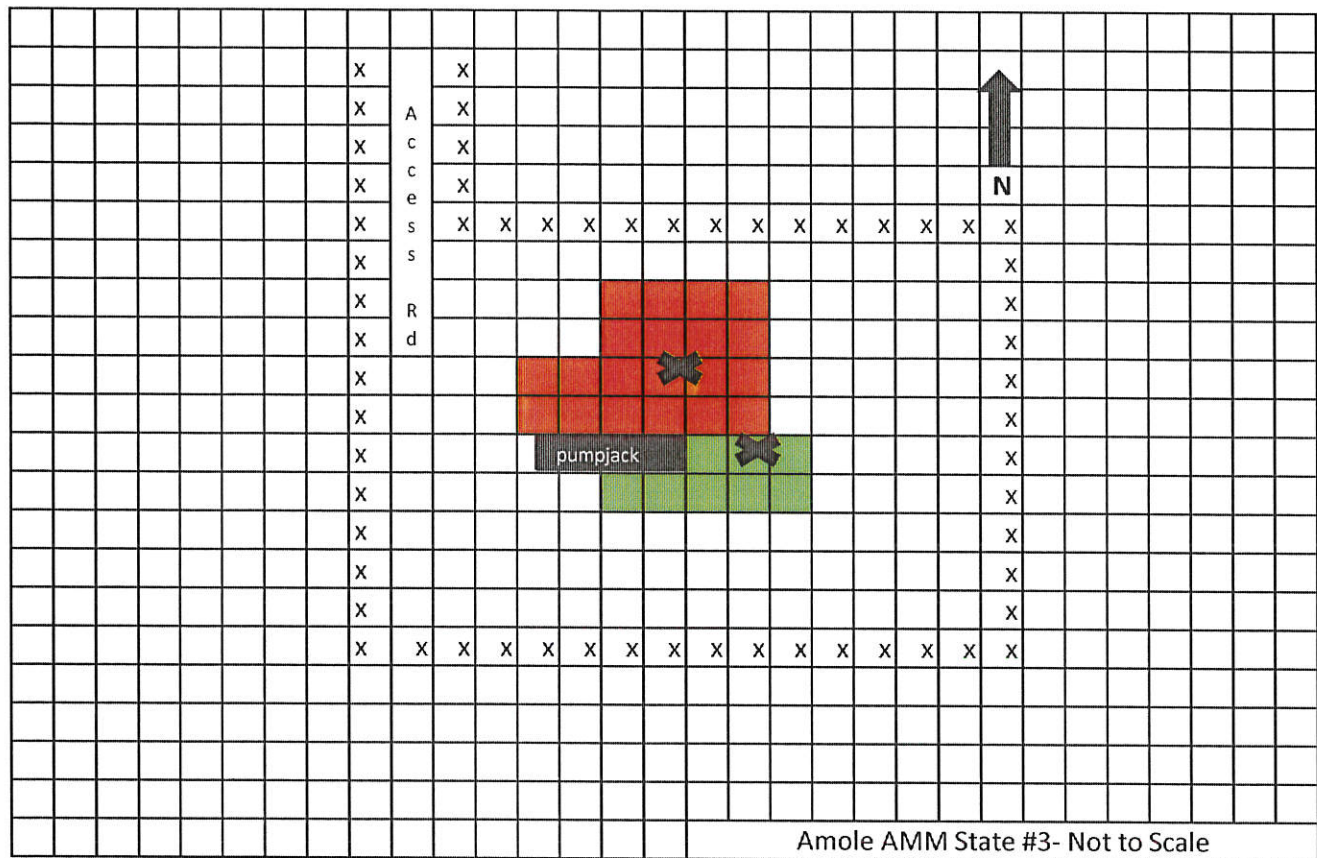
Depth to ground water	50-99'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

IV. Soils

The area consists of soils that are loam based topsoil on top of a caliche layer that is further interspersed with clay seams providing a low permeability barrier to prohibit further migration of contaminants into the subsurface.

V. Scope of Work

Based on enclosed analytical results, the depth to groundwater (70'), and a decrease in chlorides, EOG Y Resources, Inc. will excavate four (4) feet of impacted soil from the release area, hauling all excavated soil to a NMOCD approved facility for disposal. EOG Y Resources, Inc. will then backfill the excavated area with four (4) feet of caliche. There will be no re-vegetative measures taken since the release occurred on the production pad of an actively producing well. The TPH & BTEX for the remaining soil are within the RRAL's for BTEX (50 ppm) and TPH (1000 ppm) for the Total Ranking Score of ten (10), no further analytical testing of TPH and/or BTEX will be conducted (all chloride analytical results are for documentation). When remediation work is completed a C-141 Final Report will be submitted to the NMOCD requesting closure of the site.



Site Ranking is **TEN** (10). DTGW 50-99' (approximately 70', Section 16, T19S-R25E, per Trend Map)

All results are ppm. Chlorides for documentation

Released: 12 B/O & 8 B/PW; Recovered: 11 B/O & 7 B/PW Release Date: 12/2/2016

Sample ID	Analytical ID	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S1-1'	1612939	12/15/2016	Backhoe	1'	ND	ND	ND	990
S1-2'	1612939	12/15/2016	Backhoe	2'	ND	ND	ND	980
S1-3'	1612939	12/15/2016	Backhoe	3'	ND	ND	ND	1200
S1-4'	1612939	12/15/2016	Backhoe	4'	ND	ND	ND	840
S1-6'	1612939	12/15/2016	Backhoe	6'	ND	ND	ND	150
S1-8'	1612939	12/15/2016	Backhoe	8'	ND	ND	ND	180
S1-10'	1612939	12/15/2016	Backhoe	10'	ND	ND	ND	300
S2-1'	1612939	12/15/2016	Backhoe	1'	71.3	430	1500	10000
S2-2'	1612939	12/15/2016	Backhoe	2'	0.79	5.3	78	12000
S2-3'	1612939	12/15/2016	Backhoe	3'	ND	ND	ND	300
S2-4'	1612939	12/15/2016	Backhoe	4'	ND	ND	13	1400
S2-6'	1612939	12/15/2016	Backhoe	6'	ND	ND	ND	470
S2-8'	1612939	12/15/2016	Backhoe	8'	ND	ND	ND	170
S2-10'	1612939	12/15/2016	Backhoe	10'	ND	ND	ND	150



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 29, 2016

Chase Settle
EOG Resources
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111
FAX

RE: Amole AMM State 3

OrderNo.: 1612939

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 14 sample(s) on 12/16/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1612939

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S1-1'

Project: Amole AMM State 3

Collection Date: 12/15/2016 7:53:00 AM

Lab ID: 1612939-001

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	990	75		mg/Kg	50	12/27/2016 7:30:33 PM	29334
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/21/2016 3:09:00 AM	29273
Surr: DNOP	85.5	70-130		%Rec	1	12/21/2016 3:09:00 AM	29273
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/20/2016 11:36:21 PM	29265
Surr: BFB	95.5	68.3-144		%Rec	1	12/20/2016 11:36:21 PM	29265
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/20/2016 11:36:21 PM	29265
Toluene	ND	0.048		mg/Kg	1	12/20/2016 11:36:21 PM	29265
Ethylbenzene	ND	0.048		mg/Kg	1	12/20/2016 11:36:21 PM	29265
Xylenes, Total	ND	0.096		mg/Kg	1	12/20/2016 11:36:21 PM	29265
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	12/20/2016 11:36:21 PM	29265

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1612939

Date Reported: 12/29/2016

CLIENT: EOG Resources

Client Sample ID: S1-2'

Project: Amole AMM State 3

Collection Date: 12/15/2016 7:55:00 AM

Lab ID: 1612939-002

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	980	75		mg/Kg	50	12/27/2016 7:42:57 PM	29334
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/21/2016 3:30:29 AM	29273
Surr: DNOP	71.7	70-130		%Rec	1	12/21/2016 3:30:29 AM	29273
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/20/2016 11:59:30 PM	29265
Surr: BFB	87.0	68.3-144		%Rec	1	12/20/2016 11:59:30 PM	29265
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	12/20/2016 11:59:30 PM	29265
Toluene	ND	0.047		mg/Kg	1	12/20/2016 11:59:30 PM	29265
Ethylbenzene	ND	0.047		mg/Kg	1	12/20/2016 11:59:30 PM	29265
Xylenes, Total	ND	0.093		mg/Kg	1	12/20/2016 11:59:30 PM	29265
Surr: 4-Bromofluorobenzene	94.8	80-120		%Rec	1	12/20/2016 11:59:30 PM	29265

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1612939

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S1-3'

Project: Amole AMM State 3

Collection Date: 12/15/2016 7:57:00 AM

Lab ID: 1612939-003

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1200	75		mg/Kg	50	12/27/2016 7:55:21 PM	29334
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/28/2016 6:30:20 PM	29384
Surr: DNOP	117	70-130		%Rec	1	12/28/2016 6:30:20 PM	29384
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/21/2016 12:22:47 AM	29265
Surr: BFB	85.6	68.3-144		%Rec	1	12/21/2016 12:22:47 AM	29265
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	12/21/2016 12:22:47 AM	29265
Toluene	ND	0.046		mg/Kg	1	12/21/2016 12:22:47 AM	29265
Ethylbenzene	ND	0.046		mg/Kg	1	12/21/2016 12:22:47 AM	29265
Xylenes, Total	ND	0.092		mg/Kg	1	12/21/2016 12:22:47 AM	29265
Surr: 4-Bromofluorobenzene	92.5	80-120		%Rec	1	12/21/2016 12:22:47 AM	29265

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1612939

Date Reported: 12/29/2016

CLIENT: EOG Resources

Client Sample ID: S1-4'

Project: Amole AMM State 3

Collection Date: 12/15/2016 7:58:00 AM

Lab ID: 1612939-004

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	840	30		mg/Kg	20	12/22/2016 12:15:45 PM	29361
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/28/2016 7:39:47 PM	29384
Surr: DNOP	102	70-130		%Rec	1	12/28/2016 7:39:47 PM	29384
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/21/2016 12:46:03 AM	29265
Surr: BFB	83.9	68.3-144		%Rec	1	12/21/2016 12:46:03 AM	29265
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/21/2016 12:46:03 AM	29265
Toluene	ND	0.048		mg/Kg	1	12/21/2016 12:46:03 AM	29265
Ethylbenzene	ND	0.048		mg/Kg	1	12/21/2016 12:46:03 AM	29265
Xylenes, Total	ND	0.095		mg/Kg	1	12/21/2016 12:46:03 AM	29265
Surr: 4-Bromofluorobenzene	89.6	80-120		%Rec	1	12/21/2016 12:46:03 AM	29265

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1612939

Date Reported: 12/29/2016

CLIENT: EOG Resources

Client Sample ID: S1-6'

Project: Amole AMM State 3

Collection Date: 12/15/2016 8:04:00 AM

Lab ID: 1612939-005

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	150	30		mg/Kg	20	12/22/2016 12:52:59 PM	29361
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/21/2016 4:35:20 AM	29273
Surr: DNOP	70.1	70-130		%Rec	1	12/21/2016 4:35:20 AM	29273
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/21/2016 1:09:21 AM	29265
Surr: BFB	85.1	68.3-144		%Rec	1	12/21/2016 1:09:21 AM	29265
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/21/2016 1:09:21 AM	29265
Toluene	ND	0.049		mg/Kg	1	12/21/2016 1:09:21 AM	29265
Ethylbenzene	ND	0.049		mg/Kg	1	12/21/2016 1:09:21 AM	29265
Xylenes, Total	ND	0.099		mg/Kg	1	12/21/2016 1:09:21 AM	29265
Surr: 4-Bromofluorobenzene	89.7	80-120		%Rec	1	12/21/2016 1:09:21 AM	29265

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1612939

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S1-8'

Project: Amole AMM State 3

Collection Date: 12/15/2016 8:10:00 AM

Lab ID: 1612939-006

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	180	30		mg/Kg	20	12/22/2016 1:30:13 PM	29361
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/24/2016 3:36:13 AM	29273
Surr: DNOP	109	70-130		%Rec	1	12/24/2016 3:36:13 AM	29273
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/21/2016 1:32:31 AM	29265
Surr: BFB	85.0	68.3-144		%Rec	1	12/21/2016 1:32:31 AM	29265
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/21/2016 1:32:31 AM	29265
Toluene	ND	0.049		mg/Kg	1	12/21/2016 1:32:31 AM	29265
Ethylbenzene	ND	0.049		mg/Kg	1	12/21/2016 1:32:31 AM	29265
Xylenes, Total	ND	0.098		mg/Kg	1	12/21/2016 1:32:31 AM	29265
Surr: 4-Bromofluorobenzene	91.6	80-120		%Rec	1	12/21/2016 1:32:31 AM	29265

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1612939

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S1-10'

Project: Amole AMM State 3

Collection Date: 12/15/2016 8:16:00 AM

Lab ID: 1612939-007

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	300	30		mg/Kg	20	12/22/2016 1:42:38 PM	29361
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/21/2016 5:18:25 AM	29273
Surr: DNOP	72.2	70-130		%Rec	1	12/21/2016 5:18:25 AM	29273
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/21/2016 1:55:44 AM	29265
Surr: BFB	85.0	68.3-144		%Rec	1	12/21/2016 1:55:44 AM	29265
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/21/2016 1:55:44 AM	29265
Toluene	ND	0.048		mg/Kg	1	12/21/2016 1:55:44 AM	29265
Ethylbenzene	ND	0.048		mg/Kg	1	12/21/2016 1:55:44 AM	29265
Xylenes, Total	ND	0.096		mg/Kg	1	12/21/2016 1:55:44 AM	29265
Surr: 4-Bromofluorobenzene	91.2	80-120		%Rec	1	12/21/2016 1:55:44 AM	29265

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1612939

Date Reported: 12/29/2016

CLIENT: EOG Resources

Client Sample ID: S2-1'

Project: Amole AMM State 3

Collection Date: 12/15/2016 8:21:00 AM

Lab ID: 1612939-008

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	10000	750		mg/Kg	500	12/27/2016 8:07:46 PM	29361
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	1500	97		mg/Kg	10	12/21/2016 5:39:56 AM	29273
Surr: DNOP	0	70-130	S	%Rec	10	12/21/2016 5:39:56 AM	29273
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	430	98		mg/Kg	20	12/21/2016 2:18:51 AM	29265
Surr: BFB	157	68.3-144	S	%Rec	20	12/21/2016 2:18:51 AM	29265
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	1.3	0.49		mg/Kg	20	12/21/2016 2:18:51 AM	29265
Toluene	23	0.98		mg/Kg	20	12/21/2016 2:18:51 AM	29265
Ethylbenzene	22	0.98		mg/Kg	20	12/21/2016 2:18:51 AM	29265
Xylenes, Total	25	2.0		mg/Kg	20	12/21/2016 2:18:51 AM	29265
Surr: 4-Bromofluorobenzene	111	80-120		%Rec	20	12/21/2016 2:18:51 AM	29265

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1612939

Date Reported: 12/29/2016

CLIENT: EOG Resources

Client Sample ID: S2-2'

Project: Amole AMM State 3

Collection Date: 12/15/2016 8:23:00 AM

Lab ID: 1612939-009

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	12000	750		mg/Kg	500	12/27/2016 8:20:11 PM	29361
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	78	10		mg/Kg	1	12/22/2016 9:49:55 PM	29270
Surr: DNOP	93.8	70-130		%Rec	1	12/22/2016 9:49:55 PM	29270
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	5.3	5.0		mg/Kg	1	12/21/2016 2:41:56 AM	29265
Surr: BFB	106	68.3-144		%Rec	1	12/21/2016 2:41:56 AM	29265
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/21/2016 2:41:56 AM	29265
Toluene	0.13	0.050		mg/Kg	1	12/21/2016 2:41:56 AM	29265
Ethylbenzene	0.26	0.050		mg/Kg	1	12/21/2016 2:41:56 AM	29265
Xylenes, Total	0.40	0.10		mg/Kg	1	12/21/2016 2:41:56 AM	29265
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	12/21/2016 2:41:56 AM	29265

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1612939

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S2-3'

Project: Amole AMM State 3

Collection Date: 12/15/2016 8:25:00 AM

Lab ID: 1612939-010

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	300	30		mg/Kg	20	12/22/2016 2:19:52 PM	29361
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/22/2016 10:13:07 PM	29270
Surr: DNOP	89.5	70-130		%Rec	1	12/22/2016 10:13:07 PM	29270
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/21/2016 3:05:02 AM	29265
Surr: BFB	87.0	68.3-144		%Rec	1	12/21/2016 3:05:02 AM	29265
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/21/2016 3:05:02 AM	29265
Toluene	ND	0.047		mg/Kg	1	12/21/2016 3:05:02 AM	29265
Ethylbenzene	ND	0.047		mg/Kg	1	12/21/2016 3:05:02 AM	29265
Xylenes, Total	ND	0.095		mg/Kg	1	12/21/2016 3:05:02 AM	29265
Surr: 4-Bromofluorobenzene	94.3	80-120		%Rec	1	12/21/2016 3:05:02 AM	29265

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1612939

Date Reported: 12/29/2016

CLIENT: EOG Resources

Client Sample ID: S2-4'

Project: Amole AMM State 3

Collection Date: 12/15/2016 8:27:00 AM

Lab ID: 1612939-011

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1400	750		mg/Kg	500	12/27/2016 8:32:36 PM	29361
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	13	9.6		mg/Kg	1	12/24/2016 3:57:40 AM	29274
Surr: DNOP	89.2	70-130		%Rec	1	12/24/2016 3:57:40 AM	29274
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/21/2016 12:22:41 PM	29265
Surr: BFB	92.8	68.3-144		%Rec	1	12/21/2016 12:22:41 PM	29265
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	12/21/2016 12:22:41 PM	29265
Toluene	ND	0.047		mg/Kg	1	12/21/2016 12:22:41 PM	29265
Ethylbenzene	ND	0.047		mg/Kg	1	12/21/2016 12:22:41 PM	29265
Xylenes, Total	ND	0.093		mg/Kg	1	12/21/2016 12:22:41 PM	29265
Surr: 4-Bromofluorobenzene	99.5	80-120		%Rec	1	12/21/2016 12:22:41 PM	29265

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1612939

Date Reported: 12/29/2016

CLIENT: EOG Resources

Client Sample ID: S2-6'

Project: Amole AMM State 3

Collection Date: 12/15/2016 8:31:00 AM

Lab ID: 1612939-012

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	470	30		mg/Kg	20	12/22/2016 2:44:42 PM	29361
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/24/2016 5:02:03 AM	29274
Surr: DNOP	92.9	70-130		%Rec	1	12/24/2016 5:02:03 AM	29274
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/21/2016 12:46:01 PM	29265
Surr: BFB	88.5	68.3-144		%Rec	1	12/21/2016 12:46:01 PM	29265
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	12/21/2016 12:46:01 PM	29265
Toluene	ND	0.046		mg/Kg	1	12/21/2016 12:46:01 PM	29265
Ethylbenzene	ND	0.046		mg/Kg	1	12/21/2016 12:46:01 PM	29265
Xylenes, Total	ND	0.092		mg/Kg	1	12/21/2016 12:46:01 PM	29265
Surr: 4-Bromofluorobenzene	96.3	80-120		%Rec	1	12/21/2016 12:46:01 PM	29265

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1612939

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S2-8'

Project: Amole AMM State 3

Collection Date: 12/15/2016 9:36:00 AM

Lab ID: 1612939-013

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	170	30		mg/Kg	20	12/22/2016 2:57:06 PM	29361
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/24/2016 5:23:36 AM	29274
Surr: DNOP	93.4	70-130		%Rec	1	12/24/2016 5:23:36 AM	29274
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/21/2016 1:09:37 PM	29265
Surr: BFB	89.7	68.3-144		%Rec	1	12/21/2016 1:09:37 PM	29265
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/21/2016 1:09:37 PM	29265
Toluene	ND	0.049		mg/Kg	1	12/21/2016 1:09:37 PM	29265
Ethylbenzene	ND	0.049		mg/Kg	1	12/21/2016 1:09:37 PM	29265
Xylenes, Total	ND	0.097		mg/Kg	1	12/21/2016 1:09:37 PM	29265
Surr: 4-Bromofluorobenzene	97.2	80-120		%Rec	1	12/21/2016 1:09:37 PM	29265

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1612939

Date Reported: 12/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S2-10'

Project: Amole AMM State 3

Collection Date: 12/15/2016 9:42:00 AM

Lab ID: 1612939-014

Matrix: SOIL

Received Date: 12/16/2016 9:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	150	30		mg/Kg	20	12/22/2016 3:09:31 PM	29361
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/24/2016 5:45:03 AM	29274
Surr: DNOP	90.6	70-130		%Rec	1	12/24/2016 5:45:03 AM	29274
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/21/2016 1:33:02 PM	29265
Surr: BFB	88.7	68.3-144		%Rec	1	12/21/2016 1:33:02 PM	29265
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/21/2016 1:33:02 PM	29265
Toluene	ND	0.047		mg/Kg	1	12/21/2016 1:33:02 PM	29265
Ethylbenzene	ND	0.047		mg/Kg	1	12/21/2016 1:33:02 PM	29265
Xylenes, Total	ND	0.095		mg/Kg	1	12/21/2016 1:33:02 PM	29265
Surr: 4-Bromofluorobenzene	95.4	80-120		%Rec	1	12/21/2016 1:33:02 PM	29265

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1612939

29-Dec-16

Client: EOG Resources
Project: Amole AMM State 3

Sample ID	MB-29361	SampType	mblk	TestCode	EPA Method 300.0: Anions					
Client ID	PBS	Batch ID	29361	RunNo	39626					
Prep Date	12/22/2016	Analysis Date	12/22/2016	SeqNo	1241411	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-29361	SampType	lcs	TestCode	EPA Method 300.0: Anions					
Client ID	LCSS	Batch ID	29361	RunNo	39626					
Prep Date	12/22/2016	Analysis Date	12/22/2016	SeqNo	1241412	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.2	90	110			

Sample ID	MB-29334	SampType	mblk	TestCode	EPA Method 300.0: Anions					
Client ID	PBS	Batch ID	29334	RunNo	39630					
Prep Date	12/21/2016	Analysis Date	12/22/2016	SeqNo	1241440	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-29334	SampType	lcs	TestCode	EPA Method 300.0: Anions					
Client ID	LCSS	Batch ID	29334	RunNo	39630					
Prep Date	12/21/2016	Analysis Date	12/22/2016	SeqNo	1241441	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1612939

29-Dec-16

Client: EOG Resources
Project: Amole AMM State 3

Sample ID	LCS-29273	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	29273	RunNo:	39526					
Prep Date:	12/19/2016	Analysis Date:	12/20/2016	SeqNo:	1238583	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.5	63.8	116			
Surr: DNOP	4.7		5.000		94.4	70	130			

Sample ID	MB-29273	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	29273	RunNo:	39526					
Prep Date:	12/19/2016	Analysis Date:	12/20/2016	SeqNo:	1238584	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10		10.00		99.6	70	130			

Sample ID	LCS-29274	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	29274	RunNo:	39554					
Prep Date:	12/19/2016	Analysis Date:	12/21/2016	SeqNo:	1239312	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.8	63.8	116			
Surr: DNOP	4.2		5.000		84.6	70	130			

Sample ID	MB-29274	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	29274	RunNo:	39554					
Prep Date:	12/19/2016	Analysis Date:	12/21/2016	SeqNo:	1239313	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.2		10.00		82.2	70	130			

Sample ID	MB-29270	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	29270	RunNo:	39590					
Prep Date:	12/19/2016	Analysis Date:	12/22/2016	SeqNo:	1240365	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.7		10.00		86.6	70	130			

Sample ID	LCS-29270	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	29270	RunNo:	39590					
Prep Date:	12/19/2016	Analysis Date:	12/22/2016	SeqNo:	1240399	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.7		10.00		86.6	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1612939

29-Dec-16

Client: EOG Resources
Project: Amole AMM State 3

Sample ID	LCS-29270	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	29270	RunNo:	39590					
Prep Date:	12/19/2016	Analysis Date:	12/22/2016	SeqNo:	1240399	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.4	63.8	116			
Surr: DNOP	3.8		5.000		77.0	70	130			

Sample ID	LCS-29384	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	29384	RunNo:	39672					
Prep Date:	12/23/2016	Analysis Date:	12/28/2016	SeqNo:	1243438	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.2	63.8	116			
Surr: DNOP	4.1		5.000		82.6	70	130			

Sample ID	MB-29384	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	29384	RunNo:	39672					
Prep Date:	12/23/2016	Analysis Date:	12/28/2016	SeqNo:	1243440	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.7		10.00		86.6	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1612939

29-Dec-16

Client: EOG Resources

Project: Amole AMM State 3

Sample ID	MB-29265	SampType	MBLK	TestCode	EPA Method 8015D: Gasoline Range					
Client ID	PBS	Batch ID	29265	RunNo	39531					
Prep Date	12/19/2016	Analysis Date	12/20/2016	SeqNo	1238292	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		89.5	68.3	144			

Sample ID	LCS-29265	SampType	LCS	TestCode	EPA Method 8015D: Gasoline Range					
Client ID	LCSS	Batch ID	29265	RunNo	39531					
Prep Date	12/19/2016	Analysis Date	12/20/2016	SeqNo	1238293	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	74.6	123			
Surr: BFB	1100		1000		111	68.3	144			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1612939

29-Dec-16

Client: EOG Resources
Project: Amole AMM State 3

Sample ID	MB-29265	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	29265	RunNo:	39531					
Prep Date:	12/19/2016	Analysis Date:	12/20/2016	SeqNo:	1238327	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID	LCS-29265	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	29265	RunNo:	39531					
Prep Date:	12/19/2016	Analysis Date:	12/20/2016	SeqNo:	1238328	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.6	75.2	115			
Toluene	1.0	0.050	1.000	0	99.6	80.7	112			
Ethylbenzene	1.0	0.050	1.000	0	101	78.9	117			
Xylenes, Total	3.1	0.10	3.000	0	102	79.2	115			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG/Yates

Work Order Number: 1612939

RcptNo: 1

Received by/date:

Logged By: Ashley Gallegos

12/16/2016 9:05:00 AM

Completed By: Ashley Gallegos

12/19/2016 8:46:52 AM

Reviewed By:

Chain of Custody

1. Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

2. Is Chain of Custody complete?

Yes ☒

No ☐

Not Present ☐

3. How was the sample delivered?

Courier

Log In

4. Was an attempt made to cool the samples?

Yes ☒

No ☐

NA ☐

5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ?

Yes ☒

No ☐

NA ☐

6. Sample(s) in proper container(s)?

Yes ☒

No ☐

7. Sufficient sample volume for indicated test(s)?

Yes ☒

No ☐

8. Are samples (except VOA and ONG) properly preserved?

Yes ☒

No ☐

9. Was preservative added to bottles?

Yes ☐

No ☒

NA ☐

10. VOA vials have zero headspace?

Yes ☐

No ☐

No VOA Vials ☒

11. Were any sample containers received broken?

Yes ☐

No ☒

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

12. Does paperwork match bottle labels?

Yes ☒

No ☐

(Note discrepancies on chain of custody)

13. Are matrices correctly identified on Chain of Custody?

Yes ☒

No ☐

14. Is it clear what analyses were requested?

Yes ☒

No ☐

15. Were all holding times able to be met?

Yes ☒

No ☐

(If no, notify customer for authorization.)

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order?

Yes ☐

No ☐

NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.5	Good	Yes			

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

3TEX + MTBE + TMB's (8021)	3TEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F ⁻ , Cl ⁻ , NO ₃ ⁻ , PO ₄ ⁻ , SO ₄ ⁻)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Alr Bubbles (Y or N)
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[illegible]

if necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.