



Site Ranking is Zero (0). DTGW >100' (approx 120', Section 34, T20S-R25E, per NMOSE)

All results are ppm, Chlorides for documentation.

Released: 22 B/O & 34 B/PW Recovered: 21 B/O & 32 B/PW Release Date: 11/11/2016

1612931	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S1-1'	Release Area	12/13/2016	Backhoe	1'	ND	ND	ND	56
S1-2'	Release Area	12/13/2016	Backhoe	2'	ND	ND	ND	56
S1-3'	Release Area	12/13/2016	Backhoe	3'	ND	ND	ND	87
S1-4'	Release Area	12/13/2016	Backhoe	4'	ND	ND	ND	140
S2-1'	Release Area	12/13/2016	Backhoe	1'	ND	ND	ND	560
S2-2'	Release Area	12/13/2016	Backhoe	2'	ND	ND	ND	ND
S2-3'	Release Area	12/13/2016	Backhoe	3'	ND	ND	ND	ND
S2-4'	Release Area	12/13/2016	Backhoe	4'	ND	ND	ND	ND
S3-1'	Release Area	12/13/2016	Backhoe	1'	ND	ND	ND	ND
S3-2'	Release Area	12/13/2016	Backhoe	2'	ND	ND	ND	ND
S3-3'	Release Area	12/13/2016	Backhoe	3'	ND	ND	ND	ND
S3-4'	Release Area	12/13/2016	Backhoe	4'	ND	ND	ND	ND



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

December 27, 2016

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

RE: Kiawah BFQ Federal 1

OrderNo.: 1612931

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 12 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 1612931

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S1-1'

Project: Kiawah BFQ Federal 1

Collection Date: 12/13/2016 8:03:00 AM

Lab ID: 1612931-001

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: MRA
Chloride	56	30		mg/Kg	20	12/21/2016 1:44:50 AM	29317
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/22/2016 1:10:23 AM	29274
Surr: DNOP	76.2	70-130		%Rec	1	12/22/2016 1:10:23 AM	29274
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/20/2016 6:58:08 PM	29268
Surr: BFB	85.7	68.3-144		%Rec	1	12/20/2016 6:58:08 PM	29268
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/20/2016 6:58:08 PM	29268
Toluene	ND	0.050		mg/Kg	1	12/20/2016 6:58:08 PM	29268
Ethylbenzene	ND	0.050		mg/Kg	1	12/20/2016 6:58:08 PM	29268
Xylenes, Total	ND	0.099		mg/Kg	1	12/20/2016 6:58:08 PM	29268
Surr: 4-Bromofluorobenzene	90.8	80-120		%Rec	1	12/20/2016 6:58:08 PM	29268

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 1612931

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S1-2'

Project: Kiawah BFQ Federal 1

Collection Date: 12/13/2016 8:05:00 AM

Lab ID: 1612931-002

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: MRA
Chloride	56	30		mg/Kg	20	12/21/2016 6:24:43 PM	29317
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/22/2016 1:37:26 AM	29274
Surr: DNOP	79.4	70-130		%Rec	1	12/22/2016 1:37:26 AM	29274
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/20/2016 8:10:33 PM	29268
Surr: BFB	84.1	68.3-144		%Rec	1	12/20/2016 8:10:33 PM	29268
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/20/2016 8:10:33 PM	29268
Toluene	ND	0.048		mg/Kg	1	12/20/2016 8:10:33 PM	29268
Ethylbenzene	ND	0.048		mg/Kg	1	12/20/2016 8:10:33 PM	29268
Xylenes, Total	ND	0.095		mg/Kg	1	12/20/2016 8:10:33 PM	29268
Surr: 4-Bromofluorobenzene	90.1	80-120		%Rec	1	12/20/2016 8:10:33 PM	29268

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 1612931

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S1-3'

Project: Kiawah BFQ Federal 1

Collection Date: 12/13/2016 8:08:00 AM

Lab ID: 1612931-003

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: MRA
Chloride	87	30		mg/Kg	20	12/21/2016 12:12:27 PM	29333
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/22/2016 2:04:25 AM	29274
Surr: DNOP	75.7	70-130		%Rec	1	12/22/2016 2:04:25 AM	29274
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/20/2016 9:22:41 PM	29268
Surr: BFB	84.8	68.3-144		%Rec	1	12/20/2016 9:22:41 PM	29268
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/20/2016 9:22:41 PM	29268
Toluene	ND	0.049		mg/Kg	1	12/20/2016 9:22:41 PM	29268
Ethylbenzene	ND	0.049		mg/Kg	1	12/20/2016 9:22:41 PM	29268
Xylenes, Total	ND	0.098		mg/Kg	1	12/20/2016 9:22:41 PM	29268
Surr: 4-Bromofluorobenzene	88.1	80-120		%Rec	1	12/20/2016 9:22:41 PM	29268

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 1612931

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S1-4'

Project: Kiawah BFQ Federal 1

Collection Date: 12/13/2016 8:10:00 AM

Lab ID: 1612931-004

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	140	30		mg/Kg	20	12/21/2016 12:49:41 PM	29333
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/22/2016 2:31:21 AM	29274
Surr: DNOP	70.4	70-130		%Rec	1	12/22/2016 2:31:21 AM	29274
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/20/2016 9:46:38 PM	29268
Surr: BFB	85.7	68.3-144		%Rec	1	12/20/2016 9:46:38 PM	29268
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/20/2016 9:46:38 PM	29268
Toluene	ND	0.047		mg/Kg	1	12/20/2016 9:46:38 PM	29268
Ethylbenzene	ND	0.047		mg/Kg	1	12/20/2016 9:46:38 PM	29268
Xylenes, Total	ND	0.095		mg/Kg	1	12/20/2016 9:46:38 PM	29268
Surr: 4-Bromofluorobenzene	92.5	80-120		%Rec	1	12/20/2016 9:46:38 PM	29268

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 1612931

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S2-1'

Project: Kiawah BFQ Federal 1

Collection Date: 12/13/2016 8:29:00 AM

Lab ID: 1612931-005

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	560	30		mg/Kg	20	12/21/2016 1:02:06 PM	29333
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/24/2016 6:50:02 AM	29274
Surr: DNOP	71.7	70-130		%Rec	1	12/24/2016 6:50:02 AM	29274
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/20/2016 10:10:40 PM	29268
Surr: BFB	85.6	68.3-144		%Rec	1	12/20/2016 10:10:40 PM	29268
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/20/2016 10:10:40 PM	29268
Toluene	ND	0.049		mg/Kg	1	12/20/2016 10:10:40 PM	29268
Ethylbenzene	ND	0.049		mg/Kg	1	12/20/2016 10:10:40 PM	29268
Xylenes, Total	ND	0.098		mg/Kg	1	12/20/2016 10:10:40 PM	29268
Surr: 4-Bromofluorobenzene	91.3	80-120		%Rec	1	12/20/2016 10:10:40 PM	29268

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 1612931

Date Reported: 12/27/2016

CLIENT: EOG Resources

Client Sample ID: S2-2'

Project: Kiawah BFQ Federal 1

Collection Date: 12/13/2016 8:31:00 AM

Lab ID: 1612931-006

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	ND	30		mg/Kg	20	12/21/2016 1:14:31 PM	29333
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/22/2016 3:25:35 AM	29274
Surr: DNOP	74.4	70-130		%Rec	1	12/22/2016 3:25:35 AM	29274
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/20/2016 10:34:42 PM	29268
Surr: BFB	82.8	68.3-144		%Rec	1	12/20/2016 10:34:42 PM	29268
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/20/2016 10:34:42 PM	29268
Toluene	ND	0.048		mg/Kg	1	12/20/2016 10:34:42 PM	29268
Ethylbenzene	ND	0.048		mg/Kg	1	12/20/2016 10:34:42 PM	29268
Xylenes, Total	ND	0.097		mg/Kg	1	12/20/2016 10:34:42 PM	29268
Surr: 4-Bromofluorobenzene	87.8	80-120		%Rec	1	12/20/2016 10:34:42 PM	29268

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 1612931

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S2-3'

Project: Kiawah BFQ Federal 1

Collection Date: 12/13/2016 8:33:00 AM

Lab ID: 1612931-007

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	ND	30		mg/Kg	20	12/21/2016 1:26:56 PM	29333
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/21/2016 4:53:36 PM	29282
Surr: DNOP	107	70-130		%Rec	1	12/21/2016 4:53:36 PM	29282
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/20/2016 10:58:45 PM	29268
Surr: BFB	82.8	68.3-144		%Rec	1	12/20/2016 10:58:45 PM	29268
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/20/2016 10:58:45 PM	29268
Toluene	ND	0.049		mg/Kg	1	12/20/2016 10:58:45 PM	29268
Ethylbenzene	ND	0.049		mg/Kg	1	12/20/2016 10:58:45 PM	29268
Xylenes, Total	ND	0.097		mg/Kg	1	12/20/2016 10:58:45 PM	29268
Surr: 4-Bromofluorobenzene	85.7	80-120		%Rec	1	12/20/2016 10:58:45 PM	29268

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 1612931

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S2-4'

Project: Kiawah BFQ Federal 1

Collection Date: 12/13/2016 8:35:00 AM

Lab ID: 1612931-008

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: MRA
Chloride	ND	30		mg/Kg	20	12/21/2016 2:04:10 PM	29333
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/21/2016 6:03:41 PM	29282
Surr: DNOP	104	70-130		%Rec	1	12/21/2016 6:03:41 PM	29282
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/21/2016 12:34:31 AM	29268
Surr: BFB	82.4	68.3-144		%Rec	1	12/21/2016 12:34:31 AM	29268
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/21/2016 12:34:31 AM	29268
Toluene	ND	0.049		mg/Kg	1	12/21/2016 12:34:31 AM	29268
Ethylbenzene	ND	0.049		mg/Kg	1	12/21/2016 12:34:31 AM	29268
Xylenes, Total	ND	0.099		mg/Kg	1	12/21/2016 12:34:31 AM	29268
Surr: 4-Bromofluorobenzene	87.1	80-120		%Rec	1	12/21/2016 12:34:31 AM	29268

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 1612931

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S3-1'

Project: Kiawah BFQ Federal 1

Collection Date: 12/13/2016 9:02:00 AM

Lab ID: 1612931-009

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: MRA
Chloride	ND	30		mg/Kg	20	12/21/2016 2:16:35 PM	29333
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/21/2016 6:26:56 PM	29282
Surr: DNOP	103	70-130		%Rec	1	12/21/2016 6:26:56 PM	29282
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/21/2016 12:58:21 AM	29268
Surr: BFB	84.8	68.3-144		%Rec	1	12/21/2016 12:58:21 AM	29268
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/21/2016 12:58:21 AM	29268
Toluene	ND	0.048		mg/Kg	1	12/21/2016 12:58:21 AM	29268
Ethylbenzene	ND	0.048		mg/Kg	1	12/21/2016 12:58:21 AM	29268
Xylenes, Total	ND	0.097		mg/Kg	1	12/21/2016 12:58:21 AM	29268
Surr: 4-Bromofluorobenzene	90.5	80-120		%Rec	1	12/21/2016 12:58:21 AM	29268

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 1612931

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S3-2'

Project: Kiawah BFQ Federal 1

Collection Date: 12/13/2016 9:04:00 AM

Lab ID: 1612931-010

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	ND	30		mg/Kg	20	12/21/2016 2:28:59 PM	29333
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/21/2016 6:50:16 PM	29282
Surr: DNOP	114	70-130		%Rec	1	12/21/2016 6:50:16 PM	29282
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/21/2016 1:22:11 AM	29268
Surr: BFB	87.2	68.3-144		%Rec	1	12/21/2016 1:22:11 AM	29268
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/21/2016 1:22:11 AM	29268
Toluene	ND	0.049		mg/Kg	1	12/21/2016 1:22:11 AM	29268
Ethylbenzene	ND	0.049		mg/Kg	1	12/21/2016 1:22:11 AM	29268
Xylenes, Total	ND	0.098		mg/Kg	1	12/21/2016 1:22:11 AM	29268
Surr: 4-Bromofluorobenzene	93.6	80-120		%Rec	1	12/21/2016 1:22:11 AM	29268

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 1612931

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S3-3'

Project: Kiawah BFQ Federal 1

Collection Date: 12/13/2016 9:05:00 AM

Lab ID: 1612931-011

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: MRA
Chloride	ND	30		mg/Kg	20	12/21/2016 2:41:23 PM	29333
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/21/2016 7:13:33 PM	29282
Surr: DNOP	101	70-130		%Rec	1	12/21/2016 7:13:33 PM	29282
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/21/2016 1:46:02 AM	29268
Surr: BFB	95.4	68.3-144		%Rec	1	12/21/2016 1:46:02 AM	29268
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/21/2016 1:46:02 AM	29268
Toluene	ND	0.048		mg/Kg	1	12/21/2016 1:46:02 AM	29268
Ethylbenzene	ND	0.048		mg/Kg	1	12/21/2016 1:46:02 AM	29268
Xylenes, Total	ND	0.096		mg/Kg	1	12/21/2016 1:46:02 AM	29268
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	12/21/2016 1:46:02 AM	29268

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 1612931

Date Reported: 12/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S3-4'

Project: Kiawah BFQ Federal 1

Collection Date: 12/13/2016 9:08:00 AM

Lab ID: 1612931-012

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	ND	30		mg/Kg	20	12/21/2016 2:53:48 PM	29333
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	12/21/2016 7:36:50 PM	29282
Surr: DNOP	105	70-130		%Rec	1	12/21/2016 7:36:50 PM	29282
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/21/2016 2:09:52 AM	29268
Surr: BFB	94.4	68.3-144		%Rec	1	12/21/2016 2:09:52 AM	29268
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/21/2016 2:09:52 AM	29268
Toluene	ND	0.048		mg/Kg	1	12/21/2016 2:09:52 AM	29268
Ethylbenzene	ND	0.048		mg/Kg	1	12/21/2016 2:09:52 AM	29268
Xylenes, Total	ND	0.095		mg/Kg	1	12/21/2016 2:09:52 AM	29268
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	12/21/2016 2:09:52 AM	29268

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#: 1612931

27-Dec-16

Client: EOG Resources

Project: Kiawah BFQ Federal 1

Sample ID	MB-29317	SampType:	mblk	TestCode:	EPA Method 300.0: Anions
Client ID:	PBS	Batch ID:	29317	RunNo:	39558
Prep Date:	12/20/2016	Analysis Date:	12/20/2016	SeqNo:	1238865 Units: mg/Kg
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5			

Sample ID	LCS-29317	SampType:	lcs	TestCode:	EPA Method 300.0: Anions
Client ID:	LCSS	Batch ID:	29317	RunNo:	39558
Prep Date:	12/20/2016	Analysis Date:	12/20/2016	SeqNo:	1238866 Units: mg/Kg
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5	15.00	0	94.3 90 110

Sample ID	MB-29333	SampType:	mblk	TestCode:	EPA Method 300.0: Anions
Client ID:	PBS	Batch ID:	29333	RunNo:	39597
Prep Date:	12/21/2016	Analysis Date:	12/21/2016	SeqNo:	1240228 Units: mg/Kg
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5			

Sample ID	LCS-29333	SampType:	lcs	TestCode:	EPA Method 300.0: Anions
Client ID:	LCSS	Batch ID:	29333	RunNo:	39597
Prep Date:	12/21/2016	Analysis Date:	12/21/2016	SeqNo:	1240229 Units: mg/Kg
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5	15.00	0	96.0 90 110

Sample ID	LCS-29333	SampType:	lcs	TestCode:	EPA Method 300.0: Anions
Client ID:	LCSS	Batch ID:	29333	RunNo:	39597
Prep Date:	12/21/2016	Analysis Date:	12/21/2016	SeqNo:	1240230 Units: mg/Kg
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5	15.00	0	96.1 90 110

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#: 1612931

27-Dec-16

Client: EOG Resources

Project: Kiawah BFQ Federal 1

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	LCS-29282		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 29282		RunNo: 39576					
Prep Date:	12/19/2016		Analysis Date: 12/21/2016		SeqNo: 1239546		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	107	63.8	116			
Surr: DNOP	5.4		5.000		107	70	130			

Sample ID	MB-29282		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	29282		RunNo:	39576				
Prep Date:	12/19/2016		Analysis Date:	12/21/2016		SeqNo:	1239547		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	11		10.00		110	70	130				

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#: 1612931

27-Dec-16

Client: EOG Resources

Project: Kiawah BFQ Federal 1

Sample ID	MB-29268	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	29268	RunNo:	39532					
Prep Date:	12/19/2016	Analysis Date:	12/20/2016	SeqNo:	1238359	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	890		1000		89.2	68.3	144			

Sample ID	LCS-29268	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	29268	RunNo:	39532					
Prep Date:	12/19/2016	Analysis Date:	12/20/2016	SeqNo:	1238360	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	74.6	123			
Surr: BFB	880		1000		88.0	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#: 1612931

27-Dec-16

Client: EOG Resources

Project: Kiawah BFQ Federal 1

Sample ID	MB-29268	SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	PBS	Batch ID:	29268		RunNo:	39532				
Prep Date:	12/19/2016	Analysis Date:	12/20/2016		SeqNo:	1238388		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	0.96		1.000		96.2	80	120			

Sample ID	LCS-29268		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 29268		RunNo: 39532					
Prep Date:	12/19/2016		Analysis Date: 12/20/2016		SeqNo: 1238389		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	107	75.2	115			
Toluene	1.0	0.050	1.000	0	105	80.7	112			
Ethylbenzene	1.0	0.050	1.000	0	99.7	78.9	117			
Xylenes, Total	2.9	0.10	3.000	0	96.8	79.2	115			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.0	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: 1612931

RcptNo: 1

Received by/date:

AG

12/16/16

Logged By:

Ashley Gallegos

12/16/2016 9:05:00 AM

Completed By:

Ashley Gallegos

12/16/2016 3:04:36 PM

Reviewed By:

AG

12/19/16

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 ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
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?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

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			

