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Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Project:

EOG Frac Rig

Client Sample ID: S-031717-CN-S16"

Collection Date: 3/17/2017 1:43:00 PM

Lab ID: 1703999-001 **Matrix:** SOIL **Received Date:** 3/20/2017 12:04:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: MRA
Chloride	ND	30	mg/Kg	20	3/21/2017 11:02:57 AM	30827
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analys	:: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/21/2017 9:53:13 AM	30802
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/21/2017 9:53:13 AM	30802
Surr: DNOP	102	70-130	%Rec	1	3/21/2017 9:53:13 AM	30802
EPA METHOD 8015D: GASOLINE RANG	GE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/21/2017 9:03:00 AM	30800
Surr: BFB	75.6	54-150	%Rec	1	3/21/2017 9:03:00 AM	30800
EPA METHOD 8021B: VOLATILES					Analys	:: NSB
Benzene	ND	0.024	mg/Kg	1	3/21/2017 9:03:00 AM	30800
Toluene	ND	0.049	mg/Kg	1	3/21/2017 9:03:00 AM	30800
Ethylbenzene	ND	0.049	mg/Kg	1	3/21/2017 9:03:00 AM	30800
Xylenes, Total	ND	0.097	mg/Kg	1	3/21/2017 9:03:00 AM	30800
Surr: 4-Bromofluorobenzene	83.1	66.6-132	%Rec	1	3/21/2017 9:03:00 AM	30800

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

- 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 Page 1 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

EOG Frac Rig

Project:

Client Sample ID: S-031717-CN-S26"

Collection Date: 3/17/2017 2:05:00 PM

Lab ID: 1703999-002 **Matrix:** SOIL **Received Date:** 3/20/2017 12:04:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	ND	30	mg/Kg	20	3/21/2017 11:15:22 A	M 30827
EPA METHOD 8015M/D: DIESEL RAM	NGE ORGANICS				Analy	st: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/21/2017 10:15:16 A	M 30802
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/21/2017 10:15:16 A	M 30802
Surr: DNOP	112	70-130	%Rec	1	3/21/2017 10:15:16 A	M 30802
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/21/2017 9:29:24 AM	1 30800
Surr: BFB	74.3	54-150	%Rec	1	3/21/2017 9:29:24 AM	1 30800
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.025	mg/Kg	1	3/21/2017 9:29:24 AM	1 30800
Toluene	ND	0.050	mg/Kg	1	3/21/2017 9:29:24 AM	1 30800
Ethylbenzene	ND	0.050	mg/Kg	1	3/21/2017 9:29:24 AM	1 30800
Xylenes, Total	ND	0.10	mg/Kg	1	3/21/2017 9:29:24 AM	1 30800
Surr: 4-Bromofluorobenzene	80.6	66.6-132	%Rec	1	3/21/2017 9:29:24 AM	1 30800

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

- * 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 Page 2 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT:GHDClient Sample ID: S-031717-CN-S36"Project:EOG Frac RigCollection Date: 3/17/2017 2:21:00 PM

Lab ID: 1703999-003 **Matrix:** SOIL **Received Date:** 3/20/2017 12:04:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	ND	30	mg/Kg	20	3/21/2017 11:27:46 A	M 30827
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;			Analy	st: TOM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	3/21/2017 10:37:14 A	M 30802
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/21/2017 10:37:14 A	M 30802
Surr: DNOP	113	70-130	%Rec	1	3/21/2017 10:37:14 A	M 30802
EPA METHOD 8015D: GASOLINE RAI	NGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/21/2017 12:59:55 P	M 30800
Surr: BFB	75.2	54-150	%Rec	1	3/21/2017 12:59:55 P	M 30800
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.024	mg/Kg	1	3/21/2017 12:59:55 P	M 30800
Toluene	ND	0.048	mg/Kg	1	3/21/2017 12:59:55 P	M 30800
Ethylbenzene	ND	0.048	mg/Kg	1	3/21/2017 12:59:55 P	M 30800
Xylenes, Total	ND	0.097	mg/Kg	1	3/21/2017 12:59:55 P	M 30800
Surr: 4-Bromofluorobenzene	82.5	66.6-132	%Rec	1	3/21/2017 12:59:55 P	M 30800

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

- 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 Page 3 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT:GHDClient Sample ID: S-031717-CN-S46"Project:EOG Frac RigCollection Date: 3/17/2017 2:37:00 PM

Lab ID: 1703999-004 **Matrix:** SOIL **Received Date:** 3/20/2017 12:04:00 PM

Analyses	Result	PQL Q	ual Units	DF Date Analy	zed Batch
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20 3/21/2017 11	:40:11 AM 30827
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1 3/21/2017 10):59:38 AM 30802
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1 3/21/2017 10):59:38 AM 30802
Surr: DNOP	134	70-130	S %Rec	1 3/21/2017 10):59:38 AM 30802
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1 3/21/2017 1::	26:14 PM 30800
Surr: BFB	69.2	54-150	%Rec	1 3/21/2017 1::	26:14 PM 30800
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1 3/21/2017 1::	26:14 PM 30800
Toluene	ND	0.048	mg/Kg	1 3/21/2017 1:	26:14 PM 30800
Ethylbenzene	ND	0.048	mg/Kg	1 3/21/2017 1:	26:14 PM 30800
Xylenes, Total	ND	0.096	mg/Kg	1 3/21/2017 1::	26:14 PM 30800
Surr: 4-Bromofluorobenzene	77.4	66.6-132	%Rec	1 3/21/2017 1::	26:14 PM 30800

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

- * 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 Page 4 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified