



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

September 23, 2016

Kerry Egan  
Agave Energy Company  
P.O. Box 158  
Artesia, NM 88211  
TEL: (575) 513-8988  
FAX

RE: Campbell Road Leak

OrderNo.: 1609C73

Dear Kerry Egan:

Hall Environmental Analysis Laboratory received 12 sample(s) on 9/22/2016 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](http://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 white background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1609C73

Date Reported: 9/23/2016

**CLIENT:** Agave Energy Company

**Client Sample ID:** (T-3M-N) North

**Project:** Campbell Road Leak

**Collection Date:** 9/20/2016 11:00:00 AM

**Lab ID:** 1609C73-001

**Matrix:** MEOH (SOIL)

**Received Date:** 9/22/2016 10:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	9/22/2016 1:20:53 PM	27672
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	9/22/2016 11:49:09 AM	M37409
Surr: BFB	105	70-130		%Rec	1	9/22/2016 11:49:09 AM	M37409
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/22/2016 11:44:14 AM	27651
Surr: DNOP	92.6	70-130		%Rec	1	9/22/2016 11:44:14 AM	27651
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.017		mg/Kg	1	9/22/2016 11:49:09 AM	S37409
Toluene	ND	0.034		mg/Kg	1	9/22/2016 11:49:09 AM	S37409
Ethylbenzene	ND	0.034		mg/Kg	1	9/22/2016 11:49:09 AM	S37409
Xylenes, Total	ND	0.069		mg/Kg	1	9/22/2016 11:49:09 AM	S37409
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	9/22/2016 11:49:09 AM	S37409
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	9/22/2016 11:49:09 AM	S37409
Surr: Dibromofluoromethane	106	70-130		%Rec	1	9/22/2016 11:49:09 AM	S37409
Surr: Toluene-d8	95.2	70-130		%Rec	1	9/22/2016 11:49:09 AM	S37409

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 1609C73

Date Reported: 9/23/2016

**CLIENT:** Agave Energy Company

**Client Sample ID:** (T-3M-N) East

**Project:** Campbell Road Leak

**Collection Date:** 9/20/2016 11:00:00 AM

**Lab ID:** 1609C73-002

**Matrix:** MEOH (SOIL)

**Received Date:** 9/22/2016 10:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	9/22/2016 1:33:18 PM	27672
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	9/22/2016 12:17:56 PM	M37409
Surr: BFB	105	70-130		%Rec	1	9/22/2016 12:17:56 PM	M37409
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/22/2016 12:06:00 PM	27651
Surr: DNOP	95.3	70-130		%Rec	1	9/22/2016 12:06:00 PM	27651
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.018		mg/Kg	1	9/22/2016 12:17:56 PM	S37409
Toluene	ND	0.036		mg/Kg	1	9/22/2016 12:17:56 PM	S37409
Ethylbenzene	ND	0.036		mg/Kg	1	9/22/2016 12:17:56 PM	S37409
Xylenes, Total	ND	0.072		mg/Kg	1	9/22/2016 12:17:56 PM	S37409
Surr: 1,2-Dichloroethane-d4	94.4	70-130		%Rec	1	9/22/2016 12:17:56 PM	S37409
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	9/22/2016 12:17:56 PM	S37409
Surr: Dibromofluoromethane	107	70-130		%Rec	1	9/22/2016 12:17:56 PM	S37409
Surr: Toluene-d8	96.3	70-130		%Rec	1	9/22/2016 12:17:56 PM	S37409

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 1609C73

Date Reported: 9/23/2016

**CLIENT:** Agave Energy Company

**Client Sample ID:** (T-3M-N) South

**Project:** Campbell Road Leak

**Collection Date:** 9/20/2016 11:00:00 AM

**Lab ID:** 1609C73-003

**Matrix:** MEOH (SOIL)

**Received Date:** 9/22/2016 10:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	9/22/2016 1:45:42 PM	27672
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	9/22/2016 12:46:45 PM	M37409
Surr: BFB	101	70-130		%Rec	1	9/22/2016 12:46:45 PM	M37409
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/22/2016 12:27:50 PM	27651
Surr: DNOP	97.2	70-130		%Rec	1	9/22/2016 12:27:50 PM	27651
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.017		mg/Kg	1	9/22/2016 12:46:45 PM	S37409
Toluene	ND	0.034		mg/Kg	1	9/22/2016 12:46:45 PM	S37409
Ethylbenzene	ND	0.034		mg/Kg	1	9/22/2016 12:46:45 PM	S37409
Xylenes, Total	ND	0.067		mg/Kg	1	9/22/2016 12:46:45 PM	S37409
Surr: 1,2-Dichloroethane-d4	96.5	70-130		%Rec	1	9/22/2016 12:46:45 PM	S37409
Surr: 4-Bromofluorobenzene	92.3	70-130		%Rec	1	9/22/2016 12:46:45 PM	S37409
Surr: Dibromofluoromethane	108	70-130		%Rec	1	9/22/2016 12:46:45 PM	S37409
Surr: Toluene-d8	93.4	70-130		%Rec	1	9/22/2016 12:46:45 PM	S37409

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 1609C73

Date Reported: 9/23/2016

**CLIENT:** Agave Energy Company

**Client Sample ID:** (T-3M-N) West

**Project:** Campbell Road Leak

**Collection Date:** 9/20/2016 11:00:00 AM

**Lab ID:** 1609C73-004

**Matrix:** MEOH (SOIL)

**Received Date:** 9/22/2016 10:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	9/22/2016 1:58:07 PM	27672
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	9/22/2016 1:15:39 PM	M37409
Surr: BFB	106	70-130		%Rec	1	9/22/2016 1:15:39 PM	M37409
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/22/2016 12:49:23 PM	27651
Surr: DNOP	96.6	70-130		%Rec	1	9/22/2016 12:49:23 PM	27651
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.017		mg/Kg	1	9/22/2016 1:15:39 PM	S37409
Toluene	ND	0.034		mg/Kg	1	9/22/2016 1:15:39 PM	S37409
Ethylbenzene	ND	0.034		mg/Kg	1	9/22/2016 1:15:39 PM	S37409
Xylenes, Total	ND	0.068		mg/Kg	1	9/22/2016 1:15:39 PM	S37409
Surr: 1,2-Dichloroethane-d4	98.7	70-130		%Rec	1	9/22/2016 1:15:39 PM	S37409
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	9/22/2016 1:15:39 PM	S37409
Surr: Dibromofluoromethane	105	70-130		%Rec	1	9/22/2016 1:15:39 PM	S37409
Surr: Toluene-d8	92.0	70-130		%Rec	1	9/22/2016 1:15:39 PM	S37409

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 1609C73

Date Reported: 9/23/2016

**CLIENT:** Agave Energy Company

**Client Sample ID:** (T-4F-S) North

**Project:** Campbell Road Leak

**Collection Date:** 9/20/2016 11:00:00 AM

**Lab ID:** 1609C73-005

**Matrix:** MEOH (SOIL)

**Received Date:** 9/22/2016 10:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	9/22/2016 2:10:31 PM	27672
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	9/22/2016 1:44:29 PM	M37409
Surr: BFB	102	70-130		%Rec	1	9/22/2016 1:44:29 PM	M37409
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	9/22/2016 1:11:11 PM	27651
Surr: DNOP	99.3	70-130		%Rec	1	9/22/2016 1:11:11 PM	27651
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.018		mg/Kg	1	9/22/2016 1:44:29 PM	S37409
Toluene	ND	0.036		mg/Kg	1	9/22/2016 1:44:29 PM	S37409
Ethylbenzene	ND	0.036		mg/Kg	1	9/22/2016 1:44:29 PM	S37409
Xylenes, Total	ND	0.073		mg/Kg	1	9/22/2016 1:44:29 PM	S37409
Surr: 1,2-Dichloroethane-d4	95.7	70-130		%Rec	1	9/22/2016 1:44:29 PM	S37409
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	1	9/22/2016 1:44:29 PM	S37409
Surr: Dibromofluoromethane	109	70-130		%Rec	1	9/22/2016 1:44:29 PM	S37409
Surr: Toluene-d8	94.9	70-130		%Rec	1	9/22/2016 1:44:29 PM	S37409

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 1609C73

Date Reported: 9/23/2016

**CLIENT:** Agave Energy Company

**Client Sample ID:** (T-4F-S) East

**Project:** Campbell Road Leak

**Collection Date:** 9/20/2016 11:00:00 AM

**Lab ID:** 1609C73-006

**Matrix:** MEOH (SOIL)

**Received Date:** 9/22/2016 10:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	9/22/2016 2:22:56 PM	27672
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	9/22/2016 2:13:19 PM	M37409
Surr: BFB	103	70-130		%Rec	1	9/22/2016 2:13:19 PM	M37409
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/22/2016 1:32:45 PM	27651
Surr: DNOP	96.8	70-130		%Rec	1	9/22/2016 1:32:45 PM	27651
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.017		mg/Kg	1	9/22/2016 2:13:19 PM	S37409
Toluene	ND	0.034		mg/Kg	1	9/22/2016 2:13:19 PM	S37409
Ethylbenzene	ND	0.034		mg/Kg	1	9/22/2016 2:13:19 PM	S37409
Xylenes, Total	ND	0.068		mg/Kg	1	9/22/2016 2:13:19 PM	S37409
Surr: 1,2-Dichloroethane-d4	98.7	70-130		%Rec	1	9/22/2016 2:13:19 PM	S37409
Surr: 4-Bromofluorobenzene	90.7	70-130		%Rec	1	9/22/2016 2:13:19 PM	S37409
Surr: Dibromofluoromethane	107	70-130		%Rec	1	9/22/2016 2:13:19 PM	S37409
Surr: Toluene-d8	93.0	70-130		%Rec	1	9/22/2016 2:13:19 PM	S37409

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 1609C73

Date Reported: 9/23/2016

**CLIENT:** Agave Energy Company

**Client Sample ID:** (T-4F-S) South

**Project:** Campbell Road Leak

**Collection Date:** 9/20/2016 11:00:00 AM

**Lab ID:** 1609C73-007

**Matrix:** MEOH (SOIL)

**Received Date:** 9/22/2016 10:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	9/22/2016 2:35:21 PM	27672
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/22/2016 1:31:12 PM	27651
Surr: DNOP	95.0	70-130		%Rec	1	9/22/2016 1:31:12 PM	27651
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	9/22/2016 11:38:41 AM	SG37405
Surr: BFB	82.4	68.3-144		%Rec	1	9/22/2016 11:38:41 AM	SG37405
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.017		mg/Kg	1	9/22/2016 11:38:41 AM	SB37405
Toluene	ND	0.034		mg/Kg	1	9/22/2016 11:38:41 AM	SB37405
Ethylbenzene	ND	0.034		mg/Kg	1	9/22/2016 11:38:41 AM	SB37405
Xylenes, Total	ND	0.068		mg/Kg	1	9/22/2016 11:38:41 AM	SB37405
Surr: 4-Bromofluorobenzene	99.8	80-120		%Rec	1	9/22/2016 11:38:41 AM	SB37405

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

<b>Qualifiers:</b>	* 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 1609C73

Date Reported: 9/23/2016

**CLIENT:** Agave Energy Company

**Client Sample ID:** (T-4F-S) West

**Project:** Campbell Road Leak

**Collection Date:** 9/20/2016 11:00:00 AM

**Lab ID:** 1609C73-008

**Matrix:** MEOH (SOIL)

**Received Date:** 9/22/2016 10:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	9/22/2016 2:47:46 PM	27672
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/22/2016 1:09:18 PM	27651
Surr: DNOP	90.3	70-130		%Rec	1	9/22/2016 1:09:18 PM	27651
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	9/22/2016 12:02:50 PM	SG37405
Surr: BFB	86.6	68.3-144		%Rec	1	9/22/2016 12:02:50 PM	SG37405
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.016		mg/Kg	1	9/22/2016 12:02:50 PM	SB37405
Toluene	ND	0.033		mg/Kg	1	9/22/2016 12:02:50 PM	SB37405
Ethylbenzene	ND	0.033		mg/Kg	1	9/22/2016 12:02:50 PM	SB37405
Xylenes, Total	ND	0.066		mg/Kg	1	9/22/2016 12:02:50 PM	SB37405
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	9/22/2016 12:02:50 PM	SB37405

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

<b>Qualifiers:</b>	* 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 1609C73

Date Reported: 9/23/2016

**CLIENT:** Agave Energy Company

**Client Sample ID:** (T-6F-S) North

**Project:** Campbell Road Leak

**Collection Date:** 9/20/2016 11:00:00 AM

**Lab ID:** 1609C73-009

**Matrix:** MEOH (SOIL)

**Received Date:** 9/22/2016 10:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	9/22/2016 3:25:00 PM	27672
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/22/2016 12:47:19 PM	27651
Surr: DNOP	89.8	70-130		%Rec	1	9/22/2016 12:47:19 PM	27651
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	9/22/2016 12:27:10 PM	SG37405
Surr: BFB	91.7	68.3-144		%Rec	1	9/22/2016 12:27:10 PM	SG37405
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.017		mg/Kg	1	9/22/2016 12:27:10 PM	SB37405
Toluene	ND	0.034		mg/Kg	1	9/22/2016 12:27:10 PM	SB37405
Ethylbenzene	ND	0.034		mg/Kg	1	9/22/2016 12:27:10 PM	SB37405
Xylenes, Total	ND	0.069		mg/Kg	1	9/22/2016 12:27:10 PM	SB37405
Surr: 4-Bromofluorobenzene	112	80-120		%Rec	1	9/22/2016 12:27:10 PM	SB37405

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

<b>Qualifiers:</b>	* 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 1609C73

Date Reported: 9/23/2016

**CLIENT:** Agave Energy Company

**Client Sample ID:** (T-6F-S) East

**Project:** Campbell Road Leak

**Collection Date:** 9/20/2016 11:00:00 AM

**Lab ID:** 1609C73-010

**Matrix:** MEOH (SOIL)

**Received Date:** 9/22/2016 10:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	9/22/2016 3:37:24 PM	27672
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/22/2016 12:25:27 PM	27651
Surr: DNOP	92.4	70-130		%Rec	1	9/22/2016 12:25:27 PM	27651
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	9/22/2016 12:51:30 PM	SG37405
Surr: BFB	85.4	68.3-144		%Rec	1	9/22/2016 12:51:30 PM	SG37405
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.018		mg/Kg	1	9/22/2016 12:51:30 PM	SB37405
Toluene	ND	0.035		mg/Kg	1	9/22/2016 12:51:30 PM	SB37405
Ethylbenzene	ND	0.035		mg/Kg	1	9/22/2016 12:51:30 PM	SB37405
Xylenes, Total	ND	0.070		mg/Kg	1	9/22/2016 12:51:30 PM	SB37405
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	9/22/2016 12:51:30 PM	SB37405

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

<b>Qualifiers:</b>	* 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 1609C73

Date Reported: 9/23/2016

**CLIENT:** Agave Energy Company

**Client Sample ID:** (T-6F-S) South

**Project:** Campbell Road Leak

**Collection Date:** 9/20/2016 11:00:00 AM

**Lab ID:** 1609C73-011

**Matrix:** MEOH (SOIL)

**Received Date:** 9/22/2016 10:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	9/22/2016 3:49:49 PM	27672
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/22/2016 12:03:22 PM	27651
Surr: DNOP	91.9	70-130		%Rec	1	9/22/2016 12:03:22 PM	27651
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	9/22/2016 1:15:47 PM	SG37405
Surr: BFB	91.6	68.3-144		%Rec	1	9/22/2016 1:15:47 PM	SG37405
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.018		mg/Kg	1	9/22/2016 1:15:47 PM	SB37405
Toluene	ND	0.036		mg/Kg	1	9/22/2016 1:15:47 PM	SB37405
Ethylbenzene	ND	0.036		mg/Kg	1	9/22/2016 1:15:47 PM	SB37405
Xylenes, Total	ND	0.072		mg/Kg	1	9/22/2016 1:15:47 PM	SB37405
Surr: 4-Bromofluorobenzene	111	80-120		%Rec	1	9/22/2016 1:15:47 PM	SB37405

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

<b>Qualifiers:</b>	* 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 1609C73

Date Reported: 9/23/2016

**CLIENT:** Agave Energy Company

**Client Sample ID:** (T-6F-S) West

**Project:** Campbell Road Leak

**Collection Date:** 9/20/2016 11:00:00 AM

**Lab ID:** 1609C73-012

**Matrix:** MEOH (SOIL)

**Received Date:** 9/22/2016 10:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	9/22/2016 4:02:13 PM	27672
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/22/2016 11:41:28 AM	27651
Surr: DNOP	90.9	70-130		%Rec	1	9/22/2016 11:41:28 AM	27651
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	9/22/2016 1:40:05 PM	SG37405
Surr: BFB	89.2	68.3-144		%Rec	1	9/22/2016 1:40:05 PM	SG37405
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.018		mg/Kg	1	9/22/2016 1:40:05 PM	SB37405
Toluene	ND	0.035		mg/Kg	1	9/22/2016 1:40:05 PM	SB37405
Ethylbenzene	ND	0.035		mg/Kg	1	9/22/2016 1:40:05 PM	SB37405
Xylenes, Total	ND	0.071		mg/Kg	1	9/22/2016 1:40:05 PM	SB37405
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	9/22/2016 1:40:05 PM	SB37405

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#: 1609C73

23-Sep-16

**Client:** Agave Energy Company

**Project:** Campbell Road Leak

Sample ID	<b>MB-27672</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>27672</b>	RunNo:	<b>37430</b>					
Prep Date:	<b>9/23/2016</b>	Analysis Date:	<b>9/22/2016</b>	SeqNo:	<b>1163444</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	<b>LCS-27672</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>27672</b>	RunNo:	<b>37430</b>					
Prep Date:	<b>9/23/2016</b>	Analysis Date:	<b>9/22/2016</b>	SeqNo:	<b>1163445</b>	Units:	<b>mg/Kg</b>			
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			

**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#: 1609C73

23-Sep-16

**Client:** Agave Energy Company

**Project:** Campbell Road Leak

Sample ID	<b>LCS-27651</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>27651</b>	RunNo:	<b>37383</b>					
Prep Date:	<b>9/22/2016</b>	Analysis Date:	<b>9/22/2016</b>	SeqNo:	<b>1161862</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.1	62.6	124			
Surr: DNOP	4.2		5.000		84.8	70	130			

Sample ID	<b>MB-27651</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>27651</b>	RunNo:	<b>37383</b>					
Prep Date:	<b>9/22/2016</b>	Analysis Date:	<b>9/22/2016</b>	SeqNo:	<b>1161863</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.2		10.00		92.3	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#: 1609C73

23-Sep-16

**Client:** Agave Energy Company

**Project:** Campbell Road Leak

Sample ID <b>RB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>SG37405</b>		RunNo: <b>37405</b>							
Prep Date:	Analysis Date: <b>9/22/2016</b>		SeqNo: <b>1162858</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	860		1000		85.7	68.3	144			

Sample ID <b>2.5UG GRO LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>SG37405</b>		RunNo: <b>37405</b>							
Prep Date:	Analysis Date: <b>9/22/2016</b>		SeqNo: <b>1162859</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	110	74.6	123			
Surr: BFB	960		1000		96.0	68.3	144			

Sample ID <b>1609C73-007AMS</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>(T-4F-S) South</b>	Batch ID: <b>SG37405</b>		RunNo: <b>37405</b>							
Prep Date:	Analysis Date: <b>9/22/2016</b>		SeqNo: <b>1162860</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	3.4	17.02	0	95.8	59.3	143			
Surr: BFB	630		680.7		92.6	68.3	144			

Sample ID <b>1609C73-007AMSD</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>(T-4F-S) South</b>	Batch ID: <b>SG37405</b>		RunNo: <b>37405</b>							
Prep Date:	Analysis Date: <b>9/22/2016</b>		SeqNo: <b>1162861</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.4	17.02	0	99.1	59.3	143	3.37	20	
Surr: BFB	640		680.7		93.9	68.3	144	0	0	

**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#: 1609C73

23-Sep-16

**Client:** Agave Energy Company

**Project:** Campbell Road Leak

Sample ID <b>RB</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>SB37405</b>		RunNo: <b>37405</b>							
Prep Date:	Analysis Date: <b>9/22/2016</b>		SeqNo: <b>1162876</b>		Units: <b>mg/Kg</b>					
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		100	80	120			

Sample ID <b>100NG BTEX LCS</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>SB37405</b>		RunNo: <b>37405</b>							
Prep Date:	Analysis Date: <b>9/22/2016</b>		SeqNo: <b>1162877</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	75.3	123			
Toluene	1.1	0.050	1.000	0	108	80	124			
Ethylbenzene	1.0	0.050	1.000	0	100	82.8	121			
Xylenes, Total	2.9	0.10	3.000	0	98.3	83.9	122			
Surr: 4-Bromofluorobenzene	1.1		1.000		111	80	120			

Sample ID <b>1609C73-008AMS</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>(T-4F-S) West</b>	Batch ID: <b>SB37405</b>		RunNo: <b>37405</b>							
Prep Date:	Analysis Date: <b>9/22/2016</b>		SeqNo: <b>1162878</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.66	0.016	0.6592	0	100	71.5	122			
Toluene	0.65	0.033	0.6592	0	98.4	71.2	123			
Ethylbenzene	0.63	0.033	0.6592	0	96.1	75.2	130			
Xylenes, Total	1.8	0.066	1.978	0.01430	92.1	72.4	131			
Surr: 4-Bromofluorobenzene	0.70		0.6592		107	80	120			

Sample ID <b>1609C73-008AMSD</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>(T-4F-S) West</b>	Batch ID: <b>SB37405</b>		RunNo: <b>37405</b>							
Prep Date:	Analysis Date: <b>9/22/2016</b>		SeqNo: <b>1162879</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.63	0.016	0.6592	0	95.2	71.5	122	5.36	20	
Toluene	0.61	0.033	0.6592	0	92.4	71.2	123	6.30	20	
Ethylbenzene	0.60	0.033	0.6592	0	91.3	75.2	130	5.12	20	
Xylenes, Total	1.8	0.066	1.978	0.01430	90.5	72.4	131	1.71	20	
Surr: 4-Bromofluorobenzene	0.69		0.6592		105	80	120	0	0	

**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#: 1609C73

23-Sep-16

**Client:** Agave Energy Company

**Project:** Campbell Road Leak

Sample ID <b>100ng lcs</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8260B: Volatiles Short List</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>S37409</b>		RunNo: <b>37409</b>							
Prep Date:	Analysis Date: <b>9/22/2016</b>		SeqNo: <b>1162571</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	107	70	130			
Toluene	0.96	0.050	1.000	0	95.8	70	130			
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		99.4	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		97.7	70	130			
Surr: Toluene-d8	0.49		0.5000		97.5	70	130			

Sample ID <b>rb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8260B: Volatiles Short List</b>							
Client ID: <b>PBS</b>	Batch ID: <b>S37409</b>		RunNo: <b>37409</b>							
Prep Date:	Analysis Date: <b>9/22/2016</b>		SeqNo: <b>1162572</b>		Units: <b>mg/Kg</b>					
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: 1,2-Dichloroethane-d4	0.49		0.5000		97.1	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.9	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		96.6	70	130			
Surr: Toluene-d8	0.48		0.5000		95.2	70	130			

Sample ID <b>1609C73-001AMS</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8260B: Volatiles Short List</b>							
Client ID: <b>(T-3M-N) North</b>	Batch ID: <b>R37409</b>		RunNo: <b>37409</b>							
Prep Date:	Analysis Date: <b>9/22/2016</b>		SeqNo: <b>1162886</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.34		0.3439		97.7	70	130			
Surr: 4-Bromofluorobenzene	0.32		0.3439		92.7	70	130			
Surr: Dibromofluoromethane	0.37		0.3439		107	70	130			
Surr: Toluene-d8	0.33		0.3439		95.6	70	130			

Sample ID <b>1609c73-001amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8260B: Volatiles Short List</b>							
Client ID: <b>(T-3M-N) North</b>	Batch ID: <b>S37409</b>		RunNo: <b>37409</b>							
Prep Date:	Analysis Date: <b>9/22/2016</b>		SeqNo: <b>1162906</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.70	0.017	0.6878	0	102	49.2	155	1.60	20	
Toluene	0.59	0.034	0.6878	0	86.2	52	154	9.14	20	
Surr: 1,2-Dichloroethane-d4	0.36		0.3439		106	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.32		0.3439		93.3	70	130	0	0	

**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#: 1609C73

23-Sep-16

**Client:** Agave Energy Company

**Project:** Campbell Road Leak

Sample ID	1609c73-001amsd	SampType:	MSD	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	(T-3M-N) North	Batch ID:	S37409	RunNo:	37409					
Prep Date:		Analysis Date:	9/22/2016	SeqNo:	1162906	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.38		0.3439		111	70	130	0	0	
Surr: Toluene-d8	0.32		0.3439		92.6	70	130	0	0	

**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#: 1609C73

23-Sep-16

**Client:** Agave Energy Company

**Project:** Campbell Road Leak

Sample ID <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>M37409</b>		RunNo: <b>37409</b>							
Prep Date:	Analysis Date: <b>9/22/2016</b>		SeqNo: <b>1162579</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.2	62.9	123			
Surr: BFB	490		500.0		98.2	70	130			

Sample ID <b>rb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>M37409</b>		RunNo: <b>37409</b>							
Prep Date:	Analysis Date: <b>9/22/2016</b>		SeqNo: <b>1162580</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	500		500.0		99.4	70	130			

Sample ID <b>1609C73-001AMS</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>							
Client ID: <b>(T-3M-N) North</b>	Batch ID: <b>M37409</b>		RunNo: <b>37409</b>							
Prep Date:	Analysis Date: <b>9/22/2016</b>		SeqNo: <b>1162884</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	3.4	17.20	0	89.9	52.3	132			
Surr: BFB	350		343.9		103	70	130			

Sample ID <b>1609C73-001AMSD</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>							
Client ID: <b>(T-3M-N) North</b>	Batch ID: <b>M37409</b>		RunNo: <b>37409</b>							
Prep Date:	Analysis Date: <b>9/22/2016</b>		SeqNo: <b>1162885</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	3.4	17.20	0	90.6	52.3	132	0.842	20	
Surr: BFB	370		343.9		109	70	130	0	0	

**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 |

Client Name: **AGAVE ENERGY COMP**

Work Order Number: **1609C73**

RcptNo: **1**

Received by/date: [Signature] 09/22/16

Logged By: **Lindsay Mangin** 9/22/2016 10:10:00 AM [Signature]

Completed By: **Lindsay Mangin** 9/22/2016 10:27:56 AM [Signature]

Reviewed By: AM 09/22/16

**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° 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? 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.)

# 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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.1	Good	Yes			

