

AGAVE -energy company-

Agave Energy Company

**Grace Line Release** 

Sec 20, T22S – R 32E

Lea County, New Mexico

September 13, 2016

# Location

The location of the pipeline release is approximately 4 miles east of County Road 798, Red Road, in the SW/NE Sec 20, T22S, R32E.

#### Introduction

On July 16, 2016 a rupture and subsequent release along an 8" poly line was reported to Agave. Agave personnel immediately responded to shut-in the line. The line is a low-pressure gas gathering line. The apparent cause of the leak cannot be definitively identified. We suspect, based on inspection of the pipe, that it may have been gouged during installation. This caused a weak spot in the pipe, and being uncovered by the shifting sand dunes, the pipe ruptured due to high line pressure over the weekend.

Along with the release of gas, was a minor amount of hydrocarbon liquids (approximately 5-10 bbls). These liquids were carried by the wind and covered an area approximately 450 ft. by 200 ft. at its greatest extent. There was no evidence of any release of produced water or chlorides. Soil sampling will be conducted to determine if chlorides were released.

The release occurred on BLM land, and notifications to the Carlsbad Field Office have been made. On Thursday 7/21/16 a BLM representative accompanied Agave personnel to the location to document the release and make recommendations/requirements regarding the remediation of contamination.

# Site Ranking

Based on the *Guidelines for Remediation of Leaks, Spills and Releases* (NMOCD, August 13, 1993), hereafter referred to as "the Guidelines", the site ranking criteria are as follows.

**Depth to Ground Water:** The nearest Depth to Groundwater record (C-02096) listed on the New Mexico Office of the State Engineer (Sec 14, T22S-R32E) shows depth of groundwater to be approximately 360 feet. Average depth to groundwater in this Township is reported as 350 feet. Exhibiting a depth to groundwater of greater than 100 feet, results in a ranking score of 0.

*Wellhead Protection Area:* The nearest water source to the station C-02096 used for livestock watering, located 2.97 miles to the northeast of the site. According to the *Guidelines,* not being within 1000 feet of a water source results in a site ranking of 0.

*Distance to Surface Water Body:* The nearest surface water body is the Salt Lakes east of Carlsbad, located 13 miles to the west, or the Pecos River, located 21 miles to the west, resulting in a site ranking of 0.

#### **Total Site Ranking:**

Depth to Ground water		0
Wellhead Protection Area		0
Distance to Surface Water B	ody	0
	Total:	0

#### **Recommended Remediation Action Level**

According to the *Guidelines*, a location with a site ranking of 0 is subject to the following Recommended Remediation Action Level (RRAL).

Benzene	10 ppm
BTEX	50 ppm
ТРН	5000 ppm

There are no standards set for chloride contamination set within the *Guidelines*. In consulting with the BLM representative, a Mr. Randy Pair, upon the remediation of this location, he informed Agave that the BLM has set an action level for chlorides at 1000ppm. This will be the target concentration Agave will work towards in remediation of any chloride contamination.

# **Proposed Remediation Work (Revised)**

#### Originally Proposed Remediation Plan

Due to the fact that most of the released liquids were blown over a large area, and didn't pool up and penetrate the soil to a substantial depth, Agave is proposing to remediate the contamination in place. This would be done by applying MicroBlaze or an equivalent product to the area affected by the overspray of hydrocarbon liquids. After this application, the vegetation most heavily contaminated would be mulched, brush-hogged, or otherwise mowed to encourage aeration and ultimate degradation of the hydrocarbon contamination. Agave and the BLM are in agreement that leaving as much vegetation in place as is possible would be preferable to excavating and disposing of soil. If we are forced to remove portions of the vegetation above ground by mulching, leaving the root structures in tact until new vegetation can grow, would result in the least amount of damage to the area as a whole. Unless chlorides are shown to be present in levels exceeding the accepted action levels, excavation may be an unnecessary strategy for remediation. The ground water in this area is found at 300 feet and greater depths. The relatively minor amount of liquid released to the soil poses no threat to the groundwater. Additionally, the nearest freshwater body is over 20 miles away, and is not at risk of being contaminated. Overall, the potential harm posed to the environment by this release, is relatively minimal. If soil sampling shows contamination to have reached lower depths, the affected soil can be tilled and turned over on site, as necessary, to aerate the soil. Doing this in conjunction with additional applications of MicroBlaze should be able to ameliorate the level of contamination in place.

Closure samples will be collected after the onsite remediation has been conducted, and given enough time to affect the hydrocarbons present.

#### Revised Remediation Plan (9/13/16)

An initial round of thorough sampling was conducted at the site in early August. The results revealed no detectable BTEX at any of the sample locations. Additionally, TPH levels were well below the RRAL for all sample locations. The sample results showed chlorides to exceed the 1000 ppm action level (set by the BLM) in four of the sample locations. These locations and their chloride concentrations were as follows: 3A (9000 ppm), 3B (1100 ppm), 11A (1600 ppm), and 5A (5100). Where detected the chloride contamination was very shallow, levels were observed to fall below the RRAL before 1' of depth.

In the weeks following the round of soil sampling the area experienced heavy precipitation events (approximately 8" or more). This precipitation has had the effect of washing some of the contamination off of the leaves of vegetation, which will accelerate degradation of the hydrocarbons by soil microbes, as well as lessening the overall effects of the overspray on vegetation. Additionally, the precipitation has helped to disperse the remaining shallow chloride concentrations, in those areas where they were shown to be above the RRAL. Agave believes that the dispersion of the chloride contamination was sufficient to lower the levels at those hotspots into the acceptable range.

Rather than proceeding with any excavation or soil disturbance, Agave is proposing a second round of sampling localized at the areas previously identified as having higher than acceptable chloride concentrations to determine the effect of the precipitation, and the remaining concentrations. If chloride concentrations in these areas has been reduced to sufficient levels Agave proposes to take no action to excavate or further disturb the soil. Rather we will continue with our plan to apply soil nutrient/amendment (MicroBlaze or its equivalent) to speed the degradation of any remaining hydrocarbons. Unless the NMOCD District I office disagrees with this remediation strategy, or has additional stipulations, Agave will proceed upon receiving final approval from the BLM.

Please direct any questions or concerns regarding this remediation plan to Kerry Egan at (575) 513-8988 or Kegan@agaveenergy.com

Analytical Report	Field ID	Sample	Denth	BTEX	GRO		CI-	GPS Coordinates	Comments
1000034		Date	Deptil	DILA	GINO	DIG		di 5 coordinates	comments
1608654-001	1A	8/5/2016	Surface	ND	ND	1300	340	32.37915, -103.69669	Collected at the point of line rupture.
1608654-002	1B	8/5/2016	1'	ND	ND	260	250	32.37915, -103.69669	Collected at the point of line rupture.
1608654-003	1C	8/5/2016	2'	ND	ND	ND	61	32.37915, -103.69669	Collected at the point of line rupture.
1608654-004	1D	8/5/2016	3'	ND	ND	ND	41	32.37915, -103.69669	Collected at the point of line rupture.
1608654-005	2A	8/5/2016	Surface	ND	ND	ND	660	32.37922, -103.69678	Collected at the West edge of contaminated area along the second sample row.
1608654-006	2B	8/5/2016	1'	ND	ND	ND	89	32.37922, -103.69678	Collected at the West edge of contaminated area along the second sample row.
1608654-007	2C	8/5/2016	2'	ND	ND	ND	34	32.37922, -103.69678	Collected at the West edge of contaminated area along the second sample row.
1608654-008	3A	8/5/2016	Surface	ND	ND	1100	9000	32.37920, -103.69669	Collected in the center of the contaminated area along the second sample row.
1608654-009	3B	8/5/2016	1'	ND	ND	ND	1100	32.37920, -103.69669	Collected in the center of the contaminated area along the second sample row.
1608654-010	3C	8/5/2016	2'	ND	ND	ND	690	32.37920, -103.69669	Collected in the center of the contaminated area along the second sample row.
1608654-011	4A	8/5/2016	Surface	ND	ND	140	670	32.37921, -103.69663	Collected at the east edge of the contaminated area along the second sample row.
1608654-012	4B	8/5/2016	1'	ND	ND	ND	ND	32.37921, -103.69663	Collected at the east edge of the contaminated area along the second sample row.
1608654-013	4C	8/5/2016	2'	ND	ND	ND	ND	32.37921, -103.69663	Collected at the east edge of the contaminated area along the second sample row.
1608654-014	5A	8/5/2016	Surface	ND	ND	730	5100	32.37927, -103.69676	Collected at the West edge of contaminated area along the third sample row.

Sampling Summary for Grace Well Leak

											Collected at the West edge of contaminated area along
1608654-015	5B	8/5/2016	1'	ND	ND	ND			65	32.37927, -103.69676	the third sample row.
											Collected at the West edge of contaminated area along
1608654-016	5C	8/5/2016	2'	ND	ND	ND		ND		32.37927, -103.69676	the third sample row.
											Collected in the center of the contaminated area along
1608654-017	6A	8/5/2016	Surface	ND	ND		120		940	32.37929, -103.696693	the third sample row.
											Collected in the center of the contaminated area along
1608654-018	6B	8/5/2016	1'	ND	ND		63		110	32.37929, -103.696693	the third sample row.
											Collected in the center of the contaminated area along
1608654-019	6C	8/5/2016	2'	ND	ND		200		390	32.37929, -103.696693	the third sample row.
											Collected at the east edge of the contaminated area
1608654-020	7A	8/5/2016	Surface	ND	ND	ND		ND		32.37927, -103.69661	along the third sample row.
1608654-021	7B	8/5/2016	1'	ND	ND	ND		ND		32.37927, -103.69661	Collected along the fourth sample row.
1608654-022	7C	8/5/2016	2'	ND	ND	ND		ND		32.37927, -103.69661	Collected along the fourth sample row.
1608654-023	8A	8/5/2016	Surface	ND	ND		910		340	32.37934, -103.69659	Collected along the fourth sample row.
1609654 024	ор	9/E/2016	1'						100	22 27024 102 60650	Collected along the fourth sample row
1008034-024	OD	8/3/2010	1	ND	ND	ND			100	52.57554, -105.05035	confected along the fourth sample fow.
1608654-025	8C	8/5/2016	2'	ND	ND		17		130	32.37934, -103.69659	Collected along the fourth sample row.
1608654-026	9A	8/5/2016	Surface	ND	ND		270		640	32.37935, -103.69666	Collected along the fourth sample row.
1608654-027	9B	8/5/2016	1'	ND	ND	ND			210	32.37935, -103.69666	Collected along the fourth sample row.
	2.2	0/5/0010							450		
1608654-028	90	8/5/2016	2'	ND	ND	ND			150	32.37935, -103.69666	Collected along the fourth sample row.
100005 4 000	104	0/5/2010	Curferer	ND			210		600	22 27025 402 00072	Collected along the fourth completions
1008054-029	TUA	8/5/2016	Surface	טא	טא		210		690	32.3/935, -103.696/3	Confected along the fourth sample row.
1608654-030	10B	8/5/2016	1'	ND	ND	ND			120	32.37935, -103.69673	Collected along the fourth sample row.

1608654-031	10C	8/5/2016	2'	ND	ND	ND	180	32.37935, -103.69673	Collected along the fourth sample row.
1608654-032	11A	8/5/2016	Surface	ND	ND	330	1600	32.37937, -103.69681	Collected along the fourth sample row.
1608654-033	11B	8/5/2016	1'	ND	ND	ND	150	32.37937, -103.69681	Collected along the fourth sample row.
1608654-034	11C	8/5/2016	2'	ND	ND	ND	89	32.37937, -103.69681	Collected along the fourth sample row.
1608654-035	12A	8/5/2016	Surface	ND	ND	64	90	32.37936, -103.69689	Collected along the fourth sample row.
1608654-036	12B	8/5/2016	1'	ND	ND	ND	71	32.37936, -103.69689	Collected along the fourth sample row.
1608654-037	12C	8/5/2016	2'	ND	ND	ND	100	32.37936, -103.69689	Collected along the fourth sample row.
1608654-038	13A	8/5/2016	Surface	ND	ND	39	38	32.37949, -103.69695	Collected along the fifth sample row.
1608654-039	13B	8/5/2016	1'	ND	ND	ND	79	32.37949, -103.69695	Collected along the fifth sample row.
1608654-040	13C	8/5/2016	2'	ND	ND	ND	200	32.37949, -103.69695	Collected along the fifth sample row.
1608654-041	14A	8/5/2016	Surface	ND	ND	1100	71	32.37951, -103.69678	Collected along the fifth sample row.
1608654-042	14B	8/5/2016	1'	ND	ND	ND	190	32.37951, -103.69678	Collected along the fifth sample row.
1608654-043	14C	8/5/2016	2'	ND	ND	ND	ND	32.37951, -103.69678	Collected along the fifth sample row.
1608654-044	15A	8/5/2016	Surface	ND	ND	21	71	32.37952, -103.69660	Collected along the fifth sample row.
1608654-045	15B	8/5/2016	1'	ND	ND	ND	350	32.37952, -103.69660	Collected along the fifth sample row.
1608654-046	15C	8/5/2016	2'	ND	ND	ND	150	32.37952, -103.69660	Collected along the fifth sample row.
1608654-047	16A	8/5/2016	Surface	ND	ND	ND	ND	32.37953, -103.69643	Collected along the fifth sample row.

1608654-048	16B	8/5/2016	1'	ND	ND	ND	34	32.37953, -103.69643	Collected along the fifth sample row.
1608654-049	16C	8/6/2016	2'	ND	ND	ND	110	32.37953, -103.69643	Collected along the fifth sample row.
1608654-049	17A	8/5/2016	Surface	ND	ND	ND	ND	32.37968, -103.69645	Collected along the sixth sample row.
1608654-050	17B	8/5/2016	1'	ND	ND	ND	84	32.37968, -103.69645	Collected along the sixth sample row.
1608654-051	18A	8/5/2016	Surface	ND	ND	ND	110	32.37971, -103.69662	Collected along the sixth sample row.
1608654-052	18B	8/5/2016	1'	ND	ND	ND	89	32.37971, -103.69662	Collected along the sixth sample row.
1608654-053	19A	8/5/2016	Surface	ND	ND	ND	47	32.37973, -103.69680	Collected along the sixth sample row.
1608654-054	19B	8/5/2016	1'	ND	ND	ND	170	32.37973, -103.69680	Collected along the sixth sample row.
1608654-055	20A	8/5/2016	Surface	ND	ND	ND	ND	32.379711, -103.69636	Collected along the sixth sample row.
1608654-056	20B	8/5/2016	j 1'	ND	ND	ND	57	32.379711, -103.69636	Collected along the sixth sample row.





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

August 18, 2016

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

RE: Grace Well Leak

OrderNo.: 1608654

Dear Kerry Egan:

Hall Environmental Analysis Laboratory received 57 sample(s) on 8/10/2016 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 <u>www.hallenvironmental.com</u> 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 qualifers 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,

andis

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 8/18/2016

8/14/2016 4:03:12 PM

26929

CLIENT: Project: Lab ID:	Agave Energy Company Grace Well Leak 1608654-001	Matrix:	Client Sample ID: 1A Collection Date: 8/5/2016 Matrix: SOIL Received Date: 8/10/2016 3:56:00 PM					
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS						Analys	t: LGT
Chloride		340	30		mg/Kg	20	8/12/2016 2:38:42 PM	26964
EPA MET	HOD 8015M/D: DIESEL RAN	GE ORGANIC	S				Analys	t: TOM
Diesel Ra	ange Organics (DRO)	1300	96		mg/Kg	10	8/15/2016 4:55:41 PM	26947
Surr: D	DNOP	0	70-130	S	%Rec	10	8/15/2016 4:55:41 PM	26947
EPA MET	HOD 8015D: GASOLINE RA	NGE					Analys	t: RAA
Gasoline	Range Organics (GRO)	ND	4.6		mg/Kg	1	8/14/2016 4:03:12 PM	26929
Surr: E	BFB	79.9	68.3-144		%Rec	1	8/14/2016 4:03:12 PM	26929
EPA MET	HOD 8021B: VOLATILES						Analys	t: RAA
Benzene		ND	0.023		mg/Kg	1	8/14/2016 4:03:12 PM	26929
Toluene		ND	0.046		mg/Kg	1	8/14/2016 4:03:12 PM	26929
Ethylbenz	zene	ND	0.046		mg/Kg	1	8/14/2016 4:03:12 PM	26929
Xylenes,	Total	ND	0.092		mg/Kg	1	8/14/2016 4:03:12 PM	26929

80-120

%Rec

1

105

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

Qualifiers: *	Value exceeds Maximum	Contaminant Level.
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Hall Environmental Analysis Laboratory, Inc.

D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

Analyses		Result	PQL	Qual Units	DF Date Analyzed
Lab ID:	1608654-002	Matrix:	SOIL	Received	Date: 8/10/2016 3:56:00 PM
Project:	Grace Well Leak			Collection	Date: 8/5/2016
CLIENT:	Agave Energy Company			Client Samp	le ID: 1B

# Hall Environmental Analysis Laboratory, Inc.

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	250	30	mg/Kg	20	8/12/2016 3:15:55 PM	26964
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANIC	S			Analyst	ТОМ
Diesel Range Organics (DRO)	260	10	mg/Kg	1	8/15/2016 6:03:34 PM	26947
Surr: DNOP	90.8	70-130	%Rec	1	8/15/2016 6:03:34 PM	26947
EPA METHOD 8015D: GASOLINE RANG	θE				Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/14/2016 5:16:58 PM	26929
Surr: BFB	84.0	68.3-144	%Rec	1	8/14/2016 5:16:58 PM	26929
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.024	mg/Kg	1	8/14/2016 5:16:58 PM	26929
Toluene	ND	0.048	mg/Kg	1	8/14/2016 5:16:58 PM	26929
Ethylbenzene	ND	0.048	mg/Kg	1	8/14/2016 5:16:58 PM	26929
Xylenes, Total	ND	0.097	mg/Kg	1	8/14/2016 5:16:58 PM	26929
Surr: 4-Bromofluorobenzene	108	80-120	%Rec	1	8/14/2016 5:16:58 PM	26929

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 Page 2 of 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Agave Energy Company		C	lient Sampl	e ID: 1C						
Project: Grace Well Leak	Collection Date: 8/5/2016									
Lab ID: 1608654-003	Matrix:	SOIL	Received 1	Date: 8/1	0/2016 3:56:00 PM					
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analysi	: LGT				
Chloride	61	30	mg/Kg	20	8/12/2016 3:28:20 PM	26964				
EPA METHOD 8015M/D: DIESEL RANG		S			Analyst	: ТОМ				
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/15/2016 6:25:34 PM	26947				
Surr: DNOP	92.9	70-130	%Rec	1	8/15/2016 6:25:34 PM	26947				
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	RAA				
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/14/2016 6:30:49 PM	26929				
Surr: BFB	77.9	68.3-144	%Rec	1	8/14/2016 6:30:49 PM	26929				
EPA METHOD 8021B: VOLATILES					Analyst	RAA				
Benzene	ND	0.025	mg/Kg	1	8/14/2016 6:30:49 PM	26929				
Toluene	ND	0.050	mg/Kg	1	8/14/2016 6:30:49 PM	26929				
Ethylbenzene	ND	0.050	mg/Kg	1	8/14/2016 6:30:49 PM	26929				
Xylenes, Total	ND	0.10	mg/Kg	1	8/14/2016 6:30:49 PM	26929				
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	8/14/2016 6:30:49 PM	26929				

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
Quanners:		value exceeds Maximum Containmant 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 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

8/14/2016 6:55:22 PM

8/14/2016 6:55:22 PM

8/14/2016 6:55:22 PM

1

1

1

26929

26929

26929

<b>CLIENT:</b> Agave Energy Company <b>Project:</b> Grace Well Leak <b>Lab ID:</b> 1608654-004	Client Sample ID: 1D Collection Date: 8/5/2016 Matrix: SOIL Received Date: 8/10/2016 3:56:00 PM							
Analyses	Result	PQL Qua	d Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	: LGT		
Chloride	41	30	mg/Kg	20	8/12/2016 3:40:45 PM	26964		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	: том		
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/15/2016 6:47:39 PM	26947		
Surr: DNOP	85.0	70-130	%Rec	1	8/15/2016 6:47:39 PM	26947		
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	RAA		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/14/2016 6:55:22 PM	26929		
Surr: BFB	79.2	68.3-144	%Rec	1	8/14/2016 6:55:22 PM	26929		
EPA METHOD 8021B: VOLATILES					Analyst	RAA		
Benzene	ND	0.024	mg/Kg	1	8/14/2016 6:55:22 PM	26929		
Toluene	ND	0.048	ma/Ka	1	8/14/2016 6:55:22 PM	26929		

0.048

0.097

80-120

mg/Kg

mg/Kg

%Rec

ND

ND

102

Hall Environmental Analysis Laboratory, Inc.

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

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

Refer to the QC Summary report and sample togin enceknist for hagged QC data and preserval

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
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- 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 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

CLIENT: Agave Energy Company			Client Sampl	e ID: 2A	2/2016	
Project: Grace well Leak			Conection	Jale: 8/3	/2010	
Lab ID: 1608654-005	Matrix:	SOIL	Received I	<b>Date:</b> 8/1	0/2016 3:56:00 PM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	660	30	mg/Kg	20	8/12/2016 3:53:10 PM	26964
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	s			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	8/15/2016 7:09:31 PM	26947
Surr: DNOP	106	70-130	%Rec	1	8/15/2016 7:09:31 PM	26947
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/14/2016 7:19:57 PM	26929
Surr: BFB	77.9	68.3-144	%Rec	1	8/14/2016 7:19:57 PM	26929
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.024	mg/Kg	1	8/14/2016 7:19:57 PM	26929
Toluene	ND	0.048	mg/Kg	1	8/14/2016 7:19:57 PM	26929
Ethylbenzene	ND	0.048	mg/Kg	1	8/14/2016 7:19:57 PM	26929
Xylenes, Total	ND	0.097	mg/Kg	1	8/14/2016 7:19:57 PM	26929

80-120

%Rec

1

8/14/2016 7:19:57 PM

26929

103

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
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Surr: 4-Bromofluorobenzene

- D Sample Diluted Due to Matrix
- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Date Reported: 8/18/2016

CLIENT: Agave Energy Company Project: Grace Well Leak	Client Sample ID: 2B Collection Date: 8/5/2016								
Analyses	Result	POL Qu	al Units	Date: 8/1	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	t: LGT			
Chloride	89	30	mg/Kg	20	8/12/2016 4:30:24 PM	26964			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analys	t: TOM			
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	8/15/2016 7:31:33 PM	26947			
Surr: DNOP	84.5	70-130	%Rec	1	8/15/2016 7:31:33 PM	26947			
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	t: RAA			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/14/2016 7:44:22 PM	26929			
Surr: BFB	79.8	68.3-144	%Rec	1	8/14/2016 7:44:22 PM	26929			
EPA METHOD 8021B: VOLATILES					Analys	: RAA			
Benzene	ND	0.024	mg/Kg	1	8/14/2016 7:44:22 PM	26929			
Toluene	ND	0.048	mg/Kg	1	8/14/2016 7:44:22 PM	26929			
Ethylbenzene	ND	0.048	mg/Kg	1	8/14/2016 7:44:22 PM	26929			
Xylenes, Total	ND	0.096	mg/Kg	1	8/14/2016 7:44:22 PM	26929			

80-120

%Rec

1

8/14/2016 7:44:22 PM

26929

104

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Refer to the	QC Summary	/ report and	l sample	login c	hecklist for	flagged	QC	data and	l preserva	tion in	format
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Qualifiers: * Value exceeds Maximum Contaminant Lev	vel.
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Surr: 4-Bromofluorobenzene

- D Sample Diluted Due to Matrix
- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 6 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/18/2016

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Agave Energy Company	Client Sample ID: 2C										
Project: Grace Well Leak		Collection Date: 8/5/2016									
Lab ID: 1608654-007	Matrix:	SOIL	Received l	Received Date: 8/10/2016 3:56:00 PM							
Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analysi	: LGT					
Chloride	34	30	mg/Kg	20	8/12/2016 4:42:48 PM	26964					
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	s			Analyst	t: TOM					
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/15/2016 7:53:26 PM	26947					
Surr: DNOP	94.2	70-130	%Rec	1	8/15/2016 7:53:26 PM	26947					
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: RAA					
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/14/2016 8:08:51 PM	26929					
Surr: BFB	77.9	68.3-144	%Rec	1	8/14/2016 8:08:51 PM	26929					
EPA METHOD 8021B: VOLATILES					Analyst	: RAA					
Benzene	ND	0.025	mg/Kg	1	8/14/2016 8:08:51 PM	26929					
Toluene	ND	0.049	mg/Kg	1	8/14/2016 8:08:51 PM	26929					
Ethylbenzene	ND	0.049	mg/Kg	1	8/14/2016 8:08:51 PM	26929					
Xylenes, Total	ND	0.098	mg/Kg	1	8/14/2016 8:08:51 PM	26929					
Surr: 4-Bromofluorobenzene	99.3	80-120	%Rec	1	8/14/2016 8:08:51 PM	26929					

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 Page 7 of 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

<b>CLIENT:</b> Agave Energy Company <b>Project:</b> Grace Well Leak <b>Lab ID:</b> 1608654-008	Client Sample ID: 3ACollection Date: 8/5/2016Matrix: SOILReceived Date: 8/10/2016 3:56:00 PM							
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS						Analyst	MRA	
Chloride	9000	750		mg/Kg	500	8/15/2016 6:54:07 PM	26964	
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	S				Analyst	: том	
Diesel Range Organics (DRO)	1100	100		mg/Kg	10	8/15/2016 8:15:29 PM	26947	
Surr: DNOP	0	70-130	S	%Rec	10	8/15/2016 8:15:29 PM	26947	
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	RAA	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/14/2016 8:33:32 PM	26929	
Surr: BFB	77.1	68.3-144		%Rec	1	8/14/2016 8:33:32 PM	26929	
EPA METHOD 8021B: VOLATILES						Analyst	RAA	
Benzene	ND	0.024		mg/Kg	1	8/14/2016 8:33:32 PM	26929	
Toluene	ND	0.048		mg/Kg	1	8/14/2016 8:33:32 PM	26929	
Ethylbenzene	ND	0.048		mg/Kg	1	8/14/2016 8:33:32 PM	26929	
Xylenes, Total	ND	0.095		mg/Kg	1	8/14/2016 8:33:32 PM	26929	

80-120

%Rec

1

8/14/2016 8:33:32 PM

26929

99.7

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	Н	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit

Surr: 4-Bromofluorobenzene

R RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 8 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Date Reported: 8/18/2016

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Agave Energy Company	Client Sample ID: 3B							
<b>Project:</b> Grace Well Leak			Collection	Date: 8/5	/2016			
Lab ID: 1608654-009	Matrix:	SOIL	<b>Received</b>	Date: 8/1	0/2016 3:56:00 PM			
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analysi	:: LGT		
Chloride	1100	30	mg/Kg	20	8/12/2016 5:07:37 PM	26964		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	:: <b>TOM</b>		
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/15/2016 8:37:20 PM	26947		
Surr: DNOP	96.7	70-130	%Rec	1	8/15/2016 8:37:20 PM	26947		
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	:: RAA		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/14/2016 8:58:10 PM	26929		
Surr: BFB	79.4	68.3-144	%Rec	1	8/14/2016 8:58:10 PM	26929		
EPA METHOD 8021B: VOLATILES					Analyst	: RAA		
Benzene	ND	0.024	mg/Kg	1	8/14/2016 8:58:10 PM	26929		
Toluene	ND	0.048	mg/Kg	1	8/14/2016 8:58:10 PM	26929		
Ethylbenzene	ND	0.048	mg/Kg	1	8/14/2016 8:58:10 PM	26929		
Xylenes, Total	ND	0.097	mg/Kg	1	8/14/2016 8:58:10 PM	26929		
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	8/14/2016 8:58:10 PM	26929		

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 Page 9 of 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

# Hall Environmental Analysis Laboratory, Inc.

<b>CLIENT:</b> Agave Energy Company	Client Sample ID: 3C Collection Date: 8/5/2016							
Project: Grace Well Leak								
Lab ID: 1608654-010	Matrix:	SOIL	Received Date: 8/10/2016 3:56:00 PM					
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	: LGT		
Chloride	690	30	mg/Kg	20	8/12/2016 5:20:02 PM	26964		
EPA METHOD 8015M/D: DIESEL RANG		5			Analyst	: ТОМ		
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/15/2016 8:59:17 PM	26947		
Surr: DNOP	86.0	70-130	%Rec	1	8/15/2016 8:59:17 PM	26947		
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	RAA		
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/14/2016 9:22:40 PM	26929		
Surr: BFB	80.0	68.3-144	%Rec	1	8/14/2016 9:22:40 PM	26929		
EPA METHOD 8021B: VOLATILES					Analyst	RAA		
Benzene	ND	0.023	mg/Kg	1	8/14/2016 9:22:40 PM	26929		
Toluene	ND	0.046	mg/Kg	1	8/14/2016 9:22:40 PM	26929		
Ethylbenzene	ND	0.046	mg/Kg	1	8/14/2016 9:22:40 PM	26929		
Xylenes, Total	ND	0.092	mg/Kg	1	8/14/2016 9:22:40 PM	26929		
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	8/14/2016 9:22:40 PM	26929		

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

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<ul> <li>* Value exceeds Maximum Contaminant Level</li> </ul>
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D Sample Diluted Due to Matrix

**Qualifiers:** 

- 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 10 of 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

8/14/2016 11:25:18 PM 26929

8/14/2016 11:25:18 PM 26929

CLIENT: Project: Lab ID:	Agave Energy Company Grace Well Leak 1608654-011	Client Sample ID: 4A Collection Date: 8/5/2016 Matrix: SOIL Received Date: 8/10/2016 3:					
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	: LGT
Chloride		670	30	mg/Kg	20	8/12/2016 5:32:27 PM	26964
EPA MET	HOD 8015M/D: DIESEL RAN	IGE ORGANIC	S			Analyst	: TOM
Diesel Ra	ange Organics (DRO)	140	9.2	mg/Kg	1	8/15/2016 9:21:06 PM	26947
Surr: D	DNOP	106	70-130	%Rec	1	8/15/2016 9:21:06 PM	26947
EPA MET	HOD 8015D: GASOLINE RA	NGE				Analyst	RAA
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	8/14/2016 11:25:18 PM	26929
Surr: E	BFB	75.8	68.3-144	%Rec	1	8/14/2016 11:25:18 PM	26929
EPA MET	HOD 8021B: VOLATILES					Analyst	RAA
Benzene		ND	0.024	mg/Kg	1	8/14/2016 11:25:18 PM	26929
Toluene		ND	0.048	mg/Kg	1	8/14/2016 11:25:18 PM	26929
Ethylben	zene	ND	0.048	mg/Kg	1	8/14/2016 11:25:18 PM	26929

0.095

80-120

ND

98.8

mg/Kg

%Rec

1

1

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

Qualifiers: *	Value exceeds Maximum	Contaminant Level.
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D Sample Diluted Due to Matrix

Xylenes, Total

Surr: 4-Bromofluorobenzene

- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limit Page 11 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/18/2016

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Agave Energy Company	Client Sample ID: 4B								
<b>Project:</b> Grace Well Leak		Collection Date: 8/5/2016							
Lab ID: 1608654-012	Matrix:	SOIL	<b>Received</b>	Received Date: 8/10/2016 3:56:00 PM					
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	t: LGT			
Chloride	ND	30	mg/Kg	20	8/12/2016 6:09:41 PM	26965			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analys	t: TOM			
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/15/2016 10:04:54 PM	/ 26947			
Surr: DNOP	93.6	70-130	%Rec	1	8/15/2016 10:04:54 PM	1 26947			
EPA METHOD 8015D: GASOLINE RAM	NGE				Analys	t: RAA			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/14/2016 11:49:44 PM	/ 26929			
Surr: BFB	77.6	68.3-144	%Rec	1	8/14/2016 11:49:44 PM	1 26929			
EPA METHOD 8021B: VOLATILES					Analys	t: RAA			
Benzene	ND	0.024	mg/Kg	1	8/14/2016 11:49:44 PM	1 26929			
Toluene	ND	0.049	mg/Kg	1	8/14/2016 11:49:44 PM	1 26929			
Ethylbenzene	ND	0.049	mg/Kg	1	8/14/2016 11:49:44 PM	1 26929			
Xylenes, Total	ND	0.097	mg/Kg	1	8/14/2016 11:49:44 PM	1 26929			
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	8/14/2016 11:49:44 PM	1 26929			

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 Page 12 of 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Agave Energy CompanyProject: Grace Well LeakLab ID: 1608654-013	Client Sample ID: 4CCollection Date: 8/5/2016Matrix: SOILReceived Date: 8/10/2016 3:56:00 1					
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	ND	30	mg/Kg	20	8/12/2016 6:22:05 PM	26965
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	том
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/15/2016 10:26:46 PM	26947
Surr: DNOP	83.1	70-130	%Rec	1	8/15/2016 10:26:46 PM	26947
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/15/2016 12:14:18 AM	26929
Surr: BFB	75.7	68.3-144	%Rec	1	8/15/2016 12:14:18 AM	26929
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	8/15/2016 12:14:18 AM	26929
Toluene	ND	0.049	mg/Kg	1	8/15/2016 12:14:18 AM	26929
Ethylbenzene	ND	0.049	mg/Kg	1	8/15/2016 12:14:18 AM	26929
Xylenes, Total	ND	0.098	mg/Kg	1	8/15/2016 12:14:18 AM	26929
Surr: 4-Bromofluorobenzene	98.1	80-120	%Rec	1	8/15/2016 12:14:18 AM	26929

Qualifiers: *	Value exceeds Maximum Contaminant Level.	
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- 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 13 of 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

8/15/2016 12:38:51 AM 26929

<b>CLIENT:</b> Agave Energy Company <b>Project:</b> Grace Well Leak <b>Lab ID:</b> 1608654-014	Client Sample ID: 5ACollection Date: 8/5/2016Matrix: SOILReceived Date: 8/10/2016 3:56:00 PM					/2016 D/2016 3:56:00 PM	
Analyses	Result	PQL (	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	5100	300		mg/Kg	200	8/15/2016 7:06:32 PM	26965
EPA METHOD 8015M/D: DIESEL RANG		S				Analyst	том
Diesel Range Organics (DRO)	730	97		mg/Kg	10	8/15/2016 10:48:35 PM	26947
Surr: DNOP	0	70-130	S	%Rec	10	8/15/2016 10:48:35 PM	26947
EPA METHOD 8015D: GASOLINE RAN	GE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/15/2016 12:38:51 AM	26929
Surr: BFB	80.0	68.3-144		%Rec	1	8/15/2016 12:38:51 AM	26929
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.024		mg/Kg	1	8/15/2016 12:38:51 AM	26929
Toluene	ND	0.048		mg/Kg	1	8/15/2016 12:38:51 AM	26929
Ethylbenzene	ND	0.048		mg/Kg	1	8/15/2016 12:38:51 AM	26929
Xylenes, Total	ND	0.095		mg/Kg	1	8/15/2016 12:38:51 AM	26929

80-120

%Rec

1

106

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers: *	Va	lue exceeds Maximum	Contaminant Level.
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D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 14 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Agave Energy Company Project: Grace Well Leak		(	Client Sampl Collection 1	<b>e ID:</b> 5B Date: 8/5	/2016	
Lab ID: 1608654-015	Matrix:	SOIL	<b>Received</b>	<b>Date:</b> 8/1	0/2016 3:56:00 PM	
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	65	30	mg/Kg	20	8/12/2016 8:01:23 PM	26965
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/15/2016 11:10:34 PM	1 26947
Surr: DNOP	93.5	70-130	%Rec	1	8/15/2016 11:10:34 PM	1 26947
EPA METHOD 8015D: GASOLINE RAM	NGE				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/15/2016 1:03:26 AM	26929
Surr: BFB	85.1	68.3-144	%Rec	1	8/15/2016 1:03:26 AM	26929
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.023	mg/Kg	1	8/15/2016 1:03:26 AM	26929
Toluene	ND	0.046	mg/Kg	1	8/15/2016 1:03:26 AM	26929
Ethylbenzene	ND	0.046	mg/Kg	1	8/15/2016 1:03:26 AM	26929
Xylenes, Total	ND	0.093	mg/Kg	1	8/15/2016 1:03:26 AM	26929
Surr: 4-Bromofluorobenzene	111	80-120	%Rec	1	8/15/2016 1:03:26 AM	26929

- 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 15 of 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

8/15/2016 1:28:04 AM

26929

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26929

26929

CLIENT: Project: Lab ID:	Agave Energy Company Grace Well Leak 1608654-016	Client Sample ID: 5CCollection Date: 8/5/2016Matrix: SOILReceived Date: 8/10/2016 3:56:00 PM						
Analyses		Result	PQL Q	ual Units	DF	Date Analyzed	Batch	
EPA MET	HOD 300.0: ANIONS					Analyst	LGT	
Chloride		ND	30	mg/Kg	20	8/12/2016 8:13:48 PM	26965	
EPA MET	HOD 8015M/D: DIESEL RANG	GE ORGANICS	S			Analyst	том	
Diesel Ra	ange Organics (DRO)	ND	9.8	mg/Kg	1	8/15/2016 11:32:26 PM	26947	
Surr: D	NOP	85.6	70-130	%Rec	1	8/15/2016 11:32:26 PM	26947	
EPA MET	HOD 8015D: GASOLINE RAN	IGE				Analyst	RAA	
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	8/15/2016 1:28:04 AM	26929	
Surr: B	FB	82.0	68.3-144	%Rec	1	8/15/2016 1:28:04 AM	26929	
EPA MET	HOD 8021B: VOLATILES					Analyst	RAA	

0.024

0.048

0.048

0.097

80-120

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

ND

ND

ND

ND

107

## Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level
	_	

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- 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 16 of 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

#### Hall Environmental Analysis Laboratory, Inc. **CLIENT:** Agave Energy Company **Client Sample ID:** 6A **Project:** Grace Well Leak Collection Date: 8/5/2016 1608654-017 Matrix: SOIL Received Date: 8/10/2016 3:56:00 PM Lab ID:

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	940	30	mg/Kg	20	8/12/2016 8:26:13 PM	26965
EPA METHOD 8015M/D: DIESEL RANGE		s			Analyst	: TOM
Diesel Range Organics (DRO)	120	9.7	mg/Kg	1	8/15/2016 11:54:20 PM	26947
Surr: DNOP	101	70-130	%Rec	1	8/15/2016 11:54:20 PM	26947
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/15/2016 1:52:44 AM	26929
Surr: BFB	74.7	68.3-144	%Rec	1	8/15/2016 1:52:44 AM	26929
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	8/15/2016 1:52:44 AM	26929
Toluene	ND	0.050	mg/Kg	1	8/15/2016 1:52:44 AM	26929
Ethylbenzene	ND	0.050	mg/Kg	1	8/15/2016 1:52:44 AM	26929
Xylenes, Total	ND	0.10	mg/Kg	1	8/15/2016 1:52:44 AM	26929
Surr: 4-Bromofluorobenzene	93.7	80-120	%Rec	1	8/15/2016 1:52:44 AM	26929

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

**Oualifiers:** \* Value exceeds Maximum Contaminant Level. В

- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limit Page 17 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Date Reported: 8/18/2016

# Hall Environmental Analysis Laboratory, Inc.

CLIENT:	Agave Energy Company			Client Sampl	e ID: 6B				
Project:	Grace Well Leak			Collection I	Date: 8/5	5/2016			
Lab ID:	1608654-018	Matrix:	SOIL	Received 1	Received Date: 8/10/2016 3:56:00 PM				
Analyses		Result	PQL Qua	Units	DF	Date Analyzed	Batch		
EPA MET	HOD 300.0: ANIONS					Analyst	LGT		
Chloride		110	30	mg/Kg	20	8/12/2016 8:38:38 PM	26965		
EPA MET	HOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	: том		
Diesel Ra	ange Organics (DRO)	63	9.2	mg/Kg	1	8/16/2016 12:38:08 AM	26947		
Surr: D	DNOP	89.3	70-130	%Rec	1	8/16/2016 12:38:08 AM	26947		
EPA MET	HOD 8015D: GASOLINE RAI	NGE				Analyst	RAA		
Gasoline	Range Organics (GRO)	ND	9.5	mg/Kg	2	8/15/2016 2:17:22 AM	26929		
Surr: E	BFB	82.6	68.3-144	%Rec	2	8/15/2016 2:17:22 AM	26929		
EPA MET	HOD 8021B: VOLATILES					Analyst	RAA		
Benzene		ND	0.048	mg/Kg	2	8/15/2016 2:17:22 AM	26929		
Toluene		ND	0.095	mg/Kg	2	8/15/2016 2:17:22 AM	26929		
Ethylben	zene	ND	0.095	mg/Kg	2	8/15/2016 2:17:22 AM	26929		
Xylenes,	Total	ND	0.19	mg/Kg	2	8/15/2016 2:17:22 AM	26929		
Surr: 4	I-Bromofluorobenzene	107	80-120	%Rec	2	8/15/2016 2:17:22 AM	26929		

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- 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 Page 18 of 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Project:	Agave Energy Company Grace Well Leak	Client Sample ID: 6C Collection Date: 8/5/2016									
Lab ID:	1608654-019	Matrix:	SOIL	Received	<b>Date:</b> 8/1	0/2016 3:56:00 PM					
Analyses		Result	PQL Qual	Units	DF	Date Analyzed	Batch				
EPA MET	HOD 300.0: ANIONS					Analyst	LGT				
Chloride		390	30	mg/Kg	20	8/12/2016 8:51:02 PM	26965				
EPA MET	HOD 8015M/D: DIESEL RAM	IGE ORGANIC	S			Analyst	: TOM				
Diesel R	ange Organics (DRO)	200	9.8	mg/Kg	1	8/16/2016 1:21:49 AM	26947				
Surr: [	ONOP	91.1	70-130	%Rec	1	8/16/2016 1:21:49 AM	26947				
EPA MET	HOD 8015D: GASOLINE RA	NGE				Analyst	RAA				
Gasoline	Range Organics (GRO)	ND	24	mg/Kg	5	8/15/2016 2:41:50 AM	26929				
Surr: E	BFB	82.4	68.3-144	%Rec	5	8/15/2016 2:41:50 AM	26929				
EPA MET	HOD 8021B: VOLATILES					Analyst	RAA				
Benzene	9	ND	0.12	mg/Kg	5	8/15/2016 2:41:50 AM	26929				
Toluene		ND	0.24	mg/Kg	5	8/15/2016 2:41:50 AM	26929				
Ethylben	zene	ND	0.24	mg/Kg	5	8/15/2016 2:41:50 AM	26929				
Xylenes,	Total	ND	0.48	mg/Kg	5	8/15/2016 2:41:50 AM	26929				
Surr: 4	4-Bromofluorobenzene	110	80-120	%Rec	5	8/15/2016 2:41:50 AM	26929				

Qualifiers: * Value exceeds Maximum Contaminant Lev	/el.
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- 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 19 of 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

# Hall Environmental Analysis Laboratory, Inc. Date R CLIENT: Agave Energy Company Client Sample ID: 7A Project: Grace Well Leak Collection Date: 8/5/2016

Matrix:	SOIL	Received I	Received Date: 8/10/2016 3:56:00 PM				
Result	PQL Qua	al Units	DF	Date Analyzed	Batch		
				Analyst	LGT		
ND	30	mg/Kg	20	8/12/2016 9:28:16 PM	26965		
ORGANIC	S			Analyst	ТОМ		
ND	9.5	mg/Kg	1	8/16/2016 2:05:34 AM	26947		
101	70-130	%Rec	1	8/16/2016 2:05:34 AM	26947		
E				Analyst	RAA		
ND	4.9	mg/Kg	1	8/15/2016 3:06:14 AM	26929		
80.8	68.3-144	%Rec	1	8/15/2016 3:06:14 AM	26929		
				Analyst	RAA		
ND	0.025	mg/Kg	1	8/15/2016 3:06:14 AM	26929		
ND	0.049	mg/Kg	1	8/15/2016 3:06:14 AM	26929		
ND	0.049	mg/Kg	1	8/15/2016 3:06:14 AM	26929		
ND	0.099	mg/Kg	1	8/15/2016 3:06:14 AM	26929		
105	80-120	%Rec	1	8/15/2016 3:06:14 AM	26929		
	Matrix: Result ND ORGANIC: ND 101 101 80.8 ND 80.8 ND ND ND ND ND ND ND 105	Matrix:       SOIL         Result       PQL       Qua         ND       30       30         ORGANICS       30       30         ND       9.5       30         101       70-130       30         ND       4.9       30         80.8       68.3-144       30         ND       0.025       30         ND       0.049       30         ND       30.120       30	Matrix: SOIL         Received I           Result         PQL         Qual         Units           ND         30         mg/Kg           ORGANICS         mg/Kg         mg/Kg           ND         9.5         mg/Kg           101         70-130         %Rec           ND         4.9         mg/Kg           80.8         68.3-144         %Rec           ND         0.025         mg/Kg           ND         0.049         mg/Kg           ND         0.049         mg/Kg           ND         0.099         mg/Kg           ND         0.099         mg/Kg           ND         0.099         mg/Kg	Matrix:         SOIL         Received Date:         8/1           Result         PQL         Qual         Units         DF           ND         30         mg/Kg         20           ORGANICS          mg/Kg         1           ND         9.5         mg/Kg         1           101         70-130         %Rec         1           MD         4.9         mg/Kg         1           ND         4.9         mg/Kg         1           ND         0.025         mg/Kg         1           ND         0.049         mg/Kg         1           ND         0.049         mg/Kg         1           ND         0.099         mg/Kg         1           ND         0.099         mg/Kg         1           ND         0.099         mg/Kg         1           ND         0.099         mg/Kg         1           ND         80-120         %Rec         1	Matrix: SOIL         Received Date: 8/10/2016 3:56:00 PM           Result         PQL         Qual         Units         DF         Date Analyzed           ND         30         mg/Kg         20         8/12/2016 9:28:16 PM         Analyst           ND         30         mg/Kg         1         8/16/2016 9:28:16 PM         Analyst           ORGANICS         Analyst         Analyst         Analyst         Analyst           ND         9.5         mg/Kg         1         8/16/2016 2:05:34 AM           101         70-130         %Rec         1         8/16/2016 2:05:34 AM           ND         9.5         mg/Kg         1         8/16/2016 2:05:34 AM           ND         9.5         mg/Kg         1         8/16/2016 3:06:14 AM           ND         9.5         mg/Kg         1         8/15/2016 3:06:14 AM           ND         4.9         mg/Kg         1         8/15/2016 3:06:14 AM           ND         0.025         mg/Kg         1         8/15/2016 3:06:14 AM           ND         0.049         mg/Kg         1         8/15/2016 3:06:14 AM           ND         0.049         mg/Kg         1         8/15/2016 3:06:14 AM           ND <t< td=""></t<>		

Qualifiers	*	Value exceeds Maximum Contaminant Level	В
Quanners.		value exceeds waxinum Containmant Level.	D

- 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
- 3 Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 20 of 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Agave Energy Compan	у	Client Sample ID: 7B							
<b>Project:</b> Grace Well Leak		Collection Date: 8/5/2016							
Lab ID: 1608654-021	Matrix:	Matrix: SOIL		<b>Received Date:</b> 8/10/2016 3:56:00 PM					
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	t: LGT			
Chloride	ND	30	mg/Kg	20	8/12/2016 9:40:41 PM	26965			
EPA METHOD 8015M/D: DIESEL	RANGE ORGANICS	6			Analys	t: TOM			
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/15/2016 2:26:00 PM	26948			
Surr: DNOP	90.4	70-130	%Rec	1	8/15/2016 2:26:00 PM	26948			
EPA METHOD 8015D: GASOLIN	E RANGE				Analys	t: RAA			
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/13/2016 3:55:21 PM	26930			
Surr: BFB	79.4	68.3-144	%Rec	1	8/13/2016 3:55:21 PM	26930			
EPA METHOD 8021B: VOLATILI	ES				Analys	t: RAA			
Benzene	ND	0.023	mg/Kg	1	8/13/2016 3:55:21 PM	26930			
Toluene	ND	0.047	mg/Kg	1	8/13/2016 3:55:21 PM	26930			
Ethylbenzene	ND	0.047	mg/Kg	1	8/13/2016 3:55:21 PM	26930			
Xylenes, Total	ND	0.094	mg/Kg	1	8/13/2016 3:55:21 PM	26930			
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	8/13/2016 3:55:21 PM	26930			

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	Н	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit

- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 21 of 67 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Agave Energy Company Project: Grace Well Leak	Client Sample ID: 7C							
Lab ID: 1608654-022	Matrix: SOIL		Received 1	Received Date: 8/10/2016 3:56:00 PM				
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analysi	:: LGT		
Chloride	ND	30	mg/Kg	20	8/12/2016 9:53:06 PM	26965		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	s			Analyst	TOM		
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/15/2016 3:31:02 PM	26948		
Surr: DNOP	91.3	70-130	%Rec	1	8/15/2016 3:31:02 PM	26948		
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	:: RAA		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/13/2016 5:21:11 PM	26930		
Surr: BFB	83.6	68.3-144	%Rec	1	8/13/2016 5:21:11 PM	26930		
EPA METHOD 8021B: VOLATILES					Analyst	II: RAA		
Benzene	ND	0.024	mg/Kg	1	8/13/2016 5:21:11 PM	26930		
Toluene	ND	0.048	mg/Kg	1	8/13/2016 5:21:11 PM	26930		
Ethylbenzene	ND	0.048	mg/Kg	1	8/13/2016 5:21:11 PM	26930		
Xylenes, Total	ND	0.097	mg/Kg	1	8/13/2016 5:21:11 PM	26930		
Surr: 4-Bromofluorobenzene	109	80-120	%Rec	1	8/13/2016 5:21:11 PM	26930		

Qualifiers: *	Value exceeds Maximum Contaminant Level.	
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- Sample Diluted Due to Matrix D
- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 22 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

CLIENT: Project: Lab ID:	Agave Energy Company Grace Well Leak 1608654-023	Client Sample ID: 8A Collection Date: 8/5/2016 Matrix: SOIL Beceived Date: 8/10/2016 3:56:00 PM						
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS						Analyst	: LGT
Chloride		340	30		mg/Kg	20	8/12/2016 10:05:30 PM	26965
EPA MET	HOD 8015M/D: DIESEL RAN	GE ORGANICS	S				Analyst	том
Diesel Ra	ange Organics (DRO)	910	96		mg/Kg	10	8/15/2016 3:52:52 PM	26948
Surr: [	DNOP	0	70-130	S	%Rec	10	8/15/2016 3:52:52 PM	26948
EPA MET	HOD 8015D: GASOLINE RAM	NGE					Analyst	RAA
Gasoline	Range Organics (GRO)	ND	4.7		mg/Kg	1	8/13/2016 6:34:58 PM	26930
Surr: E	BFB	83.5	68.3-144		%Rec	1	8/13/2016 6:34:58 PM	26930
EPA MET	HOD 8021B: VOLATILES						Analyst	RAA
Benzene		ND	0.024		mg/Kg	1	8/13/2016 6:34:58 PM	26930
Toluene		ND	0.047		mg/Kg	1	8/13/2016 6:34:58 PM	26930
Ethylben	zene	ND	0.047		mg/Kg	1	8/13/2016 6:34:58 PM	26930
Xvlenes.	Total	ND	0.095		ma/Ka	1	8/13/2016 6:34:58 PM	26930

80-120

%Rec

1

8/13/2016 6:34:58 PM

26930

110

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	Н	Holding times for preparation or analysis exceeded

Surr: 4-Bromofluorobenzene

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 23 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/18/2016

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Aga	ave Energy Company	Client Sample ID: 8B							
Project: Gra	ice Well Leak	Collection Date: 8/5/2016							
Lab ID: 160	08654-024	Matrix: SOIL		<b>Received</b>	<b>Received Date:</b> 8/10/2016 3:56:00 PM				
Analyses		Result	PQL Qua	l Units	DF	Date Analyzed	Batch		
EPA METHOD	0 300.0: ANIONS					Analys	t: LGT		
Chloride		100	30	mg/Kg	20	8/12/2016 10:17:55 PM	1 26965		
EPA METHO	D 8015M/D: DIESEL RAN	GE ORGANIC	S			Analys	t: TOM		
Diesel Range	Organics (DRO)	ND	9.4	mg/Kg	1	8/15/2016 4:14:32 PM	26948		
Surr: DNOF		93.1	70-130	%Rec	1	8/15/2016 4:14:32 PM	26948		
EPA METHOD	0 8015D: GASOLINE RAI	NGE				Analys	t: RAA		
Gasoline Ran	ge Organics (GRO)	ND	4.7	mg/Kg	1	8/13/2016 6:59:32 PM	26930		
Surr: BFB		75.6	68.3-144	%Rec	1	8/13/2016 6:59:32 PM	26930		
EPA METHOD	0 8021B: VOLATILES					Analys	t: RAA		
Benzene		ND	0.023	mg/Kg	1	8/13/2016 6:59:32 PM	26930		
Toluene		ND	0.047	mg/Kg	1	8/13/2016 6:59:32 PM	26930		
Ethylbenzene		ND	0.047	mg/Kg	1	8/13/2016 6:59:32 PM	26930		
Xylenes, Tota	I	ND	0.093	mg/Kg	1	8/13/2016 6:59:32 PM	26930		
Surr: 4-Broi	mofluorobenzene	98.5	80-120	%Rec	1	8/13/2016 6:59:32 PM	26930		

Qualifiers: * Value exceeds Maximum Contaminant Level.	
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- 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 24 of 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Agave Energy Company	Client Sample ID: 8C							
Project: Grace Well Leak	Collection Date: 8/5/2016							
Lab ID: 1608654-025	Matrix: SOIL		<b>Received Date:</b> 8/10/2016 3:56:00 PM		0/2016 3:56:00 PM			
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst:	LGT		
Chloride	130	30	mg/Kg	20	8/12/2016 10:30:20 PM	26965		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst:	том		
Diesel Range Organics (DRO)	17	9.2	mg/Kg	1	8/15/2016 4:36:19 PM	26948		
Surr: DNOP	93.9	70-130	%Rec	1	8/15/2016 4:36:19 PM	26948		
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst:	RAA		
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/13/2016 7:24:01 PM	26930		
Surr: BFB	78.7	68.3-144	%Rec	1	8/13/2016 7:24:01 PM	26930		
EPA METHOD 8021B: VOLATILES					Analyst:	RAA		
Benzene	ND	0.023	mg/Kg	1	8/13/2016 7:24:01 PM	26930		
Toluene	ND	0.046	mg/Kg	1	8/13/2016 7:24:01 PM	26930		
Ethylbenzene	ND	0.046	mg/Kg	1	8/13/2016 7:24:01 PM	26930		
Xylenes, Total	ND	0.092	mg/Kg	1	8/13/2016 7:24:01 PM	26930		
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	8/13/2016 7:24:01 PM	26930		

Qualifiers: *	Value exceeds Maximum	Contaminant Level.
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- 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 25 of 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
Date Reported: 8/18/2016

CLIENT: Agave Energy Company	Client Sample ID: 9A							
Project: Grace Well Leak	Collection Date: 8/5/2016							
Lab ID: 1608654-026	Matrix:	SOIL		Received	<b>Date:</b> 8/1	0/2016 3:56:00 PM		
Analyses	Result	PQL (	Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS						Analyst	LGT	
Chloride	640	30		mg/Kg	20	8/12/2016 10:42:44 PN	26965	
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	s				Analyst	: TOM	
Diesel Range Organics (DRO)	270	95		mg/Kg	10	8/15/2016 4:58:18 PM	26948	
Surr: DNOP	0	70-130	S	%Rec	10	8/15/2016 4:58:18 PM	26948	
EPA METHOD 8015D: GASOLINE RAM	IGE					Analyst	RAA	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/13/2016 7:48:27 PM	26930	
Surr: BFB	81.5	68.3-144		%Rec	1	8/13/2016 7:48:27 PM	26930	
EPA METHOD 8021B: VOLATILES						Analyst	RAA	
Benzene	ND	0.024		mg/Kg	1	8/13/2016 7:48:27 PM	26930	
Toluene	ND	0.047		mg/Kg	1	8/13/2016 7:48:27 PM	26930	
Ethylbenzene	ND	0.047		mg/Kg	1	8/13/2016 7:48:27 PM	26930	
Xylenes, Total	ND	0.095		mg/Kg	1	8/13/2016 7:48:27 PM	26930	

80-120

%Rec

1

8/13/2016 7:48:27 PM

26930

106

Hall Environmental Analysis Laboratory, Inc.

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

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
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 26 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Date Reported: 8/18/2016

## Hall Environmental Analysis Laboratory, Inc.

CLIENT:	Agave Energy Company		Client Sample ID: 9B						
Project:	Grace Well Leak			Collection 1	Date: 8/5	/2016			
Lab ID:	1608654-027	Matrix:	SOIL	<b>Received</b>	Received Date: 8/10/2016 3:56:00 PM				
Analyses		Result	PQL Qua	l Units	DF	Date Analyzed	Batch		
EPA MET	HOD 300.0: ANIONS					Analyst	LGT		
Chloride		210	30	mg/Kg	20	8/12/2016 10:55:09 PN	26965		
EPA MET	HOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	: том		
Diesel R	ange Organics (DRO)	ND	9.2	mg/Kg	1	8/15/2016 5:43:37 PM	26948		
Surr: [	ONOP	92.6	70-130	%Rec	1	8/15/2016 5:43:37 PM	26948		
EPA MET	HOD 8015D: GASOLINE RA	NGE				Analyst	RAA		
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	8/13/2016 8:12:51 PM	26930		
Surr: E	BFB	78.7	68.3-144	%Rec	1	8/13/2016 8:12:51 PM	26930		
EPA MET	HOD 8021B: VOLATILES					Analyst	RAA		
Benzene	9	ND	0.024	mg/Kg	1	8/13/2016 8:12:51 PM	26930		
Toluene		ND	0.048	mg/Kg	1	8/13/2016 8:12:51 PM	26930		
Ethylben	zene	ND	0.048	mg/Kg	1	8/13/2016 8:12:51 PM	26930		
Xylenes,	Total	ND	0.096	mg/Kg	1	8/13/2016 8:12:51 PM	26930		
Surr: 4	4-Bromofluorobenzene	101	80-120	%Rec	1	8/13/2016 8:12:51 PM	26930		

	<b>(</b>	J F	r	 	F	

- 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 Page 27 of 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

# Hall Environmental Analysis Laboratory, Inc.

<b>CLIENT:</b> Ag	ave Energy Company	Client Sample ID: 9C							
Project: Gra	ace Well Leak		Collection Date: 8/5/2016						
Lab ID: 160	08654-028	Matrix:	SOIL	<b>Received Date:</b> 8/10/2016 3:56:00 PM					
Analyses		Result	PQL Qual	Units	DF	Date Analyzed	Batch		
EPA METHO	D 300.0: ANIONS					Analyst	LGT		
Chloride		150	30	mg/Kg	20	8/12/2016 11:07:34 PM	26965		
EPA METHO	D 8015M/D: DIESEL RAN	IGE ORGANICS	6			Analyst	: том		
Diesel Range	Organics (DRO)	ND	10	mg/Kg	1	8/15/2016 6:05:21 PM	26948		
Surr: DNO	P	95.4	70-130	%Rec	1	8/15/2016 6:05:21 PM	26948		
EPA METHO	D 8015D: GASOLINE RA	NGE				Analyst	RAA		
Gasoline Ran	nge Organics (GRO)	ND	4.8	mg/Kg	1	8/13/2016 8:37:26 PM	26930		
Surr: BFB		75.2	68.3-144	%Rec	1	8/13/2016 8:37:26 PM	26930		
EPA METHO	D 8021B: VOLATILES					Analyst	RAA		
Benzene		ND	0.024	mg/Kg	1	8/13/2016 8:37:26 PM	26930		
Toluene		ND	0.048	mg/Kg	1	8/13/2016 8:37:26 PM	26930		
Ethylbenzene	)	ND	0.048	mg/Kg	1	8/13/2016 8:37:26 PM	26930		
Xylenes, Tota	al	ND	0.096	mg/Kg	1	8/13/2016 8:37:26 PM	26930		
Surr: 4-Bro	mofluorobenzene	97.0	80-120	%Rec	1	8/13/2016 8:37:26 PM	26930		

Qualifiers: *	Value exceeds Maximum	Contaminant Level.
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- 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 28 of 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

#### Hall Environmental Analysis Laboratory, Inc. **CLIENT:** Agave Energy Company Client Sample ID: 10A **Project:** Grace Well Leak Collection Date: 8/5/2016 Lab ID: 1608654-029 Matrix: SOIL Received Date: 8/10/2016 3:56:00 PM Analycoc DE Data Analyzad Docult DUI Qual Unite

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LGT
Chloride	690	30		mg/Kg	20	8/12/2016 11:19:58 PM	26965
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	s				Analyst	: TOM
Diesel Range Organics (DRO)	210	94		mg/Kg	10	8/15/2016 6:26:59 PM	26948
Surr: DNOP	0	70-130	S	%Rec	10	8/15/2016 6:26:59 PM	26948
EPA METHOD 8015D: GASOLINE RANG	GE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/13/2016 9:02:01 PM	26930
Surr: BFB	83.0	68.3-144		%Rec	1	8/13/2016 9:02:01 PM	26930
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.024		mg/Kg	1	8/13/2016 9:02:01 PM	26930
Toluene	ND	0.047		mg/Kg	1	8/13/2016 9:02:01 PM	26930
Ethylbenzene	ND	0.047		mg/Kg	1	8/13/2016 9:02:01 PM	26930
Xylenes, Total	ND	0.095		mg/Kg	1	8/13/2016 9:02:01 PM	26930
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	8/13/2016 9:02:01 PM	26930

<b>Oualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	

- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limit Page 29 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Date Reported: 8/18/2016

<b>CLIENT:</b> Agave Energy Company	Client Sample ID: 10B							
Project: Grace Well Leak			Collection I	Date: 8/5	5/2016			
Lab ID: 1608654-030	Matrix:	SOIL	Received I	<b>Received Date:</b> 8/10/2016 3:56:00 PM				
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	MRA		
Chloride	120	30	mg/Kg	20	8/15/2016 10:52:49 AM	26991		
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANIC	S			Analyst	: ТОМ		
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/15/2016 6:48:42 PM	26948		
Surr: DNOP	96.6	70-130	%Rec	1	8/15/2016 6:48:42 PM	26948		
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	RAA		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/13/2016 9:26:37 PM	26930		
Surr: BFB	78.7	68.3-144	%Rec	1	8/13/2016 9:26:37 PM	26930		
EPA METHOD 8021B: VOLATILES					Analyst	RAA		
Benzene	ND	0.025	mg/Kg	1	8/13/2016 9:26:37 PM	26930		
Toluene	ND	0.049	mg/Kg	1	8/13/2016 9:26:37 PM	26930		
Ethylbenzene	ND	0.049	mg/Kg	1	8/13/2016 9:26:37 PM	26930		
Xylenes, Total	ND	0.099	mg/Kg	1	8/13/2016 9:26:37 PM	26930		

80-120

%Rec

1

8/13/2016 9:26:37 PM

26930

103

Hall Environmental Analysis Laboratory, Inc.

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

D Sample Diluted Due to Matrix

- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limit Page 30 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

### Date Reported: 8/18/2016

<b>CLIENT:</b> Agave Energy Company <b>Project:</b> Grace Well Leak <b>Lab ID:</b> 1608654-031	Matrix:	Client Sample ID: 10CCollection Date: 8/5/2016Matrix: SOILReceived Date: 8/10/2016 3:56:00 PM						
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	MRA		
Chloride	180	30	mg/Kg	20	8/15/2016 11:30:03 AN	26991		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	том		
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/15/2016 7:10:20 PM	26948		
Surr: DNOP	94.0	70-130	%Rec	1	8/15/2016 7:10:20 PM	26948		
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	RAA		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/13/2016 11:29:27 PM	26930		
Surr: BFB	79.1	68.3-144	%Rec	1	8/13/2016 11:29:27 PN	26930		
EPA METHOD 8021B: VOLATILES					Analyst	RAA		
Benzene	ND	0.024	mg/Kg	1	8/13/2016 11:29:27 PN	26930		
Toluene	ND	0.048	mg/Kg	1	8/13/2016 11:29:27 PN	26930		
Ethylbenzene	ND	0.048	mg/Kg	1	8/13/2016 11:29:27 PN	26930		
Xylenes, Total	ND	0.096	mg/Kg	1	8/13/2016 11:29:27 PN	26930		
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	8/13/2016 11:29:27 PM	26930		

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	
Qualifiers:	*	Value exceeds Maximum Contaminant Level.	

Hall Environmental Analysis Laboratory, Inc.

- 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 31 of 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

8/13/2016 11:53:54 PM 26930

CLIENT: Agave Energy Company Project: Grace Well Leak Lab ID: 1608654-032	Matrix:	SOIL	С	lient Sampl Collection I Received I	e ID: 11 Date: 8/5 Date: 8/1	A /2016 0/2016 3:56:00 PM	
Analyses	Result	PQL (	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	: LGT
Chloride	1600	75		mg/Kg	50	8/16/2016 5:30:02 PM	26991
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S				Analys	: том
Diesel Range Organics (DRO)	330	95		mg/Kg	10	8/15/2016 7:32:01 PM	26948
Surr: DNOP	0	70-130	s	%Rec	10	8/15/2016 7:32:01 PM	26948
EPA METHOD 8015D: GASOLINE RAI	NGE					Analys	RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/13/2016 11:53:54 PM	26930
Surr: BFB	77.0	68.3-144		%Rec	1	8/13/2016 11:53:54 PM	26930
EPA METHOD 8021B: VOLATILES						Analys	RAA
Benzene	ND	0.023		mg/Kg	1	8/13/2016 11:53:54 PM	26930
Toluene	ND	0.046		mg/Kg	1	8/13/2016 11:53:54 PM	26930
Ethylbenzene	ND	0.046		mg/Kg	1	8/13/2016 11:53:54 PM	26930
Xylenes, Total	ND	0.092		mg/Kg	1	8/13/2016 11:53:54 PM	26930

80-120

%Rec

1

100

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers: * Value exceeds Maximum Contaminant Lev	vel.
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D Sample Diluted Due to Matrix

- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limit Page 32 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Date Reported: 8/18/2016

8/14/2016 12:18:28 AM 26930

8/14/2016 12:18:28 AM 26930

<b>CLIENT:</b> Agave Energy Company <b>Project:</b> Grace Well Leak <b>Lab ID:</b> 1608654-033	Matrix:	SOIL	Client Sampl Collection I Received I	e ID: 11] Date: 8/5 Date: 8/1	B 5/2016 0/2016 3:56:00 PM	
Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	150	30	mg/Kg	20	8/15/2016 12:19:41 PM	26991
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANIC	s			Analyst	том
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/15/2016 7:53:34 PM	26948
Surr: DNOP	90.8	70-130	%Rec	1	8/15/2016 7:53:34 PM	26948
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/14/2016 12:18:28 AM	26930
Surr: BFB	83.3	68.3-144	%Rec	1	8/14/2016 12:18:28 AM	26930
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.024	mg/Kg	1	8/14/2016 12:18:28 AM	26930
Toluene	ND	0.048	mg/Kg	1	8/14/2016 12:18:28 AM	26930
Ethylbenzene	ND	0.048	mg/Kg	1	8/14/2016 12:18:28 AM	26930

0.096

80-120

mg/Kg

%Rec

1

1

ND

109

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix

Xylenes, Total

- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limit Page 33 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Date Reported: 8/18/2016

8/14/2016 12:43:00 AM 26930

CLIENT: Agave Energy Company			Client Sampl	e ID: 11	С	
Project: Grace Well Leak			Collection I	<b>Date:</b> 8/5	5/2016	
Lab ID: 1608654-034	Matrix:	SOIL	Received I	<b>Date:</b> 8/1	0/2016 3:56:00 PM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	89	30	mg/Kg	20	8/15/2016 12:56:55 PN	26991
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	S			Analyst	ТОМ
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/15/2016 8:15:16 PM	26948
Surr: DNOP	91.7	70-130	%Rec	1	8/15/2016 8:15:16 PM	26948
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/14/2016 12:43:00 AM	26930
Surr: BFB	78.3	68.3-144	%Rec	1	8/14/2016 12:43:00 AM	26930
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.024	mg/Kg	1	8/14/2016 12:43:00 AN	26930
Toluene	ND	0.048	mg/Kg	1	8/14/2016 12:43:00 AN	26930
Ethylbenzene	ND	0.048	mg/Kg	1	8/14/2016 12:43:00 AM	26930
Xylenes, Total	ND	0.096	mg/Kg	1	8/14/2016 12:43:00 AN	26930

80-120

%Rec

1

103

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:	*	Value exceeds Maximum	Contaminant Level.

- D Sample Diluted Due to Matrix
- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limit Page 34 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

## Date Reported: 8/18/2016

CLIENT: Agave Energy Company			Client Sampl	e ID: 12.	A				
Project: Grace Well Leak		Collection Date: 8/5/2016							
Lab ID: 1608654-035	Matrix:	SOIL	Received 1	Received Date: 8/10/2016 3:56:00 PM					
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	MRA			
Chloride	90	30	mg/Kg	20	8/15/2016 1:09:19 PM	26991			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analys	: том			
Diesel Range Organics (DRO)	64	9.6	mg/Kg	1	8/15/2016 8:36:52 PM	26948			
Surr: DNOP	101	70-130	%Rec	1	8/15/2016 8:36:52 PM	26948			
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	RAA			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/14/2016 1:07:33 AM	26930			
Surr: BFB	74.4	68.3-144	%Rec	1	8/14/2016 1:07:33 AM	26930			
EPA METHOD 8021B: VOLATILES					Analys	RAA			
Benzene	ND	0.024	mg/Kg	1	8/14/2016 1:07:33 AM	26930			
Toluene	ND	0.049	mg/Kg	1	8/14/2016 1:07:33 AM	26930			
Ethylbenzene	ND	0.049	mg/Kg	1	8/14/2016 1:07:33 AM	26930			
Xylenes, Total	ND	0.097	mg/Kg	1	8/14/2016 1:07:33 AM	26930			
Surr: 4-Bromofluorobenzene	95.9	80-120	%Rec	1	8/14/2016 1:07:33 AM	26930			

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

Qualifiers: *	Va	lue exceeds Maximum	Contaminant Level.
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Hall Environmental Analysis Laboratory, Inc.

- D Sample Diluted Due to Matrix
- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limit Page 35 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## Date Reported: 8/18/2016

CLIENT: Agave Energy Company			Client Sampl	e ID: 12	В			
Project: Grace Well Leak	Collection Date: 8/5/2016							
Lab ID: 1608654-036	Matrix:	SOIL	Received l	<b>Received Date:</b> 8/10/2016 3:56:00 PM				
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	MRA		
Chloride	71	30	mg/Kg	20	8/15/2016 1:21:44 PM	26991		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analys	: том		
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/15/2016 8:58:36 PM	26948		
Surr: DNOP	89.8	70-130	%Rec	1	8/15/2016 8:58:36 PM	26948		
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	RAA		
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/14/2016 1:32:05 AM	26930		
Surr: BFB	81.0	68.3-144	%Rec	1	8/14/2016 1:32:05 AM	26930		
EPA METHOD 8021B: VOLATILES					Analys	RAA		
Benzene	ND	0.023	mg/Kg	1	8/14/2016 1:32:05 AM	26930		
Toluene	ND	0.047	mg/Kg	1	8/14/2016 1:32:05 AM	26930		
Ethylbenzene	ND	0.047	mg/Kg	1	8/14/2016 1:32:05 AM	26930		
Xylenes, Total	ND	0.094	mg/Kg	1	8/14/2016 1:32:05 AM	26930		
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	8/14/2016 1:32:05 AM	26930		

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

<ul> <li>* Value exceeds Maximum Contaminant Let</li> </ul>	vel.
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Hall Environmental Analysis Laboratory, Inc.

D Sample Diluted Due to Matrix

**Qualifiers:** 

- Н 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
- В Analyte detected in the associated Method Blank

- Е Value above quantitation range
- Analyte detected below quantitation limits Page 36 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## Date Reported: 8/18/2016

<b>CLIENT:</b> Agave Energy Compar	IV		Client Sampl	e ID: 12	С	
<b>Project:</b> Grace Well Leak	5		Collection I	<b>Date:</b> 8/5	5/2016	
Lab ID: 1608654-037	Matrix:	SOIL	Received I	<b>Received Date:</b> 8/10/2016 3:56:00 PM		
Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	100	30	mg/Kg	20	8/15/2016 1:34:09 PM	26991
EPA METHOD 8015M/D: DIESEI	RANGE ORGANICS	3			Analyst	: том
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/15/2016 9:20:11 PM	26948
Surr: DNOP	94.4	70-130	%Rec	1	8/15/2016 9:20:11 PM	26948
EPA METHOD 8015D: GASOLIN	IE RANGE				Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/14/2016 1:56:37 AM	26930
Surr: BFB	82.0	68.3-144	%Rec	1	8/14/2016 1:56:37 AM	26930
EPA METHOD 8021B: VOLATIL	ES				Analyst	RAA
Benzene	ND	0.023	mg/Kg	1	8/14/2016 1:56:37 AM	26930
Toluene	ND	0.047	mg/Kg	1	8/14/2016 1:56:37 AM	26930
Ethylbenzene	ND	0.047	mg/Kg	1	8/14/2016 1:56:37 AM	26930
Xylenes, Total	ND	0.093	mg/Kg	1	8/14/2016 1:56:37 AM	26930
Surr: 4-Bromofluorobenzene	108	80-120	%Rec	1	8/14/2016 1:56:37 AM	26930

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	Н	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit

- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 37 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## Date Reported: 8/18/2016

8/14/2016 2:21:08 AM

26930

CLIENT: Agave Energy Company Project: Grace Well Leak	Client Sample ID: 13A Collection Date: 8/5/2016								
Lab ID: 1608654-038	Matrix:	SOIL	Received 1	<b>Received Date:</b> 8/10/2016 3:56:00 PM					
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	MRA			
Chloride	38	30	mg/Kg	20	8/15/2016 1:46:33 PM	26991			
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	S			Analyst	: том			
Diesel Range Organics (DRO)	39	9.3	mg/Kg	1	8/15/2016 9:41:49 PM	26948			
Surr: DNOP	96.7	70-130	%Rec	1	8/15/2016 9:41:49 PM	26948			
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	RAA			
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/14/2016 2:21:08 AM	26930			
Surr: BFB	78.1	68.3-144	%Rec	1	8/14/2016 2:21:08 AM	26930			
EPA METHOD 8021B: VOLATILES					Analyst	RAA			
Benzene	ND	0.025	mg/Kg	1	8/14/2016 2:21:08 AM	26930			
Toluene	ND	0.050	mg/Kg	1	8/14/2016 2:21:08 AM	26930			
Ethylbenzene	ND	0.050	mg/Kg	1	8/14/2016 2:21:08 AM	26930			
Xylenes, Total	ND	0.099	mg/Kg	1	8/14/2016 2:21:08 AM	26930			

80-120

%Rec

1

102

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

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\* Value exceeds Maximum Contaminant Level.

Hall Environmental Analysis Laboratory, Inc.

D Sample Diluted Due to Matrix

**Qualifiers:** 

- 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 38 of 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## Date Reported: 8/18/2016

8/14/2016 2:45:36 AM

26930

CLIENT: Agave Energy Company Project: Grace Well Leak	Client Sample ID: 13B Collection Date: 8/5/2016								
Lab ID: 1608654-039	Matrix:	SOIL	Received I	<b>Received Date:</b> 8/10/2016 3:56:00 PM					
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	MRA			
Chloride	79	30	mg/Kg	20	8/15/2016 1:58:58 PM	26991			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	s			Analyst	ТОМ			
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/15/2016 10:03:22 PM	26948			
Surr: DNOP	92.6	70-130	%Rec	1	8/15/2016 10:03:22 PM	26948			
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	RAA			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/14/2016 2:45:36 AM	26930			
Surr: BFB	78.2	68.3-144	%Rec	1	8/14/2016 2:45:36 AM	26930			
EPA METHOD 8021B: VOLATILES					Analyst	RAA			
Benzene	ND	0.024	mg/Kg	1	8/14/2016 2:45:36 AM	26930			
Toluene	ND	0.048	mg/Kg	1	8/14/2016 2:45:36 AM	26930			
Ethylbenzene	ND	0.048	mg/Kg	1	8/14/2016 2:45:36 AM	26930			
Xylenes, Total	ND	0.095	mg/Kg	1	8/14/2016 2:45:36 AM	26930			

80-120

%Rec

1

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

•	J 1	1	U	00	•	1

102

\* Value exceeds Maximum Contaminant Level.

Hall Environmental Analysis Laboratory, Inc.

D Sample Diluted Due to Matrix

**Qualifiers:** 

- 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 39 of 67
- 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.

Date Reported: 8/18/2016

CLIENT:	Agave Energy Company		(	Client Sampl	e ID: 130	C	
Project:	Grace Well Leak	Collection Date: 8/5/2016					
Lab ID:	1608654-040	Matrix:	SOIL	Received Date: 8/10/2016 3:56:00 PM			
Analyses		Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	MRA
Chloride		200	30	mg/Kg	20	8/15/2016 2:11:23 PM	26991
EPA MET	HOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analyst	том
Diesel Ra	ange Organics (DRO)	ND	9.6	mg/Kg	1	8/15/2016 10:25:06 PM	26948
Surr: DNOP		92.4	70-130	%Rec	1	8/15/2016 10:25:06 PM	26948
EPA MET	HOD 8015D: GASOLINE RAI	NGE				Analyst	RAA
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	8/14/2016 3:10:02 AM	26930
Surr: E	BFB	80.7	68.3-144	%Rec	1	8/14/2016 3:10:02 AM	26930
EPA MET	HOD 8021B: VOLATILES					Analyst	RAA
Benzene		ND	0.024	mg/Kg	1	8/14/2016 3:10:02 AM	26930
Toluene		ND	0.048	mg/Kg	1	8/14/2016 3:10:02 AM	26930
Ethylben	zene	ND	0.048	mg/Kg	1	8/14/2016 3:10:02 AM	26930
Xylenes,	Total	ND	0.096	mg/Kg	1	8/14/2016 3:10:02 AM	26930
Surr: 4	I-Bromofluorobenzene	104	80-120	%Rec	1	8/14/2016 3:10:02 AM	26930

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix

- 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 40 of 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

CLIENT: Agave Energy Company Project: Grace Well Leak		60W	Cl	lient Samp Collection	e ID: 14A Date: 8/5	A /2016	
Lab ID: 1608654-041	Matrix:	SOIL		Received	<b>Date: 8/1</b>	0/2016 3:56:00 PM	
Analyses	Result	PQL (	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	71	30		mg/Kg	20	8/15/2016 2:23:47 PM	26991
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	S				Analyst	: том
Diesel Range Organics (DRO)	1100	93		mg/Kg	10	8/15/2016 4:00:50 PM	26949
Surr: DNOP	0	70-130	S	%Rec	10	8/15/2016 4:00:50 PM	26949
EPA METHOD 8015D: GASOLINE R	ANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/12/2016 1:18:43 PM	26931
Surr: BFB	108	68.3-144		%Rec	1	8/12/2016 1:18:43 PM	26931
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.025		mg/Kg	1	8/12/2016 1:18:43 PM	26931
Toluene	ND	0.050		mg/Kg	1	8/12/2016 1:18:43 PM	26931
Ethylbenzene	ND	0.050		mg/Kg	1	8/12/2016 1:18:43 PM	26931
Xylenes, Total	ND	0.10		mg/Kg	1	8/12/2016 1:18:43 PM	26931
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	8/12/2016 1:18:43 PM	26931

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	Н	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 В Analyte detected in the associated Method Blank

- Е Value above quantitation range
- Analyte detected below quantitation limits Page 41 of 67 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

### Date Reported: 8/18/2016

CLIENT: Agave Energy Company		Client Sample ID: 14B								
Project: Grace W	/ell Leak			Collection 1	Date: 8/5	5/2016				
Lab ID: 1608654	4-042	Matrix:	SOIL	<b>Received</b>	<b>Date:</b> 8/1	0/2016 3:56:00 PM				
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch			
EPA METHOD 300	0.0: ANIONS					Analys	st: MRA			
Chloride		190	30	mg/Kg	20	8/15/2016 2:36:12 PM	26991			
EPA METHOD 80 <sup>2</sup>	15M/D: DIESEL RAN		5			Analys	st: TOM			
Diesel Range Orga	nics (DRO)	ND	9.2	mg/Kg	1	8/15/2016 4:28:45 PM	26949			
Surr: DNOP		96.1	70-130	%Rec	1	8/15/2016 4:28:45 PM	26949			
EPA METHOD 80 <sup>2</sup>	15D: GASOLINE RA	NGE				Analys	st: RAA			
Gasoline Range Or	ganics (GRO)	ND	4.8	mg/Kg	1	8/12/2016 2:29:02 PM	26931			
Surr: BFB		106	68.3-144	%Rec	1	8/12/2016 2:29:02 PM	26931			
EPA METHOD 802	21B: VOLATILES					Analys	st: RAA			
Benzene		ND	0.024	mg/Kg	1	8/12/2016 2:29:02 PM	26931			
Toluene		ND	0.048	mg/Kg	1	8/12/2016 2:29:02 PM	26931			
Ethylbenzene		ND	0.048	mg/Kg	1	8/12/2016 2:29:02 PM	26931			
Xylenes, Total		ND	0.095	mg/Kg	1	8/12/2016 2:29:02 PM	26931			
Surr: 4-Bromoflu	orobenzene	100	80-120	%Rec	1	8/12/2016 2:29:02 PM	26931			

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

Qualifiers: *	Value exceeds Maximum	Contaminant Level.
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- D Sample Diluted Due to Matrix
- Н 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
- В Analyte detected in the associated Method Blank

- Е Value above quantitation range
- Analyte detected below quantitation limit Page 42 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## Hall Environmental Analysis Laboratory, Inc.

## Hall Environmental Analysis Laboratory, Inc. Date Reported: 8/18/2016

CLIENT: Project:	Agave Energy Company Grace Well Leak	Client Sample ID: 14C Collection Date: 8/5/2016								
Lab ID:	1608654-043	Matrix:	SOIL	Received I	<b>Date:</b> 8/1	0/2016 3:56:00 PM				
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch			
EPA MET	HOD 300.0: ANIONS					Analysi	MRA			
Chloride		ND	30	mg/Kg	20	8/15/2016 2:48:36 PM	26991			
EPA MET	HOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	: ТОМ			
Diesel Ra	ange Organics (DRO)	ND	9.7	mg/Kg	1	8/15/2016 4:56:43 PM	26949			
Surr: D	DNOP	93.6	70-130	%Rec	1	8/15/2016 4:56:43 PM	26949			
EPA MET	HOD 8015D: GASOLINE RA	NGE				Analyst	RAA			
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	8/12/2016 3:39:19 PM	26931			
Surr: E	BFB	109	68.3-144	%Rec	1	8/12/2016 3:39:19 PM	26931			
EPA MET	HOD 8021B: VOLATILES					Analyst	RAA			
Benzene		ND	0.024	mg/Kg	1	8/12/2016 3:39:19 PM	26931			
Toluene		ND	0.049	mg/Kg	1	8/12/2016 3:39:19 PM	26931			
Ethylben	zene	ND	0.049	mg/Kg	1	8/12/2016 3:39:19 PM	26931			
Xylenes,	Total	ND	0.098	mg/Kg	1	8/12/2016 3:39:19 PM	26931			
Surr: 4	I-Bromofluorobenzene	105	80-120	%Rec	1	8/12/2016 3:39:19 PM	26931			

Qualifiers:	*	Value exceeds Maximum Contaminant Level
Quanners.		value execceds 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 43 of 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

<b>CLIENT:</b> Agave Energy Company	Client Sample ID: 15A						
Project: Grace Well Leak			Collection I	<b>Date:</b> 8/5	/2016		
Lab ID: 1608654-044	Matrix:	SOIL	Received I	<b>Date:</b> 8/1	0/2016 3:56:00 PM		
Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	MRA	
Chloride	71	30	mg/Kg	20	8/15/2016 3:25:51 PM	26991	
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANIC	S			Analys	: TOM	
Diesel Range Organics (DRO)	21	9.8	mg/Kg	1	8/15/2016 5:52:41 PM	26949	
Surr: DNOP	93.5	70-130	%Rec	1	8/15/2016 5:52:41 PM	26949	
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	RAA	
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/12/2016 4:02:48 PM	26931	
Surr: BFB	110	68.3-144	%Rec	1	8/12/2016 4:02:48 PM	26931	
EPA METHOD 8021B: VOLATILES					Analys	RAA	
Benzene	ND	0.023	mg/Kg	1	8/12/2016 4:02:48 PM	26931	
Toluene	ND	0.046	mg/Kg	1	8/12/2016 4:02:48 PM	26931	
Ethylbenzene	ND	0.046	mg/Kg	1	8/12/2016 4:02:48 PM	26931	
Xylenes, Total	ND	0.093	mg/Kg	1	8/12/2016 4:02:48 PM	26931	

80-120

%Rec

1

8/12/2016 4:02:48 PM

26931

103

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

H Holding times for preparation or analysis exceeded

Hall Environmental Analysis Laboratory, Inc.

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limit Page 44 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## Date Reported: 8/18/2016

					_			
<b>CLIENT:</b> Agave Energy Company	Chent Sample ID: 15B							
Project: Grace Well Leak			Collection 1	Date: 8/5	/2016			
Lab ID: 1608654-045	Matrix:	SOIL	Received 1	<b>Received Date:</b> 8/10/2016 3:56:00 PM				
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	MRA		
Chloride	350	30	mg/Kg	20	8/15/2016 3:38:16 PM	26991		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analys	: ТОМ		
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/15/2016 6:20:47 PM	26949		
Surr: DNOP	99.1	70-130	%Rec	1	8/15/2016 6:20:47 PM	26949		
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	RAA		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/12/2016 4:26:13 PM	26931		
Surr: BFB	109	68.3-144	%Rec	1	8/12/2016 4:26:13 PM	26931		
EPA METHOD 8021B: VOLATILES					Analys	RAA		
Benzene	ND	0.025	mg/Kg	1	8/12/2016 4:26:13 PM	26931		
Toluene	ND	0.049	mg/Kg	1	8/12/2016 4:26:13 PM	26931		
Ethylbenzene	ND	0.049	mg/Kg	1	8/12/2016 4:26:13 PM	26931		
Xylenes, Total	ND	0.098	mg/Kg	1	8/12/2016 4:26:13 PM	26931		
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	8/12/2016 4:26:13 PM	26931		

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Ar

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

Hall Environmental Analysis Laboratory, Inc.

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 45 of 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Agave Energy Company	Client Sample ID: 15C							
Project: Grace Well Leak	Collection Date: 8/5/2016							
Lab ID: 1608654-046	Matrix:	SOIL	Received l	Date: 8/1	0/2016 3:56:00 PM			
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	MRA		
Chloride	150	30	mg/Kg	20	8/15/2016 3:50:40 PM	26991		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	ТОМ		
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/15/2016 6:49:19 PM	26949		
Surr: DNOP	92.0	70-130	%Rec	1	8/15/2016 6:49:19 PM	26949		
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	RAA		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/12/2016 4:49:45 PM	26931		
Surr: BFB	107	68.3-144	%Rec	1	8/12/2016 4:49:45 PM	26931		
EPA METHOD 8021B: VOLATILES					Analyst	RAA		
Benzene	ND	0.024	mg/Kg	1	8/12/2016 4:49:45 PM	26931		
Toluene	ND	0.048	mg/Kg	1	8/12/2016 4:49:45 PM	26931		
Ethylbenzene	ND	0.048	mg/Kg	1	8/12/2016 4:49:45 PM	26931		
Xylenes, Total	ND	0.095	mg/Kg	1	8/12/2016 4:49:45 PM	26931		
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	8/12/2016 4:49:45 PM	26931		

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	1

- 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
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 46 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

CLIENT: Agave Energy Company	Client Sample ID: 16A						
Project: Grace Well Leak			Collection I	Date: 8/5	5/2016		
Lab ID: 1608654-047	Matrix:	SOIL	Received I	<b>Date:</b> 8/1	0/2016 3:56:00 PM		
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: MRA	
Chloride	ND	30	mg/Kg	20	8/15/2016 4:03:05 PM	26991	
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANIC	s			Analys	t: TOM	
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/15/2016 7:17:26 PM	26949	
Surr: DNOP	100	70-130	%Rec	1	8/15/2016 7:17:26 PM	26949	
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: RAA	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/12/2016 5:13:13 PM	26931	
Surr: BFB	107	68.3-144	%Rec	1	8/12/2016 5:13:13 PM	26931	
EPA METHOD 8021B: VOLATILES					Analys	t: RAA	
Benzene	ND	0.024	mg/Kg	1	8/12/2016 5:13:13 PM	26931	
Toluene	ND	0.047	mg/Kg	1	8/12/2016 5:13:13 PM	26931	
Ethylbenzene	ND	0.047	mg/Kg	1	8/12/2016 5:13:13 PM	26931	
Xylenes, Total	ND	0.095	mg/Kg	1	8/12/2016 5:13:13 PM	26931	

80-120

%Rec

1

8/12/2016 5:13:13 PM

26931

98.4

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:	*	Value exceeds Maximum	Contaminant Level.

D Sample Diluted Due to Matrix

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limit Page 47 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

## Date Reported: 8/18/2016

CLIENT:	Agave Energy Company	Client Sample ID: 16B						
Project: Grace Well Leak				Collection I	Date: 8/5	5/2016		
Lab ID:	1608654-048	Matrix:	SOIL	Received 1	<b>Received Date:</b> 8/10/2016 3:56:00 PM			
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch	
EPA MET	HOD 300.0: ANIONS					Analys	: MRA	
Chloride		34	30	mg/Kg	20	8/15/2016 3:23:10 PM	26992	
EPA MET	HOD 8015M/D: DIESEL RAN	GE ORGANIC	s			Analys	t: TOM	
Diesel Ra	ange Organics (DRO)	ND	9.4	mg/Kg	1	8/15/2016 7:45:11 PM	26949	
Surr: D	DNOP	99.3	70-130	%Rec	1	8/15/2016 7:45:11 PM	26949	
EPA MET	HOD 8015D: GASOLINE RAI	NGE				Analys	: RAA	
Gasoline	Range Organics (GRO)	ND	4.7	mg/Kg	1	8/12/2016 5:36:40 PM	26931	
Surr: E	BFB	107	68.3-144	%Rec	1	8/12/2016 5:36:40 PM	26931	
EPA MET	HOD 8021B: VOLATILES					Analys	: RAA	
Benzene		ND	0.023	mg/Kg	1	8/12/2016 5:36:40 PM	26931	
Toluene		ND	0.047	mg/Kg	1	8/12/2016 5:36:40 PM	26931	
Ethylbenz	zene	ND	0.047	mg/Kg	1	8/12/2016 5:36:40 PM	26931	
Xylenes,	Total	ND	0.094	mg/Kg	1	8/12/2016 5:36:40 PM	26931	
Surr: 4	I-Bromofluorobenzene	98.3	80-120	%Rec	1	8/12/2016 5:36:40 PM	26931	

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

Refer to the QC Summary report and sample rogin enceknist for hagged QC data and preservator

<ul> <li>* Value exceeds Maximum Contaminant Leve</li> </ul>	el.
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Hall Environmental Analysis Laboratory, Inc.

D Sample Diluted Due to Matrix

**Qualifiers:** 

- 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 48 of 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

8/12/2016 7:33:49 PM

26931

26931

26931

26931

26931

26931

26931

Analyst: RAA

CLIENT:	Agave Energy Company			Client Samp	le ID: 17.	A		
Project:	Grace Well Leak	Collection Date: 8/5/2016						
Lab ID:	1608654-049	Matrix: S	SOIL	Received	<b>Date:</b> 8/1	0/2016 3:56:00 PM		
Analyses		Result	PQL Qua	l Units	DF	Date Analyzed	Batch	
EPA MET	HOD 300.0: ANIONS					Analys	: MRA	
Chloride		ND	30	mg/Kg	20	8/15/2016 4:00:24 PM	26992	
EPA MET	HOD 8015M/D: DIESEL RAN	GE ORGANICS	i			Analys	:: TOM	
Diesel R	ange Organics (DRO)	ND	9.3	mg/Kg	1	8/15/2016 8:12:54 PM	26949	
Surr: [	DNOP	94.7	70-130	%Rec	1	8/15/2016 8:12:54 PM	26949	
EPA MET	HOD 8015D: GASOLINE RAI	NGE				Analys	: RAA	

5.0

68.3-144

0.025

0.050

0.050

0.10

80-120

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

ND

107

ND

ND

ND

ND

99.7

## Hall Environmental Analysis Laboratory, Inc.

Gasoline Range Organics (GRO)

**EPA METHOD 8021B: VOLATILES** 

Surr: 4-Bromofluorobenzene

Surr: BFB

Benzene

Toluene

**Oualifiers:** 

Ethylbenzene

Xylenes, Total

<ul> <li>* Value exceeds Maximum Contaminant Let</li> </ul>	vel.
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- 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 49 of 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## Date Reported: 8/18/2016

CLIENT: Agave Energy Company	Client Sample ID: 17B								
Project: Grace Well Leak	Collection Date: 8/5/2016								
Lab ID: 1608654-050	Matrix:	SOIL	Received 1	Received Date: 8/10/2016 3:56:00 PM					
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	MRA			
Chloride	84	30	mg/Kg	20	8/15/2016 4:12:49 PM	26992			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	: том			
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/15/2016 8:40:42 PM	26949			
Surr: DNOP	94.6	70-130	%Rec	1	8/15/2016 8:40:42 PM	26949			
EPA METHOD 8015D: GASOLINE RAM	IGE				Analyst	RAA			
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/12/2016 7:57:21 PM	26931			
Surr: BFB	111	68.3-144	%Rec	1	8/12/2016 7:57:21 PM	26931			
EPA METHOD 8021B: VOLATILES					Analyst	RAA			
Benzene	ND	0.024	mg/Kg	1	8/12/2016 7:57:21 PM	26931			
Toluene	ND	0.047	mg/Kg	1	8/12/2016 7:57:21 PM	26931			
Ethylbenzene	ND	0.047	mg/Kg	1	8/12/2016 7:57:21 PM	26931			
Xylenes, Total	ND	0.095	mg/Kg	1	8/12/2016 7:57:21 PM	26931			
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	8/12/2016 7:57:21 PM	26931			

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

Refer to the QC summary report and sample login electrist for hagged QC data and preservation r

Qualifiers: *	Value exceeds Maximum	Contaminant Level.
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Hall Environmental Analysis Laboratory, Inc.

- 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 50 of 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

8/12/2016 8:20:42 PM

8/12/2016 8:20:42 PM

26931

26931

1

1

CLIENT: Agave Energy Company Project: Grace Well Leak		Client Sample ID: 18A Collection Date: 8/5/2016							
Lab ID: 1608654-051	Matrix:	SOIL	Received I	<b>Date:</b> 8/1	0/2016 3:56:00 PM				
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analysi	MRA			
Chloride	110	30	mg/Kg	20	8/15/2016 4:25:13 PM	26992			
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANIC	S			Analyst	TOM			
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/15/2016 9:08:32 PM	26949			
Surr: DNOP	98.9	70-130	%Rec	1	8/15/2016 9:08:32 PM	26949			
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst	RAA			
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/12/2016 8:20:42 PM	26931			
Surr: BFB	108	68.3-144	%Rec	1	8/12/2016 8:20:42 PM	26931			
EPA METHOD 8021B: VOLATILES					Analyst	RAA			
Benzene	ND	0.024	mg/Kg	1	8/12/2016 8:20:42 PM	26931			
Toluene	ND	0.047	mg/Kg	1	8/12/2016 8:20:42 PM	26931			
Ethylbenzene	ND	0.047	mg/Kg	1	8/12/2016 8:20:42 PM	26931			

0.095

80-120

mg/Kg

%Rec

ND

101

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers: * Value exceeds Maximum Contaminant Lev	vel.
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D Sample Diluted Due to Matrix

Xylenes, Total

- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limit Page 51 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Date Reported: 8/18/2016

CLIENT: Agave Energy Company Project: Grace Well Leak			Client Samp Collection	e ID: 18 Date: 8/5	B 5/2016	
Lab ID: 1608654-052	Matrix:	SOIL	<b>Received</b>	<b>Date:</b> 8/1	0/2016 3:56:00 PM	
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	MRA
Chloride	89	30	mg/Kg	20	8/15/2016 4:37:38 PM	26992
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	s			Analyst	: ТОМ
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/15/2016 9:36:17 PM	26949
Surr: DNOP	97.4	70-130	%Rec	1	8/15/2016 9:36:17 PM	26949
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/12/2016 8:44:06 PM	26931
Surr: BFB	109	68.3-144	%Rec	1	8/12/2016 8:44:06 PM	26931
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.023	mg/Kg	1	8/12/2016 8:44:06 PM	26931
Toluene	ND	0.046	mg/Kg	1	8/12/2016 8:44:06 PM	26931

0.046

0.092

80-120

mg/Kg

mg/Kg

%Rec

1

1

1

8/12/2016 8:44:06 PM

8/12/2016 8:44:06 PM

8/12/2016 8:44:06 PM

26931

26931

26931

ND

ND

101

DC to the OC C . 1 • . 1. 11.00 CI 100.1 1 tion info nation.

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation	n inform
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*	Value exceeds	Maximum	Contaminant	Level.
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Hall Environmental Analysis Laboratory, Inc.

Ethylbenzene

Xylenes, Total

**Qualifiers:** 

- D Sample Diluted Due to Matrix
- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limit Page 52 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Date Reported: 8/18/2016

8/12/2016 9:07:36 PM

8/12/2016 9:07:36 PM

1

1

26931

26931

CLIENT: Agave Energy Company Project: Grace Well Leak	Client Sample ID: 19A Collection Date: 8/5/2016							
Lab ID: 1608654-053	Matrix:	SOIL	Received 1	<b>Date:</b> 8/1	0/2016 3:56:00 PM			
Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	MRA		
Chloride	47	30	mg/Kg	20	8/15/2016 4:50:02 PM	26992		
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	s			Analyst	TOM		
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/15/2016 10:04:00 PM	26949		
Surr: DNOP	89.3	70-130	%Rec	1	8/15/2016 10:04:00 PM	26949		
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	RAA		
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/12/2016 9:07:36 PM	26931		
Surr: BFB	108	68.3-144	%Rec	1	8/12/2016 9:07:36 PM	26931		
EPA METHOD 8021B: VOLATILES					Analyst	RAA		
Benzene	ND	0.023	mg/Kg	1	8/12/2016 9:07:36 PM	26931		
Toluene	ND	0.047	mg/Kg	1	8/12/2016 9:07:36 PM	26931		
Ethylbenzene	ND	0.047	mg/Kg	1	8/12/2016 9:07:36 PM	26931		

0.094

80-120

mg/Kg

%Rec

ND

99.7

Hall Environmental Analysis Laboratory, Inc.

Xylenes, Total

Surr: 4-Bromofluorobenzene

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	р	Sample Diluted Due to Matrix

- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limit Page 53 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/18/2016

CLIENT: Agave Energy Company Project: Grace Well Leak Leb ID: 1608654 054		Client Sample ID: 19B Collection Date: 8/5/2016 Matrix: SOIL Becaived Date: 8/10/2016 2:56:00 PM							
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch		
EPA METHO	DD 300.0: ANIONS					Analyst	MRA		
Chloride		170	30	mg/Kg	20	8/15/2016 5:02:27 PM	26992		
EPA METHO	DD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	том		
Diesel Rang	e Organics (DRO)	ND	9.7	mg/Kg	1	8/15/2016 10:31:50 PM	26949		
Surr: DNC	OP	88.0	70-130	%Rec	1	8/15/2016 10:31:50 PM	26949		
EPA METHO	DD 8015D: GASOLINE RAM	IGE				Analyst	RAA		
Gasoline Ra	ange Organics (GRO)	ND	4.7	mg/Kg	1	8/12/2016 9:30:59 PM	26931		
Surr: BFB	3	108	68.3-144	%Rec	1	8/12/2016 9:30:59 PM	26931		
EPA METHO	DD 8021B: VOLATILES					Analyst	RAA		
Benzene		ND	0.024	mg/Kg	1	8/12/2016 9:30:59 PM	26931		
Toluene		ND	0.047	mg/Kg	1	8/12/2016 9:30:59 PM	26931		
Ethylbenzen	ne	ND	0.047	mg/Kg	1	8/12/2016 9:30:59 PM	26931		
Xylenes, Tot	tal	ND	0.094	mg/Kg	1	8/12/2016 9:30:59 PM	26931		

80-120

%Rec

1

8/12/2016 9:30:59 PM

26931

100

Hall Environmental Analysis Laboratory, Inc.

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

D Sample Diluted Due to Matrix

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limit Page 54 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Date Reported: 8/18/2016

8/12/2016 9:54:19 PM

8/12/2016 9:54:19 PM

8/12/2016 9:54:19 PM

1

1

1

26931

26931

26931

<b>CLIENT:</b> Agave Energy Company <b>Project:</b> Grace Well Leak <b>Lab ID:</b> 1608654-055	Client Sample ID: 20A Collection Date: 8/5/2016 Matrix: SOIL Received Date: 8/10/2016 3:56:00 PM						
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	: MRA	
Chloride	ND	30	mg/Kg	20	8/15/2016 5:14:51 PM	26992	
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	S			Analys	:: TOM	
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/15/2016 10:59:19 PM	1 26949	
Surr: DNOP	88.3	70-130	%Rec	1	8/15/2016 10:59:19 PM	l 26949	
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	II: RAA	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/12/2016 9:54:19 PM	26931	
Surr: BFB	108	68.3-144	%Rec	1	8/12/2016 9:54:19 PM	26931	
EPA METHOD 8021B: VOLATILES					Analys	:: RAA	
Benzene	ND	0.024	mg/Kg	1	8/12/2016 9:54:19 PM	26931	
Toluene	ND	0.048	mg/Kg	1	8/12/2016 9:54:19 PM	26931	

0.048

0.095

80-120

mg/Kg

mg/Kg

%Rec

ND

ND

99.3

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

*	Value exceeds	Maximum	Contaminant	Level.
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Hall Environmental Analysis Laboratory, Inc.

Ethylbenzene

Xylenes, Total

**Qualifiers:** 

- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limit Page 55 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Date Reported: 8/18/2016

8/12/2016 10:17:42 PM 26931

<b>CLIENT:</b> Agave Energy Company <b>Project:</b> Grace Well Leak <b>Lab ID:</b> 1608654-056	Matrix:	Client Sample ID: 20BCollection Date: 8/5/2016Matrix: SOILReceived Date: 8/10/2016 3:56:00 PM							
Analyses	Result	PQL	Qual Uni	its	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS						Analyst	MRA		
Chloride	57	30	mg	g/Kg	20	8/15/2016 5:52:05 PM	26992		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S				Analyst	том		
Diesel Range Organics (DRO)	ND	9.8	mg	g/Kg	1	8/15/2016 11:26:53 PM	26949		
Surr: DNOP	90.6	70-130	%F	Rec	1	8/15/2016 11:26:53 PM	26949		
EPA METHOD 8015D: GASOLINE RAM	IGE					Analyst	RAA		
Gasoline Range Organics (GRO)	ND	4.8	mg	g/Kg	1	8/12/2016 10:17:42 PM	26931		
Surr: BFB	107	68.3-144	%F	Rec	1	8/12/2016 10:17:42 PM	26931		
EPA METHOD 8021B: VOLATILES						Analyst	RAA		
Benzene	ND	0.024	mg	g/Kg	1	8/12/2016 10:17:42 PM	26931		
Toluene	ND	0.048	mg	g/Kg	1	8/12/2016 10:17:42 PM	26931		
Ethylbenzene	ND	0.048	mg	g/Kg	1	8/12/2016 10:17:42 PM	26931		
Xylenes, Total	ND	0.096	mg	g/Kg	1	8/12/2016 10:17:42 PM	26931		

80-120

%Rec

1

99.1

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

Teler to the Qe Summary report and sample rogin enceknist for hugged Qe data and preservat

\* Value exceeds Maximum Contaminant Level.

Hall Environmental Analysis Laboratory, Inc.

D Sample Diluted Due to Matrix

**Qualifiers:** 

- 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 56 of 67
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date	Reported:	8/18/2016
Date	Reporteu.	0/10/2010

20 8/15/2016 6:04:29 PM

1

1

1

1

1

1

1

1

1

Batch

26992

Analyst: TOM

Analyst: RAA

Analyst: RAA

8/15/2016 11:54:38 PM 26949

8/15/2016 11:54:38 PM 26949

8/12/2016 10:41:11 PM 26931

		ť	U /		1			
CLIENT:	Agave Energy Company			Client Samp	<b>ble ID:</b> 16C			
Project:	Grace Well Leak		Collection Date: 8/5/2016					
Lab ID:	1608654-057	Matrix	SOIL	Received	Date: 8/10/2016 3:56:00 PM			
Analyses		Result	PQL	Qual Units	DF Date Analyzed	Batch		
EPA MET	HOD 300.0: ANIONS				Analy	/st: MRA		

30

9.7

4.7

70-130

68.3-144

0.023

0.047

0.047

0.094

80-120

mg/Kg

mg/Kg

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

110

ND

90.4

ND

107

ND

ND

ND

ND

99.7

## Hall Environmental Analysis Laboratory. Inc.

**EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** 

**EPA METHOD 8015D: GASOLINE RANGE** 

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.

Chloride

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

**Diesel Range Organics (DRO)** 

Gasoline Range Organics (GRO)

**EPA METHOD 8021B: VOLATILES** 

- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- Analyte detected below quantitation limit Page 57 of 67 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Chem.	Agave	e Energy Company			
Project:	Grace	e Well Leak			
Sample ID	MB-26964	SampType: MBLK	TestCode: EPA Method	d 300.0: Anions	
Client ID:	PBS	Batch ID: 26964	RunNo: 36494		
Prep Date:	8/12/2016	Analysis Date: 8/12/2016	SeqNo: 1130035	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		ND 1.5			
Sample ID	LCS-26964	SampType: LCS	TestCode: EPA Method	d 300.0: Anions	
Client ID:	LCSS	Batch ID: 26964	RunNo: 36494		
Prep Date:	8/12/2016	Analysis Date: 8/12/2016	SeqNo: 1130036	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 93.9 90	110	
Sample ID	MB-26965	SampType: MBLK	TestCode: EPA Method	d 300.0: Anions	
Client ID:	PBS	Batch ID: 26965	RunNo: 36494		
Prep Date:	8/12/2016	Analysis Date: 8/12/2016	SeqNo: 1130065	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	LCS-26965	SampType: LCS	TestCode: EPA Method	d 300.0: Anions	
Sample ID Client ID:	LCS-26965 LCSS	SampType: LCS Batch ID: 26965	TestCode: EPA Method RunNo: 36494	d 300.0: Anions	
Sample ID Client ID: Prep Date:	LCS-26965 LCSS 8/12/2016	SampType: LCS Batch ID: 26965 Analysis Date: 8/12/2016	TestCode: EPA Method RunNo: 36494 SeqNo: 1130066	<b>d 300.0: Anions</b> Units: <b>mg/Kg</b>	
Sample ID Client ID: Prep Date: Analyte	LCS-26965 LCSS 8/12/2016	SampType: <b>LCS</b> Batch ID: <b>26965</b> Analysis Date: <b>8/12/2016</b> Result PQL SPK value	TestCode: <b>EPA Methoo</b> RunNo: <b>36494</b> SeqNo: <b>1130066</b> • SPK Ref Val %REC LowLimit	<b>d 300.0: Anions</b> Units: <b>mg/Kg</b> HighLimit %RPD	RPDLimit Qual
Sample ID Client ID: Prep Date: Analyte Chloride	LCS-26965 LCSS 8/12/2016	SampType: LCS Batch ID: 26965 Analysis Date: 8/12/2016 Result PQL SPK value 14 1.5 15.00	TestCode: EPA Method RunNo: 36494 SeqNo: 1130066 SPK Ref Val %REC LowLimit 0 0 93.8 90	<b>d 300.0: Anions</b> Units: <b>mg/Kg</b> HighLimit %RPD 110	RPDLimit Qual
Sample ID Client ID: Prep Date: Analyte Chloride Sample ID	LCS-26965 LCSS 8/12/2016 MB-26992	SampType: LCS Batch ID: 26965 Analysis Date: 8/12/2016 Result PQL SPK value 14 1.5 15.00 SampType: mblk	TestCode: EPA Method RunNo: 36494 SeqNo: 1130066 SPK Ref Val %REC LowLimit 0 0 93.8 90 TestCode: EPA Method	d 300.0: Anions Units: mg/Kg HighLimit %RPD 110 d 300.0: Anions	RPDLimit Qual
Sample ID Client ID: Prep Date: Analyte Chloride Sample ID Client ID:	LCS-26965 LCSS 8/12/2016 MB-26992 PBS	SampType: LCS Batch ID: 26965 Analysis Date: 8/12/2016 Result PQL SPK value 14 1.5 15.00 SampType: mblk Batch ID: 26992	TestCode: EPA Method RunNo: 36494 SeqNo: 1130066 SPK Ref Val %REC LowLimit 0 93.8 90 TestCode: EPA Method RunNo: 36525	d 300.0: Anions Units: mg/Kg HighLimit %RPD 110 d 300.0: Anions	RPDLimit Qual
Sample ID Client ID: Prep Date: Analyte Chloride Sample ID Client ID: Prep Date:	LCS-26965 LCSS 8/12/2016 MB-26992 PBS 8/15/2016	SampType: LCS Batch ID: 26965 Analysis Date: 8/12/2016 Result PQL SPK value 14 1.5 15.00 SampType: mblk Batch ID: 26992 Analysis Date: 8/15/2016	TestCode:       EPA Method         RunNo:       36494         SeqNo:       1130066         SPK Ref Val       %REC       LowLimit         0       93.8       90         TestCode:       EPA Method         RunNo:       36525       SeqNo:       1130975	d 300.0: Anions Units: mg/Kg HighLimit %RPD 110 d 300.0: Anions Units: mg/Kg	RPDLimit Qual
Sample ID Client ID: Prep Date: Analyte Chloride Sample ID Client ID: Prep Date: Analyte	LCS-26965 LCSS 8/12/2016 MB-26992 PBS 8/15/2016	SampType: LCS Batch ID: 26965 Analysis Date: 8/12/2016 Result PQL SPK value 14 1.5 15.00 SampType: mblk Batch ID: 26992 Analysis Date: 8/15/2016 Result PQL SPK value	TestCode: EPA Method RunNo: 36494 SeqNo: 1130066 SPK Ref Val %REC LowLimit 0 0 93.8 90 TestCode: EPA Method RunNo: 36525 SeqNo: 1130975 SPK Ref Val %REC LowLimit	d 300.0: Anions Units: mg/Kg HighLimit %RPD 110 d 300.0: Anions Units: mg/Kg HighLimit %RPD	RPDLimit Qual
Sample ID Client ID: Prep Date: Analyte Chloride Sample ID Client ID: Prep Date: Analyte Chloride	LCS-26965 LCSS 8/12/2016 MB-26992 PBS 8/15/2016	SampType: LCS Batch ID: 26965 Analysis Date: 8/12/2016 Result PQL SPK value 14 1.5 15.00 SampType: mblk Batch ID: 26992 Analysis Date: 8/15/2016 Result PQL SPK value ND 1.5	TestCode: EPA Method RunNo: 36494 SeqNo: 1130066 SPK Ref Val %REC LowLimit 0 93.8 90 TestCode: EPA Method RunNo: 36525 SeqNo: 1130975 SPK Ref Val %REC LowLimit	d 300.0: Anions Units: mg/Kg HighLimit %RPD 110 d 300.0: Anions Units: mg/Kg HighLimit %RPD	RPDLimit Qual
Sample ID Client ID: Prep Date: Analyte Chloride Sample ID Client ID: Prep Date: Analyte Chloride Sample ID	LCS-26965 LCSS 8/12/2016 MB-26992 PBS 8/15/2016 LCS-26992	SampType: LCS Batch ID: 26965 Analysis Date: 8/12/2016 Result PQL SPK value 14 1.5 15.00 SampType: mblk Batch ID: 26992 Analysis Date: 8/15/2016 Result PQL SPK value ND 1.5 SampType: Ics	TestCode: EPA Method RunNo: 36494 SeqNo: 1130066 SPK Ref Val %REC LowLimit 0 93.8 90 TestCode: EPA Method RunNo: 36525 SeqNo: 1130975 SPK Ref Val %REC LowLimit TestCode: EPA Method	d 300.0: Anions Units: mg/Kg HighLimit %RPD 110 d 300.0: Anions Units: mg/Kg HighLimit %RPD	RPDLimit Qual
Sample ID Client ID: Prep Date: Analyte Chloride Sample ID Client ID: Prep Date: Analyte Chloride Sample ID Client ID:	LCS-26965 LCSS 8/12/2016 MB-26992 PBS 8/15/2016 LCS-26992 LCSS	SampType: LCS Batch ID: 26965 Analysis Date: 8/12/2016 Result PQL SPK value 14 1.5 15.00 SampType: mblk Batch ID: 26992 Analysis Date: 8/15/2016 Result PQL SPK value ND 1.5 SampType: Ics Batch ID: 26992	TestCode: EPA Method RunNo: 36494 SeqNo: 1130066 SPK Ref Val %REC LowLimit 0 93.8 90 TestCode: EPA Method RunNo: 36525 SeqNo: 1130975 SPK Ref Val %REC LowLimit TestCode: EPA Method RunNo: 36525	d 300.0: Anions Units: mg/Kg HighLimit %RPD 110 d 300.0: Anions Units: mg/Kg HighLimit %RPD	RPDLimit Qual
Sample ID Client ID: Prep Date: Analyte Chloride Sample ID Client ID: Prep Date: Analyte Chloride Sample ID Client ID: Prep Date:	LCS-26965 LCSS 8/12/2016 MB-26992 PBS 8/15/2016 LCS-26992 LCSS 8/15/2016	SampType: LCS Batch ID: 26965 Analysis Date: 8/12/2016 Result PQL SPK value 14 1.5 15.00 SampType: mblk Batch ID: 26992 Analysis Date: 8/15/2016 Result PQL SPK value ND 1.5 SampType: Ics Batch ID: 26992 Analysis Date: 8/15/2016	TestCode: EPA Method RunNo: 36494 SeqNo: 1130066 SPK Ref Val %REC LowLimit 0 93.8 90 TestCode: EPA Method RunNo: 36525 SeqNo: 1130975 SPK Ref Val %REC LowLimit TestCode: EPA Method RunNo: 36525 SeqNo: 1130976	d 300.0: Anions Units: mg/Kg HighLimit %RPD 110 d 300.0: Anions Units: mg/Kg HighLimit %RPD	RPDLimit Qual
Sample ID Client ID: Prep Date: Analyte Chloride Sample ID Client ID: Prep Date: Analyte Chloride Sample ID Client ID: Prep Date: Analyte	LCS-26965 LCSS 8/12/2016 MB-26992 PBS 8/15/2016 LCS-26992 LCSS 8/15/2016	SampType: LCS Batch ID: 26965 Analysis Date: 8/12/2016 Result PQL SPK value 14 1.5 15.00 SampType: mblk Batch ID: 26992 Analysis Date: 8/15/2016 Result PQL SPK value ND 1.5 SampType: Ics Batch ID: 26992 Analysis Date: 8/15/2016 Result PQL SPK value	TestCode: EPA Method RunNo: 36494 SeqNo: 1130066 SPK Ref Val %REC LowLimit 0 93.8 90 TestCode: EPA Method RunNo: 36525 SeqNo: 1130975 SPK Ref Val %REC LowLimit RunNo: 36525 SeqNo: 1130976	d 300.0: Anions Units: mg/Kg HighLimit %RPD 110 d 300.0: Anions Units: mg/Kg HighLimit %RPD d 300.0: Anions Units: mg/Kg HighLimit %RPD	RPDLimit Qual RPDLimit Qual

### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Sample pH Not In Range Р
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 18-Aug-16

Client: Project:	Agave Grace	Energy Compa Well Leak	ny									
Sample ID	MB-26991	-26991 SampType: mblk			Tes	TestCode: EPA Method 300.0: Anions						
Client ID:	PBS	Batch ID: 26991			RunNo: <b>36529</b>							
Prep Date:	8/15/2016	Analysis Date	: 8/	15/2016	S	SeqNo: 1	131251	Units: <b>mg/H</b>	٤g			
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		ND	1.5									
Sample ID	LCS-26991	SampTyp	e: Ics	6	Tes	tCode: El	PA Method	300.0: Anion	S			
Client ID:	LCSS	Batch ID	: <b>26</b>	991	F	RunNo: 3	6529					
Prep Date:	8/15/2016	Analysis Date	: 8/	15/2016	S	SeqNo: 1	131252	Units: <b>mg/</b> #	٢g			
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		14	1.5	15.00	0	93.0	90	110				

### **Qualifiers:**

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- D Sample Diluted Due to Matrix
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- 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

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Client:	Agave l	Energy Comp	any								
Project:	Grace V	Vell Leak									
Sample ID	LCS-26948	SampTy	pe: <b>LC</b>	S	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch	ID: 26	948	F	RunNo: 30	6497				
Prep Date:	8/12/2016	Analysis Da	te: <b>8/</b>	15/2016	S	SeqNo: 1	130588	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	43	10	50.00	0	85.6	62.6	124			
Surr: DNOP	)	4.3		5.000		86.4	70	130			
Sample ID	MB-26948	SampTy	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID:	PBS	Batch	ID: 26	948	F	RunNo: 3	6497				
Prep Date:	8/12/2016	Analysis Da	te: 8/	15/2016	S	SeqNo: 1	130589	Units: <b>mg/k</b>	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	10								
Surr: DNOP	)	8.8		10.00		87.7	70	130			
Sample ID	1608654-021AM	<b>S</b> SampTy	pe: <b>M</b> \$	3	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	7B	Batch	ID: 26	948	F	RunNo: 3	6497				
Prep Date:	8/12/2016	Analysis Da	te: 8/	15/2016	S	SeqNo: 1	130632	Units: <b>mg/k</b>	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	42	9.1	45.75	0	91.0	33.9	141			
Surr: DNOP	)	4.2		4.575		92.1	70	130			
Sample ID	1608654-021AM	<b>SD</b> SampTy	pe: <b>M</b> \$	SD	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	7B	Batch	ID: 26	948	F	RunNo: 3	6497				
Prep Date:	8/12/2016	Analysis Da	te: <b>8/</b>	15/2016	5	SeqNo: 1'	130633	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	44	9.7	48.69	0	91.1	33.9	141	6.35	20	
Surr: DNOP	)	4.4		4.869		91.0	70	130	0	0	
Sample ID	LCS-26949	SampTy	pe: <b>LC</b>	s	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch	ID: 26	949	F	RunNo: 30	6499		C	-	
Bron Doto:	8/12/2016	Analysis Da	ite: <b>8</b> /	15/2016	ç	SeaNo: 1	130646	Units: ma/k	(a		

## Prep Date: 8/12/2016 Analysis Date: 8/15/2016

•				•		•	•		
Analyte	Result PQI	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48 1	0 50.00	0	96.4	62.6	124			
Surr: DNOP	4.7	5.000		93.3	70	130			
Sample ID MB-26949	BID MB-26949 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID:	26949	R	unNo: 3	6499				
Prep Date: 8/12/2016	Analysis Date:	8/15/2016	S	eqNo: 1	130647	Units: mg/K	g		
Analyte	Result PQI	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

### **Qualifiers:**

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- Sample Diluted Due to Matrix D
- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

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Client:	Agave	Energy Compa	any								
Project:	Grace	Well Leak									
Sample ID	MB-26949	SampTyp	be: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	PBS	Batch I	D: 26	949	R	RunNo: 3	6499				
Prep Date:	8/12/2016	Analysis Dat	te: <b>8/</b>	15/2016	S	SeqNo: 1	130647	Units: mg/k	(g		
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		87.0	70	130			
Sample ID	LCS-26947	SampTyp	De: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	LCSS	Batch I	D: 26	947	R	RunNo: 3	6498				
Prep Date:	8/12/2016	Analysis Dat	te: <b>8/</b>	15/2016	S	SeqNo: 1	130970	Units: <b>mg/K</b>	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	41	10	50.00	0	81.6	62.6	124			
Surr: DNOP		4.6		5.000		91.2	70	130			
Sample ID	MB-26947	SampTyp	De: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	PBS	Batch I	D: 26	947	R	aunNo: 3	6498				
Prep Date:	8/12/2016	Analysis Dat	te: <b>8/</b>	15/2016	S	SeqNo: 1	130971	Units: mg/K	(g		
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		87.4	70	130			
Sample ID	LCS-26990	SampTy	be: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	LCSS	Batch I	D: 26	990	R	aunNo: 3	6499				
Prep Date:	8/15/2016	Analysis Dat	te: <b>8/</b>	16/2016	S	SeqNo: 1	131339	Units: %Re	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.6		5.000		91.9	70	130			
Sample ID	MB-26990	SampTyp	be: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	PBS	Batch I	D: 26	990	R	RunNo: 3	6499				
Prep Date:	8/15/2016	Analysis Dat	te: <b>8/</b>	16/2016	S	SeqNo: 1	131341	Units: %Re	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		11		10.00		108	70	130			

**Qualifiers:** 

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D Sample Diluted Due to Matrix

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- S % Recovery outside of range due to dilution or matrix
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- 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

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## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1608654

18-Aug-16

Client: Project:	Agave En Grace We	ergy Comp	any								
Sample ID	1608654-042AMS	SampTy	ne MS	3	Tes	tCode: FI	PA Method	8015D: Gase	oline Rang	e	
Client ID:	14B	Batch	ID: 26	931	F		6463	001021 0400	sine nang	•	
Pren Date	8/11/2016	Analysis Da	Analysis Date: 8/12/2016			SogNo: 1120156 Unite: malka					
	0/11/2010	-						01113. <b>119/1</b>	<b>v</b> g		
Analyte	o Organica (CDO)	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	e Organics (GRO)	1200	4.0	953.3	U	119	68.3	143			
Sample ID	1608654-042AMS	<b>)</b> SampTy	pe: <b>M</b>	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	14B	Batch	ID: 26	931	F	RunNo: 3	6463				
Prep Date:	8/11/2016	Analysis Da	ate: <b>8</b> /	/12/2016	S	SeqNo: 1	130157	Units: mg/k	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	je Organics (GRO)	27	4.8	23.92	0	113	59.3	143	4.91	20	
Surr: BFB		1200		956.9		122	68.3	144	0	0	
Sample ID	LCS-26931	SampTy	rpe: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	LCSS	Batch	ID: 26	931	F	RunNo: 3	6463				
Prep Date:	8/11/2016	Analysis Da	ate: <b>8</b> /	12/2016	S	SeqNo: 1	130173	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	je Organics (GRO)	26	5.0	25.00	0	105	80	120			
Surr: BFB		1200		1000		122	68.3	144			
Sample ID	MB-26931	SampTy	pe: MB	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	PBS	Batch	ID: 26	931	F	RunNo: 3	6463				
Prep Date:	8/11/2016	Analysis Da	ate: 8/	/12/2016	5	SeqNo: 1	130174	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	ND	5.0	1000							
Suff: BFB		1100		1000		111	68.3	144			
Sample ID	1608654-022AMS	SampTy	pe: <b>M</b>	5	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	7C	Batch	ID: 26	930	F	RunNo: 3	6502				
Prep Date:	8/11/2016	Analysis Da	ate: <b>8</b> /	/13/2016	S	SeqNo: 1	130402	Units: <b>mg/k</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	je Organics (GRO)	19	4.8	24.02	0	78.2	59.3	143			
Surr: BFB		820		960.6		85.3	68.3	144			
Sample ID	1608654-022AMS	<b>)</b> SampTy	pe: <b>M</b>	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	7C	Batch	ID: 26	930	F	RunNo: 3	6502				
Prep Date:	8/11/2016	Analysis Da	ate: <b>8</b> /	/13/2016	5	SeqNo: 1	130403	Units: <b>mg/H</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

#### **Qualifiers:**

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- 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
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## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	160	8654

18-Aug-16

Client:	Agave En	ergy Compa	ny									
Project:	Grace We	ll Leak										
Sample ID	1608654-022AMSD	SampTyp	e: M\$	SD	TestCode: EPA Method 8015D: Gasoline Range							
Client ID:	7C	Batch II	): <b>26</b>	930	F	RunNo: <b>36502</b>						
Prep Date:	8/11/2016	Analysis Date	e: 8/	/13/2016	5	SeqNo: 1130403			Units: mg/Kg			
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Rang	ge Organics (GRO)	19	4.9	24.63	0	78.2	59.3	143	2.58	20		
Surr: BFB		810		985.2		82.2	68.3	144	0	0		
Sample ID	LCS-26930	SampTyp	e: LC	s	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e		
Client ID:	LCSS	Batch II	): <b>26</b>	930	F	RunNo: 3	6502					
Prep Date:	8/11/2016	Analysis Date	e: 8/	/13/2016	S	SeqNo: 1	130422	Units: <b>mg/ł</b>	۲g			
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Rang	ge Organics (GRO)	23	5.0	25.00	0	93.6	80	120				
Surr: BFB		890		1000		88.8	68.3	144				
Sample ID	MB-26930	SampTyp	e: MI	BLK	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e		
Client ID:	PBS	Batch ID: 26930			F	RunNo: 3	6502					
Prep Date:	8/11/2016	Analysis Date	e: <b>8</b>	13/2016	S	SeqNo: 1	130423	Units: mg/k	٢g			
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Rang	ge Organics (GRO)	ND	5.0	1000								
Surr: BFB		820		1000		81.6	68.3	144				
Sample ID	1608654-002AMS	SampTyp	e: M\$	5	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e		
Client ID:	1B	Batch II	): <b>26</b>	929	F	RunNo: 3	6505					
Prep Date:	8/11/2016	Analysis Date	e: 8/	/14/2016	5	SeqNo: 1	130480	Units: <b>mg/k</b>	٨g			
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Rang	ge Organics (GRO)	21	5.0	24.93	0	82.6	59.3	143				
SUIT: BFB		900		997.0		90.2	68.3	144				
Sample ID	1608654-002AMSD	SampTyp	e: M\$	SD	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e		
Client ID:	1B	Batch II	): <b>26</b>	929	F	RunNo: 3	6505					
Prep Date:	8/11/2016	Analysis Date	e: 8/	14/2016	5	SeqNo: 1	130481	Units: <b>mg/ł</b>	٢g			
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Rang	ge Organics (GRO)	20	4.8	23.79	0	84.0	59.3	143	2.99	20		
Surr: BFB		870		951.5		91.7	68.3	144	0	0		
Sample ID	LCS-26929	SampTyp	e: LC	s	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e		
Client ID:	LCSS	Batch II	): <b>26</b>	929	F	RunNo: 3	6505					
Prep Date:	8/11/2016	Analysis Date	e: 8/	/14/2016	S	SeqNo: 1	130500	Units: mg/k	٢g			
1												

#### **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
- Page 63 of 67

## **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Agave I Grace V	Energy Com Well Leak	pany								
Sample ID	LCS-26929	SampT	ype: LC	cs	Test	tCode: El	PA Method	8015D: Gaso	line Range	9	
Client ID:	LCSS	Batch	n ID: 26	6929	R	aunNo: 3	6505				
Prep Date:	8/11/2016	Analysis D	ate: 8	6/14/2016	S	SeqNo: 1	130500	Units: <b>mg/K</b>	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	20	5.0	25.00	0	82.0	80	120			
Surr: BFB		870		1000		86.8	68.3	144			

Surr: BFB	870		1000		86.8	68.3	144			
Sample ID MB-26929	SampT	ype: ME	BLK	Test	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: PBS	Batch	ID: 26	929	R	lunNo: 3	6505				
Prep Date: 8/11/2016	Analysis D	ate: <b>8/</b>	14/2016	S	SeqNo: 1	130501	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	770		1000		77.3	68.3	144			

#### **Qualifiers:**

- Value exceeds Maximum Contaminant Level. \*
- Sample Diluted Due to Matrix D
- Н 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
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc

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Project:	Grace We	ell Leak	ipany								
Sample ID	1608654-041AMS	SampT	уре: М	6	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	14A	Batch	h ID: 26	931	F	RunNo: 3	6463				
Prep Date:	8/11/2016	Analysis D	Date: <b>8/</b>	12/2016	S	SeqNo: 1	130179	Units: <b>mg/k</b>	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.94	0.023	0.9372	0	100	71.5	122			
Toluene		0.99	0.047	0.9372	0	105	71.2	123			
Ethylbenzene		1.1	0.047	0.9372	0	114	75.2	130			
Xylenes, Total		3.2	0.094	2.812	0	113	72.4	131			
Surr: 4-Brom	nofluorobenzene	1.0		0.9372		107	80	120			
Sample ID	1608654-041AMSI	D SampT	уре: <b>М</b>	SD	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	14A	Batch	h ID: 26	931	F	RunNo: 3	6463				
Prep Date:	8/11/2016	Analysis D	Date: <b>8/</b>	12/2016	S	SeqNo: 1	130180	Units: <b>mg/k</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.99	0.025	0.9852	0	100	71.5	122	5.25	20	
Toluene		1.0	0.049	0.9852	0	106	71.2	123	5.74	20	
Ethylbenzene		1.1	0.049	0.9852	0	115	75.2	130	5.39	20	
Xylenes, Total		3.3	0.099	2.956	0	111	72.4	131	3.15	20	
Surr: 4-Brom	nofluorobenzene	1.1		0.9852		107	80	120	0	0	
Sample ID	LCS-26931	SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batch	h ID: 26	931	F	RunNo: 3	6463				
Prep Date:	8/11/2016	Analysis D	Date: <b>8/</b>	12/2016	5	SeqNo: 1	130197	Units: <b>mg/h</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.94	0.025	1.000	0	94.1	75.3	123			
Toluene		1.0	0.050	1.000	0	103	80	124			
Ethylbenzene		1.1	0.050	1.000	0	112	82.8	121			
Xylenes, Total		3.3	0.10	3.000	0	109	83.9	122			
Surr: 4-Brom	nofluorobenzene	1.1		1.000		112	80	120			
Sample ID	MB-26931	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batch	h ID: 26	931	F	RunNo: 3	6463				
Prep Date:	8/11/2016	Analysis D	Date: <b>8/</b>	12/2016	S	SeqNo: 1	130198	Units: <b>mg/k</b>	٢g		
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-Brom	nofluorobenzene	1.1		1.000		105	80	120			

#### **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

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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc

WO#:	1608654

18-Aug-16

Client: Project:	Agave Er Grace We	nergy Com ell Leak	npany								
Comple ID	4609654 024 AMS	Sama]			Taa	tCada: El	DA Mathad	2024B: Vala	<u>tiloo</u>		
	1000034-02 TAWIS	Samp	hup ac		res						
Client ID:	7В	Batc	n ID: 26	930	P	KUNNO: 3	0002		_		
Prep Date:	8/11/2016	Analysis [	Date: 8/	13/2016	5	SeqNo: 1	130450	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.94	0.025	0.9804	0	96.1	71.5	122			
Toluene		0.97	0.049	0.9804	0	98.7	71.2	123			
Ethylbenzene		0.93	0.049	0.9804	0	94.5	75.2	130			
Xylenes, Total		2.7	0.098	2.941	0	92.5	72.4	131			
Surr: 4-Bron	nofluorobenzene	1.1		0.9804		114	80	120			
Sample ID	1608654-021AMSI	D Samp	Гуре: М	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	7B	Batc	h ID: 26	930	F	RunNo: 3	6502				
Prep Date:	8/11/2016	Analysis [	Date: 8/	13/2016	S	SeqNo: 1	130451	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.86	0.024	0.9416	0	91.6	71.5	122	8.91	20	
Toluene		0.84	0.047	0.9416	0	89.1	71.2	123	14.3	20	
Ethylbenzene		0.83	0.047	0.9416	0	88.2	75.2	130	10.9	20	
Xylenes, Total		2.5	0.094	2.825	0	88.1	72.4	131	8.88	20	
Surr: 4-Bron	nofluorobenzene	1.0		0.9416		108	80	120	0	0	
Sample ID	LCS-26930	Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batc	h ID: 26	930	F	RunNo: 3	6502				
Prep Date:	8/11/2016	Analysis [	Date: <b>8/</b>	13/2016	5	SeqNo: 1	130473	Units: <b>mg/k</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.92	0.025	1.000	0	91.8	75.3	123			
Toluene		0.92	0.050	1.000	0	92.1	80	124			
Ethylbenzene		0.85	0.050	1.000	0	84.9	82.8	121			
Xylenes, Total		2.5	0.10	3.000	0	84.8	83.9	122			
Surr: 4-Bron	nofluorobenzene	1.1		1.000		110	80	120			
Sample ID	MB-26930	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batc	h ID: 26	930	F	RunNo: 3	6502				
Prep Date:	8/11/2016	Analysis [	Date: <b>8/</b>	13/2016	S	SeqNo: 1	130474	Units: mg/k	٨g		
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-Bron	nofluorobenzene	1.0		1.000		103	80	120			

#### **Qualifiers:**

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- 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

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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc

18-Aug-16
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Client: Project:	Agave En Grace We	ergy Com ell Leak	pany								
Sample ID	1608654-001AMS	SampT	Гуре: МS	6	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	1A	Batcl	h ID: 26	929	F	RunNo: 3	6505				
Prep Date:	8/11/2016	Analysis D	Date: <b>8/</b>	14/2016	S	SeqNo: 1	130506	Units: mg/ł	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.91	0.023	0.9302	0	98.2	71.5	122			
Toluene		0.96	0.047	0.9302	0	103	71.2	123			
Ethylbenzene		0.95	0.047	0.9302	0.004679	101	75.2	130			
Xylenes, Total		2.8	0.093	2.791	0.01459	101	72.4	131			
Surr: 4-Brom	ofluorobenzene	1.1		0.9302		114	80	120			
Sample ID	1608654-001AMS	<b>)</b> Samp1	Гуре: МS	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	1A	Batcl	h ID: 26	929	F	RunNo: 3	6505				
Prep Date:	8/11/2016	Analysis E	Date: <b>8/</b>	14/2016	S	SeqNo: 1	130507	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.94	0.024	0.9671	0	97.1	71.5	122	2.82	20	
Toluene		0.97	0.048	0.9671	0	100	71.2	123	1.47	20	
Ethylbenzene		0.98	0.048	0.9671	0.004679	101	75.2	130	3.46	20	
Xylenes, Total		2.9	0.097	2.901	0.01459	99.5	72.4	131	2.46	20	
Surr: 4-Brom	ofluorobenzene	1.1		0.9671		117	80	120	0	0	
Sample ID	LCS-26929	SampT	Type: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batcl	h ID: 26	929	F	RunNo: 3	6505				
Prep Date:	8/11/2016	Analysis D	Date: <b>8/</b>	14/2016	S	SeqNo: 1	130527	Units: <b>mg/k</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.97	0.025	1.000	0	97.4	75.3	123			
Toluene		0.96	0.050	1.000	0	96.2	80	124			
Ethylbenzene		0.97	0.050	1.000	0	97.2	82.8	121			
Xylenes, Total		2.9	0.10	3.000	0	96.7	83.9	122			
Surr: 4-Brom	ofluorobenzene	1.1		1.000		110	80	120			
Sample ID	MB-26929	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batcl	h ID: 26	929	F	RunNo: 3	6505				
Prep Date:	8/11/2016	Analysis D	Date: <b>8/</b>	14/2016	S	SeqNo: 1	130528	Units: mg/k	٢g		
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-Brom	ofluorobenzene	0.98		1.000		97.9	80	120			

#### **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

Page 67 of 67

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Alba TEL: 505-345-3975 Website: www.ha	Analysis Labora 4901 Hawkins uquerque, NM 87 FAX: 505-345-4 llenvironmental.	tory 3 NE 7109 <b>Sam</b> 9107 com	ple Log-In Check L	.ist
Client Name: AGAVE ENERGY COMP	Work Order Number:	1608654		RcptNo: 1	i
Received by/date: AT-08 110116			<u></u>		]
Logged By: Anne Thorne	8/10/2016 3:56:00 PM		anne Han	-	
Completed By: Anne Thorne	8/11/2016		Dan. M.		
Reviewed By:	09/11/16		Cante At un		
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?		<u>Courier</u>			
<u>Log In</u>					
4. Was an attempt made to cool the sample	s?	Yes 🗹	No 🗌		
5. Were all samples received at a temperatu	rre of >0° C to 6.0°C	Yes 🔽	No 🗌		
6. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
7. Sufficient sample volume for indicated tes	t(s)?	Yes 🔽	No 🗌		
8. Are samples (except VOA and ONG) prop	erly 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 bro	ken?	Yes	No 🗹 🛛	# of preserved	_
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗔	bottles checked for pH: (<2 or >12 unless	s noted)
13. Are matrices correctly identified on Chain of	of Custody?	Yes 🗹	No 🗌	Adjusted?	
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 🗌	Checked by:	

### Special Handling (if applicable)

is client notified of all discrepancies with this order?	Yes 🗌	No 🗌	NA 🗹
Person Notified:	Date		·
By Whom:	Via: 🗌 eMail 🗍	Phone Fax	n Person
Regarding:			
Client Instructions:	n na de la sedera de la seconda de la companya de la seconda de la seconda de la seconda de la seconda de la s	a data an orto a transmission o	

17. Additional remarks:

18. Cooler Information

	Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
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		Project Nam	<u>ē</u> .				-	h:www	allenvi	onme	intal.c	шо			
West Quay S	jî.	Grace Well I	_eak			4901 F	Hawkii	IS NE	- Alb	nauer	ne. N	IM 87	109		
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		Kerry Egan			208	o se eiC\				S'*(					
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		Sampler:	Kerry Egan/J	l. Fuentes	ам. Т	) в на	۱)	נו (ו		<sup>z</sup> ON					<u> </u>
Dther		Onlice. N	<b>Wayses</b>	<b>MENNERS NUMBER</b>	L +	911 L +	.81	-₩ 		1 <sup>,</sup> 5 / .		(∀			<u> </u>
		Samole liem	bereture!		3E	- 3E 	t p	9 10 19 10	sis:		) 	0/			<u> </u>
ttrix Samp	ole Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTI	BTEX + MTE	odteM) H9T	EDB (PNA d ANG) 0168	RCRA 8 Me	Anions (FIC)	AOV) 80828	-im∋2) 0728			
	4C	4oz jar (1)	ice/cool	2/2	×	×				/ /			-		1
	5A	4oz jar (1)	ice/cool	10-		×		-		<u> </u>					-
	5B	4oz jar (1)	ice/cool	212	×	×							-		+
	5C	4oz jar (1)	ice/cool	2112		×									+
	6A	4oz jar (1)	ice/cool	112	×	×									-
	6B	4oz jar (1)	ice/coal	2NZ	×	×		   .	Ĺ		-				
	6C	4oz jar (1)	ice/cool	-219	×	×			Ĺ						
	7A	4oz jar (1)	ice/cool	720	×	×			Ê	-					
	7B	4oz jar (1)	ice/cool	120	×	×				$\left  - \right $					
	7C	4oz jar (1)	ice/cool	222	×	×									$\vdash$
	8A	4oz jar (1)	ice/cool	223	×	×		<u> </u>		-					
	8B	4oz jar (1)	ice/caol	422		×		-		$\vdash$					
nquished by:		Received By		Challen Time	Rema	rks: B	IEX, J	PH, O	- ana	lyses		-		-	-
Notished by		Received by	No.	0 11 - 112	<b>⊢</b> ,										
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	LL ENVIKONMEN		V. Halletty II. United Ital. Colf.	75 Eav 505-345-4107	Analysis Request		s,g;	bO bO	) 12808 1905 1907 1907 1907 1907 1907 1907 1907 1907	AO'	0 AN9 (PA ol 10,17,18 A975 10,17,18 Metts 10,17,18 10,	3		<		× ×					×	×		Cl- analyses		
			www 4901 Hawkins I	Tel 505-345-3	0.000	ies Vin	io si	8) 8 (SE	11MB 5B (C 8.1) 4.1)	20   4   80    E +	EDB (Method TPH Method TPH (Method FPH (Method	 - - 			. ×	. ×	×	×	×		×	×	×	marks: BTEX, TPH		
	•			1					Fuentes				-02.0 ×	127 ×	× % 00 -	-029 ×	730 ×	-03( x	732 ×	7.83 ×	x HEP	13ST	-134 ×	Date Time Re	10/16 DR45	10/10 11111
	Ird 🗆 Rush	me:	l Leak	1		nager:	)		Kerry Egan/J.		<ul> <li>Preservative</li> <li>Type</li> </ul>	ice/cool	ice/cool	lice/cool	ice/cool	ige/cool			180							
	Standa	Project Na	Grace Wel	Project #:	- <b>-</b>	Project Mai	Kerry Egan	) ,	Sampler:	Samole 16	Container Type and #	4oz jar (1)	4oz jar (1)	4oz jar (1)	4oz jar (1)	4oz jar (1)	4oz jar (1)	4oz jar (1)	4oz jar (1)	4oz jar (1)	4oz jar (1)	4oz jar (1)	4oz jar. (1)	Receive by:	And A	
	mpany		Quay St.					Level 4 (Full Validation)			Sample Request ID	8C	9A	9B	9C	10A .	10B	10C	11A	11B	11C	12A	12B	by:	by: //	Ja
	Energy Cor		326 West	10	13-8988						Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Relinquished	Relinquished I	How
	Agave		Address	NM 882	¥: (575) 5	Fax#:	<sup>a</sup> ackage:	dard	tation: AP	(Type)	Time												i	IIMe:	Time:	1300
ļ	Client:		Mailing	Artesia,	Phone #	email or	QA/QC F	D Stan			Date	8/5/16	8/5/16	8/5/16	8/5/16	8/5/16	8/5/16	8/5/16	8/5/16	8/5/16	8/5/16	8/5/16	8/5/16	Jate:	Date:	olle

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				Project Nam	le:		_ <b></b>		4			7 -  -					Y	
Mailing	Address	326 We	st Quav St.	- Grace Well I	l aak				- 		Jallen	/Ironn	iental.	com				
Artesia	NM 882	10		Project #:	LOGIN		-1	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10			₹ ¦	enbnc	rque, l	NIM 8	7109			
Phone	#: (575) 5	13-8988							20-COL	120-01	o Anal	rax o vsis F	UD-34	0-4-1				
email o	r Fax#:			Project Man	ager:		()	θs Λju		-		(*C				. <b>.</b>		
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	itation: AP	Cthor		Sampler:	Kerry Egan/J	. Fuentes	TMB	) H9T  9) 88	<u>(</u> 1.8	(L.f		' <sup>7</sup> ON'	8082					(N
	(Type)			Cance Leaner			+ 3	801 + <u>-</u>	3171	709 I	sle 	<sup>€</sup> ON	/ SƏ	(VO/			<u> </u>	, or
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL ND	TEX + MTB	BTM + X3T8 	PH (Methoc	Sto (Dhiv e		(1), T) enoin	061 Pesticid (AOV) 8082	V-im92) 072		<del>.</del>	·	r Bubbles ()
8/5/1	9	Soil	12C	4oz jar (1)	ice/cool			⊥ <u>×</u> ∃	L	8 3	<u>н</u>	∀,	8	.8			_	A
8/5/1		Soil	13A	4oz jar (1)	ice/cool	239	×	<u> ×</u>				< >					_	Τ
8/5/1(		Soil	13B	4oz jar (1)	ice/cool	522	< ×	< <u>×</u>		┼		- <	-			+	_	
8/5/1		Soil	13C	4oz jar (1)	ice/cool	940	×	<u> ×</u>		╀╾		< _						
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8/5/1(		Soil	14C	4oz jar (1)	íce/cool	212	×	×			-		-			╞		
8/5/16		Soil	15A	4oz jar (1)	ice/cool	hhz-	×	×		-								1
8/5/16		Soil	15B	4oz jar (1)	ice/cool	245	×	<u> </u>							+			1
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8/5/16		Soil	16A	4oz jar (1)	ice/cool	the	×	×		┼╌			-					1
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Jate:	Time:	Relinquishe	i sha ba	Received bf:		Date Time	Rema	Tks: B	ЦЩ.	PH, (	- an	alyses			1	-	]	
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	necessary, s	amples submit	tted to Hall Environmental may be subcor	ntracted to other ac	credited laboratories	This serves as notice of	this nose	hilita Ar	4.0									
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Client:	Agave	Energy Cc	ompany	A Standard	Rush						Ş						_ <b>&gt;</b>	
				Project Name	ä				3	WW.	llenvir	onmer	tal.cc	Ę	5	)		
Mailing	Address:	326 Wes	st Quay St.	Grace Well L	eak		×	1901 F	lawkin	s NE	- Albu	duerqu	N.	M 871	60			
Artesia,	NM 882 <sup>.</sup>	10		Project #:				Tel. 5(	)5-345	-3975	щ	. 505 . X 505	-345	4107				
Phone #	: (575) 5	13-8988								'	Analys	is Rec	quest					
email or	Fax#:			Project Mana	ıger:		(L	iəsa 				s Of						
QA/QC P	ackage:			Kerry Egan			208	eiO\				CB.		<u> </u>				
□ Stanc	Jard		Level 4 (Full Validation)				) s,g	SBE				0d 7						
Accredit	ation:			Sampler:	Kerry Egan/J.	. Fuentes		) <u>9</u> 9)	(1.	H) 		ом 808					(N	1
	ď	D Other		Onlees	NZ/NGS N	D Not the second	. +	10	811	PUC	s	/ s		(AC			or	·
	(Type)			Sample Tem	oelature.		38	8 P	- po		lej:	ebi	()	<u>ک</u>			<u>,                                    </u>	,
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	TM + X3T8 TEX + MT	TPH Method	TPH (Metho	ANG) 0158	ым 8 АЯЭЯ <u>4 -</u> ,	, 1) enoin≁ , ,1808 Pestic	OV) 80928	-imə2) 0728			Air Bubbles	
8/5/16		Soil	17A	4oz jar (1)	ice/cool	672	×	. ×	'  ·			3	3	31				1
8/5/16		Soil	17B	4oz jar (1)	ice/cool	052	×	×	-								$\left  \right $	T
8/5/16		Soil	18A	4oz jar (1)	ice/cool	152	×	×			×			$\left  - \right $				1
8/5/16		Soil	18B	4oz jar (1)	ice/cool	-852	×	×			×							T ~
8/5/16		Soil	19A	4oz jar (1)	ice/cool	ESP-	×	×	<u> </u>		×							
8/5/16		Soil	19B	4oz jar (1)	ice/cool	1921	×	×			×							1
8/5/16		Soil	20A	4oz jar (1)	ice/cool	252	×	×			_×							1
8/5/16		Soil	20B	4oz jar (1)	ice/cool	-256	×	×			×			-				
8/5/16		Soil	llec	4oz jar (1)	ice/cool	122-	×	×			×							
8/5/16		Soil	At astutte	4oz jar (1)	ice/cool		×	×			×							<u> </u>
8/5/16		Soil		4oz jar (1)	ice/cool		×	×			×							r
8/5/16		Soil		4oz jar (1)	icg/cool		   ×	×			×			<u> </u>				1
Jate:	Time:	Relinquishe	- Ad be	Received		Pate Time	Remar	ks: BT	EX, T	PH, C	- ana	yses					-	
ate:	Time:	Relinquishe	i ph: 🖉	Received by:		Date Time	$\mathbf{r}$											
·0//0	0,39	Ho.	h	0/24	, Jul	18/10/16												
JI JI	necessary, s	samples submi	itted to Hall Environmental may be subco	ntracted to other ac	credited laboratories	s. This serves as notice of	this possit	ility. Any	/ sub-con	tracted c	ata will b	e clearly i	notated	on the a	1alytical I	report.		



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)	d, (quar (quar	rters rters	are are	1=N\ smal	N 2=N lest to	IE 3=SW largest)	/ 4=SE) (NAD8	3 UTM in meters)		(In feet	:)
POD Number	POD Sub- Code basin (	County	Q 64 1	Q C  6 4	Sec	Tws	Rng	х	Y	Depth Well	Depth Water	Water Column
<u>C 02096</u>		ED	2	23	14	22S	32E	627204	3584464* 🌍	435	360	75
<u>C 02821</u>	С	LE	2 2	23	14	22S	32E	627303	3584563* 🌍	540	340	200
<u>C 02939</u>	С	LE	3 3	31	19	22S	32E	620234	3583042* 🌍	280		
C 03717 POD1	С	LE	4 4	11	09	22S	32E	624094	3586365 🌍	650		
									Average Depth to	Water:	350 f	eet
									Minimum	Depth:	340 f	eet
									Maximum	Depth:	360 f	eet
Record Count: 4				_								
PLSS Search:												
Section(s): 1-36	Tow	nship:	22S		Rai	<b>1ge:</b> 3	2E					

#### \*UTM location was derived from PLSS - see Help

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