

Sampling Summary for Palo Duro Release

Analytical Report H601144 and								
H600905	Field ID	Sample Date	Depth	BTEX	GRO	DRO	CI-	Comments
H600905-01	South Wall #1	4/26/2016	Surface	ND	ND	ND	64	Collected from the south sidewall, at surface level (0-6").
H600905-02	South Wall #2	4/26/2016	2'	ND	ND	ND	ND	Collected from south sidewall, at 2' below surface.
H600905-03	East Wall #1	4/26/2016	Surface	0.2	ND	ND	32	
H600905-04	East Wall #2	4/26/2016	2'	ND	ND	ND	16	
H600905-05	West Wall #1	4/26/2016	Surface	ND	ND	ND	64	Collected from the west sidewall of contaminated area at surface level (0-6").
H600905-06	West Wall #2	4/26/2016	2'	ND	ND	ND	832	Collected from the west sidewall of contaminated area at 2'.
H600905-07	North Wall #1	4/26/2016	Surface	ND	ND	ND	48	Collected from the north sidewall of contaminated area (0-6").
H600905-08	North Wall #2	4/26/2016	2'	ND	ND	ND	192	Collected from the north sidewall of contaminated area at 2'.
H600905-09	Floor	4/26/2016	4'	0.351	ND	11.5	48	Collected from the floor of the excavation, at 4'.
H601144-01	West Wall #1	5/25/2016	Surface	ND	ND	ND	320	Collected from the west sidewall after further excavation, at surface level (0-6").
H601144-02	West Wall #2	5/25/2016	2'	ND	ND	ND	192	Collected from the west sidewall after further

Note: Groundwater in this area is 130' in depth (according to NMOSE report). Site ranking is 0.



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)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-	County	73 S. F.	Q 16			Tws	Rng	x	Y			Water Column
C 00010			ED					23S		581129	3572075*	250	103	147
C 00010 CLW191724	0		ED	2	3	2	25	23S	27E	580926	3571666*	259		
C 00010 CLW191759	0		ED	1	2	2	25	23S	27E	581129	3572075*	259		
C 00010 ENLGD			ED	1	2	2	25	23S	27E	581129	3572075*	259		
C 00259 S			ED	1	1	3	30	23S	27E	571874	3571131* 🌑	204		
C 00276		С	ED	1	1	1	24	23S	27E	579945	3573670	232	70	162
C 00276 S			ED		1	1	24	23S	27E	580017	3573576*	248	130	118
C 02004		С	ED		3	4	24	23S	27E	580825	3572378*	232	190	42
C 02377		С	ED			2	29	23S	27E	574575	3571666*	232	170	62
C 02453		С	ED	4	4	2	29	23S	27E	574876	3571372*	210	175	35
C 02567		С	ED	2	1	2	26	23S	27E	579314	3572049*	187	89	98
C 02834			ED	1	1	3	30	23S	27E	571874	3571131* 🌑	310	176	134
C 02835			ED	3	4	1	30	23S	27E	572258	3571338*	228		
C 03031		С	ED	1	3	3	35	23S	27E	578315	3569206*	150	67	83

Average Depth to Water:

130 feet

Minimum Depth:

67 feet

Maximum Depth:

190 feet

Record Count: 14

PLSS Search:

Section(s): 24-36

Township: 23S

Range: 27E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



May 04, 2016

KERRY EGAN

AGAVE ENERGY COMPANY

P. O. BOX 158

ARTESIA, NM 88211

RE: PALO DURO

Enclosed are the results of analyses for samples received by the laboratory on 04/27/16 10:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg & Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



AGAVE ENERGY COMPANY KERRY EGAN P. O. BOX 158 ARTESIA NM, 88211

Fax To: (575) 748-4275

Received:

04/27/2016

04/26/2016

Reported:

05/04/2016

Soil

Project Name:

PALO DURO

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

AFE 211360

Sample Received By:

Sampling Date:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: PD - SOUTH WALL #1 (H600905-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2016	ND	2.02	101	2.00	0.375	
Toluene*	<0.050	0.050	04/28/2016	ND	1.95	97.3	2.00	0.137	
Ethylbenzene*	<0.050	0.050	04/28/2016	ND	1.74	87.0	2.00	1.37	
Total Xylenes*	<0.150	0.150	04/28/2016	ND	5.37	89.4	6.00	1.05	
Total BTEX	<0.300	0.300	04/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.5	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/29/2016	ND	448	112	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS	45,-645000				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/28/2016	ND	197	98.3	200	1.25	
DRO >C10-C28	<10.0	10.0	04/28/2016	ND	224	112	200	8.70	
Surrogate: 1-Chlorooctane	74.1	% 35-147							
Surrogate: 1-Chlorooctadecane	80.0	% 28-171							

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keens ..



AGAVE ENERGY COMPANY KERRY EGAN P. O. BOX 158 ARTESIA NM, 88211

(575) 748-4275 Fax To:

Received: Reported:

04/27/2016

Sampling Date:

04/26/2016

Sampling Type: Soil Sampling Condition:

Cool & Intact Sample Received By: Jodi Henson

05/04/2016 Project Name: PALO DURO Project Number: AFE 211360 Project Location: NOT GIVEN

Sample ID: PD - SOUTH WALL #2 (H600905-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2016	ND	2.02	101	2.00	0.375	
Toluene*	<0.050	0.050	04/28/2016	ND	1.95	97.3	2.00	0.137	
Ethylbenzene*	<0.050	0.050	04/28/2016	ND	1.74	87.0	2.00	1.37	
Total Xylenes*	<0.150	0.150	04/28/2016	ND	5.37	89.4	6.00	1.05	
Total BTEX	<0.300	0.300	04/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.6	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/29/2016	ND	448	112	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/28/2016	ND	197	98.3	200	1.25	
DRO >C10-C28	<10.0	10.0	04/28/2016	ND	224	112	200	8.70	
Surrogate: 1-Chlorooctane	69.2	% 35-147	i.						
Surrogate: 1-Chlorooctadecane	75.1 9	% 28-171							

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AGAVE ENERGY COMPANY KERRY EGAN P. O. BOX 158 ARTESIA NM, 88211

Fax To: (575) 748-4275

Received:

04/27/2016

Sampling Date:

04/26/2016

Reported:

05/04/2016

Sampling Type:

Soil

Project Name:

PALO DURO

Sampling Condition:

Cool & Intact

Project Number: Project Location: AFE 211360 NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: PD - EAST WALL #1 (H600905-03)

BTEX 8021B

mg/kg

Analyzed By: MS

Qualifier

Surrogate: 4-Bromofluorobenzene (PIL)

93.9%

73.6-140

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/29/2016	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/28/2016	ND	197	98.3	200	1.25	
DRO >C10-C28	<10.0	10.0	04/28/2016	ND	224	112	200	8.70	

Surrogate: 1-Chlorooctane

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70.3 %

35-147 28-171

Surrogate: 1-Chlorooctadecane

73.4 %

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Celeg D. Freeno -

Celey D. Keene, Lab Director/Quality Manager



AGAVE ENERGY COMPANY KERRY EGAN P. O. BOX 158 ARTESIA NM, 88211

Fax To:

(575) 748-4275

Analyzed By: MS

Received:

04/27/2016

Sampling Date:

04/26/2016

Reported:

BTEX 8021B

05/04/2016

Sampling Type:

Soil

Project Name:

PALO DURO

Sampling Condition:

Cool & Intact

Project Number: Project Location: AFE 211360 NOT GIVEN

ma/ka

Sample Received By:

Jodi Henson

Sample ID: PD - EAST WALL #2 (H600905-04)

mg/	кg	Anaiyze	а ву: м5					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	04/28/2016	ND	2.02	101	2.00	0.375	
<0.050	0.050	04/28/2016	ND	1.95	97.3	2.00	0.137	
<0.050	0.050	04/28/2016	ND	1.74	87.0	2.00	1.37	
<0.150	0.150	04/28/2016	ND	5.37	89.4	6.00	1.05	
<0.300	0.300	04/28/2016	ND					
96.8 5	% 73.6-14)						
mg/kg		Analyzed By: AP						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	04/29/2016	ND	448	112	400	7.41	
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	04/28/2016	ND	197	98.3	200	1.25	
10.0	20.0							
<10.0	10.0	04/28/2016	ND	224	112	200	8.70	
	10.0	04/28/2016	ND	224	112	200	8.70	
	Result <0.050 <0.050 <0.050 <0.150 <0.300 96.8 9 mg/	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300 96.8 % 73.6-140 mg/ky Result Reporting Limit <16.0 16.0 mg/ky Result Reporting Limit	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC < 0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD < 0.050

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Celley There-



AGAVE ENERGY COMPANY KERRY EGAN P. O. BOX 158 ARTESIA NM, 88211

Fax To:

(575) 748-4275

Received:

04/27/2016

Sampling Date:

04/26/2016

Reported:

05/04/2016

Sampling Type:

Soil

Project Name:

PALO DURO AFE 211360

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: PD - WEST WALL #1 (H600905-05)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2016	ND	2.02	101	2.00	0.375	
Toluene*	<0.050	0.050	04/28/2016	ND	1.95	97.3	2.00	0.137	
Ethylbenzene*	<0.050	0.050	04/28/2016	ND	1.74	87.0	2.00	1.37	
Total Xylenes*	<0.150	0.150	04/28/2016	ND	5.37	89.4	6.00	1.05	
Total BTEX	<0.300	0.300	04/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.5	% 73.6-14	0						
Chloride, SM4500Cl-B mg/kg		kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/29/2016	ND	448	112	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	04/28/2016	ND	197	98.3	200	1.25	
DRO >C10-C28	<10.0	10.0	04/28/2016	ND	224	112	200	8.70	
Surrogate: 1-Chlorooctane	80.3	% 35-147							
Surrogate: 1-Chlorooctadecane	80.8	% 28-171							

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Celeg Theene -



AGAVE ENERGY COMPANY KERRY EGAN P. O. BOX 158 ARTESIA NM, 88211

Fax To:

(575) 748-4275

Received:

04/27/2016

Sampling Date:

04/26/2016

Reported:

Sampling Type:

Soil

Project Name:

05/04/2016

Sampling Condition:

Cool & Intact

Project Number:

PALO DURO AFE 211360

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: PD - WEST WALL #2 (H600905-06)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2016	ND	2.02	101	2.00	0.375	
Toluene*	<0.050	0.050	04/28/2016	ND	1.95	97.3	2.00	0.137	
Ethylbenzene*	<0.050	0.050	04/28/2016	ND	1.74	87.0	2.00	1.37	
Total Xylenes*	<0.150	0.150	04/28/2016	ND	5.37	89.4	6.00	1.05	
Total BTEX	<0.300	0.300	04/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.4 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	04/29/2016	ND	448	112	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/28/2016	ND	197	98.3	200	1.25	
DRO >C10-C28	<10.0	10.0	04/28/2016	ND	224	112	200	8.70	
Surrogate: 1-Chlorooctane	68.4 %	% 35-147	,						
Surrogate: 1-Chlorooctadecane	77.69	6 28-171							

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Celeg Literra -



AGAVE ENERGY COMPANY KERRY EGAN P. O. BOX 158 ARTESIA NM, 88211 Fax To: (575) 748-4275

Received:

04/27/2016

Reported:

05/04/2016

Sampling Date: Sampling Type:

04/26/2016 Soil

Project Name:

PALO DURO

Sampling Condition:

Cool & Intact

Project Number:

AFE 211360

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: PD - NORTH WALL #1 (H600905-07)

BTEX 8021B	mg/	mg/kg		d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2016	ND	2.02	101	2.00	0.375	
Toluene*	<0.050	0.050	04/28/2016	ND	1.95	97.3	2.00	0.137	
Ethylbenzene*	<0.050	0.050	04/28/2016	ND	1.74	87.0	2.00	1.37	
Total Xylenes*	<0.150	0.150	04/28/2016	ND	5.37	89.4	6.00	1.05	
Total BTEX	<0.300	0.300	04/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL

96.1%

73.6-140

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/29/2016	ND	448	112	400	7.41	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/29/2016	ND	197	98.3	200	1.25	
DRO >C10-C28	<10.0	10.0	04/29/2016	ND	224	112	200	8.70	

Surrogate: 1-Chlorooctane

104%

35-147

Surrogate: 1-Chlorooctadecane

84.8 %

28-171

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Celeg To Freeno -

Celey D. Keene, Lab Director/Quality Manager



AGAVE ENERGY COMPANY KERRY EGAN P. O. BOX 158 ARTESIA NM, 88211 Fax To: (575) 748-4275

Received: 04/27/2016
Reported: 05/04/2016
Project Name: PALO DURO

Project Name: PALO DURO
Project Number: AFE 211360
Project Location: NOT GIVEN

Sampling Date: 04/26/2016 Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PD - NORTH WALL #2 (H600905-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2016	ND	2.02	101	2.00	0.375	
Toluene*	<0.050	0.050	04/28/2016	ND	1.95	97.3	2.00	0.137	
Ethylbenzene*	<0.050	0.050	04/28/2016	ND	1.74	87.0	2.00	1.37	
Total Xylenes*	<0.150	0.150	04/28/2016	ND	5.37	89.4	6.00	1.05	
Total BTEX	<0.300	0.300	04/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.1 9	% 73.6-14	0						,
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/28/2016	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/29/2016	ND	197	98.3	200	1.25	
DRO >C10-C28	<10.0	10.0	04/29/2016	ND	224	112	200	8.70	
Surrogate: 1-Chlorooctane	70.1 9	% 35-147	0				30 30 10 10 10 10 10 10 10 10 10 10 10 10 10		(*s (s)
Surrogate: 1-Chlorooctadecane	73.2 9	% 28-171							

Cardinal Laboratories *=Accredited Analyte

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Celeg E. Keene -

Celey D. Keene, Lab Director/Quality Manager



AGAVE ENERGY COMPANY KERRY EGAN P. O. BOX 158 ARTESIA NM, 88211

Fax To: (575) 748-4275

Received: Reported: 04/27/2016 05/04/2016 Sampling Date: Sampling Type: 04/26/2016

Project Name: Project Number:

Project Location:

PALO DURO AFE 211360 NOT GIVEN

Sampling Condition:

Soil Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: PD - FLOOR (H600905-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/28/2016	ND	2.02	101	2.00	0.375	
Toluene*	0.060	0.050	04/28/2016	ND	1.95	97.3	2.00	0.137	
Ethylbenzene*	<0.050	0.050	04/28/2016	ND	1.74	87.0	2.00	1.37	
Total Xylenes*	0.291	0.150	04/28/2016	ND	5.37	89.4	6.00	1.05	
Total BTEX	0.351	0.300	04/28/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.1	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/28/2016	ND	400	100	400	7.69	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/29/2016	ND	197	98.3	200	1.25	
DRO >C10-C28	11.5	10.0	04/29/2016	ND	224	112	200	8.70	
Surrogate: 1-Chlorooctane	75.4	% 35-147	,						
Surrogate: 1-Chlorooctadecane	78.4	% 28-171							

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Celeg There.



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keens -



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST.

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

(5/3) 393-2320 FF	TAX (3/3) 333-24/0	7		ANALYSIS REQUEST
Company Name: Agave Energy Company	npany	BILLIO		1
Project Manager: Kerry Egan		P.O. #: 606-2336		
Address: 326 South 4th Street		Company: Agave Energy		
City: Artesia	State: NM Zip:	Attn: Kerry Egan		
Phone #: 575-513-8988	Fax #:	Address: 326 West Quay		
Project #: AFE #211360	Project Owner:	City: Artesia		
Project Name:		State: NM Zip: 88210		
Project Location: Palo Duro		Phone #: 575 748-4469		
Sampler Name: Kerry Egan		Fax #: 575 748-4275		
FOR LAB USE ONLY	MATRIX	UAMPLING		
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE	BTEX TPH CI-	
PD – South Wall #1		x 4/26/168:00	×	
	#2 G 1 X	X 4/26/168:10	×	
3 PD – East Wall #1	1 G 1 ×	X 4/26/168:15	×	
	2 G 1 X	X 4/26/168:20	×	
	#1 G 1 ×	X 4/26/168:25	×	
	#2 G 1 ×	X 4/26/168:35	×	
7 PD - North Wall #1	#1 G 1 ×	X 4/26/168:40	×	
٧.	#2 G 1 X	X 4/26/168:45	×	
Q PD - Floor	C 1 ×	x 4/26/169:00	×	
PLEASE NOTE: Lubbilly and Damayee, Cardinal's kability an	PLEASE NOTE: Lightly and Damages. Cardinal's liability and cherk's exclusive remedy for any dawn arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses	ontract or tort, shall be limited to the amount paid by the	dient for the analyses	
PLEASE NOTE: Lability and Damages. Cardinal's liability at	nd cherk's exclusive remedy for any clean aronny when he have in so		and the state of t	

Relinquished By:

Time: 10:00 Au

Date: 4/27/16 Received By

Sampler - UPS - Bus - Other:

+ Cardinal cannot accept verbar sharpes. In Jeasa faxorither changes to (575) 393-5826 + 54

Sample Condition
Cool Intact
Cool Intact
Aves
No No

Delivered By: (Circle One)

Relinquished By:

In no event shall Cardinal be I



May 31, 2016

KERRY EGAN

AGAVE ENERGY COMPANY

P. O. BOX 158

ARTESIA, NM 88211

RE: PALO DURO CLEAN UP

Enclosed are the results of analyses for samples received by the laboratory on 05/25/16 8:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg & Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



AGAVE ENERGY COMPANY KERRY EGAN P. O. BOX 158 ARTESIA NM, 88211

(575) 748-4275 Fax To:

Received:

05/25/2016

Sampling Date:

05/23/2016

Reported:

05/31/2016

Sampling Type:

Soil

PALO DURO CLEAN UP

Sampling Condition:

Cool & Intact

Project Name:

Sample Received By:

Celey D. Keene

Project Number: Project Location: 606-2306

PALO DURO GAS PLANT

Sample ID: PALO DURO WEST WALL #1 (H601144-01)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2016	ND	2.04	102	2.00	3.13	
Toluene*	<0.050	0.050	05/27/2016	ND	1.95	97.6	2.00	4.21	
Ethylbenzene*	< 0.050	0.050	05/27/2016	ND	1.77	88.3	2.00	4.55	
Total Xylenes*	<0.150	0.150	05/27/2016	ND	5.62	93.7	6.00	3.20	
Total BTEX	<0.300	0.300	05/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/26/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/27/2016	ND	175	87.7	200	2.89	
DRO >C10-C28	<10.0	10.0	05/27/2016	ND	187	93.4	200	4.53	
Surrogate: 1-Chlorooctane	80.4	% 35-147	•						
Surrogate: 1-Chlorooctadecane	105 %	% 28-171							

Cardinal Laboratories

*=Accredited Analyte

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Celeg Theeno -



AGAVE ENERGY COMPANY KERRY EGAN P. O. BOX 158 ARTESIA NM, 88211

Fax To:

(575) 748-4275

Received:

05/25/2016

Sampling Date:

05/23/2016

Reported:

05/31/2016

Sampling Type:

Soil

Project Name:

PALO DURO CLEAN UP

Sampling Condition:

Cool & Intact

Project Number:

606-2306

Sample Received By:

Celey D. Keene

Project Location:

PALO DURO GAS PLANT

Sample ID: PALO DURO WEST WALL #2 (H601144-02)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2016	ND	2.04	102	2.00	3.13	
Toluene*	<0.050	0.050	05/27/2016	ND	1.95	97.6	2.00	4.21	
Ethylbenzene*	<0.050	0.050	05/27/2016	ND	1.77	88.3	2.00	4.55	
Total Xylenes*	<0.150	0.150	05/27/2016	ND	5.62	93.7	6.00	3.20	
Total BTEX	<0.300	0.300	05/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.6	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/26/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/27/2016	ND	175	87.7	200	2.89	
DRO >C10-C28	<10.0	10.0	05/27/2016	ND	187	93.4	200	4.53	
Surrogate: 1-Chlorooctane	82.4	% 35-147	,						
Surrogate: 1-Chlorooctadecane	110 9	6 28-171							

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Celeg to treens -



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
=	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celeg & Keens



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

(5/5) 393-2320 FAA (3/3) 393-24/0			
Company Name: Agave Energy Company	BILLTO	ANALYSIS REQUEST	
Project Manager: Kerry Egan	P.O. #: 606-2306		
Address: 326 South 4th Street	Company: Agave Energy	e Energy	
City: Artesia State: NM	Zip: Attn: Kerry Egan		
Phone #: 575-513-8988 Fax #:	Address: 326 West Quay	est Quay	
Project #: Project Owner:	ner: City: Artesia		
Project Name: Palo Duro Clean up	State: NM Zip	Zip: 88210	2
Project Location: Palo Duro Gas Plant	Phone #: 575 748-4469	8-4469	
Sampler Name: Kerry Egan	Fax #: 575 748-4275	275	
FOR LABUSE ONLY	MATRIX PRESERV.	SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TPH BTEX CI-	
O Palo Duro West Wall #1	G 1 X 5/		
	G 1 X 5/	5/23/167:45AM X X X X X X X X X X X X X X X X X X X	
PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remov	Cardinal's kability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the answirt paid by the client for the analyses	arrount paid by the client for the analyses	

Sample Condition
Cool Intact
Ves Tres
No No

CHECKED BY:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Mory Ser

Time: 8:504h

Date: Time:

Received B

Phone Result: Fax Result: REMARKS:

□ Yes

O O

Add'l Phone Add'l Fax #:

Relinquished By: