

SOUTHERN UTE INDIAN TRIBE

SAFETY & ENVIRONMENTAL COMPLIANCE MANAGEMENT GROUP

> **APPROVED** By Olivia Yu at 1:39 pm, Mar 09, 2018

January 16, 2018

Ms. Olivia Yu Environmental Specialist New Mexico Oil Conservation Division, District 1 <u>Olivia.yu@state.nm.us</u>

NMOCD grants closure to 1RP-4671.

Subject: Frontier Field Services, LLC Closure Request for Rhombus Union State Com 1 1RP-4671

Dear Ms. Yu,

Frontier Field Services, LLC (Frontier), a wholly-owned subsidiary of the Southern Ute Indian Tribe, is requesting NMOCD closure of the release that was discovered on April 2, 2017 at the Rhombus State Com 1.

Additional excavation and sampling was conducted during October 2017 in accordance with the plan approved by NMOCD and SLO on September 22 and October 12, 2017, respectively. Following confirmation that additional samples were below NMOCD cleanup levels, the excavation was lined with a 20 mil liner and backfilled with clean material. Figures 1, 2 and 3 show the site location, sample locations and excavation depths as requested in your December 1, 2017 email.

A summary of sample results is provided in Attachment A. Analytical laboratory reports are provided in Attachment B. Photos showing the final remedial actions are included in Attachment C.

Should you have any questions regarding this Closure Request, please contact me at (970) 764-6484.

Respectfully Submitted,

Graham Stahnke, PE Sr. Environmental Compliance Specialist Southern Ute Growth Fund

cc: Harley Everhart, Frontier Field Services, LLC Andy Young, Regulatory Compliance Manager, SUGF Amber Groves, SLO

Figures Attachment A – Sampling Results Attachment B – Laboratory Analytical Reports Attachment C – Photo Log

Figures







FRONTIER field services, llc southeir ule indian titue Figure 3 Detailed Excavation Depth Map Rhombus Union State Com 1 UL D 18S 34E



Date Saved: 12/27/2017 11:44:44 AM Author: arohde

Attachment A – Sampling Results

Aka Energy Group 1RP-4671 / Rhombus Union State Com #1 TPH Concentration Levels Soil Samples

Sample ID Description	Sample # 4	Sample # 7	Sample # 8	Sample # 9	Sample # X								Units	NMOCD
Sample Depth (feet bgs)	8'	8'	7'	6'	7'									Cleanup Levels
Date	Date 10/10/2017 10/10/2017 10	10/10/2017	10/10/2017	10/10/2017								1		
Benzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Toluene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Ethylbenzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Total Xylenes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Total BTEX	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Chloride	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
GRO	<10.0	<10.0	<10.0	<10.0	<10.0	N/A	mg/Kg	TBD						
DRO	<10.0	<10.0	<10.0	<10.0	<10.0	N/A	mg/Kg	TBD						
EXT DRO	<10.0	<10.0	<10.0	<10.0	<10.0	N/A	mg/Kg	TBD						

Note: This remediation site was not detrimental to public health, fresh water, animals, plant life, or to property

Acronyms:

NMOCD = New Mexico Oil Conservation Division

DRO = Diesel Range Organics (C6 - C10)

GRO = Gasoline Range Organics (>C10 - C28)

EXT DRO = Diesel Range Organics (>C28-C36)

TBD = To Be Determined

Amended Remediation Plan

Aka Energy Group 1RP-4671 / Rhombus Union State Com #1 Auger 5' Chloride Soil Samples

Sample ID Description	Sample # 1	Sample # 5	Sample # 10										Units	NMOCD
Sample Depth (feet bgs)	12'	10'	9'							-				Cleanup Levels
Date	Date 10/10/2017 1	10/10/2017	10/10/2017								1			
Benzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Toluene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Ethylbenzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Total Xylenes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Total BTEX	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Chloride	128	128	32	N/A	mg/Kg	TBD								
GRO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
DRO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
EXT DRO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD

Note: This remediation site was not detrimental to public health, fresh water, animals, plant life, or to property

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EXT DRO = Diesel Range Organics (>C28-C36)

TBD = To Be Determined

Amended Remediation Plan

Aka Energy Group 1RP-4671 / Rhombus Union State Com #1 East Of Leak

Sample ID Description	East Of Leak												Units	NMOCD
Sample Depth (feet bgs)	Surface												Olines	Cleanup Levels
Date	10/10/2017												1	
Benzene	<0.050	N/A	mg/Kg	TBD										
Toluene	< 0.050	N/A	mg/Kg	TBD										
Ethylbenzene	<0.050	N/A	mg/Kg	TBD										
Total Xylenes	<0.150	N/A	mg/Kg	TBD										
Total BTEX	< 0.300	N/A	mg/Kg	TBD										
Chloride	32.0	N/A	mg/Kg	TBD										
GRO	<10.0	N/A	mg/Kg	TBD										
DRO	<10.0	N/A	mg/Kg	TBD										
EXT DRO	<10.0	N/A	mg/Kg	TBD										

Note: This remediation site was not detrimental to public health, fresh water, animals, plant life, or to property

Acronyms:

NMOCD = New Mexico Oil Conservation Division

DRO = Diesel Range Organics (C6 - C10)

GRO = Gasoline Range Organics (>C10 - C28)

EXT DRO = Diesel Range Organics (>C28-C36)

TBD = To Be Determined

Amended Remediation Work Plan

Aka Energy Group 1RP-4671 / Rhombus Union State Com #1 TPH Concentration Levels (2FT Auger Hole) Soil Samples

Sample ID Description	Sample # 4	Sample # 7	Sample # 8	Sample # 9	Sample # X								Units	NMOCD
Sample Depth (feet bgs)	10'	10'	9'	8'	9'								Onics	Cleanup Levels
Date	Date 10/12/2017 10/12	10/12/2017	10/12/2017	10/12/2017	10/12/2017								1	
Benzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Toluene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Ethylbenzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Total Xylenes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Total BTEX	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
Chloride	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	mg/Kg	TBD
GRO	<10.0	<10.0	<10.0	<10.0	<10.0	N/A	mg/Kg	TBD						
DRO	<10.0	<10.0	<10.0	<10.0	<10.0	N/A	mg/Kg	TBD						
EXT DRO	<10.0	<10.0	<10.0	<10.0	<10.0	N/A	mg/Kg	TBD						

Amended Remediation Work Plan

Note: This remediation site was not detrimental to public health, fresh water, animals, plant life, or to property

Acronyms:

NMOCD = New Mexico Oil Conservation Division

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EXT DRO = Diesel Range Organics (>C28-C36)

TBD = To Be Determined

Attachment B – Laboratory Analytical Reports



October 11, 2017

HARLEY EVERHART FRONTIER FIELD SERVICES 4200 SKELLY DRIVE, SUITE 700 TULSA, OK 74135

RE: RHOMBUS

Enclosed are the results of analyses for samples received by the laboratory on 10/10/17 13:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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.tceg.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceg.texas.gov/field/ga/lab accred 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.

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.Keine

Celey D. Keene Lab Director/Quality Manager



FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135 Fax To: (575) 676-2401

Received:	10/10/2017	Sampling Date:	10/10/2017
Reported:	10/11/2017	Sampling Type:	Soil
Project Name:	RHOMBUS	Sampling Condition:	Cool & Intact
Project Number:	REMEDIATION PROJECT/ TPH CONC.	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: #4 - TPH CONCENTRATION LEVELS (H702723-01)

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	10/10/2017	ND	224	112	200	3.60	
DRO >C10-C28	<10.0	10.0	10/10/2017	ND	230	115	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	10/10/2017	ND					
Surrogate: 1-Chlorooctane	77.7 %	6 28.3-16	4				na na manana amin'ny fisiana amin'ny fisiana amin'ny fisiana amin'ny fisiana amin'ny fisiana amin'ny fisiana am		
Surrogate: 1-Chlorooctadecane	77.1 %	6 34.7-15	7 .						

Sample ID: #7 - TPH CONCENTRATION LEVELS (H702723-02)

TPH 8015M	mg/k	9	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	10/10/2017	ND	224	112	200	3.60	
DRO >C10-C28	<10.0	10.0	10/10/2017	ND	230	115	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	10/10/2017	ND					
Surrogate: 1-Chlorooctane	70.9 %	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	67.7 %	6 34.7-15	7						

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*=Accredited Analyte

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Celez D. Keine



FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135 Fax To: (575) 676-2401

Received:	10/10/2017	Sampling Date:	10/10/2017
Reported:	10/11/2017	Sampling Type:	Soil
Project Name:	RHOMBUS	Sampling Condition:	Cool & Intact
Project Number:	REMEDIATION PROJECT/ TPH CONC.	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: #8 - TPH CONCENTRATION LEVELS (H702723-03)

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	10/10/2017	ND	224	112	200	3.60	
DRO >C10-C28	<10.0	10.0	10/10/2017	ND	230	115	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	10/10/2017	ND					
Surrogate: 1-Chlorooctane	63.1 9	% 28.3-16	4	n ann ann an Arraigh a gu an Arraigh an Ann an Ann ann an Ann ann an Ann ann a	i yayan ya di Ganadalin (di budi dadhan				
Surrogate: 1-Chlorooctadecane	59.5	% 34.7-15	7						

Sample ID: #9 - TPH CONCENTRATION LEVELS (H702723-04)

TPH 8015M	mg/l	cg	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	10/10/2017	ND	224	112	200	3.60	
DRO >C10-C28	<10.0	10.0	10/10/2017	ND	230	115	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	10/10/2017	ND					
Surrogate: I-Chlorooctane	66.4 %	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	61.4%	6 34.7-15	7						

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Celeg D. Keine



FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135 Fax To: (575) 676-2401

Received:	10/10/2017	Sampling Date:	10/10/2017
Reported:	10/11/2017	Sampling Type:	Soil
Project Name:	RHOMBUS	Sampling Condition:	Cool & Intact
Project Number:	REMEDIATION PROJECT/ TPH CONC.	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: #X - TPH CONCENTRATION LEVELS (H702723-05)

TPH 8015M	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/10/2017	ND	224	112	200	3.60	
DRO >C10-C28	<10.0	10.0	10/10/2017	ND	230	115	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	10/10/2017	ND					
Surrogate: 1-Chlorooctane	55.6 9	% 28.3-16	4	dan da Millio Angelan da Anto - 2015 men					
Surrogate: 1-Chlorooctadecane	55.9 9	% 34.7-15	7						

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Celez D. Freene -



Notes and Definitions

 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 SM4500CI-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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*=Accredited Analyte

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Cellery D. Keene



lugh

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

mpany Name: Frontier Field Services (Alke Enryy)	BILL TO	ANALYSIS REQUEST					
ject Manager:	P.O. #:						
dress: 1001 Canaco Rd.	Company:						
1: Moljamer State: Non Zip: 58260	Attn:						
one #: 575 5134922 Fax #:	Address:						
ject #: Project Owner:	City:						
ject Name: JPH Consection	State: Zip:						
ject Location: Rhom bus Remodiation Project	Phone #:						
npler Name: Har in Ever hert	Fax #:						
R LAB UNE CALLY MATRIX	PRESERV. SAMPLING						
MD R							
(C)C ERS							
ab I.D. Sample I.D. BUNNELLEN	ASE ASE						
ap I.D. Samble I.D. (G)RAB OR (C)OMI # CONTAINERS GROUNDWATER Soll OIL	SLUDGE OTHER ACIDIBASE ICE / COOL ICE / COOL						
1 #4 - SPAt Concentration Levels V -	10.16 11:05						
2348-11 1 1	10.10 11:12						
208-	+ 10-10 11.38						
5	1 10:10 12.27						
3. • X-	16.16 11:40						
SE NOTE, Cattery in Carnager, Carlanaf, Eabling and climits ex buose terming fin any claim anung whether tass on non- All them including those for negligence and any other many whatsoever shall be deemed waved unless made in writing		ble					
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inquished By: Date: Received By:	Phone Result: Fax Result:	□ Yes □ No Add'I Phone #: □ Yes □ No Add'I Fax #:					
Tinges 210 /Dai	AOIA AO DEMARKO.						
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npler - UPS - Bus - Other: 2.6, 2.5% Pres P	les M						

Page 6 of 6



October 11, 2017

HARLEY EVERHART FRONTIER FIELD SERVICES 4200 SKELLY DRIVE, SUITE 700 TULSA, OK 74135

RE: RHOMBUS

Enclosed are the results of analyses for samples received by the laboratory on 10/10/17 13:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceg.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceg.texas.gov/field/ga/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.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135 Fax To: (575) 676-2401

Received:	10/10/2017	Sampling Date:	10/10/2017
Reported:	10/11/2017	Sampling Type:	Soil
Project Name:	RHOMBUS	Sampling Condition:	Cool & Intact
Project Number:	AUGERED SAMPLES (CHLORIDES)	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: #1 (AUGARED CHLORIDE SAMPLE) (H702724-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/11/2017	ND	432	108	400	3.64	

Sample ID: #5 (AUGARED CHLORIDE SAMPLE) (H702724-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/11/2017	ND	432	108	400	3.64	

Sample ID: #10 (AUGARED CHLORIDE SAMPLE) (H702724-03)

Chloride, SM4500CI-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/11/2017	ND	432	108	400	3.64	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim antsing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by client (30) days after completion of the applicable service. In no event shall clandinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the atome stated reasons or otherwise. Results related to the samples that in atoms provided classifies.

Cellery D. Keene



Notes and Definitions

1

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 SM4500CI-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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*=Accredited Analyte

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Celeg D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

company Name: Frontson Field Scouces (Aka Surgy	BILL TO	ANALYSIS REQUEST
Project Manager:	P.O. #:	
Address: 1001 Congeo Rol.	Company:	
City: Malyemer State: Non Zip: 88365	Attn:	
Phone #: 575513152 Fax #:	Address:	
Project #: Project Owner:	City:	
Project Name: Ano proof Som plas (Obdervides)	State: Zip:	
Project Name: Augorocal Sample's (Obderrides) Project Location: Rhomburg Remodio tion	Phone #:	
sampler Name: Hay len Every hand	Fax #:	
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	3
S S OW		
Tap I'D' * CONTAINERS GROUNDWATER Soll OIL	2 2	
	CIOT R COO	
4702725 #1 (Amar & Chloride Sorpe) 100 - # 10	SLUDGE OTHER ACIOBASE ICE / COOL	
HILD WILLIAM I Small I	10.10. 05:00	
24510 0 0 0) /	- 10.10 69:20	
3 #10 (* * *) / ~	V 10.10 09:45	
EASE NOTE: Liabity, this Liamages. Cardwolf's tability and clent's vertiliarie removity to any claim school which is based in orthogo AB claims, including the magingence and any claim school of the based waved unless made in writing		cable
vice In no event shall Cardinel be leable for incidental in consequential damages inducting without limitation, business interruptio Hatel, in sufficences ansing out of or related to the performance of tervicet hereinductry Condical regardless of whether solt da	na, loss interes, or loss inforolits incurred by client, its subsidiaries	
elinquished By: Date: Received By: 10:16:17	Phone Result: Fax Result:	Yes No Add'l Phone #: Yes No Add'l Fax #:
elinguished By: Un Date: Received By:	REMARKS:	Reverbert & ake every - com
Time:		
	Ition CHECKED BY:	heverhart & alle energy - come
ampler - UPS - Bus - Other: #752.62/2.852 Sample Cond No	(laitias)	

Cardinal cannot accept verbal changes. Please fax written changes to (575)[893-3726, 25 2

Page 4 of 4



October 12, 2017

HARLEY EVERHART FRONTIER FIELD SERVICES 4200 SKELLY DRIVE, SUITE 700 TULSA, OK 74135

RE: RHOMBUS

Enclosed are the results of analyses for samples received by the laboratory on 10/10/17 13:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred 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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135 Fax To: (575) 676-2401

Received:	10/10/2017	Sampling Date:	10/10/2017
Reported:	10/12/2017	Sampling Type:	Soil
Project Name:	RHOMBUS	Sampling Condition:	Cool & Intact
Project Number:	E. OF THE RELEASE LOCATION	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: EAST OF LEAK LOCATION (H702725-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/11/2017	ND	1.97	98.4	2.00	0.444	
Toluene*	<0.050	0.050	10/11/2017	ND	1.78	89.1	2.00	0.693	
Ethylbenzene*	<0.050	0.050	10/11/2017	ND	1.83	91.5	2.00	0.604	
Total Xylenes*	<0.150	0.150	10/11/2017	ND	5.63	93.8	6.00	0.116	
Total BTEX	<0.300	0.300	10/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	% 72-148			Contraction and and				
Chioride, SM4500CI-B	mg/	lcg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	32.0	16.0	10/11/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	lkg	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	10/10/2017	ND	224	112	200	3.60	
DRO >C10-C28	<10.0	10.0	10/10/2017	ND	230	115	200	8.94	
EXT DRO >C28-C36	<10.0	10.0	10/10/2017	ND					
Surrogate: 1-Chlorooctane	77.4	% 28.3-16	4			na an an an an an Anna			60 (81)
Surrogate: 1-Chlorooctadecane	81.1	% 34.7-15	7						

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*=Accredited Analyte

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Celez D. Keene-



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 SM4500CI-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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Celez D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ompany Name: Frontier Field Service (Ata Every)		BILL TO	ANALYSIS REQUEST				
Project Manager:		P.O. #:					
address: 1001 Canaca Zel		Company:					
	n Zip: 58 280	Attn:					
State: State: Addition Phone #: \$75\$ \$134 \$22 Fax #:		Address:					
Project #: Project Ow	ner:	City: 044					
Project Name: East of The Release		State: Zip;					
roject Location: Rhome base Remain	Han Bruch	Phone #:					
roject Location: Rhem bas Remaind.	in it it it is a second	Fax #:					
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING					
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER OTHER CLOCE COOL OTHER DATE TWE	TP H & TE K Lh le de a				
1 East of Look horstian	1 -	+ 10.10 10:00	XXXX				
	be deemed welved unless in the low whiling a ding willhout firmitation. In the interruption y Caude all regardless. I whether such the	and received by Cardinal within 30 days after completion of 8 to loss of incurred by client, its sub-	8 mappicable annot				
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October 18, 2017

HARLEY EVERHART FRONTIER FIELD SERVICES 4200 SKELLY DRIVE, SUITE 700 TULSA, OK 74135

RE: RHOMBUS

Enclosed are the results of analyses for samples received by the laboratory on 10/12/17 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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.tceg.texas.gov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceg.texas.gov/field/ga/lab accred 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.

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

Celey D. Keene Lab Director/Quality Manager

Page 1 of 6



FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135 Fax To: (575) 676-2401

Received:	10/12/2017	Sampling Date:	10/12/2017
Reported:	10/18/2017	Sampling Type:	Soil
Project Name:	RHOMBUS	Sampling Condition:	Cool & Intact
Project Number:	TPH CONCENTRATION 2FT AUGER HOLE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: #4 - TPH CONCENTRATION AUGER HOLES (H702761-01)

TPH 8015M	mg/l	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	10/13/2017	ND	216	108	200	4.83	
DRO >C10-C28	<10.0	10.0	10/13/2017	ND	229	114	200	8.00	
EXT DRO >C28-C36	<10.0	10.0	10/13/2017	ND					
Surrogate: 1-Chlorooctane	74.8 %	6 28.3-16	4	n an	n - n - Addar Berlandt Annon A. Adapt				
Surrogate: 1-Chlorooctadecane	76.1 %	6 34.7-15	7						

Sample ID: #7 - TPH CONCENTRATION AUGER HOLES (H702761-02)

TPH 8015M	mg/l	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	10/13/2017	ND	216	108	200	4.83	
DRO >C10-C28	<10.0	10.0	10/13/2017	ND	229	114	200	8.00	
EXT DR0 >C28-C36	<10.0	10.0	10/13/2017	ND					
Surrogate: 1-Chlorooctane	70.1 %	6 28.3-16	4						
Surrogate: 1-Chlorooctadecane	65.9 %	34.7-15	7						

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FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135 Fax To: (575) 676-2401

Received:	10/12/2017	Sampling Date:	10/12/2017
Reported:	10/18/2017	Sampling Type:	Soil
Project Name:	RHOMBUS	Sampling Condition:	Cool & Intact
Project Number:	TPH CONCENTRATION 2FT AUGER HOLE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: #8 - TPH CONCENTRATION AUGER HOLES (H702761-03)

TPH 8015M	mg/	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	10/13/2017	ND	216	108	200	4.83	
DRO >C10-C28	<10.0	10.0	10/13/2017	ND	229	114	200	8.00	
EXT DRO >C28-C36	<10.0	10.0	10/13/2017	ND					
Surrogate: 1-Chlorooctane	68.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	70.0	% 34.7-15	7						

Sample ID: #9 - TPH CONCENTRATION AUGER HOLES (H702761-04)

TPH 8015M	mg/	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	10/13/2017	ND	216	108	200	4.83	
DRO >C10-C28	<10.0	10.0	10/13/2017	ND	229	114	200	8.00	
EXT DRO >C28-C36	<10.0	10.0	10/13/2017	ND					
Surrogate: 1-Chlorooctane	63.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	62.8	% 34.7-15	7						

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Celey D. Keine



FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135 Fax To: (575) 676-2401

Received:	10/12/2017	Sampling Date:	10/12/2017
Reported:	10/18/2017	Sampling Type:	Soil
Project Name:	RHOMBUS	Sampling Condition:	Cool & Intact
Project Number:	TPH CONCENTRATION 2FT AUGER HOLE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: #36 - TPH CONCENTRATION AUGER HOLES (H702761-05)

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	10/16/2017	ND	192	96.2	200	3.71	
DRO >C10-C28	<10.0	10.0	10/16/2017	ND	213	107	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	10/16/2017	ND					
Surrogate: 1-Chlorooctane	68.3	% 28.3-16	4	a anti differ fantas - sen e per alta differi y surge para da sida differen y surge		4.9 - Martin A. 1999 - Anna Anna Anna Anna Anna Anna Anna An	ind of an and the state of a second secon		
Surrogate: 1-Chlorooctadecane	74.4	% 34.7-15	7						

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Celey D. Keine



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.
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 SM4500CI-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

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Celez D. Kune-



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Frontier Field Services (Alta Enery)	BILL TO	ANALYSIS REQUEST
Project Manager:	P.O. #:	
Address: 1001 Compose Rd.	Company:	
City: Molganear State: NM Zip: 88260	Attn:	
Phone #: 535 513 492 2 Fax #:	Address:	
Project #: Project Owner:	City: 92	
Project Name: TPH Concentration 2' Huger bakes	State: Zip:	
Project Location: Rhembes Remaind Arm Project	Phone #:	
Sampler Name: Herb Enchart	Fax #:	
FOR LABILIS OF STATEMENT	PRESERV. SAMPLING	
MP 2		
Paradities Paradities Paradities Paradities # CONTAINERS GROUNDWATER wastewater Solu Solu OIL		
Lab I.D. Sample I.D.	3ASE 2001	
HILL CONTAINT (G)RAB O OIL	OTHER ACIDIBASE	
H702761		
1 4 - IPH Consortable Hayes both	10.12 7.45	
2 40. 4 4 4 4	1 10 7150 /	
V 49	8,00 -	
5 410	1 10 12 812 6	
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Their seasons are equal to be related to the performance of vervices interacted by Lacked, reparates of whether such class. Relinguished By: Date: Received By:		C Yes D No Add'l Phone #:
A DIZA	Fax Result:	□ Yes □ No Add'i Fax #:
then his Time: autora	REMARKS:	Rood Its
Relinquished By: Date: Received By:	2 mail	poor and
Time:	bear	hord @ akaonengy . cum
Delivered By: (Circle One) 2.52 Sample Conditi Cool Intact	on oneonebbr.	/(
Sampler - UPS - Bus - Other: Corrected 2. 75° Sys	(Initials)	

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Attachment C – Photo Log









