Basin Environmental Service Technologies, LLC

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Lovington, New Mexico 88260
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ćž Effective Solutions

REMEDIATION SUMMARY &

SITE CLOSURE REQUEST

BOPCO, LP POKER LAKE UNIT CRUDE OIL GATHERING SYSTEM Eddy County, New Mexico Unit Letter "M" (SW/SW), Section 29, Township 24 South, Range 30 East Latitude 32.181606° North, Longitude 103.909504° West NMOCD Reference #: 2RP-2102

Prepared For:

BOPCO, LP 522 W. Mermod, Suite 704 Carlsbad, New Mexico 88220

Prepared By: Basin Environmental Service Technologies, LLC 3100 Plains Highway Lovington, New Mexico 88260

February 2014

RECEIVED MAY 2 0 2014

NMOCD ARTESIA

Ben J. Arguijo Project Manager

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1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin Environmental), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary & Site Closure Request* for the release site known as Poker Lake Unit (PLU) Crude Oil Gathering System. The legal description of the release site is Unit Letter "M" (SW/SW), Section 29, Township 24 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.181606° North latitude and 103.909504° West longitude. The property affected by the release is owned by the United States Department of the Interior - Bureau of Land Management (BLM). Please reference Figure 1 for a "Site Location Map".

On December 6, 2013, BOPCO discovered a release had occurred on the PLU Crude Oil Gathering System. A six-inch (6") gathering line was struck and ruptured by a track-hoe during excavation of an adjacent pipeline, resulting in a release of crude oil. During initial response activities, vacuum trucks were dispatched to the location, Lease Automatic Custody Transfer (LACT) units were shut down, and the damaged section of pipe was isolated. The track-hoe was utilized to excavate the impacted area, and a temporary repair clamp was employed to mitigate the release. The damaged section of pipe was replaced the following day.

The release was immediately reported to the New Mexico Oil Conservation Division (NMOCD) Artesia District Office. The "Release Notification and Corrective Action" (Form C-141) indicated approximately two hundred and seventy barrels (270 bbls) of crude oil were released, and approximately two hundred and twenty barrels (220 bbls) were recovered and placed back into production facilities at the nearby PLU #213 and PLU #227 locations. The release was contained within the excavation, which was located in the middle of a lease road, and measured approximately thirty feet (30') in length, ten feet (10') in width, and approximately six feet (6') in depth.

The Form C-141 is provided as Appendix A. General photographs of the release site are provided as Appendix B.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for Section 29, Township 24 South, Range 30 East. A depth-to-groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately two hundred and seventy-five feet (275') to two hundred and eighty feet (280') below ground surface (bgs). Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

A search of the NMWRRS database indicated there are no water wells within one thousand feet (1,000') of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

There are no surface water bodies within one thousand feet (1,000') of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

NMOCD guidelines indicate the PLU Crude Oil Gathering System release site has an initial ranking score of zero (0) points. The soil remediation levels for a site with a ranking score of zero (0) points are as follows:

- Benzene -10 mg/Kg (ppm)
- Benzene, ethylbenzene, toluene, and xylenes (BTEX) 50 mg/Kg (ppm)
- Total petroleum hydrocarbons (TPH) 5,000 mg/Kg (ppm)

The New Mexico Administrative Code (NMAC) does not currently specify a remediation level for chloride concentrations in soil. Chloride remediation levels are set by the NMOCD on a site-specific basis.

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On December 17, 2013, one (1) soil sample (Release Point 16') was collected from the floor of the excavation at the release point. The soil sample was submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of BTEX, TPH, and chloride concentrations in accordance with Environmental Protection Agency (EPA) methods SW-846 8021b, SW-846 8015M, and 4500 Cl-B, respectively. Laboratory analytical results indicated BTEX constituent concentrations were less than the appropriate laboratory method detection limit (MDL), the TPH concentration was 49.5 mg/kg, and the chloride concentration was 192 mg/kg. Table 1 summarizes the "Concentrations of Benzene, BTEX, TPH & Chloride in Soil". A "Site & Sample Location Map" is provided as Figure 2. Laboratory analytical reports are provided as Appendix C.

On December 18, 2013, seven (7) soil samples (E Section - N Wall, E Section - E Wall, E Section - S Wall, E Section - Floor, W Section - N Wall, W Section - W Wall, and W Section - S Wall) were collected from the floor and sidewalls of the excavation and submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH concentrations ranged from less than the laboratory MDL in soil samples E Section - N Wall, E Section - S Wall, W Section - N Wall, W Section - W Wall, and W Section - S Wall to 1,447 mg/kg in soil sample E Section - Floor. Chloride concentrations ranged from 80.0 mg/kg in soil samples W Section - N Wall and W Section - S Wall to 272 mg/kg in soil samples E Section - N Wall, E Section - E Wall, and E Section - S Wall.

A composite sample (Stockpile) was also collected from the stockpiled soil and submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated the TPH concentration in soil sample Stockpile was 5,810 mg/kg, and the chloride concentration was 320 mg/kg.

On December 23, 2013, one (1) composite sample (12/23 Stockpile) was collected from the stockpiled soil and submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated the TPH concentration in soil sample 12/23 Stockpile was 25,030 mg/kg, and the chloride concentration was 336 mg/kg.

Soil represented by soil sample 12/23 Stockpile was left undisturbed for several days to facilitate bioremediation.

On January 10, 2014, approximately one hundred and forty cubic yards (140 yd³) of the stockpiled soil was transported to Lea Land, Inc. (NMOCD Permit # WM-01-035), for disposal. The remaining stockpiled soil was blended on-site with non-impacted soil.

On January 13, 2014, one (1) composite sample (1/13 Stockpile) was collected from the blended soil and submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. Laboratory analytical results indicated the benzene concentration in soil sample 1/13 Stockpile was less than the laboratory MDL, and the total BTEX concentration was 35.2 mg/kg. The TPH concentration was 4,188 mg/kg, and the chloride concentration was 400 mg/kg. Soil represented by soil sample 1/13 Stockpile was deemed suitable for use as backfill material.

From January 27 through January 28, 2014, the excavation was backfilled, compacted, and contoured to fit the surrounding topography. The final dimensions of the excavation were approximately ninety feet (90') in length, varying in width from approximately ten feet (10') to approximately twenty feet (20'), and varying in depth from approximately eight feet (8') to approximately sixteen feet (16') bgs.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to Cardinal Laboratories in Hobbs, New Mexico, for BTEX, TPH, and/or chloride analyses using the methods described below:

- BTEX concentrations in accordance with EPA Method SW-846 8021b
- TPH concentrations in accordance with EPA Method SW-846 8015M
- Chloride concentrations in accordance with EPA Methods 4500 Cl-B

4.2 Decontamination of Equipment

Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

4.3 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form(s). These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

5.0 SITE CLOSURE REQUEST

Remediation activities conducted at the PLU Crude Oil Gathering System release site met the objectives set forth in the *Remediation Summary & Risk-Based Site Closure Proposal* dated December 2013. Soil samples collected from the floor and sidewalls of the excavation were analyzed by an NMOCD-approved laboratory, and concentrations of benzene, BTEX, TPH, and

chloride were below the regulatory remediation action levels established for the site by the NMOCD. Basin Environmental recommends BOPCO provide the NMOCD Artesia District Office and the BLM a copy of this *Remediation Summary & Site Closure Request* and request the NMOCD grant site closure to the PLU Crude Oil Gathering System release site.

6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin Environmental has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin Environmental has not conducted an independent examination of the facts contained in referenced materials and statements. Basin Environmental has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin Environmental has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

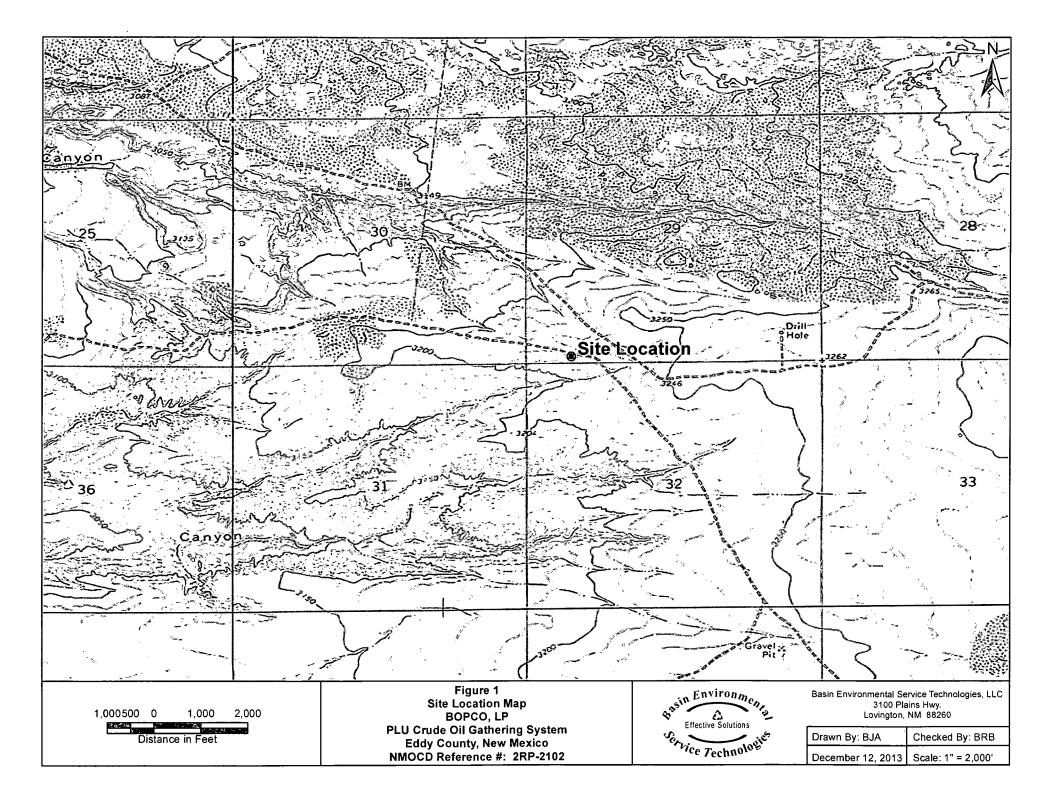
This report has been prepared for the benefit of BOPCO, LP. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and/or BOPCO, LP.

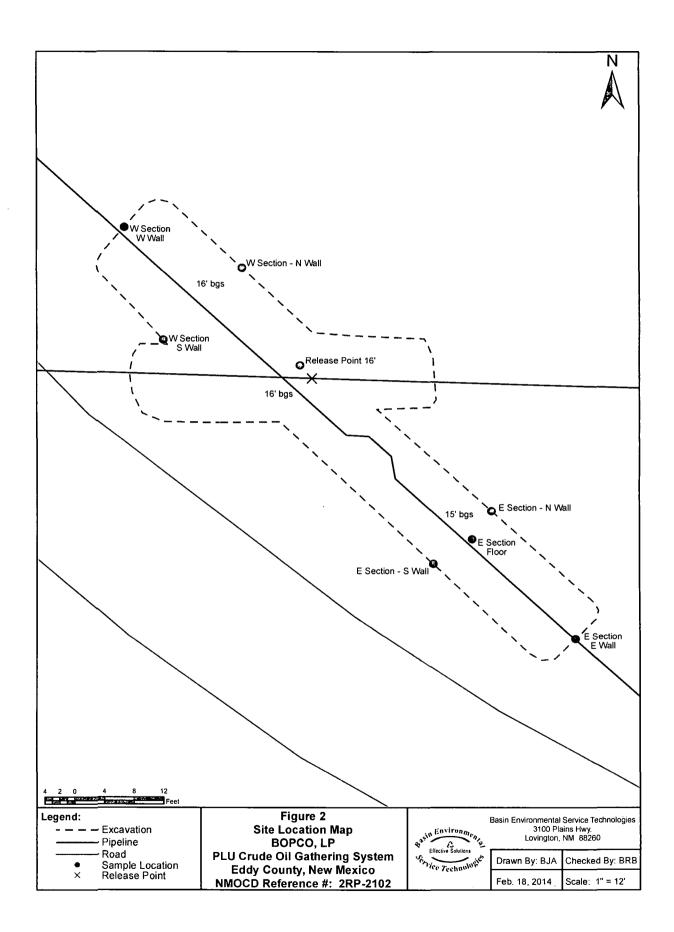
7.0 DISTRIBUTION:

Copy 1:	Mike Bratcher New Mexico Energy, Minerals and Natural Resources Department
	Oil Conservation Division (District 2)
	1301 E. Grand Avenue
	Artesia, NM 88210
Copy 2:	James Amos
	United States Department of the Interior
	Bureau of Land Management
	620 East Greene Street
	P.O. Box 1778
	Carlsbad, New Mexico 87220
Copy 3:	Tony Savoie
	BOPCO, LP
	522 W. Mermod, Suite 704
	Carlsbad, NM 88220
Copy 4:	Basin Environmental Service Technologies, LLC
	P.O. Box 301
	Lovington, NM 88260

Figures

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Tables

TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

BOPCO, LP POKER LAKE UNIT CRUDE OIL GATHERING SYSTEM EDDY COUNTY, NEW MEXICO NMOCD REFERENCE #: 2RP-2102

					METHOD: EF	PA SW 846-80	21B, 5030		ME	THOD: 801	5M	TOTAL	4500 CI-B
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
Release Point 16'	16'	12/17/2013	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.150	<10.0	49.5	<10.0	49.5	192
E Section - N Wall	14'	12/18/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	272
E Section - E Wall	14'	12/18/2013	In-Situ	-	-	-	-	-	<10.0	207	33.4	240	272
E Section - S Wall	14'	12/18/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	272
E Section - Floor	15'	12/18/2013	In-Situ	-	-	-	-	-	279	1,240	207	1,447	240
W Section - N Wall	14'	12/18/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	80.0
W Section - W Wall	14'	12/18/2013	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	160
W Section - S Wall	14'	12/18/2013	In-Situ	-	-	-	+	-	<10.0	<10.0	<10.0	<10.0	80.0
Stockpile	N/A	12/18/2013	Stockpiled	•	-	-	-	-	1,350	5,010	800	5,810	320
12/23 Stockpile	N/A	12/23/2013	Stockpiled		-	-	-	-	2,290	19,200	3,540	25,030	336
1/13 Stockpile	N/A	1/13/2014	Stockpiled	<0.500	3.89	8.31	23.0	35.2	712	2,960	516	4,188	400
NMOCD Regulatory Standard				10				50				5,000	1,000

- = Not analyzed.

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Appendices

Appendix A Release Notification & Corrective Action (Form C-141)

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State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

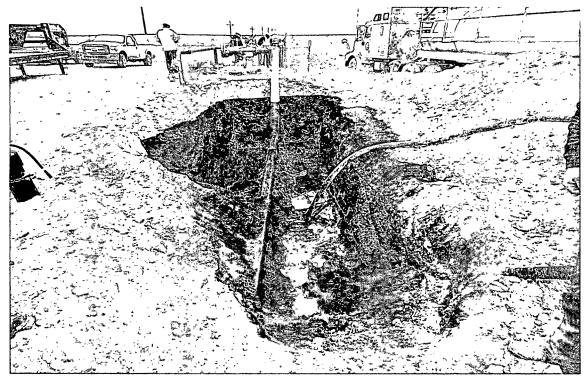
Form C-141 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

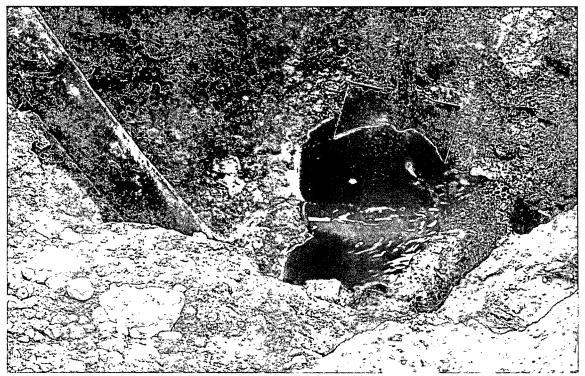
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NML	13343	339872				OPERA	ΓOR		🛛 Initi	al Report		Final Re	port
		OPCO, L.P.		0737		Contact: To							
			_	oad, N.M. 88220		Telephone No. 575-887-7329							
				Gathering Syste Tank Battery	m.	Facility Typ	e: Exploration a	and Pro	duction			<u> </u>	
Surface Ow	ner: Feder	al		Mineral C	wner:	Federal			API No	. 30-015-3	3929		
				LOCA	IOIT	N OF REI	LEASE						
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	1	Vest Line	County			
М	29	24S	30E	118	Sou	th	836	We	st	Eddy			
			·	Latitude <u>N 32.</u>	181606	Longitude	e W 103.909504	<u>.</u>		·			
	Latitude <u>N 32.181606</u> Longitude <u>W 103.909504</u> NATURE OF RELEASE												
Type of Rela							Release: 270 bbl	s.		Recovered:		-	
Source of Re	lease: 6" Pi	peline					lour of Occurrenc	e:		Hour of Dis	-		
Was Immedi	nta Nation (Siven?			<u>-</u> .	12/6/13 at			12/6/13 a	t 12:15 p.m		. = .	
was minedi	ate motice (Yes [] No 🗌 Not Re	equired		Emergency #104 a	and the I	BLM				
By Whom?	Tony Savoi	e					lour: 12/6/13 NM			. BLM 12:3	0 p.m.		
Was a Water	course Read	ched?	Yes.			If YES, Vo	olume Impacting	the Wate	ercourse.				
If a Waterco	urse was Im	pacted, Descr							——[]	RECE		ED7	
	uise was mi	pacieu, Deser	for runy.	i					Ì				
				Γ.						DEC 0	9 20	13	
									N	MOCD	ABT	FSIA	
Vacuum true excavated th damaged see Describe Ar	eks were im e damaged a etion of pipe ea Affected	mediately disp area and a terr and Cleanup	patched to aporary re Action Ta		lact uni ed to sto	ts were shut op the flow of	lown and the dam oil. The line was	aged se perman	ction of pi ently repai	be was isola red on 12/7	ted. The 13 by r	e track-hoe eplacing th	he
depth. Appr	oximately 22	20 bbls of cru	de oil was	which was in the magnetic recovered from the ance to the NMOC	ne excav	ation and pla	ced back into the	product					
regulations a public health should their or the enviro	Il operators or the envi operations honment. In a	are required t ronment. The nave failed to	o report a cocceptan adequatel OCD acce	e is true and comp nd/or file certain r ce of a C-141 repo y investigate and r ptance of a C-141	elease n ort by th emediat	otifications a e NMOCD m e contaminat	nd perform correct narked as "Final R ion that pose a th	ctive act teport" c reat to g	ions for re loes not re round wate	leases which lieve the ope er, surface w	n may e crator o cater, hu	ndanger f liability ıman healt	:h
		7 -					OIL CON	SERV	ATION	DIVISI	<u>ON</u>		
Signature: <	Iou	Daue	ça										
Printed Nam	e: Tony Sav	J voie				Approved by	Environmental S	Specialis	₩ By_	1.14 B.	CATU	Lor	-
		nt and Remed	iation Spe	ecialist		Approval Da	DEC 0920	13	Expiration	Date:			
E-mail Add	ess: tasavoi	e@basspet.co	<u>m</u>			Conditions o	f Approval:			Attache	чП		
Date: 12/9/	13			Phone: 432-556-8	3730	Kemediatic	n per OCD Rule I by BLM. <u>SUBM</u>		lelines, &				
* Attach Add		ets If Necess	sary	<u></u>		- PRC	POSAL NO LATE	<u>ER THAI</u> 2 <i>01</i> 3	<u>V:</u>	2RF	- 21	02	
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Appendix B Photographs



PLU Crude Oil Gathering System - Release Site



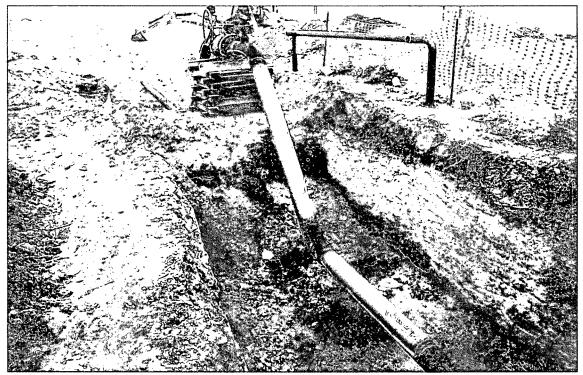
PLU Crude Oil Gathering System - Release Point



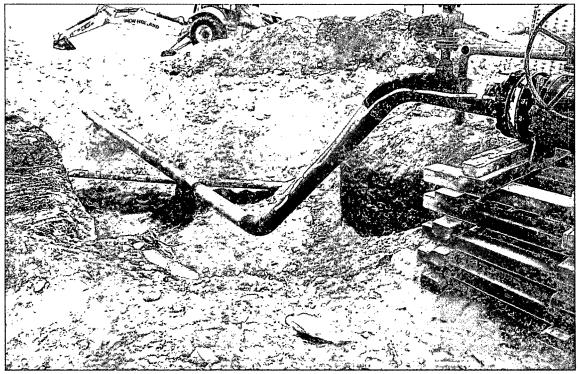
PLU Crude Oil Gathering System – Damaged Pipeline



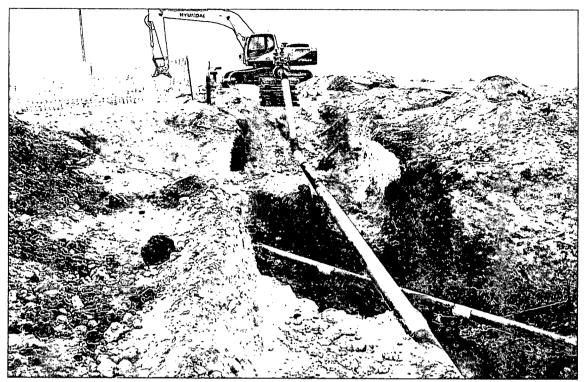
PLU Crude Oil Gathering System - Excavation



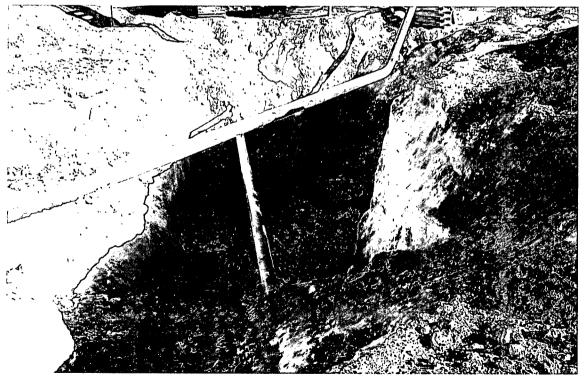
PLU Crude Oil Gathering System - Excavation



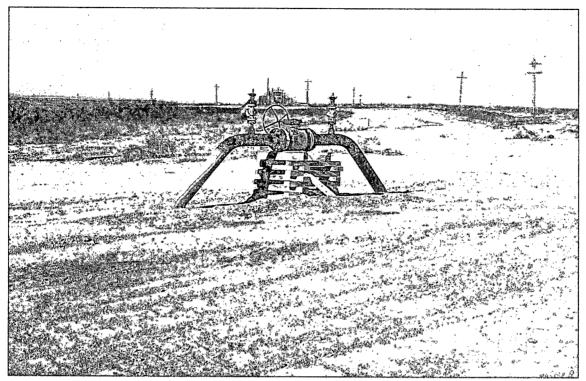
PLU Crude Oil Gathering System - Excavation



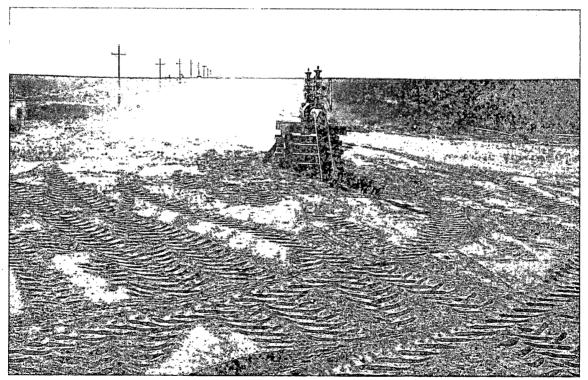
PLU Crude Oil Gathering System - Excavation



PLU Crude Oil Gathering System - Excavation



PLU Crude Oil Gathering System - Excavation (Following Backfill)



PLU Crude Oil Gathering System – Excavation (Following Backfill)

Appendix C

Laboratory Analytical Reports

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December 26, 2013

BEN J. ARGUIJO Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: PLU CRUDE OIL GATHERING SYSTEM

Enclosed are the results of analyses for samples received by the laboratory on 12/18/13 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceg.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceg.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceg.texas.gov/field/qa/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,

Celez D. Kune

Celey D. Keene Lab Director/Quality Manager



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	12/18/2013	Sampling Date:	12/17/2013
Reported:	12/26/2013	Sampling Type:	Soil
Project Name:	PLU CRUDE OIL GATHERING SYSTEM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY, NM		
· · · · · · · · · · · · · · · · · · ·			

Sample ID: RELEASE POINT @ 16' (H303059-01)

BTEX 8021B mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier % Recovery Benzene* < 0.050 0.050 12/26/2013 ND 1.70 84.9 2.00 1.99 Toluene* < 0.050 0.050 12/26/2013 2.00 ND 1.69 84.6 1.61 Ethylbenzene* <0.050 0.050 12/26/2013 2.00 0.763 ND 1.67 83.6 Total Xylenes* < 0.150 0.150 12/26/2013 ND 4.87 81.1 6.00 0.841 Total BTEX < 0.300 0.300 12/26/2013 ND

Surrogate: 4-Bromofluorobenzene (PIL 101 % 89.4-126

Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/23/2013	ND	ND 400		400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Апаlyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/23/2013	ND	191	95.3	200	5.17	
DRO >C10-C28	49.5	10.0	12/23/2013	ND	191	95.6	200	8.25	
EXT DRO >C28-C35	<10.0	10.0	12/23/2013	ND					
Surrogate: 1-Chlorooctane		% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	100	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, 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 whotscover shall be deemed waived unless made in writing and received by claimal, within (30) days after completion of the applicable service. In no event shall Cardinal 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This reproduced except in full with writem approval of Cardinal Laborations.

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's lability and client's exclusive remedy for any claim arising, 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 whitscever shall be deemed waved unless made in writing and received by claims, including those for angligence and induction, without limitation, business interruptions, loss of use, or loss of profits includent, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidential or consequential damages, including out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based to be used to be services. Results relate only to the sample's identified above. This reproduced except in full with written approval of cardinal laboratories.

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

8

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

Company Name: Basin Environmental Service Technologies, LLC										B	IL	L TO					ANA	LYSI	S RE	QUE	ST		
Project Manager	: Ben Arguijo							P.O. #:															
Address: P.O.	Address: P.O. Box 301							Company: New Mexico Rental											Ì				
City: Lovington	City: Lovington State: NM Zip: 88260							Att	n:			Dale Bett	is										
Phone #: (575)396-2378 Fax #: (575)39	6-14	29					Ad	dres	s:		P.O. Box	669										
Project #:	Project Owner	:	BC	PC	D, LF	>		Cit	v:			Eunice	9,90 ¹ 7,000,000,000,000,000,000,000,000,000,0			_							
Project Name:	PLU Crude Oil Gathering System	******								NM			88231	0	(WS	(8021B)							
Project Location	: Eddy Co., NM								one			(575)394-		Chloride	TPH (8015M)	802							
Sampler Name:	Ben Arguijo							Fax				(0.0)004		2 Plo	3) H) X	,						
FOR LAB USE ONLY					MA	TRIX				SERV	1	SAMPLI	NG		ТР	втех							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL OTHER :		DATE	TIME										
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	12/18/13	Fax Result: 🛛 Yes 🗆 No' Add'I Fax #:								
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Revision 1.0	+ Cardinal cannot accent verbal changes P	Please fax written changes to 575-393-2476								
	434									



December 26, 2013

BEN J. ARGUIJO Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: PLU CRUDE OIL GATHERING SYSTEM

Enclosed are the results of analyses for samples received by the laboratory on 12/19/13 8:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 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.

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. Kune

Celey D. Keene Lab Director/Quality Manager



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	12/19/2013	Sampling Date:	12/18/2013
Reported:	12/26/2013	Sampling Type:	Soil
Project Name:	PLU CRUDE OIL GATHERING SYSTEM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: E SECTION - N WALL (H303077-01)

Chloride, SM4500Cl-B mg/kg Analyzed By: CK Analyte Result Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier % Recovery Chloride 272 16.0 12/26/2013 ND 416 104 400 0.00 **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 12/23/2013 ND 194 97.2 200 14.5 DRO >C10-C28 <10.0 10.0 12/23/2013 ND 201 200 101 16.4 EXT DRO >C28-C35 <10.0 10.0 12/23/2013 ND Surrogate: 1-Chlorooctane 85.8 % 65.2-140 Surrogate: 1-Chlorooctadecane 82.9 % 63.6-154

Sample ID: E SECTION - E WALL (H303077-02)

Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/26/2013	ND	416	104	400	0.00	
TPH 8015M	mg/l	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	12/23/2013	ND	194	97.2	200	14.5	
DRO >C10-C28	207	10.0	12/23/2013	ND	201	101	200	16.4	
EXT DRO >C28-C35	XT DRO >C28-C35 33.4		12/23/2013	ND					
Surrogate: 1-Chlorooctane	82.6%	65.2-14	0						
Surrogate: 1-Chlorooctadecane	82.0%	63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	12/19/2013	Sampling Date:	12/18/2013
Reported:	12/26/2013	Sampling Type:	Soil
Project Name:	PLU CRUDE OIL GATHERING SYSTEM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: E SECTION - S WALL (H303077-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/26/2013	ND	416	104	400	0.00	
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	12/23/2013	ND	194	97.2	200	14.5	
DRO >C10-C28	<10.0	10.0	12/23/2013	ND	201	101	200	16.4	
EXT DRO >C28-C35	<10.0	10.0	12/23/2013	ND					
Surrogate: 1-Chlorooctane	84.9 % 65.2-14		0		•	-			
Surrogate: 1-Chlorooctadecane	83.4 % 63.6-154		4						

Sample ID: E SECTION - FLOOR (H303077-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240 16.0		12/26/2013	ND	416	104	400	0.00	
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	279	10.0	12/24/2013	ND	194	97.2	200	14.5	
DRO >C10-C28	1240	10.0	12/24/2013	ND	201	101	200	16.4	
EXT DRO >C28-C35	207	10.0	12/24/2013	ND					
Surrogate: 1-Chlorooctane	106	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	95.7	95.7 % 63.6-154							

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	12/19/2013	Sampling Date:	12/18/2013
Reported:	12/26/2013	Sampling Type:	Soil
Project Name:	PLU CRUDE OIL GATHERING SYSTEM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: W SECTION - N WALL (H303077-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/26/2013	ND	416	104	400	0.00	
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	12/24/2013	ND	194	97.2	200	14.5	
DRO >C10-C28	<10.0	10.0	12/24/2013	ND	201	101	200	16.4	
EXT DRO >C28-C35	<10.0	10.0	12/24/2013	ND					
Surrogate: 1-Chlorooctane	84.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	80.0	% 63.6-15	4						

Sample ID: W SECTION - W WALL (H303077-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/26/2013	ND	416	104	400	0.00	
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	12/24/2013	ND	194	97.2	200	14.5	
DRO >C10-C28	<10.0	10.0	12/24/2013	ND	201	101	200	16.4	
EXT DRO >C28-C35	<10.0	10.0	12/24/2013	ND					
Surrogate: 1-Chlorooctane	89.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	84. I	% 63.6-15	63.6-154						

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Celey Di Kune

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	12/19/2013	Sampling Date:	12/18/2013
Reported:	12/26/2013	Sampling Type:	Soil
Project Name:	PLU CRUDE OIL GATHERING SYSTEM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: W SECTION - S WALL (H303077-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/26/2013	ND	416	104	400	0.00	
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	12/24/2013	ND	194	97.2	200	14.5	
DRO >C10-C28	<10.0	10.0	12/24/2013	ND	201	101	200	16.4	
EXT DRO >C28-C35	<10.0	10.0	12/24/2013	ND					
Surrogate: 1-Chlorooctane	94.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	88.7	% 63.6-15	4						

Sample ID: STOCKPILE (H303077-08)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320		5.0 12/26/2013 ND 416 104 400					0.00	
TPH 8015M	mg,	/kg	Analyzed By: ms						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1350	50.0	12/24/2013	ND	194	97.2	200	14.5	
DRO >C10-C28	5010	50.0	12/24/2013	ND	201	101	200	16.4	
EXT DRO >C28-C35	800	50.0	12/24/2013	ND					
Surrogate: 1-Chlorooctane	151	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	I-Chlorooctadecane 143		4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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.
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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Celuz D. Kune

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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ARDINAL LABORATORIES

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

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Company Name:	Basin Environmental Service Technol	blogi	es, l	LLC				B	ill to				· :		ANA	LYSIS	RE	QUE	ST				
Project Manager	Ben Arguijo					P	.0. #:		ч. 1			· .				ŀ							
Address: P.O.	Box 301					c	ompa	any:	New Me	dco Rental	1						-	· ·				}	
City: Lovingtor	State: NM	Zip	o: 8	38260		Attn: Dale Bettis			1		· · .					1.:							
Phone #: (575	396-2378 Fax #: (575)3	96-1	429			A	ddres	s:	P.O. Bo		1									· .			
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	Bobby Blackwood				· ,		ax #:	<u>π.</u>	(575)59-	-0144	P P	1 (8			·:			;					
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affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Relinguished By: **Received By:** Phone Result: Add'l Phone #: Date: C Yes Fax Result: C Yes Add'l Fax #: Time: **REMARKS:** 74 **Relinguished By:** Date: Received B 13 Please email results to bjarguijo@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com Time: Delivered By: (Circle One) CHECKED BY: Sample Condition Cool, Intact (Initials 0 Sampler - UPS - Bus - Other: FORM-006 1.60 12/14/13 + Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 Revision 4:10



January 03, 2014

BEN J. ARGUIJO Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: PLU CRUDE OIL GATHERING SYSTEM

Enclosed are the results of analyses for samples received by the laboratory on 12/26/13 9:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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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



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	12/26/2013	Sampling Date:	12/23/2013
Reported:	01/03/2014	Sampling Type:	Soil
Project Name:	PLU CRUDE OIL GATHERING SYSTEM	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

Sample ID: 12/23 STOCKPILE (H303127-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/02/2014	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyzed By: ms		Analyzed By: ms			S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2290	100	12/27/2013	ND	189	94.6	200	5,41	
DRO >C10-C28	19200	100	12/27/2013	ND	184	91.9	200	10.3	
EXT DRO >C28-C35	3540	100	12/27/2013	ND					
Surrogate: 1-Chlorooctane	207	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	491	% 63.6-15	i <i>4</i>						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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.
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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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

Address: P.O. Box 301 Company: New More Result Chy: Lowington Bate: NM Zp:: B22200 Phone #: (975)396-2378 Fax #: (755)396-2378 Fax #: (755)396-2378 Project Marne: PLU Grude Oll Gathering System Bate: NM / Zp:: B22301 (757)396-2378 Fax #: (755)396-2378 Project Location: Eddy Co. NM Project Marne: PLU Grude Oll Gathering System Bate: NM / Zp:: B22311 Sampler Name: Bdby Blackwood Fax #: (775)386-2374 Fax #: Martin: (775)386-2374 Lab I.D. Sample I.D. (9) <t< th=""><th>Company Name:</th><th>Basin Environmental Service Technol</th><th></th><th>BILL TO</th><th>2</th><th>:</th><th></th><th>A</th><th>NALYS</th><th>SIS RE</th><th>QUES</th><th>т</th><th>:</th><th></th><th></th><th> ·</th></t<>	Company Name:	Basin Environmental Service Technol		BILL TO	2	:		A	NALYS	SIS RE	QUES	т	:			·
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January 23, 2014

BEN J. ARGUIJO Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: PLU CRUDE OIL GATHERING SYSTEM

Enclosed are the results of analyses for samples received by the laboratory on 01/13/14 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	01/13/2014	Sampling Date:	01/13/2014
Reported:	01/23/2014	Sampling Type:	Soil
Project Name:	PLU CRUDE OIL GATHERING SYSTEM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: 1/13 STOCKPILE (H400108-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	01/22/2014	ND	2.05	102	2.00	0.955	
Toluene*	3.89	0.500	01/22/2014	ND	2.00	99.9	2.00	0.315	
Ethylbenzene*	8.31	0.500	01/22/2014	ND	2.01	101	2.00	1.95	
Total Xylenes*	23.0	1.50	01/22/2014	ND	5.85	97.5	6.00	2.62	
Total BTEX	35.2	3.00	01/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC 171 % 89.4-126

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	01/17/2014	ND	400	100	400	3.92	
TPH 8015M	mg,	′kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	712	10.0	01/14/2014	ND	209	105	200	6.89	
DRO >C10-C28	2960	10.0	01/14/2014	ND	233	116	200	1.72	
EXT DRO >C28-C35	516	10.0	01/14/2014	ND					
Surrogate: 1-Chlorooctane	141	% 65.2-14	0					-	
Surrogate: 1-Chlorooctadecane	138	63.6-15	4						

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Celuz D. Kune

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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