Basin Environmental Service Technologies, LLC

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ćئ Effective Solutions

REMEDIATION SUMMARY

AND SITE CLOSURE REQUEST

BOPCO, LP PLU PIERCE CANYON 17-24-30 USA #1H Eddy County, New Mexico Unit Letter "N" (SE/SW), Section 17 Township 24 South, Range 30 East Latitude 32.211095° North, Longitude 103.905918° West NMOCD Reference #2RP- 2\99

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

March 2014

Project Manager

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1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin), on behalf of BOPCO, LP (BOPCO), has prepared this *Remediation Summary & Site Closure Proposal* for the release site known as PLU Pierce Canyon 17-24-30 USA #1H. The legal description of the release site is Unit Letter "N" (SE/SW), Section 17, Township 24 South, Range 30 East, in Eddy County, New Mexico. The geographic coordinates of the release site are 32.211095° North latitude and 103.905918° West longitude. The property affected by the release is owned by the United States Department of the Interior - Bureau of Land Management (BLM). A "Site Location Map" is provided as Figure 1.

On February 14, 2014, during a routine inspection, BOPCO discovered a transport truck illegally dumped approximately one hundred and thirty barrels (130 bbls) of produced water on the PLU Pierce Canyon 17-24-30 USA #1H well pad. The "Release Notification and Corrective Action" (Form C-141) indicated approximately eighteen thousand, two hundred square feet (18,200 ft²) of caliche well pad were affected by the release. The New Mexico Oil Conservation Division (NMOCD) was notified immediately upon discovery. During initial response activities, berms where installed to prevent the fluid from leaving the well pad onto the recently downsized area around the well pad. 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 17, Township 24 South, Range 30 East. A depth to groundwater reference map utilized by the NMOCD indicates groundwater should be encountered at approximately one hundred and seventy-five feet (175') 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 1,000 feet 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 1,000 feet 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 Pierce Canyon 17-24-30 USA #1H 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)
- BTEX 50 mg/Kg (ppm)
- 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 February 25, 2014, Basin began excavating impacted soil at the release site. The floor and sidewalls of the excavation were advanced until field tests suggested concentrations of BTEX, TPH and chloride were below NMOCD Regulatory Standards. Excavated soil was stockpiled onsite, pending final disposition.

On February 28, 2014, four (4) soil samples (Sec. 1 NSW, Sec. 1 ESW, Sec. 1 SSW and Sec. 1 Floor) were collected from the floor and sidewalls of the excavation and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 16.0 ppm for soil sample Sec. 1 SSW to 624 ppm for soil sample Sec. 1 ESW. Soil sample Sec. 1 Floor was also analyzed for concentrations BTEX and TPH, which were determined to be less than the appropriate laboratory method detection limit (MDL). The excavation was advanced to the west. A summary of "Concentrations of Benzene, BTEX, TPH and Chloride in Soil" is provided in Table 1. A "Site and Sample Location Map" is provided as Figure 2. Laboratory analytical reports are provided as Appendix C.

On March 6, 2014, eight (8) soil samples (Sec. 2 NSW, Sec. 2 SSW, Sec. 2 Floor, Sec. 3 NSW, Sec. 3 SSW, Sec. 3 Floor, Sec. 4 NSW and Sec. 4 Floor) were collected from the floor and sidewalls of the excavation and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from less than the appropriate laboratory MDL for soil samples Sec. 2 SSW, Sec. 3 Floor and Sec. 4 Floor to 240 ppm for soil sample Sec. 3 NSW. Soil sample Sec. 3 Floor was also analyzed for concentrations BTEX and TPH, which were determined to be less than the appropriate laboratory MDL. The excavation was advanced to the west.

On March 7, 2014, four (4) soil samples (Sec. 4 WSW #1, Sec. 4 WSW #2, Sec. 4 SSW #1 and Sec. 4 Floor #2) were collected from the floor and sidewalls of the excavation and submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from less than the appropriate laboratory MDL for soil sample Sec. 4 WSW #2 to 448 ppm for soil sample Sec. 4 Floor #2.

Between March 6 and 11, 2014, approximately one thousand cubic yards (1,000 yd³) of impacted material was transported to Lea Land, LLC (NMOCD Permit #WM-01-035) for disposal. The final dimensions of the excavation were approximately fifty (50) to seventy-five (75') in width, one hundred and seventy feet (170') in length and eighteen inches (18") to two feet (2') in depth. Upon receiving laboratory analytical data from confirmation soil samples, the excavated area was backfilled with locally purchased, non-impacted caliche. Following backfilling, areas affected by the remediation activities were compacted and contoured to meet the needs of the well pad.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to Cardinal Laboratories, Inc., 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 Method 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

Soil samples collected from the floor and sidewalls of the Pierce Canyon 17-24-30 USA #1H excavation were analyzed by an NMOCD-approved laboratory, which determined concentrations of BTEX, TPH and chloride were less than NMOCD regulatory standards in each of the submitted soil samples. Based on these laboratory analytical results, Basin recommends BOPCO provide the NMOCD Artesia District Office and the BLM a copy of this *Remediation Summary and Site Closure Request* and request the NMOCD grant site closure to the Pierce Canyon 17-24-30 USA #1H release site.

6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary and Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin has not conducted an independent examination of the facts contained in referenced materials and statements. Basin has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin 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:**

Mike Bratcher
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 2)
1301 E. Grand Avenue
Artesia, NM 88210

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- Copy 2: James Amos Bureau of Land Management 602 E. Greene Street Carlsbad, New Mexico 88220
- 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

1





TABLES

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDES IN SOIL

BOPCO, LP PIERCE CANYON 17-24-30 USA #1H EDDY COUNTY, NEW MEXICO

				METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M			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)
Sec. 1 NSW	1.5'	2/28/2014	In-Situ	-	-	-	-	-	-	-	-	-	48.0
Sec. 1 ESW	1.5'	2/28/2014	In-Situ	-	-	-	-	-	-	-	-	-	624
Sec. 1 SSW	1.5'	2/28/2014	In-Situ	-	-	-	-	-	-	-	-	-	16.0
Sec. 1 Floor	2'	2/28/2014	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
Sec. 2 NSW	1.5'	3/6/2014	In-Situ	-	-	-	-	-	-	-	-	-	48.0
Sec. 2 SSW	1.5'	3/6/2014	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
Sec. 2 Floor	2'	3/6/2014	In-Situ	-	-	-	-	-	-	-	-	-	32.0
Sec. 3 NSW	1'	3/6/2014	In-Situ	-	-	-	-	-	-	-	-	-	240
Sec. 3 SSW	1'	3/6/2014	In-Situ	-	-	-	-	-	-	-	-	-	32.0
Sec. 3 Floor	1.5'	3/6/2014	In-Situ	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
Sec. 4 NSW	1'	3/6/2014	In-Situ	-	-	-	-	-	-	-	-	-	176
Sec. 4 Floor	1.5'	3/6/2014	In-Situ	-	-	-	- ·	-	-	-	-	-	<16.0
Sec. 4 WSW #1	1'	3/7/2014	In-Situ	-	-	-	-	-	-	-	-	-	304
Sec. 4 WSW #2	1'	3/7/2014	In-Situ	-	-	-	-	-	-	-	-	-	<16.0
Sec. 4 SSW #1	1'	3/7/2014	In-Situ	-	-	-	-	-	-	-	-	-	96.0
Sec. 4 Floor #2	1.5'	3/7/2014	In-Situ	-	-	-	-	-	-	-	-	-	448
NMOCD Criteria				10				50				5,000	1,000

- = Not analyzed.

APPENDICES

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Appendix A

Release Notification and Corrective Action (Form C-141)

District 1 1625 N. French District II 811 S. First St.,				Stat Energy Mino		f New Mex s and Natura				ł		Form C-141 August 8, 2011
District III 1000 Rio Brazo District IV 1220 S. St. Fran	s Road, Azteo	, NM 87410	i	1220 \$	Sout	ervation Div th St. Franc Fe, NM 875	is Dr.	Submit	I Copy ac	to appropri cordance w	ate Dis ith 19.1	trict Office in 5.29 NMAC.
			Rele	ease Notifica				ction				
						OPERA	FOR	\boxtimes] Initia	al Report		Final Report
		OPCO, L.P.				Contact: To						
in the second				oad, N.M. 88220			No. 575-887-732	and the second se				·······
·		F		30 USA #1H		·	e: Exploration a	na Produ	ction			
Surface Ow	ner: Depai	tment of Int	erior BL	M Mineral Ow	vner	: BLM			API No	. 30-015-4	0520	
				LOCA	ric	N OF REI	LEASE					
Unit Letter	Section	Township	Range			h/South Line	Feet from the	East/Wes	st Line	County		
N	17	248	30E	237	Sc	outh	1980	West		Eddy		
ţ	1	I	I		. 1.00)5 T		**************************************		1		
				Latitude N 32.2				<u>i</u>				
				NATU	JRI	E OF REL						
Type of Rele			aroa fran	a transport truck			Release: 130 bbls			Recovered: 1 Hour of Dis		
Source of Re	icase. Onau	monzed uiser	large non	a nansport nuck		Unknown	iour or Occurrence			t 10:30 a.m.		
Was Immedi	ate Notice (IF YES, To						
			Yes L] No 🗌 Not Req	uirec							
By Whom? Was a Water							Hour: 2/14/14 at 11 folume Impacting the		511560			
was a water	course read		Yes 🗵] No		11165, *(siune mipaeung u	ne wateret	Juise.			
If a Waterco	irse was Im	pacted, Descr	ibe Fully.	ł)_
									F	EB 18	2014	
	<u> </u>								NMC	DCD AR	ITES	
		em and Reme red during rou		n Taken.* ction of the well pa	d. Tł	ie well has bee	n shut in since 3/8	/13				
The impacted the recently of	l area cover lownsized a	rea around the	ly 18,200 e pad. All	cen.* sq.ft. of well pad, t of the fluid had soa o the NMOCD and	ked i	into the ground	were bermed prev l.	venting the	fluid fr	om Icaving	the wel	l pad onto
regulations a public health should their o or the enviro	ll operators or the envir operations h nment. In a	are required to ronment. The ave failed to a	o report an acceptanc adequately OCD accep	t is true and comple ad/or file certain rel of a C-141 report investigate and ren tance of a C-141 re	ease by t nedia	notifications a he NMOCD m ate contaminati	nd perform correct arked as "Final Re fon that pose a thre the operator of r	tive actions eport" does eat to group responsibil	s for relision of the second s	eases which ieve the ope r, surface wa ompliance v	may crator of ater, hu with any	ndanger Fliability man health
			-				OIL CONS	SERVA	TION	DIVISIO	DN	
Signature:	104	z Dau	ñu			American dias	English and the					
Printed Name	:: Tony Sav	oie				rappioved by	Environmental Sp					
Title: Waste	Managemer	nt and Remedi	ation Spe	cialist		Approval Dat	le:	Exp	oiration	Date:		
E-mail Addr	ess: tasavoie	Mbasspet.com	n			Conditions of	f Approval:			Attached		
Date: 2/18/1				Phone: 432-556-873	0							
* Attach Addi	tional Shee	ets If Necess	ary									

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Appendix B Photographs



Photograph of the initial release and surface staining at the Pierce Canyon 17-24-30 USA #1H Release Site.



Photograph of the initial release and surface staining at the Pierce Canyon 17-24-30 USA #1H Release Site.



Photograph of excavation activities at the Pierce Canyon 17-24-30 USA #1H Release Site.



Photograph of excavation activities at the Pierce Canyon 17-24-30 USA #1H Release Site.



Photograph of excavation activities at the Pierce Canyon 17-24-30 USA #1H Release Site.



Photograph of excavation activities at the Pierce Canyon 17-24-30 USA #1H Release Site.



Photograph of backfilling activities at the Pierce Canyon 17-24-30 USA #1H Release Site.



Photograph of the Pierce Canyon 17-24-30 USA #1H Release Site after remediation activities.

Appendix C

Laboratory Analytical Reports



March 11, 2014

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: PLU PIERCE CANYON 17-24-30

Enclosed are the results of analyses for samples received by the laboratory on 03/05/14 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 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 JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	03/05/2014	Sampling Date:	02/28/2014
Reported:	03/11/2014	Sampling Type:	Soil
Project Name:	PLU PIERCE CANYON 17-24-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SEC. 1 NSW (H400666-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/07/2014	ND	432	108	400	0.00	

Sample ID: SEC. 1 ESW (H400666-02)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	03/07/2014	ND	432	108	400	0.00	

Sample ID: SEC. 1 SSW (H400666-03)

Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/07/2014	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celuz D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/05/2014	Sampling Date:	02/28/2014
Reported:	03/11/2014	Sampling Type:	Soil
Project Name:	PLU PIERCE CANYON 17-24-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SEC. 1 FLOOR (H400666-04)

BTEX 8260B	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	03/10/2014	ND	1.92	95.9	2.00	1.04	
Toluene*	<0.050	0.050	03/10/2014	ND	1.91	95.7	2.00	4.25	
Ethylbenzene*	<0.050	0.050	03/10/2014	ND	1.83	91.6	2.00	4.77	
Total Xylenes*	<0.150	0.150	03/10/2014	ND	5.57	92.8	6.00	5.04	
Total BTEX	<0.300	0.300	03/10/2014	ND					
Surrogate: Dibromofluoromethane	99.6	% 61.3-14	2						
Surrogate: Toluene-d8	103	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	102	65.7-14	1						
Chloride, SM4500Cl-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	03/07/2014	ND	432	108	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	03/07/2014	ND	194	97.1	200	8.76	
DRO >C10-C28	<10.0	10.0	03/07/2014	ND	232	116	200	7.85	
EXT DRO >C28-C35	<10.0	10.0	03/07/2014	ND					
Surrogate: 1-Chlorooctane	108 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	110 9	63.6-15	4						

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*=Accredited Analyte

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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

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

Company Name: Basin Envi	ronmental Service Techn	olog	ies,	LLC	2					1.1	31	LL TO						ANAL	YSIS	RE	QUES	ST		
Project Manager: Joel Lowry	•							Р.С). #:															۰ <u>،</u>
Address: P.O. Box 301								Company: BOPCO, LP												• .				
City: Lovington	State: NM	Zip	: 8	826	0			Att	n:			Tony Savo	nie	ŀ										
Phone #: (575)396-2378	Fax:#: (575)39	75)396-1429			Ad	dres	s:		522 W. M	arland														
Project #:	Project Owner	Owner:				Cit	v:			Carisbad	1													
Project Name: PLU Pierce Ca	nyon 17-24-30		· · · ·						-1	NN	N		38220	ð	(WS	18				•				
Project Location: Eddy Co.,	NM								one			(432)556		2.id	301{	802								
Sampler Name: Joel Lowry	· · · · · · · · · · · · · · · · · · ·						<u>-</u> -	1-	<u>.</u> x #:					Chloride	TPH (8015M)	BTEX (8021B)								
FOR LAB USE ONLY	······································	F	Γ	L	A	ATR	x		PRE	-	٦V.	SAMPLI	NG		ЦР	BT								
44001000	nple I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOF	OTHER :	DATE	TIME											
	ec. 1 NSW	G	1			X				X		2/28/14	11:00	x							·			
	ec. 1 ESW	G	1	ŀ		x				x		2/28/14	11:10	x										
	ec. 1 SSW	G	1			x				X		. 2/28/14	11:20	X										
u s	ec. 1 Floor	G	1			x				x		2/28/14	11:30	x	x	x	, . <u></u>				ļ			.
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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 the client for the analyses: All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions; loss of use or loss of profils incurred by client, its subsidiaries,

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Relinquished By:	Date: 9/5/11/ Received By:	ison	Please email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com	
Delivered BY: (Circle One)	Sample Condition Cool Intact Lyce Lyce No No	CHECKED BY: (Initials)		
	† Cardinal cannot accept verbal	hanges, Please fax	written changes to 575-393-2476	

#41



March 14, 2014

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: PLU PIERCE CANYON 17-24-30

Enclosed are the results of analyses for samples received by the laboratory on 03/07/14 12:15.

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 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 JOEL LOWRY P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	03/07/2014	Sampling Date:	03/06/2014
Reported:	03/14/2014	Sampling Type:	Soil
Project Name:	PLU PIERCE CANYON 17-24-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SEC. 2 NSW (H400714-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP			<u> </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/11/2014	ND	432	108	400	0.00	

Sample ID: SEC. 2 SSW (H400714-02)

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	03/11/2014	ND	432	108	400	0.00	

Sample ID: SEC. 2 FLOOR (H400714-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/11/2014	ND	432	108	400	0.00	

Sample ID: SEC. 3 NSW (H400714-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					<u>~</u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/12/2014	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/07/2014	Sampling Date:	03/06/2014
Reported:	03/14/2014	Sampling Type:	Soil
Project Name:	PLU PIERCE CANYON 17-24-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SEC. 3 SSW (H400714-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/12/2014	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/07/2014	Sampling Date:	03/06/2014
Reported:	03/14/2014	Sampling Type:	Soil
Project Name:	PLU PIERCE CANYON 17-24-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SEC. 3 FLOOR (H400714-06)

BTEX 8260B	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	03/13/2014	ND	0.428	107	0.400	3.69	
Toluene*	<0.050	0.050	03/13/2014	ND	0.419	105	0.400	1.43	
Ethylbenzene*	<0.050	0.050	03/13/2014	ND	0.430	108	0.400	5.19	
Total Xylenes*	<0.150	0.150	03/13/2014	ND	1.25	104	1.20	1.84	
Total BTEX	<0.300	0.300	03/13/2014	ND					
Surrogate: Dibromofluoromethane	96.4	% 61.3-14	2						
Surrogate: Toluene-d8	103	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	103	% 65.7-14	1						
Chloride, SM4500Cl-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	03/12/2014	ND	400	100	400	3.92	
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	03/14/2014	ND	214	107	200	1.23	
DRO >C10-C28	<10.0	10.0	03/14/2014	ND	202	101	200	2.63	
EXT DRO >C28-C35	<10.0	10.0	03/14/2014	ND					
Surrogate: 1-Chlorooctane	99.5	% 65.2-14	0			,			
Surrogate: 1-Chlorooctadecane	102	% 63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/07/2014	Sampling Date:	03/06/2014
Reported:	03/14/2014	Sampling Type:	Soil
Project Name:	PLU PIERCE CANYON 17-24-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SEC. 4 NSW (H400714-07)

Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AP					<u></u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/12/2014	ND	400	100	400	3.92	

Sample ID: SEC. 4 FLOOR (H400714-08)

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	03/12/2014	ND	400	100	400	3.92	

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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

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

Company Name:	Basin Environmental Service Tech	nolog	jies,	LLC	2					BI	LL TO	₹ See	and a			ANA	LYSIS	S RE	QUE	ST			
Project Manager:	Joel Lowry							P.0	. #:				Γ							I			
Address: P.O. I	Box 301							Con	npa	ny:	BOP	CO, LP	1										
City: Lovington	State: NM	Zip	: 8	826	60			Attr			Tony Sav	oie	1.										
Phone #: (575)	396-2378 Fax #: (575)3	96-1	429					Add	Ires	s:	522 W. N	lariand				 							
Project #:	Project Owne	er:						City	:		Carlsba		1										
Project Name:										NM		88220		W	1 B	ļ							
Project Location:	Eddy Co., NM								ne i		(432)556		Ę	015	(8021B)								
Sampler Name:	PLU Pierce Canyon 17-24-30						_	Fax			(Chioride	TPH (8015M)	۲						l		
FOR LAB USE ONLY		Τ	Г		M	ATRI				SERV.	SAMPL	NG	1 ॅ	L L	втех								
Lab I.D. 뷔식OO 714	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL OTHER :	DATE	TIME											
	Sec. 2 NSW	G	1			×				x	3/6/14	910	x							1			
2	Sec. 2 SSW	G	.1		3	x			:	x	3/6/14	920	x										
3	Sec. 2 Floor	G	1		:	×			;	x	3/6/14	930	x										
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7	Sec. 4 NSW	G	1		,	ĸ				x	3/6/14	1010	x										
8	Sec. 4 Floor	G	1)	(;	x	3/6/14	1020	x										
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	ce of services hereunder by Cardinal, regardless of whether such claim is based up	in any of the above stated reasons or otherwise.
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Refinquished By:	Date: / Received By:	
	3/7/14 - 10 1 .	
	TIME 15 LICU HU	Please email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com
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SampleORMP906 Bus - Other:	5 A BYes Pyes	
LRevision 1.0		
	Cardinal cannot accept verbal cl	anges, Please fax written changes to 575-393-2476

-#54

Page 7 of 7



March 13, 2014

JOEL LOWRY Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: PLU PIERCE CANYON 17-24-30

Enclosed are the results of analyses for samples received by the laboratory on 03/10/14 11:05.

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.

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



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

Received:	03/10/2014	Sampling Date:	03/07/2014
Reported:	03/13/2014	Sampling Type:	Soil
Project Name:	PLU PIERCE CANYON 17-24-30	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SEC. 4 WSW #1 (H400721-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/12/2014	ND	400	100	400	3.92	

Sample ID: SEC. 4 WSW #2 (H400721-02)

Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/12/2014	ND	400	100	400	0.00	

Sample ID: SEC. 4 SSW #1 (H400721-03)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/12/2014	ND	400	100	400	0.00	

Sample ID: SEC. 4 FLOOR #2 (H400721-04)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	03/12/2014	ND	400	100	400	0.00	

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*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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	ND	Analyte NOT DETECTED at or above the reporting limit
*** Insufficient time to reach temperature. - Chloride by SM4500CI-B does not require samples be received at or below 6°C	RPD	Relative Percent Difference
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C	**	Samples not received at proper temperature of 6°C or below.
	***	Insufficient time to reach temperature.
Samples reported on an as received basis (wet) unless otherwise noted on report	-	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

2

Page 4 of 4

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

Company Name:	Basin Environmental Service Techn		ies,	LLC						81	LL TO			·.		ANA	LYSIS	RE	QUE	ST	<u> </u>	
Project Manager: Joel Lowry								P.O. #:														
Address: P.O. Box 301								Company: BOPCO, LP														
								Attn: Tony Savoie			oie							ł				
Phone #: (575)396-2378 Fax #: (575)396-1429								Address: 522 W. Marland														
Project #: Project Owner:								City: Carlsbad														
	-		אר ל	24	2	56		State: NM Zip: 88220					(W	(B)						1		
Project Name: PLU Pierce Canyon M-24-30 Project Location: Eddy Co., NM								Phone #: (432)556-8730				rid	015	802								
	PLU Pierce Canyon 17-24-30							Fax #:				Chloride	TPH (8015M)	BTEX (8021B)	ł	·						
FOR LAB USE ONLY				MATRIX							SAMPL	NG		Ę	BTI							
Lab I.D. НЧ00721	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEMATER	SOIL	OIL	SLUDGE	OTHER : ACID/RASE	ICE / COOL	OTHER :	DATE	TIME	×		-							
1	Sec. 4 WSW #1	G	1		x			Τ	x		3/7/14	910	x									
Z	Sec. 4 WSW #2	G	1		x				x		3/7/14	920	x									
3	Sec: 4 SSW #1	G	1		x				x		3/7/14	930	x									
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remody for any claim arking whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable

service. In no event shall Cardhal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

amilates of successors arising out of or related to the performan	nce of services nerecinder by Cardinal, regardless of whether such asked upon any of the above stated rea	sons of otherwise.
Belinguished By:	Date 10/14 Received By:	Phone Result: Yes No Add'l Phone #: Fax Result: Types No Add'l Fax #:
que par	TIMEY: 05 May Menson	REMARKS:
Relinquisted By:	Date: Received By:	
	Time:	Please email results to pm@basinenv.com, TASavoie@BassPet.com & SJWalters@BassPet.com
Delivered By: (Circle One)	Sample Condition CHECKED BY:	
SampleOFUP\$06 Bus - Other:	4.70 Dres Erres	
	† Cardinal cannot accept verbal changes. Pjease fa	x written changes to 575-393-2476

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