BOPCO

PLU Pierce Canyon 17 Federal #1H

CLOSURE REPORT

2RP-1266

API No. 30-015-36635

Release Date: 7/31/2012

Unit Letter P, Section 17, Township 25 South, Range 30 East

NM OIL CONSERVATION

ARTESIA DISTRICT

SEP 2 2 2014

June 17, 2014

RECEIVED

Prepared by:

Environmental Department Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 Phone: (575)964-8394

Fax: (575)393-8396

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Pierce Canyon 17 Federal #1

1 INTRODUCTION

BOPCO has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located South East of Carlsbad NM, in Eddy County. On 07/31/2012 10bbls of crude oil was released with no recovery. The leak site resulted from a 3" split in the seam of the pipe that traversed from the heater-treater to the tanks. The leak released fluid misting an approximate 8,868 square feet area with an approximate ¼" saturation. A form C-141 was submitted to the NMOCD on August 15, 2012. (Appendix I).

2 SITE ACTIVITIES

On December 17, 2013, DFSI personnel collected surface soil samples from the site. The samples were field screened for Chloride and TPH. The samples were submitted to a commercial laboratory for Chloride and TPH analyses (Appendix IV). The lab confirms the following:

SP1: 2" - 272 mg/kg chlorides and 205.8 mg/kg TPH

SP2: 2" - 384 mg/kg chlorides and 74.5 mg/kg TPH

SP3: 2" - 848 mg/kg chlorides and <10 mg/kg TPH

SP4: 1" - 192 mg/kg chlorides and 6023 mg/kg TPH

SP5: 1" - 304 mg/kg chlorides and 40.6 mg/kg TPH

SP6: Surface - <16 mg/kg chlorides and 20.1 mg/kg TPH

SP7: Surface - <16 mg/kg chlorides and <10 mg/kg TPH

On January 03, 2014 DFSI personnel returned to the site and further delineated SP4 at 1ft bgs intervals. Whereby, it was determined that all of the aforementioned sample points returned acceptable lab confirmations at the 1ft to 2ft bgs. The lab confirms the following:

SP4: 2' - <0.30 mg/kg BTEX and <10 mg/kg TPH

On February 05, 2014 DFSI personnel retrieved a composite sample of the contaminated stockpile that was excavated area of SP4. The initial sample of stockpile was submitted to a commercial lab for analysis and returned a GRO < 10.0 and DRO of 698 mg/kg. The stockpile was blended down and again sampled on February, 14 2014. This sample returned acceptable limits of Chloride at 256 mg/kg, (Appendix IV), BTEX totaled less than 0.300 mg/kg, and

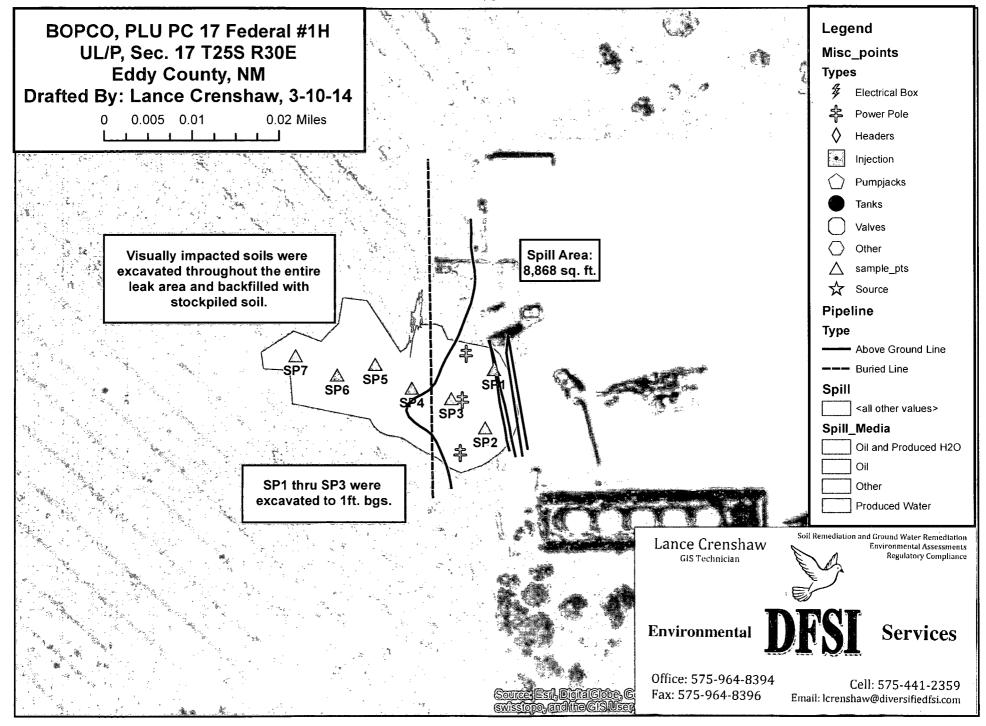
Diversified Field Service, Inc.

DRO/GRO < 405.0 in all samples. There was a combined total of 60 yards of visually impacted soils that were excavated throughout whereas the majority of the area was scrapped and removed to a NMOCD approved disposal facility. Backfill was brought back and used to blend with the above mentioned stockpile and was used as backfill. In the area of SP4, a trench was excavated and BOPCO installed a new line through this area. The excavated area on the well pad was backfilled with aforementioned blended stockpiled soil, imported caliche and leveled. Likewise, the pasture excavation was backfilled with imported and blended topsoil from the combination of 60 yards from an NMOCD approved facility and the above aforementioned stockpile. The site was contoured to the surrounding landscape. Photographs of the site activities can be viewed in Appendix II.

3 Conclusion

According to the U.S. Geological Survey and the NM Office of the State Engineer, depth to groundwater in the area averages greater than 325ft. bgs (Appendix III). Based on the removal of soils containing elevated chloride and visual staining at the site, BOPCO, L.P. respectfully requests the closure of the regulatory file for the site.

Site Diagram



Appendix I

INITIAL FORM C-141

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394 Oistrict I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fc, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1			Rele	ease Notific	ation	and Co	rrective A	ction				
MMEn	12241	53124				OPERA?	ror		M Initia	al Report		Final Report
Name of Co	mpany: B	OPCO, L.P.		60737		Contact: To						
				oad, N.M. 88220			No. 575-887-732					
Facility Nar	ne: PLU P	eirce Canyo	n 17 Fede	erai #1H		acility Typ	e: Exploration a	nd Pro	duction			
Surface Ow	ner: Feder	al		Mineral O	wner: F	ederal			API No	. 30-015-36	6635	
	,			LOCA		OF RE	LEASE					
Unit Letter P	Section 17	Township 25S	Range 30E	Feet from the 350	North/S Sout	South Line h	Feet from the 350	East/V Eas	Vest Line t	County Eddy		
			<u>.</u>	Latitude N 32.	123902	Longitud	e <u>W 103.896282</u>	2				
				NAT	URE	OF REL	EASE					
Type of Rele	ase: Crude (Jil					Release: 10 bbls.			Recovered: N		
Source of Re	lease: A 3"	line going fro	m the pro	cess vessels to the	tanks.		four of Occurrence proximately 12:0			Hour of Dis- t 2:20 p.m.	covery:	
Was Immedia	ate Notice C		Yes [No Not Re	quired	If YES, To Jim Amos		<u>,,,,,,,,,,,</u> ,,,,				
By Whom? T	ony Savole					Date and H	Iour: 7/31/12 2:27	p.m.	· · · · · · · · · · · · · · · · · · ·			
Was a Water	course Reac	hed?	Yes [l Ma			olume Impacting t		ercourse.			
10 11/												
If a Watercou										AUG 20	2012	
	ng from the	heater to the i	anks split	at a seam in the p	ipe. The	entire section	on of pipe was rep	laced.	INM	OCD AI	RTES	IA
distance of 30 frak pond use	on top of th 00 ft. from the d during the	ne pipe, the re ne release poi drilling oper	cased fluint. The veations. Th	en.* id misted an area of getation had a verte reclaimed area of OCD and BLM gr	y slight neasured	mist out to a I approximat	total distance of	120 ft. T	The area afi	fected appea	rs to hav	ve been a
regulations al public health should their o	l operators a or the envir perations ha iment. In ac	are required to onment. The ave failed to a ddition, NMO	report an acceptance dequately CD accep	is true and completed for file certain rece of a C-141 repoint investigate and retained of a C-141 repoint ance of a C-141 received.	elease no rt by the emediate	tifications a NMOCD m contaminat	nd perform correct arked as "Final Rion that pose a thr	tive act eport" o	ions for rel loes not rel round wate	eases which ieve the ope r. surface wa	may en rator of ater, hur	danger liability nan health
Signature:	1 0 4						OIL CON	SERV	ATION	DIVISIO	<u>NC</u>	
Printed Name	: Tony Savo)ie	~			Approved by	Environmental S	pecialis Sig	it: med By	ality ,	Bener	Wester
Title: Waste N	Managemen	t and Remedi	ation Spec	cialist	İ		G 28 2012	1	Expiration	Date:		
E-mail Addre	ss: tasavoie	@basspet.com	1			Conditions o		_		Attached	ı 🗀	
Date: 8/15/12			1	Phone: 432-556-8	730 a		iation per OCD SUBMIT REM			2.1140,140	- 🗀	
Attach Addit	ional Shee	ts If Necessa				ROPOSAL	NOT LATER TI		1014		ZRF	7-1266

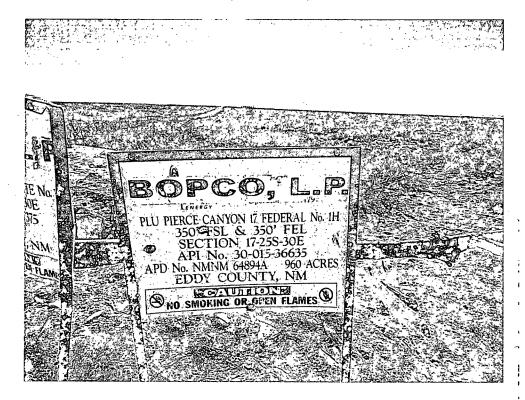
Appendix II

SITE PHOTOGRAPHS

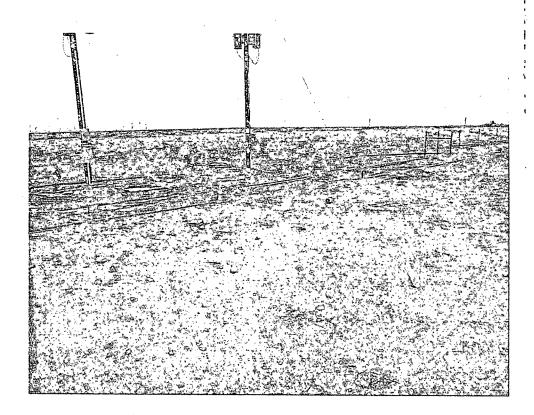
Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

BOPCO PLU Pierce Canyon 17 Federal #1H

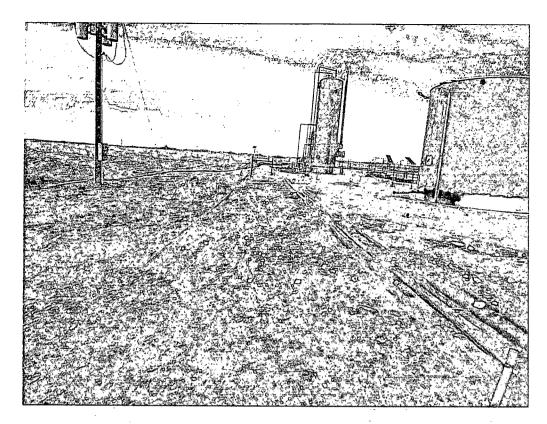
Unit Letter P, Section 17, T25S R30E



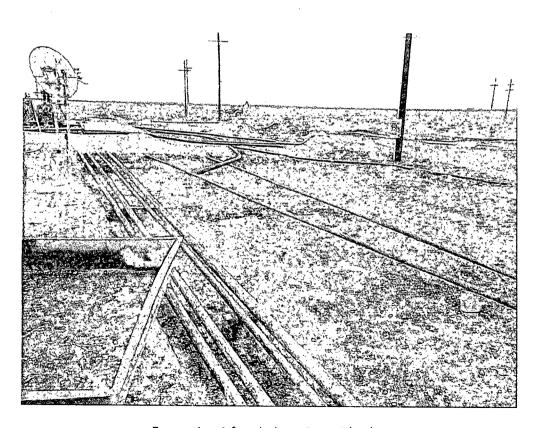
Sign marking location 12/04/13



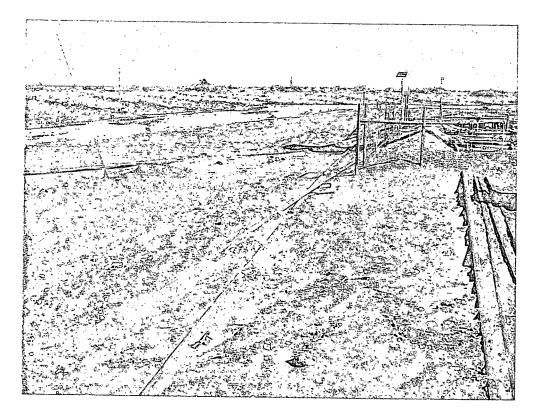
Impacted pasture with sample points west of location 12/09/13



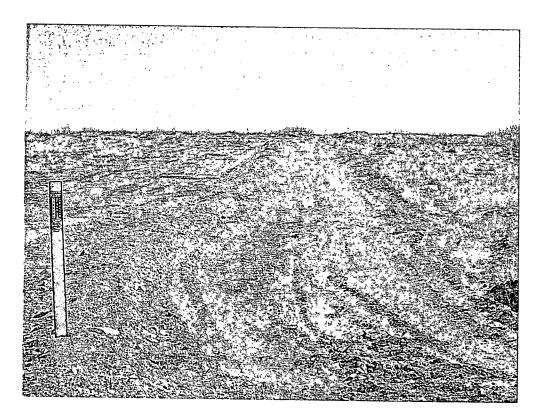
Markers indicating sample points 12/05/13



Excavation 1 foot below pipe 2/10/14



Site at completion 3/28/14



Pipeline installation at completion 03/28/14

Appendix III

GROUNDWATER DATA

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

DEPTH TO GROUNDWATER

BOPCO PLU Pierce Canyon 17 Federal #1H

UL.	, Jet.		N.	
Groundwa	ter Depth:	~325	ft.	
o = NM Office of the ■ = U.S. Geological S ■ = Site Location	e State Engineer Jurvey (unknown well)		V trend map - 325 to 350	Oft bgs Date: 12/17/13 By: Amy Ruth
			205' Com Lands PRC	1
4' USGS PRO	/DEV 18' RBWP INI	186' 3APartner STK Ø	o 160' Texa	co PRO/DEV
+ 0303 (NO)	[©] 24S 29E	24S 30E STM STK 400' CWI	24S 31E M STK	
	⊕ 40' GOC PRO/DEV • 40' AGC [ром		
60° TK	25S 29E	25S 30E	25§ 31E 390' BJT STK	
	O 30' JN STK	472150.00		DE' MARMA DOMA
	o 78' MBB STK 75' MBB STK	o 173' EPNG IND 184' EPNG IND 200' BLM	300, B1 DOW\WNF 0	35' MRM DOM 292' BJT STK 292' BJT STK
	26S 29E	26S 30E 180' Grace Oil PRO/DEV	26S 31E	

Appendix IV

SOIL CHEMISTRY TABLE

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

PLU Pierce Canyon 17 Fed #1 Soil Chemistry Table

Date	Lab ID	Sample ID	TPH MG/KG	BTEX MG/KG	Chloride MG/KG	STATUS
12/17/2013	H303057	SP1 AT SURFACE	1280		928	Excavated
12/17/2013	H303057	SP-1 AT 2	205.8		272	Insitu
12/17/2013	H303057	SP-1 AT 3	87.3	<0.300	400	Insitu
12/17/2013	H303057	SP2 AT SURFACE	18196		3160	Excavated
12/17/2013	H303057	SP-2 AT 2	74.5		384	Insitu
12/17/2013	H303057	SP-2 AT 3	12.1		464	Insitu
12/17/2013	H303057	SP3 AT SURFACE	18350		3000	Excavated
12/17/2013	H303057	SP-3 AT 2	45.5		848	Insitu
12/17/2013	H303057	SP-3 AT 3	<10		528	Insitu
12/17/2013	H303057	SP4 AT SURFACE	10770		160	Excavated
12/17/2013	H303057	SP-4 AT 1	6023		192	Excavated
12/17/2013	H303057	SP5 AT SURFACE	9940		160	Excavated
12/17/2013	H303057	SP-5 AT 1	40.6		304	Insitu
12/17/2013	H303057	SP6 AT SURFACE	20.2		<16	Insitu
12/17/2013	H303057	SP7 AT SURFACE	<10		<16	Insitu
1/3/2014	H400020	SP-4 AT 2'	<10	<0.300	N/T	Insitu
1/3/2014	H400020	SP-4 AT 4'	<10	<0.300	N/T	Insitu
The second secon	4 4		an and the second		y	territoria de la composição de la compos
2/5/2014	H400369	West side of pile	899	C this, if you first man varieties discourse-180 media	496	Treat & blend
		and the second s			Section 2 to the section of the sect	Commission and and a second se
2/12/2014	H400433	Composite #1	<10		64	Backfill
		The manufacture of the control of th	e jame - merenana james - manan			
2/14/2014	h400458	Stockpile #2	617	<0.300	256	Backfill
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Appendix V

LABORATORY ANALYSES

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394



December 27, 2013

JODY WALTERS

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: PLU PC 17 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 12/17/13 16:15.

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/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.

Celey & Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220

Fax To:

(505) 887-7473

Received:

12/17/2013

Reported:

12/27/2013

Project Name:

PLU PC 17 FED #1

Project Number: Project Location: NOT GIVEN NOT GIVEN Sampling Date:

12/17/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Celey D. Keene

Sample ID: SP1 @ SURFACE (H303057-01)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Cilitaria of Cilitaria		79							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	12/21/2013	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/22/2013	ND	190	95.2	200	1.98	
DRO >C10-C28	1010	10.0	12/22/2013	ND	193	96.6	200	1.57	
EXT DRO >C28-C35	270	10.0	12/22/2013	ND					
Surrogate: 1-Chlorooctane	94.6	% 65.2-14	10	···		· · · · · · · · · · · · · · · · · · ·			
0 1011	112	0/ /3 / 1/	- ,						

Surrogate: 1-Chlorooctadecane

113%

63.6-154

Sample ID: SP1 @ 2 (H303057-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/21/2013	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/22/2013	ND	190	95.2	200	1.98	
DRO >C10-C28	155	10.0	12/22/2013	ND	193	96.6	200	1.57	
EXT DRO >C28-C35	50.8	10.0	12/22/2013	ND					
Surrogate: 1-Chlorooctane	99.7	% 65.2-14	0		-				
Surrogate: 1-Chlorooctadecane	103	% 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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 ansing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

aley To Keens



Bass Enterprises
JODY WALTERS
522 W. Mermod #709
Carlsbad NM, 88220
Fax To: (505) 887-7473

Received:

12/17/2013

Reported:

12/27/2013

Project Name:

PLU PC 17 FED #1

Project Number: Project Location:

NOT GIVEN

Sampling Date:

12/17/2013

Sampling Type:

Sampling Condition:

Soil

sampling Condition.

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SP1 @ 3 (H303057-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS				· .	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2013	ND	2.16	108	2.00	1.36	
Toluene*	<0.050	0.050	12/26/2013	ND	2.16	108	2.00	1.36	
Ethylbenzene*	<0.050	0.050	12/26/2013	ND	2.15	107	2.00	1.82	
Total Xylenes*	<0.150	0.150	12/26/2013	ND	6.27	104	6.00	2.42	
Total BTEX	<0.300	0.300	12/26/2013	ND			- (,		
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 89.4-12	6				· :* ;	(1) 10 m	
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	12/21/2013	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: ms					<u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/22/2013	ND	190	95.2	200	1.98	
DRO >C10-C28	67.6	10.0	12/22/2013	ND	193	96.6	200	1.57	
EXT DRO >C28-C35	19.7	10.0	12/22/2013	ND					
Surrogate: 1-Chlorooctane	94.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	96.3	% 63.6-15	4						

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alex & Keine



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220

Fax To:

(505) 887-7473

Received: Reported: 12/17/2013

12/27/2013

Project Name:

PLU PC 17 FED #1

Project Number: Project Location: NOT GIVEN NOT GIVEN Sampling Date:

12/17/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SP2 @ SURFACE (H303057-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	12/21/2013	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	56.0	50.0	12/22/2013	ND	190	95.2	200	1.98	
DRO >C10-C28	14600	50.0	12/22/2013	ND	193	96.6	200	1.57	
EXT DRO >C28-C35	3540	50.0	12/22/2013	ND					
Surrogate: 1-Chlorooctane	135	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	534	% 63.6-15	4						

Sample ID: SP2 @ 2 (H303057-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	12/21/2013	ND	400	100	400	7.69	
TPH 8015M	mg_	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/22/2013	ND	190	95.2	200	1.98	
DRO >C10-C28	35.8	10.0	12/22/2013	ND	193	96.6	200	1.57	
EXT DRO >C28-C35	38.7	10.0	12/22/2013	ND					
Surrogate: 1-Chlorooctane	105	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	104	% 63.6-15	4						

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alex & Kuna



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Received:

12/17/2013

Reported:

12/27/2013

Project Name:

PLU PC 17 FED #1

Project Number: Project Location: NOT GIVEN NOT GIVEN Sampling Date:

12/17/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SP2 @ 3 (H303057-06)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	12/21/2013	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/22/2013	ND	190	95.2	200	1.98	
DRO >C10-C28	12.1	10.0	12/22/2013	ND	193	96.6	200	1.57	
EXT DRO >C28-C35	<10.0	10.0	12/22/2013	ND					
Surrogate: 1-Chlorooctane	99.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	99.8	% 63.6-15	4						

Sample ID: SP3 @ SURFACE (H303057-07)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	12/21/2013	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	12/22/2013	ND	190	95.2	200	1.98	
DRO >C10-C28	14900	50.0	12/22/2013	ND	193	96.6	200	1.57	
EXT DRO >C28-C35	3450	50.0	12/22/2013	ND					
Surrogate: 1-Chlorooctane	108 9	% 65.2-14	0		_	-	-		
Surrogate: 1-Chlorooctadecane	568	% 63.6-15	4						

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Celey & Keens



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220 Fax To: (505) 887-7473

Received:

12/17/2013

Reported:

12/27/2013

Project Name:

PLU PC 17 FED #1

Project Number: Project Location: NOT GIVEN NOT GIVEN Sampling Date:

12/17/2013

Sampling Type:

Sampling Condition:

Soil Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SP3 @ 2 (H303057-08)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: CK

		79		,				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	12/23/2013	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: ms		_		<u>.</u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/22/2013	ND	190	95.2	200	1.98	
DRO >C10-C28	15.1	10.0	12/22/2013	NĐ	193	96.6	200	1.57	
EXT DRO >C28-C35	30.4	10.0	12/22/2013	ND					
Surrogate: 1-Chlorooctane	103	% 65.2-14	10	_		_			
Surrogate: 1-Chlorooctadecane	104	% 63 6-15	4						

Surrogate: 1-Chlorooctadecane

Sample ID: SP3 @ 3 (H303057-09)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	12/23/2013	ND	416	104	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	12/22/2013	ND	190	95.2	200	1.98	
DRO >C10-C28	<10.0	10.0	12/22/2013	ND	193	96.6	200	1.57	
EXT DRO >C28-C35	<10.0	10.0	12/22/2013	ND					
Surrogate: 1-Chlorooctane	98.2	% 65.2-14	0			······································	···		
Surrogate: 1-Chlorooctadecane	95.1	% 63.6-15	4						

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Celey & Keens



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220

Fax To:

(505) 887-7473

Received:

12/17/2013

Reported:

12/27/2013

Project Name:

PLU PC 17 FED #1

Project Number: Project Location: NOT GIVEN

Sampling Date:

12/17/2013

Sampling Type:

Sampling Condition:

Soil

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SP4 @ SURFACE (H303057-10)

Chloride, SM4500CI-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	12/23/2013	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: ms				<u> </u>	S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	12/22/2013	ND	190	95.2	200	1.98	
DRO >C10-C28	8010	50.0	12/22/2013	ND	193	96.6	200	1.57	
EXT DRO >C28-C35	2760	50.0	12/22/2013	ND					
Surrogate: 1-Chlorooctane	99.0	% 65.2-14	0	.,					
Surrogate: 1-Chlorooctadecane	317	% 63.6-15	4						

Sample ID: SP4 @ 1 (H303057-11)

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	416	104	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	748	10.0	12/22/2013	ND	190	95,2	200	1.98	
DRO >C10-C28	4660	10.0	12/22/2013	ND	193	96.6	200	1.57	
EXT DRO >C28-C35	615	10.0	12/22/2013	ND					
Surrogate: 1-Chlorooctane	180	% 65.2-14	0	*				_	
Surrogate: 1-Chlorooctadecane	151	% 63.6-15	4						

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Celly & Kuns



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Fax To:

(505) 887-7473

Received:

12/17/2013

Reported:

12/27/2013

Project Name:

PLU PC 17 FED #1

Project Number: Project Location:

NOT GIVEN

NOT GIVEN

Sampling Date:

12/17/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SP5 @ SURFACE (H303057-12)

Chloride, SM4500CI-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	12/23/2013	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	12/22/2013	ND	190	95.2	200	1.98	
DRO >C10-C28	7140	50.0	12/22/2013	ND	193	96.6	200	1.57	
EXT DRO >C28-C35	2800	50.0	12/22/2013	ND					
Surrogate: 1-Chlorooctane	96.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	272	% 63.6-15	4						

Sample ID: SP5 @ 1 (H303057-13)

			d By: CK		·			
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
304	16.0	12/23/2013	ND	416	104	400	3.92	
mg,	/kg	Analyze	d By: ms					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	12/22/2013	ND	190	95.2	200	1.98	
11.1	10.0	12/22/2013	ND	193	96.6	200	1.57	
29.5	10.0	12/22/2013	ND					
101	% 65.2-14	0						
101	% 63.6-15-	4						
	304 mg/ Result <10.0 11.1 29.5	304 16.0 mg/kg Result Reporting Limit <10.0 10.0 11.1 10.0 29.5 10.0 101% 65.2-140	304 16.0 12/23/2013 mg/kg Analyze Result Reporting Limit Analyzed <10.0	304 16.0 12/23/2013 ND mg/kg Analyzed By: ms Result Reporting Limit Analyzed Method Blank <10.0	304 16.0 12/23/2013 ND 416 mg/kg Analyzed By: ms Result Reporting Limit Analyzed Method Blank BS <10.0	304 16.0 12/23/2013 ND 416 104 mg/kg Analyzed By: ms Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	304 16.0 12/23/2013 ND 416 104 400 mg/kg Analyzed By: ms Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	304 16.0 12/23/2013 ND 416 104 400 3.92 mg/kg Analyzed By: ms Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

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alex to Kens



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220

Fax To:

(505) 887-7473

Received:

12/17/2013

Reported:

12/27/2013

Project Name:

PLU PC 17 FED #1

Project Number: Project Location:

NOT GIVEN

Sampling Date:

12/17/2013

Sampling Type:

Sampling Condition:

Soil Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SP6 @ SURFACE (H303057-14)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/23/2013	ND	416	104	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	12/22/2013	ND	190	95.2	200	1.98	
DRO >C10-C28	10.1	10.0	12/22/2013	ND	193	96.6	200	1.57	
EXT DRO >C28-C35	10.1	10.0	12/22/2013	ND					
Surrogate: 1-Chlorooctane	102	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	101	% 63.6-15	4						

Sample ID: SP7@ SURFACE (H303057-15)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CK	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/23/2013	ND	416	104	400	3.92	
ТРН 8015М	mg,	/kg	Analyze	d By: ms		<u> </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/22/2013	ND	190	95.2	200	1.98	
DRO >C10-C28	<10.0	10.0	12/22/2013	ND	193	96.6	200	1.57	
EXT DRO >C28-C35	<10.0	10.0	12/22/2013	ND					
Surrogate: 1-Chlorooctane	101	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	100	% 63.6-15	4						

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Celey & Keene



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.

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

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

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Celeg & Kuna



Company Name:

1057

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

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

r roject manager	i day wall		P.O. W.	4
Address:	t en en en en en en en en en en en en en		Company: 60 (0	
City:	State:	Zip:	Attn: 1017	
Phone #:	Fax #:	e e a ser man e sa ser a e sa e se Address:		
Project#:	Project Owner	;	City:	
Project Name:	2.L.V. 2017 For	#(State: Zip:	1 🖄
Project Location	· ·	N 11 - 7 1 - 20 11 - 12 14 14 14 14 14 14 14 14 14 14 14 14 14	Phone #:	
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FOR LAS USE ONLY	U U	MATRIX	PRESERV. SAMPLING	13)
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER. ACID/BASE OTHER. ACID/BASE OTHER. ACID/BASE AC	Chlosic TO H TO H TO H
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9	Stiff Stiffer	ζ, χ ζ, χ	04:3/K1-71-3/ X	
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39	5 83613	6 7	X 12-17-13 1:08	
10	3 4 6 GV 180/e	4 X	X 13-12-13 1:05	
PLEASE NOTE: Cability and analyses All claims included	d Damages. Cardinate liability and clients evolutive remedy for a to those for nectioence and aris retion cause whatsoever shall be	av claim arising whether based in contra-	raction ton, atiall be lended to the amount pacifiby the client to	or the
service in no event shall Callabilities or successors ansing	sromal be liable for incidental or consequental damages, including for 60 of or related to the performance of securing brevious by	without bristation business interruptions	ns, loss of use, or loss of profits incurred by clear, its subada into a based since any of the above stated become or otherwi-	danes.
Relinquished By	Date:	Received By:	f Phone Re	esult:
Minist	623M+2 Time 210	Line hand	Fax Resu REMARK	STEX ONLY FOI highest
₩ \Q\\ Relinquished By		Reggived RO:		"Run BTEX Only For highest
1 ×	1 0 12/17/10		acula Saw	17th of TRH at 3. Contofall)
Jame	W. 1.15	Wall		saltar G Rass Pal
Delivered By:	(Circle One)	Sample Condi	dition CHECKED BY:	VALLE DAY 104 (CM)
Sampler - UPS	- Bus - Other:	Cool Intact Cool Intact No No No	No COU H	Ruth @ Diwist Pied FSI. Com
† Cardinal o	cannot accept verbal changes. Please	e fax written changes to	o (575) 393-2326	

BILL TO



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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service to no event shall Cr affiliates or successors areas	ardinal be hable for incidental or consequental damages, including out of or related to the performance of services hereunder by	g introut Emilation, busine Cardinal regardless of wh	ss internutions to ether such claim is	iss of use, or loss of pr based upon any of the	offs incurred by chent its subsidial above stated reasons or otherwise.	aries se.								
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† Cardinal	cannot accept verbal changes. Pleas	e fax written ch	#54	SBN 393-282		_	eparaman in the Mayor I al		-					



January 09, 2014

JODY WALTERS

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: PLU PC 17 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 01/03/14 14:10.

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/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

Lab Director/Quality Manager



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220

Fax To:

(505) 887-7473

Received:

01/03/2014

Reported:

01/09/2014

Project Name:

PLU PC 17 FED #1

Project Number: Project Location:

NOT GIVEN EDDY COUNTY, NM Sampling Date:

01/03/2014

Sampling Type:

Soil Cool & Intact

Sampling Condition: Sample Received By:

Celey D. Keene

Sample ID: SP 4 @ 2' (H400020-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2014	ND	2.10	105	2.00	1.72	
Toluene*	<0.050	0.050	01/08/2014	ND	2.10	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	01/08/2014	ND	2.16	108	2.00	1.93	
Total Xylenes*	<0.150	0.150	01/08/2014	ND	6.23	104	6.00	0.713	
Total BTEX	<0.300	0.300	01/08/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 %	6 89.4-12	6						
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	01/06/2014	ND	212	106	200	3.32	
DRO >C10-C28	<10.0	10.0	01/06/2014	ND	207	103	200	2.78	
EXT DRO >C28-C35	<10.0	10.0	01/06/2014	ND					
Surrogate: 1-Chlorooctane	96.9 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	90.9 %	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Uability 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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 daim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full written approval of Cardinal Laboratones.

alex there



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220

Fax To:

(505) 887-7473

Received:

01/03/2014

Reported:

01/09/2014

Project Name:

PLU PC 17 FED #1

Project Number:

NOT GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

01/03/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SP 4 @ 4' (H400020-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2014	ND	2.10	105	2.00	1.72	
Toluene*	<0.050	0.050	01/08/2014	ND	2.10	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	01/08/2014	ND	2.16	108	2.00	1.93	
Total Xylenes*	<0.150	0.150	01/08/2014	ND	6.23	104	6.00	0.713	
Total BTEX	<0.300	0.300	01/08/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 89.4-12	6						
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	01/06/2014	ND	212	106	200	3.32	
DRO >C10-C28	<10.0	10.0	01/06/2014	ND	207	103	200	2.78	
EXT DRO >C28-C35	<10.0	10.0	01/06/2014	ND					
Surrogate: 1-Chlorooctane	101 %	65.2-14	0	···		-			
Surrogate: 1-Chlorooctadecane	93.9	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celley & Keens



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

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

Cardinal Laboratories

*=Accredited Analyte

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 whatsoever shall be deemed waved unless made in writing and received by Cardinal within thirty (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 claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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[†] Cardinal cannot accept verbal changes. Please fax written changas to (೯೭೮) ವಿ3-8328



February 07, 2014

JODY WALTERS

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: PLU PC 17 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 02/05/14 16:37.

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/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.

Celly & Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220

Fax To:

(505) 887-7473

Received:

02/05/2014

Reported:

02/07/2014

Project Name:

PLU PC 17 FED #1

Project Number: Project Location:

NOT GIVEN EDDY COUNTY, NM Sampling Date:

02/05/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: WEST SIDE OF PILE (H400369-01)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	02/07/2014	ND	416	104	400	3.92	
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	02/06/2014	ND	201	100	200	2.25	
DRO >C10-C28	698	10.0	02/06/2014	ND	194	97.0	200	1.81	
EXT DRO >C28-C35	201	10.0	02/06/2014	ND					
Surrogate: 1-Chlorooctane	97.2	% 65.2-14	0				31,000		
Surrogate: 1-Chlorooctadecane	115	% 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 whistoevers shall be deemed waived unless made in writing and received by Cardinal within thirty (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 report shall not be reproduced except in full with writen approval of Cardinal Laboratories.

Celey & Keens



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

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

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, 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 whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 subsidiances, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Bor Co										BILL TO P.O. #:											ANALYSIS REQUEST								
Project Manager: Jody Walters																	T	T				1							
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[†] Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



February 14, 2014

JODY WALTERS

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: PLU PC 17 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 02/13/14 8:00.

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/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.

aleg & Frence

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Bass Enterprises
JODY WALTERS
522 W. Mermod #709
Carlsbad NM, 88220
Fax To: (505) 887-7473

02/13/2014

NOT GIVEN

Reported: 02/14/2014

Received:

Project Number:

Project Name: PLU PC 17 FED #1

Project Location: EDDY COUNTY, NM

Sampling Date:

02/12/2014

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

Celey D. Keene

Sample ID: COMPOSITE #1 (H400433-01)

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	02/13/2014	ND	416	104	400	0.00	
ТРН 8015М	mg.	/kg	Analyze	d Bγ: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/13/2014	ND	198	98.9	200	12.2	
DRO >C10-C28	<10.0	10.0	02/13/2014	ND	195	97.5	200	9.27	
EXT DRO >C28-C35	<10.0	10.0	02/13/2014	ND					
Surrogate: 1-Chlorooctane	106	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	105	% 63.6-15	4						

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, 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 whistoever shall be deemed waved unless made in winting and received by Cardinal within thirty (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 claims; is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with writen approval of Cardinal Laboratones.

Celeg & Keena

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

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

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Celeg T. Keens



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	: 80160		BILL TO ANALYSIS REQUEST											
Project Manager	· BOPCO	The state of the s	P.O. #:											
Address:			Company: Bopc o											
City:	State:	Zip:	Attn: TONY											
Phone #:	Fax #:		Address:											
Project #:	Project Owne	r:	City:											
Project Name:	DEU PC 17 fediti		State: Zip:											
Project Location			Phone #:											
Sampler Name:	Lanox Crengha		Fax #:											
FOR LAB USE ONLY	Sample I.D.	S)RAB OR (C)OMP. CONTAINERS ROUNDWATER ASTEWATER OIL IL LUDGE	PRESERV SAMPLING	8015										
H400433-	Composite #1	# CONTAINE # CONTAINE GROUNDWA WASTEWATE SOIL OIL 'SLUDGE	OTHER OTHER OTHER OTHER OTHER	C 3.										
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analyses. All claims, include sociate. In no event shall Coalifiates or successors arise	nd Danages. Carainal's habitir and crient's exclusive remedy for ing those for negligance and any other dusin whatherwise habities admind be habite for incredintal or consequential damages. Industria nd out of or related to the performance of services hereunder by '	any olgani ereing whether based in contrad denined waved unless in ode in writing air g Without kinsty on i business, interruptions, Deninal, regardless of Whether such claim	Into shall be limited to the amount paid by the chert to discorting by Cardinal within 30 days after completion of Justic of tush or loss of profess incurred by chart, as subsets as hazed uning an all the above stated reasons or otherw	rae.										
Relinquished By Relinquished By Delivered By:	Date: 2/3.14 Time: 32/ Date: 2:13:14 Time: 9:00	Received By: Received By: Sample Condition Cool Intact Pyes Bye	Phone Re Fax Resu REMARK (a (a) No. (b) CHECKED BY:											



February 17, 2014

JODY WALTERS

Bass Enterprises

522 W. Mermod #709

Carlsbad, NM 88220

RE: PLU PIERCE CANYON 17 FED #1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/14/14 15:25.

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.

With South

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,

Mike Snyder

Organic Supervisor



Analytical Results For:

Bass Enterprises JODY WALTERS 522 W. Mermod #709 Carlsbad NM, 88220 Fax To: (505) 887-7473

Received:

02/14/2014

Sampling Date:

02/14/2014

Reported:

02/17/2014

Sampling Type:

Soil

Project Name:

PLU PIERCE CANYON 17 FED #1 BATTEF

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: STOCKPILE #2 (H400458-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2014	ND	2.30	115	2.00	4.42	
Toluene*	<0.050	0.050	02/17/2014	ND	2.26	113	2.00	3.72	
Ethylbenzene*	<0.050	0.050	02/17/2014	ND	2.26	113	2.00	4.50	
Total Xylenes*	<0.150	0.150	02/17/2014	ND	6.55	109	6.00	4.12	
Total BTEX	<0.300	0.300	02/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 89.4-12	6		7.0				
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/17/2014	ND	416	104	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	02/14/2014	ND	193	96.6	200	1.28	
DRO >C10-C28	405	10.0	02/14/2014	ND	178	88.9	200	4.42	
EXT DRO >C28-C35	112	10.0	02/14/2014	ND					
Surrogate: 1-Chlorooctane	107 9	% 65.2-14	o						
Surrogate: 1-Chlorooctadecane	116 9	% 63.6-15	4						

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*=Accredited Analyte

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

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

Cardinal Laboratories

*=Accredited Analyte

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www. Sugh

Mike Snyder, Organic Supervisor



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 Fast Mariand Hobbs NM 99240

(5	75) 393-2326 FAX (575) 393-247													_,,,		, ,,	• .								
Company Name:	A DESI									W	ile ju						A۱	IAL	YSIS	3 RE	QUE	ST			
Project Manager:	Amy		7				P.	O. #						T	T										
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Project Name: Pl	LU Pierce Canyon 17 Fed	#1	3	atte	r <u>v</u>		St	ate:			Zip:				İ	ì	1	İ			1				1
Project Location:	EDDY, NM.						PI	one	#:				:										İ		l
Sampler Name: G	enieva	٠.					Fax #:							\ \	\			. 1		ĺ	1		1	'	
FOR LAB USE ONLY					MAT	RIX	. T	PR	ESEF	₹₹	SAMPL	NG	2					ļ				İ			
Lab I.D. H400458	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	OTHER:	ACID/BASE:	ICE / COOL	отнек :	DATE	TUAE .	ROISM	مامام	0 11511	こうなく									
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† Cardinal cannot accept verbal changes. Places នៃរ មកដែនក

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

Appendix VI

FINAL FORM C-141

Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

NM OIL CONSERVATION

ARTESIA DISTRICT

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

SEP 2 2 2014

Form C-141 Revised August 8, 2011

Submit I Copy to appropriate District Office in RECEINGORANC.

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

Release Notification and Corrective Action																	
						OPERA'	Final Report										
Name of Co	mpany: Bo	OPCO, L.P.				Contact: To	ny Savoie			l Report							
				oad, N.M. 88220)	Telephone No. 575-887-7329											
Facility Na	ne: PLU P	eirce Canyon (2RP-1266		eral #1H		Facility Type: Exploration and Production											
Surface Ow	ner: Feder	al		Mineral C	Owner:	Federal			API No.	30-015-3	6635						
				LOCA	ATIO	ON OF RELEASE											
Unit Letter P	Section 17	Township 25S	Range 30E	Feet from the 350	North	/South Line uth	Feet from the 350	East/We East	est Line	County Eddy							
Latitude N 32.123902 Longitude W 103.896282																	
NATURE OF RELEASE																	
Type of Rele							Release: 10 bbls.			lecovered: 1							
Source of Re	lease: A 3"	line going fro	m the pro	cess vessels to the	e tanks.		Hour of Occurrence proximately 12:0			Hour of Dis 2:20 p.m.	covery	:					
Was Immedi	ate Notice (Given?				If YES, To	Whom?				-						
		\boxtimes	Yes [No Not R	equired												
By Whom? 7						Date and Hour: 7/31/12 2:27 p.m.											
Was a Water	course Reac		Yes [] No		If YES, Vo	olume Impacting t	the Watero	course.								
Describe Cau	If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* A 3" line going from the heater to the tanks split at a seam in the pipe. The entire section of pipe was replaced.																
The split was distance of 3 frak pond use area will be 1 DFSI was re the Site Clos	s on top of the control of the contr	he release poie drilling open n accordance OPCO, L.P. d dated 6/17/14	leased fluint. The verations. The to the NM luring a factor.	id misted an area getation had a venter reclaimed area locD and BLM gime frame of 12/2	ry sligh measur guidelin 2/13 to 2	at mist out to a ed approxima es. 2/18/14, appro	ely 36,000 sq.ft. total distance of tely 375 ft. East be eximately 60 cubic	420 ft. Th y West an	e area affe id 510 ft. I	ected appea North by Sc hauled to L	rs to ha outh. Ti	ave been a ne affected nd. Reference					
regulations a public health should their or or the environ	Il operators or the envir operations h nment. In a	are required to onment. The ave failed to a	o report ar acceptance adequately OCD accep	nd/or file certain in the ce of a C-141 report investigate and r	elease i ort by th emedia	notifications and NMOCD mate contamination	knowledge and und perform correct arked as "Final R ion that pose a three the operator of	tive action eport" doc eat to gro	ns for rele es not relic und water	eases which eve the ope , surface wa	may en rator of ter, hu	ndanger f liability man health					
							OIL CON:	SERVA	TION	DIVISIO)N						
Signature:	Tog	Sauco		- W		Annroyed	Environmental S										
Printed Name	e: Tony Sav	oie				Approved by											
Title: Waste	Managemen	t and Remedi	ation Spec	cialist		Approval Da	te:	Ex	epiration I	Date:							
E-mail Addre	ess: tasavoie	@basspet.cor	n			Conditions o	f Approval:			Attached							

Phone: 432-556-8730

^{*} Attach Additional Sheets If Necessary