

# ***ENVIRONMENTAL PLUS, INC.***

2100 AVE 'O'  
P.O. BOX 1558  
EUNICE, NM 88231  
[ddominguezepi@gmail.com](mailto:ddominguezepi@gmail.com)  
Office: (575)394-3481 Fax: (575)394-2601



## **CLOSURE REPORT**

**BOPCO, L.P.  
PLU CVX JV PC #019H  
Eddy County, New Mexico  
Unit Letter "B", Section 21, Township 24 South, Range 30 East  
Latitude 32.210641 North, Longitude 103.885696 West  
NMOCD Reference #2RP-3270**

Prepared For:

**BOPCO, L.P.  
522 W. Mermod, Suite 704  
Carlsbad, New Mexico 88220**

Prepared By:

**Environmental Plus, Inc.  
2100 Ave 'O'  
Eunice, NM 88231**

**January 2016**

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**Daniel Dominguez  
Project Manager**



11 January 2016

Ms. Heather Patterson  
Environmental Specialist  
NMOCD  
811 S. First St.  
Artesia, New Mexico 88210

RE: Final Closure Report  
Bopco – PLU CVX JV PC #019H  
UL-B, Section 21, Township 24 South, Range 30 East  
Eddy County, New Mexico  
NMOCD Reference # 2RP 3270

Ms. Patterson:

The following *Final Closure Report* serves as a condensed update on closure activities for the above referenced Site.

**Background Information:**

A leak was discovered on a four inch suction hose during high pressure pumping activities; leak was estimated to be 12 barrels NEFE HCL. Soda ash was placed over the release area to neutralize the acid. A second release occurred when a frac tank containing gel water ran over, releasing 40 barrels of gel water to the ground surface. A vacuum truck was called and recovered 35 barrels of the gel water.

**Remediation Activities:**

EPI personnel mobilized on the site on September 25, 2015 to collect soil samples to determine the vertical extent of contamination. A total of twenty (20) soil samples were collected from six (6) sample locations; SP1 – SP6. Twelve (12) representative samples were sent to Cardinal Labs in Hobbs, New Mexico, for testing. Laboratory analytical results indicate, with the exception of SP1, SP4 and SP5 at surface level, the release area is void of Benzene, BTEX, TPH and Chloride concentrations in excess of NMOCD Recommended Remedial Action Levels (RRALs) of 10 mg/Kg, 50 mg/Kg, 5,000 mg/Kg, and 1,000 mg/Kg, respectively (reference *Figure 3* and *Table 2*).

The release area was excavated to a depth of approximately six (6) inches bgs. Approximately 36 tons of contaminated soil were excavated and hauled to a state approved facility for disposal.

**Closure Activities:**

Based on laboratory analytical results and with NMOCD approval the excavation was backfilled with approximately 36 tons of clean soil. All soil was free of rocks, clumps or deleterious material. The entire disturbed area was then contoured to blend with existing well pad area and protected against wind/water erosion.



Should you have any questions or concerns please feel free to contact me at (575) 394-3481 or via e-mail at [ddominguezepi@gmail.com](mailto:ddominguezepi@gmail.com) or Mr. Brad Blevins at (432) 214-3704 or via e-mail at [bblevins@basspet.com](mailto:bblevins@basspet.com). All official communication should be addressed to:

Mr. Brad Blevins  
Bopco, L.P.  
522 W. Mermond, Suite 704  
Carlsbad, NM 88220

Sincerely,

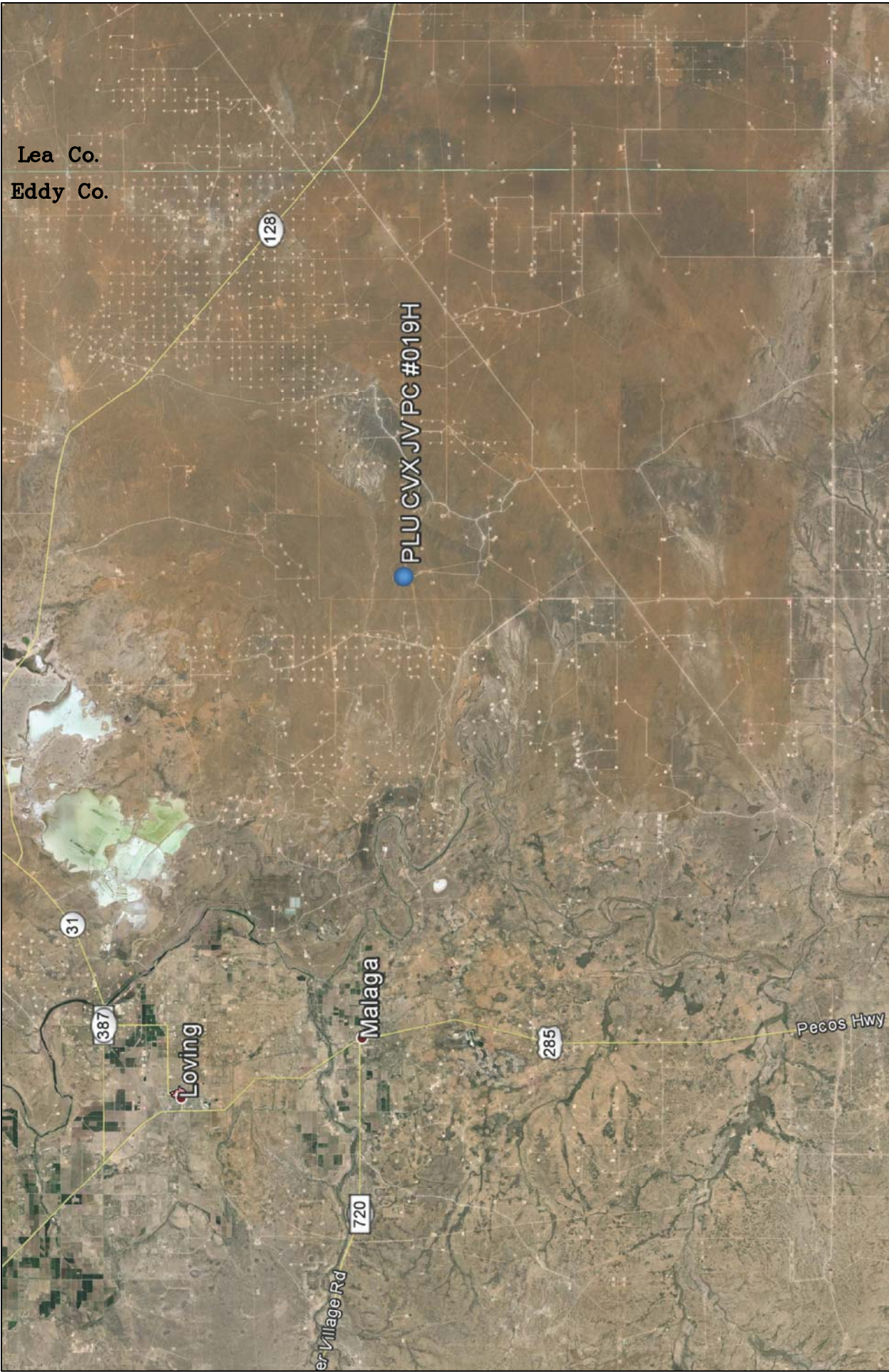
ENVIRONMENTAL PLUS, INC.

Daniel Dominguez  
Environmental Consultant

cc: Brad Blevins, EHS Asst. Remediation Foreman – Bopco, L.P.  
Tony Savoie, Remediation Foreman – Bopco, L.P. 1(432)556-8730  
File

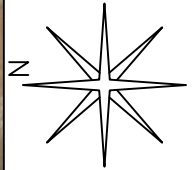
Encl.: Figure 1 – Area Map  
Figure 2 – Site Location Map  
Figure 3 – Site/Sample Map  
Table 2 – Summary of Soil Sample Field Testing and Laboratory Analytical Results  
Attachment I – Photographs  
Attachment II – Laboratory Analytical Results  
Attachment III – Copy of Initial NMOCD Form C-141, Final C-141

## FIGURES



Lea Co.  
Eddy Co.

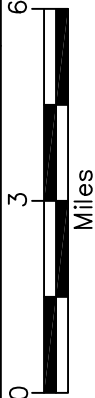
PLU CVX JV PC #019H



REVISED:

DWG By: D Dominguez  
January 2016

SHEET  
1 of 1



Eddy County, New Mexico  
NW 1/4 of NE 1/4, Sec. 21, T24S, R30E  
N 32° 12' 38.29" W 103° 53' 8.53"  
Elevation: 3,358 feet amsl

Figure 1  
Area Map  
Bopco, L.P.  
PLU CVX JV PC #019H



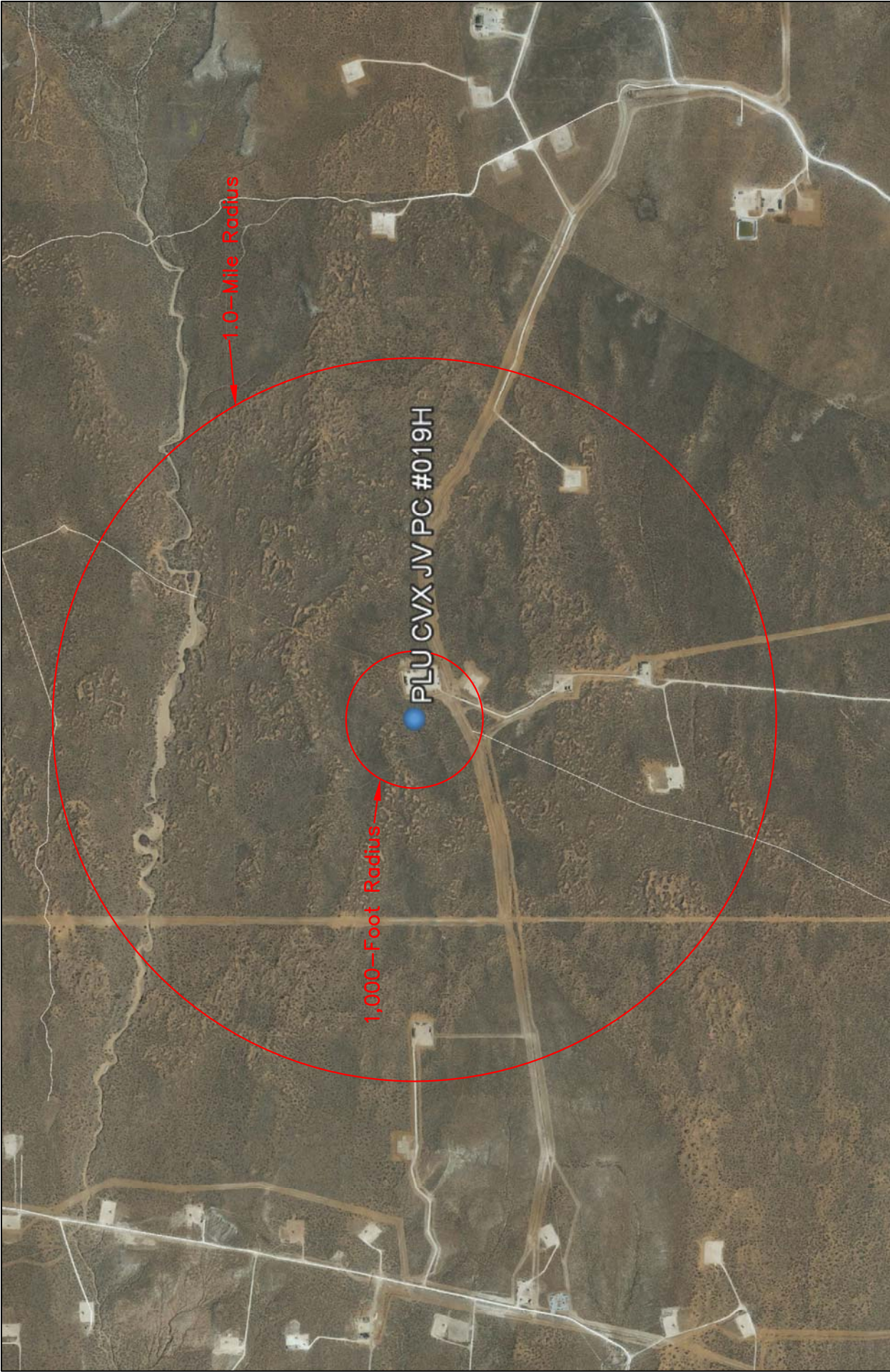
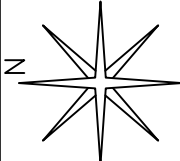

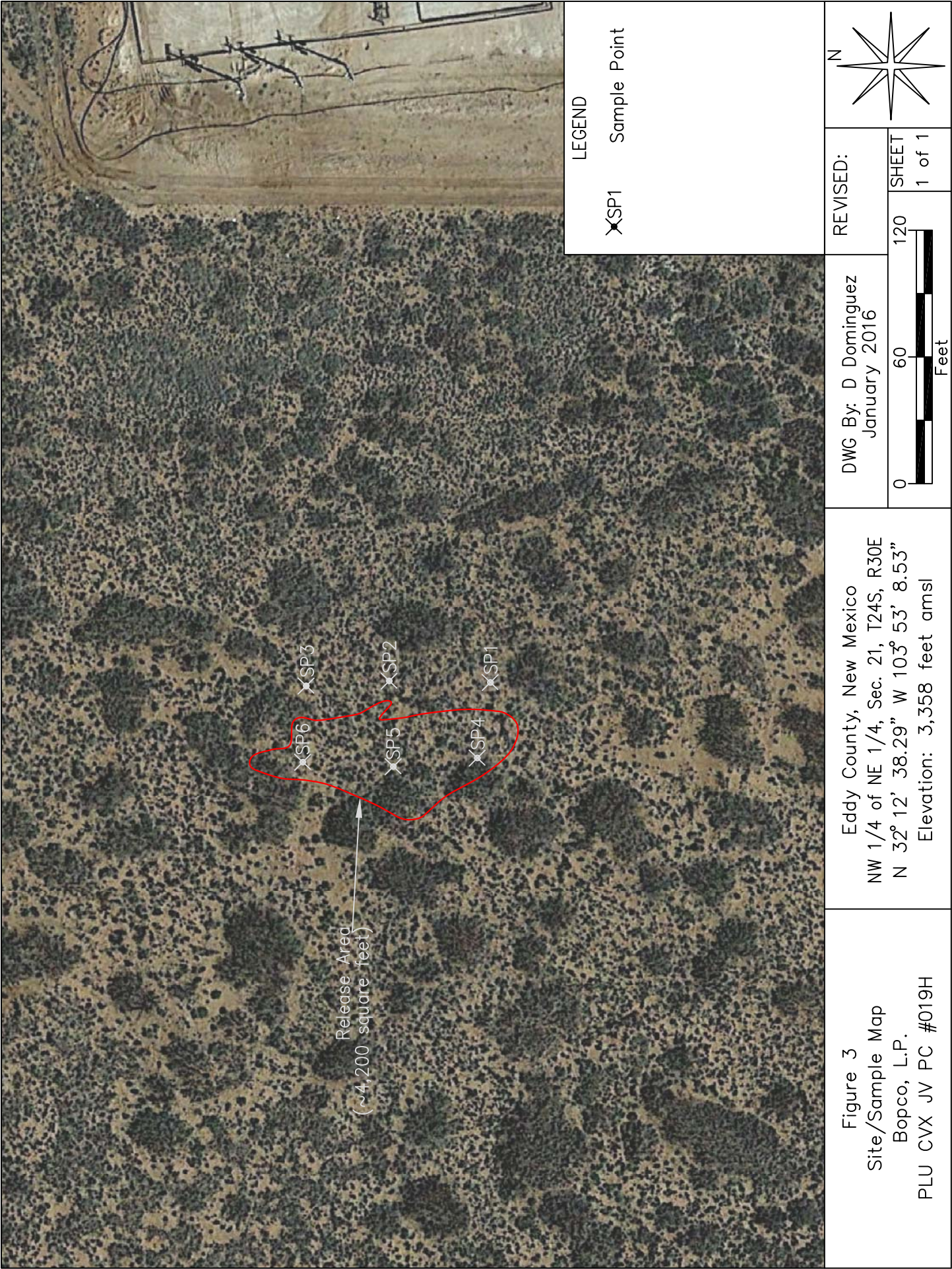


Figure 2 Site Location Map Bopco, L.P. PLU CVX JV PC #019H	Eddy County, New Mexico NW 1/4 of NE 1/4, Sec. 21, T24S, R30E N 32° 12' 38.29" W 103° 53' 8.53" Elevation: 3,358 feet amsl		DWG By: D Dominguez January 2016	REVISED:		
			0	4,000		SHEET
			 0 2,000 4,000 Feet			1 of 1





## **TABLES**



**TABLE 2**  
**Summary of Soil Sample Field Testing and Laboratory Analytical Results**  
**Bopco, L.P.**  
**PLU-CVX-JV-PC #019H**

Lab Sample ID	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	EXT DRO C28-C35 (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
SP1	Surface	Excavated	25-Sep-15	0.5	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	4,960	4,640	9,600	432
	1	In Situ	25-Sep-15	0.1	80	--	--	--	--	--	--	--	--	--	--
	2	In Situ	25-Sep-15	0.0	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0
	3	In Situ	25-Sep-15	0.0	80	--	--	--	--	--	--	--	--	--	--
SP2	Surface	Excavated	25-Sep-15	0.1	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	48
	1	In Situ	25-Sep-15	0.0	80	--	--	--	--	--	--	--	--	--	--
	2	In Situ	25-Sep-15	0.0	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0
SP3	Surface	Excavated	25-Sep-15	0.4	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	160
	1	In Situ	25-Sep-15	0.0	80	--	--	--	--	--	--	--	--	--	--
	2	In Situ	25-Sep-15	0.0	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0
SP4	Surface	Excavated	25-Sep-15	136	>4,000	<0.050	0.134	0.677	3.12	3.94	263	14,300	115	14,678	11,500
	1	In Situ	25-Sep-15	3.6	120	--	--	--	--	--	--	--	--	--	--
	2	In Situ	25-Sep-15	2.0	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0
SP5	Surface	Excavated	25-Sep-15	5.9	1,280	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	31.0	31.0	2,120
	1	In Situ	25-Sep-15	5.7	>4,00	--	--	--	--	--	--	--	--	--	--
	2	In Situ	25-Sep-15	3.2	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
SP6	Surface	Excavated	25-Sep-15	5.5	400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	496
	1	In Situ	25-Sep-15	6.0	480	--	--	--	--	--	--	--	--	--	--
	2	In Situ	25-Sep-15	1.4	400	--	--	--	--	--	--	--	--	--	--
	3	In Situ	25-Sep-15	0.4	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0
NMOCD Recommended Remedial Action Levels				100		10				50				5,000	1,000

-- = Not Analyzed  
**Red** values are in excess of NMOCD Recommended Remedial Action Levels  
 Shaded values indicates soil has been excavated

## **ATTACHMENTS**



**ATTACHMENT I**  
**Photographs**



Photograph #1 – Looking across release area



Photograph #2 – Looking across release area





Photograph #3 – Excavated



Photograph #4 – Excavated



Photograph #5 – Backfilled



Photograph #6 – Backfilled



**ATTACHMENT II**  
**Laboratory Analytical Results**



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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October 01, 2015

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: PLU PC #019 H

Enclosed are the results of analyses for samples received by the laboratory on 09/25/15 16:34.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

Environmental Plus, Inc.  
Daniel Dominguez  
P.O. Box 1558  
Eunice NM, 88231  
Fax To: (505) 394-2601

Received: 09/25/2015  
Reported: 10/01/2015  
Project Name: PLU PC #019 H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/25/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 (SURFACE) (H502560-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2015	ND	2.09	105	2.00	1.94	
Toluene*	<0.050	0.050	09/29/2015	ND	1.79	89.4	2.00	1.29	
Ethylbenzene*	<0.050	0.050	09/29/2015	ND	1.73	86.7	2.00	0.686	
Total Xylenes*	<0.150	0.150	09/29/2015	ND	5.40	90.0	6.00	0.480	
Total BTX	<0.300	0.300	09/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	09/30/2015	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	09/29/2015	ND	167	83.4	200	1.12	
DRO >C10-C28	4960	10.0	09/29/2015	ND	184	92.0	200	0.108	
EXT DRO >C28-C35	4640	10.0	09/29/2015	ND					

Surrogate: 1-Chlorooctane 70.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 95.6 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

Environmental Plus, Inc.  
Daniel Dominguez  
P.O. Box 1558  
Eunice NM, 88231  
Fax To: (505) 394-2601

Received: 09/25/2015  
Reported: 10/01/2015  
Project Name: PLU PC #019 H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/25/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 (2') (H502560-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2015	ND	2.09	105	2.00	1.94	
Toluene*	<0.050	0.050	09/29/2015	ND	1.79	89.4	2.00	1.29	
Ethylbenzene*	<0.050	0.050	09/29/2015	ND	1.73	86.7	2.00	0.686	
Total Xylenes*	<0.150	0.150	09/29/2015	ND	5.40	90.0	6.00	0.480	
Total BTEX	<0.300	0.300	09/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 85.6-137

Chloride, SM4500Cl-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	09/30/2015	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	09/28/2015	ND	167	83.4	200	12.7	
DRO >C10-C28	<10.0	10.0	09/28/2015	ND	178	88.9	200	20.0	
EXT DRO >C28-C35	<10.0	10.0	09/28/2015	ND					

Surrogate: 1-Chlorooctane 115 % 47.2-157

Surrogate: 1-Chlorooctadecane 133 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Environmental Plus, Inc.  
Daniel Dominguez  
P.O. Box 1558  
Eunice NM, 88231  
Fax To: (505) 394-2601

Received: 09/25/2015  
Reported: 10/01/2015  
Project Name: PLU PC #019 H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/25/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 (SURFACE) (H502560-03)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2015	ND	2.09	105	2.00	1.94	
Toluene*	<0.050	0.050	09/29/2015	ND	1.79	89.4	2.00	1.29	
Ethylbenzene*	<0.050	0.050	09/29/2015	ND	1.73	86.7	2.00	0.686	
Total Xylenes*	<0.150	0.150	09/29/2015	ND	5.40	90.0	6.00	0.480	
Total BTX	<0.300	0.300	09/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/30/2015	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	09/28/2015	ND	167	83.4	200	12.7	
DRO >C10-C28	<10.0	10.0	09/28/2015	ND	178	88.9	200	20.0	
EXT DRO >C28-C35	<10.0	10.0	09/28/2015	ND					

Surrogate: 1-Chlorooctane 94.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 101 % 52.1-176

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Daniel Dominguez  
P.O. Box 1558  
Eunice NM, 88231  
Fax To: (505) 394-2601

Received: 09/25/2015  
Reported: 10/01/2015  
Project Name: PLU PC #019 H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/25/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 (2') (H502560-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2015	ND	2.09	105	2.00	1.94	
Toluene*	<0.050	0.050	09/29/2015	ND	1.79	89.4	2.00	1.29	
Ethylbenzene*	<0.050	0.050	09/29/2015	ND	1.73	86.7	2.00	0.686	
Total Xylenes*	<0.150	0.150	09/29/2015	ND	5.40	90.0	6.00	0.480	
Total BTEX	<0.300	0.300	09/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 85.6-137

Chloride, SM4500Cl-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	09/30/2015	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	09/28/2015	ND	167	83.4	200	12.7	
DRO >C10-C28	<10.0	10.0	09/28/2015	ND	178	88.9	200	20.0	
EXT DRO >C28-C35	<10.0	10.0	09/28/2015	ND					

Surrogate: 1-Chlorooctane 102 % 47.2-157

Surrogate: 1-Chlorooctadecane 113 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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Reported: 10/01/2015  
Project Name: PLU PC #019 H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/25/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 (SURFACE) (H502560-05)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2015	ND	2.09	105	2.00	1.94	
Toluene*	<0.050	0.050	09/29/2015	ND	1.79	89.4	2.00	1.29	
Ethylbenzene*	<0.050	0.050	09/29/2015	ND	1.73	86.7	2.00	0.686	
Total Xylenes*	<0.150	0.150	09/29/2015	ND	5.40	90.0	6.00	0.480	
Total BTX	<0.300	0.300	09/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/30/2015	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	09/28/2015	ND	167	83.4	200	12.7	
DRO >C10-C28	<10.0	10.0	09/28/2015	ND	178	88.9	200	20.0	
EXT DRO >C28-C35	<10.0	10.0	09/28/2015	ND					

Surrogate: 1-Chlorooctane 104 % 47.2-157

Surrogate: 1-Chlorooctadecane 111 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Environmental Plus, Inc.  
Daniel Dominguez  
P.O. Box 1558  
Eunice NM, 88231  
Fax To: (505) 394-2601

Received: 09/25/2015  
Reported: 10/01/2015  
Project Name: PLU PC #019 H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/25/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 (2') (H502560-06)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2015	ND	2.09	105	2.00	1.94		
Toluene*	<0.050	0.050	09/30/2015	ND	1.79	89.4	2.00	1.29		
Ethylbenzene*	<0.050	0.050	09/30/2015	ND	1.73	86.7	2.00	0.686		
Total Xylenes*	<0.150	0.150	09/30/2015	ND	5.40	90.0	6.00	0.480		
Total BTEX	<0.300	0.300	09/30/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 85.6-137

Chloride, SM4500Cl-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	09/30/2015	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	09/28/2015	ND	167	83.4	200	12.7	
DRO >C10-C28	<10.0	10.0	09/28/2015	ND	178	88.9	200	20.0	
EXT DRO >C28-C35	<10.0	10.0	09/28/2015	ND					

Surrogate: 1-Chlorooctane 114 % 47.2-157

Surrogate: 1-Chlorooctadecane 130 % 52.1-176

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

Environmental Plus, Inc.  
Daniel Dominguez  
P.O. Box 1558  
Eunice NM, 88231  
Fax To: (505) 394-2601

Received: 09/25/2015  
Reported: 10/01/2015  
Project Name: PLU PC #019 H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/25/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

### Sample ID: SP 4 (SURFACE) (H502560-07)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	09/30/2015	ND	2.09	105	2.00	1.94	
Toluene*	0.134	0.100	09/30/2015	ND	1.79	89.4	2.00	1.29	
Ethylbenzene*	0.677	0.100	09/30/2015	ND	1.73	86.7	2.00	0.686	
Total Xylenes*	3.12	0.300	09/30/2015	ND	5.40	90.0	6.00	0.480	
Total BTX	3.94	0.600	09/30/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 163 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11500	16.0	09/30/2015	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	263	10.0	09/28/2015	ND	167	83.4	200	12.7	
DRO >C10-C28	14300	10.0	09/28/2015	ND	178	88.9	200	20.0	
EXT DRO >C28-C35	115	10.0	09/28/2015	ND					

Surrogate: 1-Chlorooctane 210 % 47.2-157

Surrogate: 1-Chlorooctadecane 129 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 Environmental Plus, Inc.  
 Daniel Dominguez  
 P.O. Box 1558  
 Eunice NM, 88231  
 Fax To: (505) 394-2601

Received:	09/25/2015	Sampling Date:	09/25/2015
Reported:	10/01/2015	Sampling Type:	Soil
Project Name:	PLU PC #019 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 4 (2') (H502560-08)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2015	ND	2.09	105	2.00	1.94		
Toluene*	<0.050	0.050	09/30/2015	ND	1.79	89.4	2.00	1.29		
Ethylbenzene*	<0.050	0.050	09/30/2015	ND	1.73	86.7	2.00	0.686		
Total Xylenes*	<0.150	0.150	09/30/2015	ND	5.40	90.0	6.00	0.480		
Total BTEx	<0.300	0.300	09/30/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 85.6-137

Chloride, SM4500Cl-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	09/30/2015	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	09/28/2015	ND	167	83.4	200	12.7	
DRO >C10-C28	<10.0	10.0	09/28/2015	ND	178	88.9	200	20.0	
EXT DRO >C28-C35	<10.0	10.0	09/28/2015	ND					

Surrogate: 1-Chlorooctane 111 % 47.2-157

Surrogate: 1-Chlorooctadecane 116 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Environmental Plus, Inc.  
Daniel Dominguez  
P.O. Box 1558  
Eunice NM, 88231  
Fax To: (505) 394-2601

Received: 09/25/2015  
Reported: 10/01/2015  
Project Name: PLU PC #019 H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/25/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 (SURFACE) (H502560-09)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2015	ND	2.09	105	2.00	1.94	
Toluene*	<0.050	0.050	09/30/2015	ND	1.79	89.4	2.00	1.29	
Ethylbenzene*	<0.050	0.050	09/30/2015	ND	1.73	86.7	2.00	0.686	
Total Xylenes*	<0.150	0.150	09/30/2015	ND	5.40	90.0	6.00	0.480	
Total BTEx	<0.300	0.300	09/30/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	09/30/2015	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	09/28/2015	ND	167	83.4	200	12.7	
DRO >C10-C28	31.0	10.0	09/28/2015	ND	178	88.9	200	20.0	
EXT DRO >C28-C35	<10.0	10.0	09/28/2015	ND					

Surrogate: 1-Chlorooctane 122 % 47.2-157

Surrogate: 1-Chlorooctadecane 139 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Environmental Plus, Inc.  
Daniel Dominguez  
P.O. Box 1558  
Eunice NM, 88231  
Fax To: (505) 394-2601

Received: 09/25/2015  
Reported: 10/01/2015  
Project Name: PLU PC #019 H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/25/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 (2') (H502560-10)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2015	ND	2.09	105	2.00	1.94	
Toluene*	<0.050	0.050	09/30/2015	ND	1.79	89.4	2.00	1.29	
Ethylbenzene*	<0.050	0.050	09/30/2015	ND	1.73	86.7	2.00	0.686	
Total Xylenes*	<0.150	0.150	09/30/2015	ND	5.40	90.0	6.00	0.480	
Total BTEX	<0.300	0.300	09/30/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/30/2015	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	09/28/2015	ND	167	83.4	200	12.7	
DRO >C10-C28	<10.0	10.0	09/28/2015	ND	178	88.9	200	20.0	
EXT DRO >C28-C35	<10.0	10.0	09/28/2015	ND					

Surrogate: 1-Chlorooctane 122 % 47.2-157

Surrogate: 1-Chlorooctadecane 142 % 52.1-176

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

Environmental Plus, Inc.  
Daniel Dominguez  
P.O. Box 1558  
Eunice NM, 88231  
Fax To: (505) 394-2601

Received: 09/25/2015  
Reported: 10/01/2015  
Project Name: PLU PC #019 H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/25/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 6 (SURFACE) (H502560-11)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2015	ND	2.09	105	2.00	1.94	
Toluene*	<0.050	0.050	09/30/2015	ND	1.79	89.4	2.00	1.29	
Ethylbenzene*	<0.050	0.050	09/30/2015	ND	1.73	86.7	2.00	0.686	
Total Xylenes*	<0.150	0.150	09/30/2015	ND	5.40	90.0	6.00	0.480	
Total BTEX	<0.300	0.300	09/30/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	09/30/2015	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	09/28/2015	ND	167	83.4	200	12.7	
DRO >C10-C28	<10.0	10.0	09/28/2015	ND	178	88.9	200	20.0	
EXT DRO >C28-C35	<10.0	10.0	09/28/2015	ND					

Surrogate: 1-Chlorooctane 128 % 47.2-157

Surrogate: 1-Chlorooctadecane 144 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

Environmental Plus, Inc.  
Daniel Dominguez  
P.O. Box 1558  
Eunice NM, 88231  
Fax To: (505) 394-2601

Received: 09/25/2015  
Reported: 10/01/2015  
Project Name: PLU PC #019 H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 09/25/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 6 (3') (H502560-12)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2015	ND	2.09	105	2.00	1.94		
Toluene*	<0.050	0.050	09/30/2015	ND	1.79	89.4	2.00	1.29		
Ethylbenzene*	<0.050	0.050	09/30/2015	ND	1.73	86.7	2.00	0.686		
Total Xylenes*	<0.150	0.150	09/30/2015	ND	5.40	90.0	6.00	0.480		
Total BTEX	<0.300	0.300	09/30/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 85.6-137

Chloride, SM4500Cl-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	09/30/2015	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	09/29/2015	ND	169	84.4	200	1.04	
DRO >C10-C28	<10.0	10.0	09/29/2015	ND	177	88.6	200	0.853	
EXT DRO >C28-C35	<10.0	10.0	09/29/2015	ND					

Surrogate: 1-Chlorooctane 80.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 80.6 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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---

Celey D. Keene, Lab Director/Quality Manager



### Chain of Custody Form

LAB Cardinal

Page 15 of 16

54 #





**ATTACHMENT III**  
**Copy of Initial NMOCD Form C-141**  
**Final C-141**

# NM OIL CONSERVATION

ARTESIA DISTRICT

SEP 16 2015

Form C-141  
Revised August 8, 2011

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

**RECEIVED** to appropriate District Office in  
accordance with 19.15.29 NMAC.

## Release Notification and Corrective Action

**NAB1526433985**

### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: BOPCO, L.P. <b>260737</b>	Contact: Bradley Blevins
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: PLU CVX JV PC 19	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner:	API No. 3001542669
------------------------	----------------	--------------------

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	21	24S	30E	25		2410		Eddy

Latitude: 32.210641 Longitude: 103.885696

### NATURE OF RELEASE

Type of Release: Gel Water/ NEFE HCL	Volume of Release: 40 barrels gel water and 12 barrels HCL	Volume Recovered: 35 barrels gel water recovered. Soda Ash/ Acid
Source of Release: A 4 inch suction hose failed/ Gel tank ran over	Date and Hour of Occurrence: 9-11-15 @2:30am	Date and Hour of Discovery: 9-11-15 @3am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Made notification to Mike Bratcher, upon internal notification	
By Whom? Bradley Blevins	Date and Hour: 9-15-15 @ 12:45pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

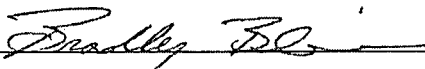
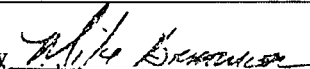
A Leak was discovered on a four inch suction hose during high pressure pumping activities, leak was estimated to be 12 barrels NEFE HCL, Soda ash was placed over the release area to neutralize the acid. A second release occurred when a frac tank containing gel water ran over, releasing 40 barrels of gel water to the ground surface. A vacuum truck was called and recovered 35 barrels.

Describe Area Affected and Cleanup Action Taken.\*

A vacuum truck was called and recovered 35 barrels of the gel water.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

### OIL CONSERVATION DIVISION

Signature: 	Signed By  Approved by Environmental Specialist:	
Printed Name: Bradley Blevins	Approval Date: <b>9/21/15</b>	Expiration Date: <b>N/A</b>
Title: Assistant Remediation Foreman	Conditions of Approval:	
E-mail Address: bblevins@basspet.com	Attached <input type="checkbox"/>	
Date: <b>9-16-15</b> Phone: 432-214-3704	Remediation per O.C.D. Rules & Guidelines	

**SUBMIT REMEDIATION PROPOSAL NO  
LATER THAN: 10/22/15**

**2RP-3270**

\* Attach Additional Sheets If Necessary



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

Form C-141  
Revised August 8, 2011

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

## Release Notification and Corrective Action

### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: BOPCO, L.P.	Contact: Bradley Blevins
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: PLU CVX JV PC #019H; 2RP#3270	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner:	API No. 30-015-42669
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### LOCATION OF RELEASE

Unit Letter B	Section 21	Township 24S	Range 30E	Feet from the 25	North/South Line North	Feet from the 2410	East/West Line East	County Eddy
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Latitude: N 32.210641° Longitude: W 103.885696°

### NATURE OF RELEASE

Type of Release: Gel water/NEFE HCL	Volume of Release: 40 bbls gel water, 12 bbls HCL	Volume Recovered: 35 bbls gel water. Soda ash/ Acid
Source of Release: A 4 inch suction hose failed/ Gel tank ran over	Date and Hour of Occurrence: 9/11/15 @ 2:30 am	Date and Hour of Discovery: 9/11/15 @ 3 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Made notification to Mike Bratcher, upon internal notification	
By Whom? Bradley Blevins	Date and Hour: 9/15/15 @ 12:45 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse: Not Applicable	

If a Watercourse was Impacted, Describe Fully.\* Not Applicable


Describe Cause of Problem and Remedial Action Taken.\*

A Leak was discovered on a four inch suction hose during high pressure pumping activities, leak was estimated to be 12 barrels NEFE HCL, Soda ash was placed over the release area to neutralize the acid. A second release occurred when a frac tank containing gel water ran over, releasing 40 barrels of gel water to the ground surface. A vacuum truck was called and recovered 35 barrels.

Describe Area Affected and Cleanup Action Taken.\*

A vacuum truck was called and recovered 35 barrels of the gel water. Samples were collected, and based on laboratory analytical data and NMOCD approval: the contaminated soil was excavated and hauled to a state approved disposal facility and the excavation backfilled with clean soil.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Bradley Blevins		Approved by Environmental Specialist:	
Title: Assistant Remediation Foreman		Approval Date:	Expiration Date:
E-mail Address: bblevins@basspet.com		Conditions of Approval:	
Date: 1-8-2016 Phone: 432-214-3704		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary