

# ***ENVIRONMENTAL PLUS INC***

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



## **CLOSURE REPORT**

**BOPCO, LP  
POKER LAKE UNIT #89  
Eddy County, New Mexico  
Unit Letter "G", Section 25, Township 24 South, Range 30 East  
Latitude 32.189772 North, Longitude 103.832101 West  
NMOCD Reference #2RP-2369**

Prepared For:

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

Prepared By:

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

**September 2014**

A handwritten signature in black ink, appearing to read 'Daniel Dominguez', is written over a horizontal line.

**Daniel Dominguez  
Project Manager**



8 September 2014

Mr. Mike Bratcher  
Environmental Specialist  
NMOCD  
811 S. First St.  
Artesia, New Mexico 88210

RE: Final Closure Report  
Bopco – Poker Lake Unit #89  
UL-G, Section 25, Township 24 South, Range 30 East  
Eddy County, New Mexico  
NMOCD Reference # 2RP 2369

Mr. Bratcher:

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

**Background Information:**

A ¼” hose connecting the wellhead to the high pressure kill switch was damaged by livestock. The hose was replaced with stainless steel tubing. The spill impacted approximately 4,180 sq. ft. of caliche well pad. The free standing fluid was recovered with a vacuum truck.

**Remediation Activities:**

EPI personnel mobilized on the site on July 18, 2014 to collect soil samples and determine the vertical extent of contamination. A total of eleven (11) soil samples were collected and sent to Cardinal Labs in Hobbs, New Mexico, for testing. Laboratory analytical results indicate the release area contains concentrations of Benzene, BTEX, TPH and Chlorides 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, no deeper than ground surface (reference *Figure 4* and *Table 2*).

On August 9, 2014 approximately 311 cubic yards of contaminated material were excavated and transported to Lea Land for disposal. The release area was excavated approximately six (6) inches bgs, removing constituent contamination above NMOCD RRALs.

**Closure Activities:**

From August 11 - 19, 2014 the excavation was backfilled with approximately 311 cubic yards of caliche and the entire disturbed area was contoured to blend with existing pad to protect 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,

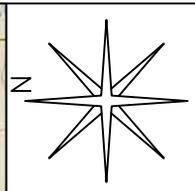
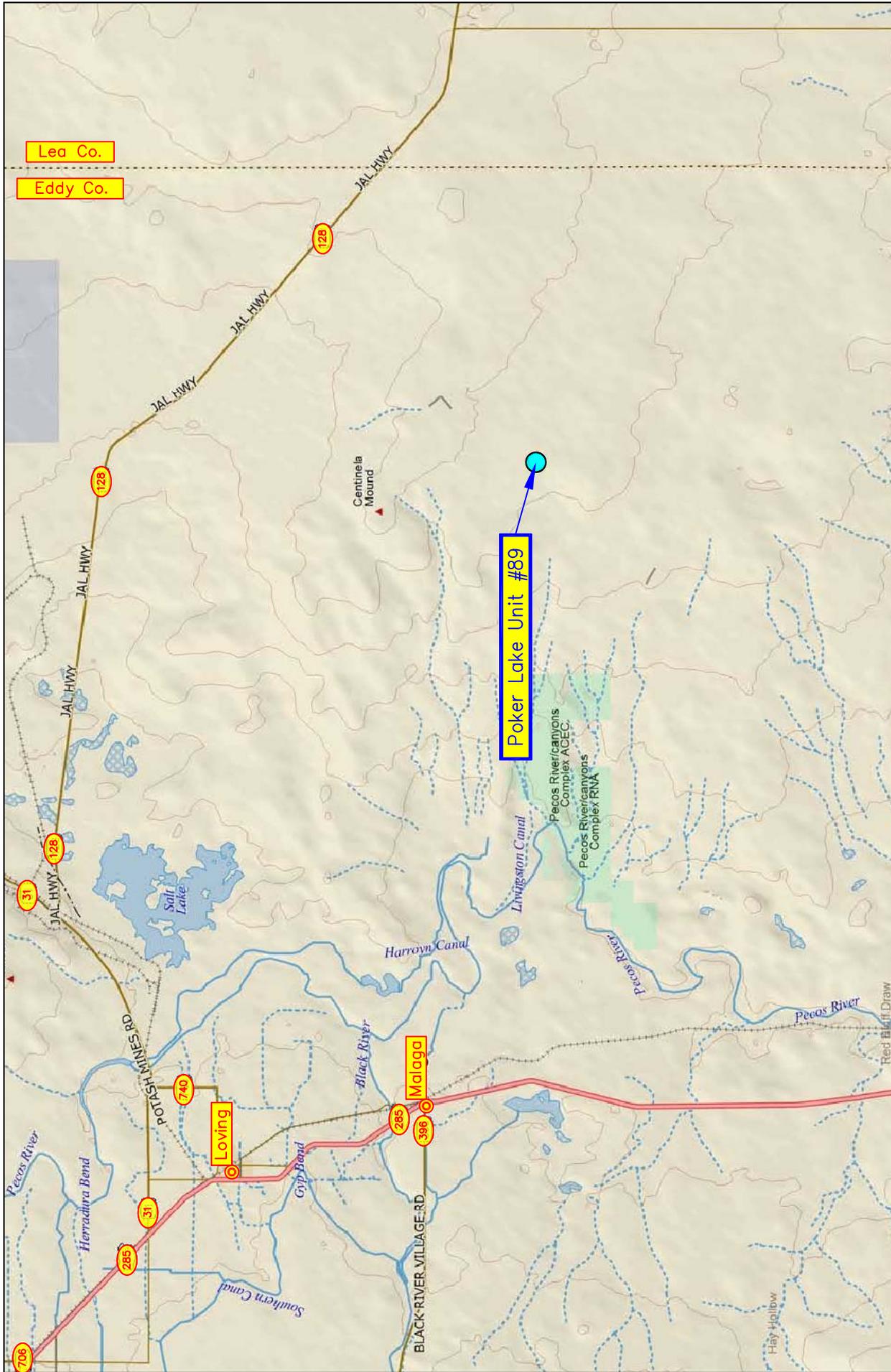
ENVIRONMENTAL PLUS, INC.

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 Map  
Figure 4 – Sample Map 7/18/14  
Table 1 – Well Data  
Table 2 – Summary of Soil Sample Laboratory Analytical Results  
Attachment I – Photographs  
Attachment II – Laboratory Analytical Results  
Attachment III – Copy of Initial NMOCD Form C-141, Final C-141

## **FIGURES**



REVISED:

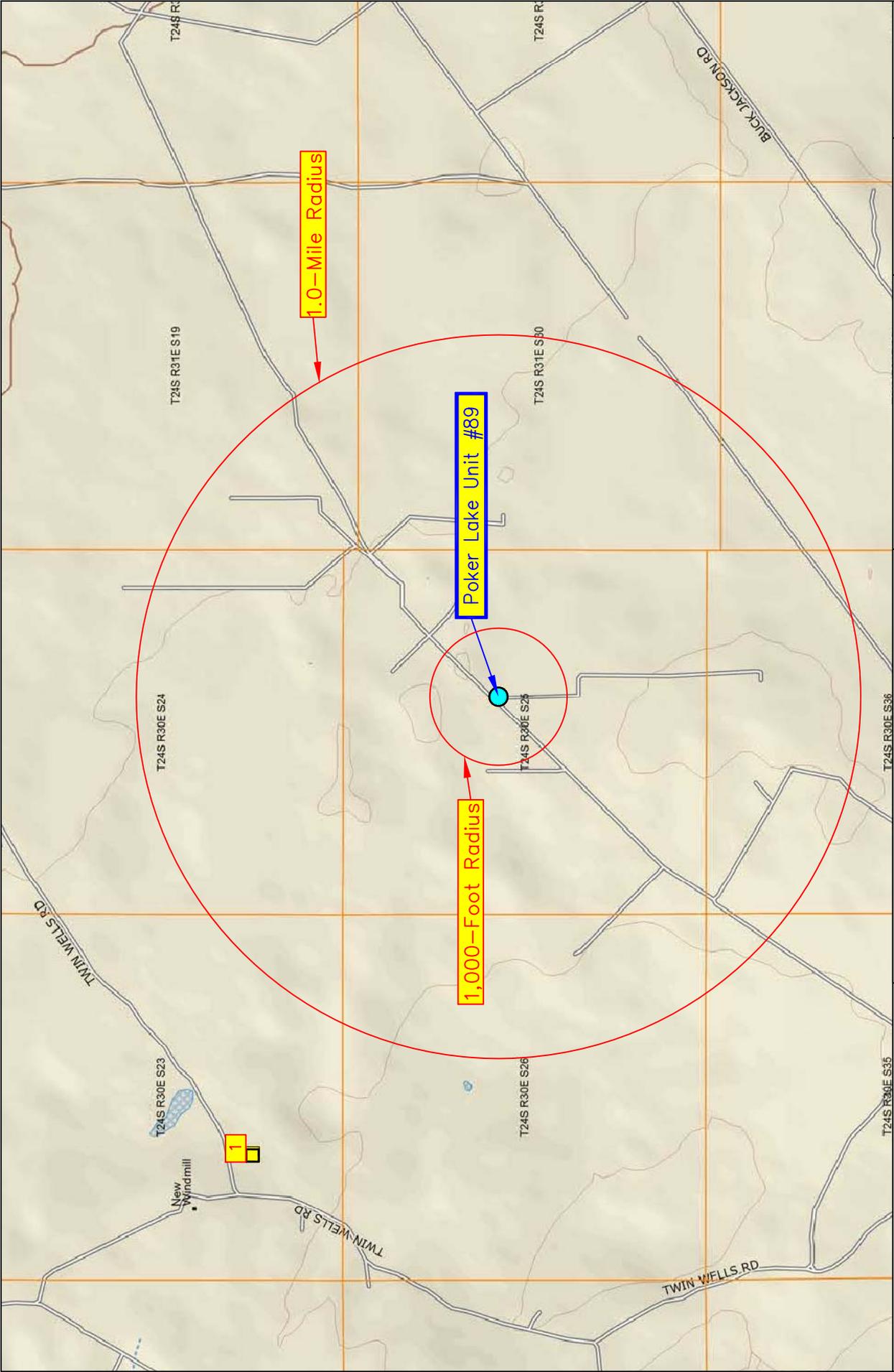
DWG By: D Dominguez  
September 2014

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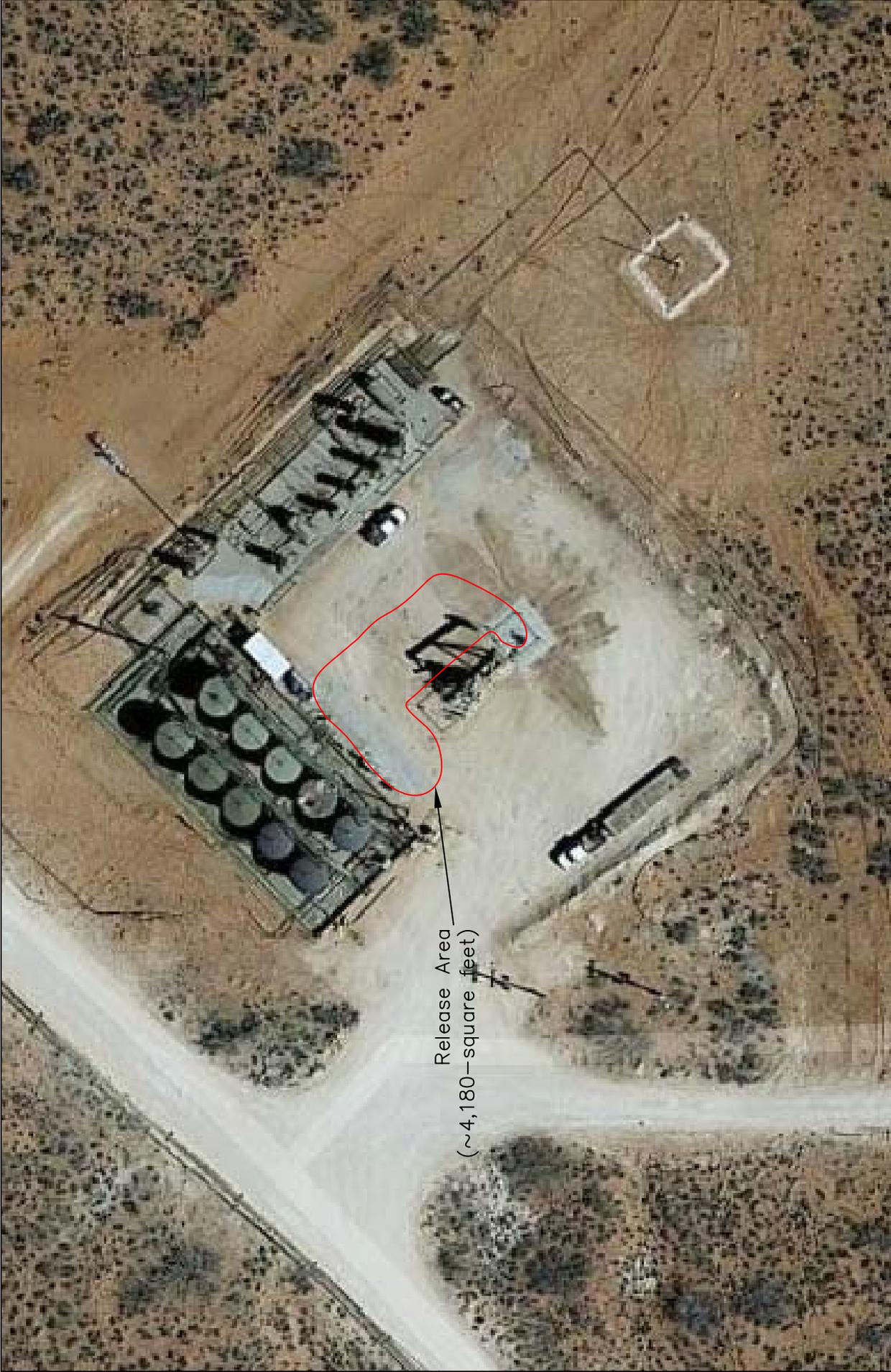
SHEET  
1 of 1

Eddy County, New Mexico  
SW 1/4 of NE 1/4, Sec. 25, T24S, R30E  
N 32° 11' 23.18" W 103° 49' 55.56"  
Elevation: 3,442 feet amsl

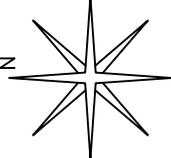
Figure 1  
Area Map  
Bopco, L.P.  
Poker Lake Unit #89



<p><b>Figure 2</b>          Site Location Map          Bopco, L.P.          Poker Lake Unit #89</p>	<p>Eddy County, New Mexico          SW 1/4 of NE 1/4, Sec. 25, T24S, R30E          N 32° 11' 23.18" W 103° 49' 55.56"          Elevation: 3,442 feet amsl</p>		<p>DWG By: D Dominguez          September 2014</p>	<p>REVISED:</p>	
	<p>0 2,000 4,000 Feet</p>				



Release Area  
 (~4,180-square feet)

<p>Figure 3          Site Map          Bopco          Poker Lake Unit #89</p>	<p>Eddy County, New Mexico          SW 1/4 of NE 1/4, Sec. 25, T24S, R30E          N 32° 11' 23.18" W 103° 49' 55.56"          Elevation: 3,442 feet amsl</p>	<p>DWG By: D Dominguez          September 2014</p> <p>REVISIONS:          120 SHEET          1 of 1</p> <p>0 60 120 Feet</p>	
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<p>Figure 4 Sample Map Bopco Poker Lake Unit #89</p>	<p>Eddy County, New Mexico SW 1/4 of NE 1/4, Sec. 25, T24S, R30E N 32° 11' 23.18" W 103° 49' 55.56" Elevation: 3,442 feet amsl</p>	<p>DWG By: D Dominguez September 2014</p> <p>REVISIONS: 120 SHEET 1 of 1</p> <p>0 60 120 Feet</p>	
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## **TABLES**

**TABLE 1**

**Well Data**

**Bopco - Poker Lake Unit #89**

Ref #	Well Number	Use	Diversion <sup>A</sup>	Owner	q64	q16	q4	Sec	Twsp	Rng	Easting	Northing	Date Measured	Surface Elevation <sup>B</sup>	Depth to Water (ft bgs)
1	C 02110	STK	3	Clarence W. McDonald		4	3	23	24S	30E	608036	3562950	31-Dec-67	3,414	400

\* = Data obtained from the New Mexico Office of the State Engineer Website ([http://iwaters.ose.state.nm.us:7001/iWATERS/wr\\_RegisServlet1](http://iwaters.ose.state.nm.us:7001/iWATERS/wr_RegisServlet1)) and USGS Database

<sup>A</sup> = In acre feet per annum

<sup>B</sup> = Elevation interpolated from USGS topographical map based on referenced location.

STK = 72-12-1 Livestock watering

quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are smallest to biggest

**TABLE 2**  
**Summary of Soil Sample Laboratory Analytical Results**  
**Bopco L.P.**  
**Poker Lake Unit #89**

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)	Total TPH (mg/Kg)	Chloride (mg/Kg)
SP1	Surface	Excavated	18-Jul-14	0.0	--	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	2,490	2,490	<b>9,730</b>
SP1	1	In Situ	18-Jul-14	0.0	320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	224
SP1	2	In Situ	18-Jul-14	0.0	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	160
SP2	Surface	Excavated	18-Jul-14	4.6	--	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,850	1,850	<b>8,400</b>
SP2	1	In Situ	18-Jul-14	0.9	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23	23	160
SP2	2	In Situ	18-Jul-14	1.2	200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	96
SP3	Surface	Excavated	18-Jul-14	20.7	--	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<b>21,600</b>	<b>21,600</b>	<b>5,920</b>
SP3	1	In Situ	18-Jul-14	5.2	400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	416
SP3	2	In Situ	18-Jul-14	1.2	400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	464
SP3	3	In Situ	18-Jul-14	0.0	400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	96
SP3	4	In Situ	18-Jul-14	0.6	380	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	608
NMOCD Recommended Remedial Action Levels														1,000
NMOCD Recommended Remedial Action														50
NMOCD Recommended Remedial Action Levels														10
NMOCD Recommended Remedial Action Levels														100

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

## **ATTACHMENTS**

**ATTACHMENT I**  
**Photographs**



Photograph #1 – Lease sign



Photograph #2 – Looking northerly across release area



Photograph #3 – Looking westerly across release area



Photograph #4 – Looking northerly across release area



Photograph #5 – Looking across excavated area



Photograph #6 – Close up view of excavated area around well head



Photograph #7 – Backfilled area



Photograph #8 – Backfilled area

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



July 28, 2014

Daniel Dominguez  
Environmental Plus, Inc.  
P.O. Box 1558  
Eunice, NM 88231

RE: PLU #89

Enclosed are the results of analyses for samples received by the laboratory on 07/21/14 15:32.

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 "Hope S. Moreno". The signature is written in a cursive, flowing style.

Hope S. Moreno For 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:	07/21/2014	Sampling Date:	07/18/2014
Reported:	07/28/2014	Sampling Type:	Soil
Project Name:	PLU #89	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BOPCO		

**Sample ID: SP 1 (SURFACE) (H402211-01)**

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	07/26/2014	ND	1.71	85.3	2.00	0.346	
Toluene*	<0.050	0.050	07/26/2014	ND	1.72	86.0	2.00	1.98	
Ethylbenzene*	<0.050	0.050	07/26/2014	ND	1.70	85.0	2.00	0.0438	
Total Xylenes*	<0.150	0.150	07/26/2014	ND	5.34	88.9	6.00	2.81	
Total BTEX	<0.300	0.300	07/26/2014	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>9730</b>	16.0	07/23/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed 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	07/23/2014	ND	192	96.1	200	8.16		
<b>DRO &gt;C10-C28</b>	<b>2490</b>	50.0	07/23/2014	ND	208	104	200	6.40		

*Surrogate: 1-Chlorooctane 122 % 65.2-140*
*Surrogate: 1-Chlorooctadecane 195 % 63.6-154*

Cardinal Laboratories

\*=Accredited Analyte

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Hope S. Moreno For 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:	07/21/2014	Sampling Date:	07/18/2014
Reported:	07/28/2014	Sampling Type:	Soil
Project Name:	PLU #89	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BOPCO		

**Sample ID: SP 1 (1') (H402211-02)**

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	07/26/2014	ND	1.71	85.3	2.00	0.346		
Toluene*	<0.050	0.050	07/26/2014	ND	1.72	86.0	2.00	1.98		
Ethylbenzene*	<0.050	0.050	07/26/2014	ND	1.70	85.0	2.00	0.0438		
Total Xylenes*	<0.150	0.150	07/26/2014	ND	5.34	88.9	6.00	2.81		
Total BTEX	<0.300	0.300	07/26/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>224</b>	16.0	07/23/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/23/2014	ND	192	96.1	200	8.16		
DRO >C10-C28	<10.0	10.0	07/23/2014	ND	208	104	200	6.40		

Surrogate: 1-Chlorooctane 125 % 65.2-140

Surrogate: 1-Chlorooctadecane 139 % 63.6-154

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\*=Accredited Analyte

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Hope S. Moreno For 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: 07/21/2014  
 Reported: 07/28/2014  
 Project Name: PLU #89  
 Project Number: NONE GIVEN  
 Project Location: BOPCO

 Sampling Date: 07/18/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 (2') (H402211-03)**

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	07/26/2014	ND	1.71	85.3	2.00	0.346	
Toluene*	<0.050	0.050	07/26/2014	ND	1.72	86.0	2.00	1.98	
Ethylbenzene*	<0.050	0.050	07/26/2014	ND	1.70	85.0	2.00	0.0438	
Total Xylenes*	<0.150	0.150	07/26/2014	ND	5.34	88.9	6.00	2.81	
Total BTEX	<0.300	0.300	07/26/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/23/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/23/2014	ND	192	96.1	200	8.16	
DRO >C10-C28	<10.0	10.0	07/23/2014	ND	208	104	200	6.40	

Surrogate: 1-Chlorooctane 120 % 65.2-140

Surrogate: 1-Chlorooctadecane 132 % 63.6-154

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\*=Accredited Analyte

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 07/21/2014  
 Reported: 07/28/2014  
 Project Name: PLU #89  
 Project Number: NONE GIVEN  
 Project Location: BOPCO

 Sampling Date: 07/18/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 (SURFACE) (H402211-04)**

<b>BTEX 8021B</b>		<b>mg/kg</b>		<b>Analyzed By: CK/</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2014	ND	1.87	93.7	2.00	1.24	
Toluene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	0.842	
Ethylbenzene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2014	ND	5.92	98.6	6.00	2.11	
Total BTEX	<0.300	0.300	07/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

<b>Chloride, SM4500CI-B</b>		<b>mg/kg</b>		<b>Analyzed By: AP</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>8400</b>	16.0	07/23/2014	ND	400	100	400	0.00	

<b>TPH 8015M</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>						<b>S-06</b>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	07/23/2014	ND	192	96.1	200	8.16		
<b>DRO &gt;C10-C28</b>	<b>1850</b>	100	07/23/2014	ND	208	104	200	6.40		

Surrogate: 1-Chlorooctane 126 % 65.2-140

Surrogate: 1-Chlorooctadecane 182 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Hope S. Moreno For 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:	07/21/2014	Sampling Date:	07/18/2014
Reported:	07/28/2014	Sampling Type:	Soil
Project Name:	PLU #89	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BOPCO		

**Sample ID: SP 2 (1') (H402211-05)**

BTEX 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2014	ND	1.87	93.7	2.00	1.24	
Toluene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	0.842	
Ethylbenzene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2014	ND	5.92	98.6	6.00	2.11	
Total BTEX	<0.300	0.300	07/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>160</b>	16.0	07/23/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/23/2014	ND	192	96.1	200	8.16	
<b>DRO &gt;C10-C28</b>	<b>23.0</b>	10.0	07/23/2014	ND	208	104	200	6.40	

Surrogate: 1-Chlorooctane 127 % 65.2-140

Surrogate: 1-Chlorooctadecane 144 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Hope S. Moreno For 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:	07/21/2014	Sampling Date:	07/18/2014
Reported:	07/28/2014	Sampling Type:	Soil
Project Name:	PLU #89	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BOPCO		

**Sample ID: SP 2 (2') (H402211-06)**

BTEX 8021B		mg/kg		Analyzed By: CK/				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2014	ND	1.87	93.7	2.00	1.24		
Toluene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	0.842		
Ethylbenzene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	1.33		
Total Xylenes*	<0.150	0.150	07/25/2014	ND	5.92	98.6	6.00	2.11		
Total BTEX	<0.300	0.300	07/25/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.1 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/23/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/23/2014	ND	192	96.1	200	8.16		
DRO >C10-C28	<10.0	10.0	07/23/2014	ND	208	104	200	6.40		

Surrogate: 1-Chlorooctane 117 % 65.2-140

Surrogate: 1-Chlorooctadecane 127 % 63.6-154

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Hope S. Moreno For 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:	07/21/2014	Sampling Date:	07/18/2014
Reported:	07/28/2014	Sampling Type:	Soil
Project Name:	PLU #89	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BOPCO		

**Sample ID: SP 3 (SURFACE) (H402211-07)**

BTEX 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2014	ND	1.87	93.7	2.00	1.24	
Toluene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	0.842	
Ethylbenzene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2014	ND	5.92	98.6	6.00	2.11	
Total BTEX	<0.300	0.300	07/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>5920</b>	16.0	07/23/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<200	200	07/23/2014	ND	192	96.1	200	8.16		
<b>DRO &gt;C10-C28</b>	<b>21600</b>	200	07/23/2014	ND	208	104	200	6.40		

Surrogate: 1-Chlorooctane 123 % 65.2-140

Surrogate: 1-Chlorooctadecane 376 % 63.6-154

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Hope S. Moreno For 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:	07/21/2014	Sampling Date:	07/18/2014
Reported:	07/28/2014	Sampling Type:	Soil
Project Name:	PLU #89	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BOPCO		

**Sample ID: SP 3 (1') (H402211-08)**

BTEX 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2014	ND	1.87	93.7	2.00	1.24	
Toluene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	0.842	
Ethylbenzene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2014	ND	5.92	98.6	6.00	2.11	
Total BTEX	<0.300	0.300	07/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>416</b>	16.0	07/23/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/23/2014	ND	175	87.6	200	1.62	
DRO >C10-C28	<10.0	10.0	07/23/2014	ND	195	97.6	200	0.958	

Surrogate: 1-Chlorooctane 92.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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Hope S. Moreno For 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:	07/21/2014	Sampling Date:	07/18/2014
Reported:	07/28/2014	Sampling Type:	Soil
Project Name:	PLU #89	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BOPCO		

**Sample ID: SP 3 (2') (H402211-09)**

BTEX 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2014	ND	1.87	93.7	2.00	1.24	
Toluene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	0.842	
Ethylbenzene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2014	ND	5.92	98.6	6.00	2.11	
Total BTEX	<0.300	0.300	07/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>464</b>	16.0	07/23/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/23/2014	ND	192	96.1	200	8.16	
DRO >C10-C28	<10.0	10.0	07/23/2014	ND	208	104	200	6.40	

Surrogate: 1-Chlorooctane 126 % 65.2-140

Surrogate: 1-Chlorooctadecane 140 % 63.6-154

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Hope S. Moreno For 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: 07/21/2014  
 Reported: 07/28/2014  
 Project Name: PLU #89  
 Project Number: NONE GIVEN  
 Project Location: BOPCO

 Sampling Date: 07/18/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 (3') (H402211-10)**

<b>BTEX 8021B</b>		<b>mg/kg</b>		<b>Analyzed By: CK/</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2014	ND	1.87	93.7	2.00	1.24	
Toluene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	0.842	
Ethylbenzene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2014	ND	5.92	98.6	6.00	2.11	
Total BTEX	<0.300	0.300	07/25/2014	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126*

<b>Chloride, SM4500CI-B</b>		<b>mg/kg</b>		<b>Analyzed By: AP</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	07/23/2014	ND	400	100	400	0.00	

<b>TPH 8015M</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/23/2014	ND	192	96.1	200	8.16	
DRO >C10-C28	<10.0	10.0	07/23/2014	ND	208	104	200	6.40	

*Surrogate: 1-Chlorooctane 123 % 65.2-140*
*Surrogate: 1-Chlorooctadecane 136 % 63.6-154*

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Hope S. Moreno For 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: 07/21/2014  
 Reported: 07/28/2014  
 Project Name: PLU #89  
 Project Number: NONE GIVEN  
 Project Location: BOPCO

 Sampling Date: 07/18/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 (4') (H402211-11)**

BTEX 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2014	ND	1.87	93.7	2.00	1.24	
Toluene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	0.842	
Ethylbenzene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2014	ND	5.92	98.6	6.00	2.11	
Total BTEX	<0.300	0.300	07/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	07/23/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/23/2014	ND	192	96.1	200	8.16	
DRO >C10-C28	<10.0	10.0	07/23/2014	ND	208	104	200	6.40	

Surrogate: 1-Chlorooctane 131 % 65.2-140

Surrogate: 1-Chlorooctadecane 143 % 63.6-154

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\*=Accredited Analyte

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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



---

Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager





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

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

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.

**Release Notification and Corrective Action**

nHMP14/9926107

**OPERATOR**

Initial Report  Final Report

Name of Company: BOPCO, L.P. <b>260737</b>	Contact: Tony Savoie
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: Poker Lake Unit #89	Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 03-015-27787
------------------------	------------------------	----------------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	25	24S	30E	2310	North	1980	East	Eddy

Latitude N 32.189772 Longitude W 103.832101

**NATURE OF RELEASE**

Type of Release: Crude oil and produced water	Volume of Release: 1 bbl crude oil and 13 bbls PW	Volume Recovered: 1 bbl. PW
Source of Release: 1/4" hose	Date and Hour of Occurrence: 7/3/14 time unknown	Date and Hour of Discovery: 7/3/14 at approximately 2:00 p.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

**NM OIL CONSERVATION**

ARTESIA DISTRICT

JUL 10 2014

RECEIVED

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*  
A 1/4" hose going from the wellhead to the high pressure kill switch was damaged by livestock. The hose was replaced with stainless steel tubing.

Describe Area Affected and Cleanup Action Taken.\*  
The spill impacted approximately 4,180 sq. ft. of caliche well pad. The free standing fluid was recovered with a vacuum truck. Roustabout crews covered the spill area with dry soil. The spill area will be cleaned up in accordance to the NMOCD and BLM spill remediation guidelines.

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: <i>Tony Savoie</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Tony Savoie	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Waste Management and Remediation Specialist	Approval Date: 7/18/14	Expiration Date: NA
E-mail Address: tasavoie@basspet.com	Conditions of Approval: Remediation per OCD Rule & Guidelines, & like approval by BLM. <b>SUBMIT REMEDIATION PROPOSAL NO LATER THAN:</b>	
Date: 7/10/14 Phone: 432-556-8730	Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

2RP-2369

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

### Release Notification and Corrective Action

OPERATOR

Initial Report

Final Report

<b>Name of Company:</b> Bopco, L.P.		<b>Contact:</b> Tony Savoie	
<b>Address:</b> 522 W. Mermod, Suite 704 Carlsbad, NM 88220		<b>Telephone No.:</b> (575) 887-7329	
<b>Facility Name:</b> Poker Lake Unit 89		<b>Facility Type:</b> Exploration and Production	
<b>Surface Owner:</b> Federal		<b>Mineral Owner:</b> Federal	
		<b>API No.:</b> 30-015-27787	

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	25	24S	30E	2310	North	1980	East	Eddy

**Latitude:** N 32° 11' 23.18" **Longitude:** W 103° 49' 55.56"

### NATURE OF RELEASE

<b>Type of Release:</b> crude oil and produced water	<b>Volume of Release:</b> 1 bbl crude oil and 13 bbls PW	<b>Volume Recovered:</b> 1 bbl PW
<b>Source of Release:</b> 1/4" hose	<b>Date and Hour of Occurrence:</b> 7/3/14 time unknown	<b>Date and Hour of Discovery:</b> 7/3/14 @ 2:00 pm
<b>Was Immediate Notice Given?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	<b>If YES, To Whom?</b>	
<b>By Whom?</b>	<b>Date and Hour:</b>	
<b>Was a Watercourse Reached?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If YES, Volume Impacting the Watercourse:</b> Not Applicable	
<b>Depth to Water.</b> ~380 ft bgs		
<b>If a Watercourse was Impacted, Describe Fully.*</b> Not Applicable		
<b>Describe Cause of Problem and Remedial Action Taken.*</b> A 1/4" hose going from the wellhead to the high pressure kill switch was damaged by livestock. The hose was replaced with stainless steel tubing.		
<b>Describe Area Affected and Cleanup Action Taken.*</b> The spill impacted approximately 4,180 sq. ft. of caliche pad. The free standing fluid was recovered and soil samples collected. All contaminated soil has been removed and hauled for disposal. The area has been cleaned up in accordance to the NMOCD and BLM remediation guidelines and backfilled.		
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

<b>Signature:</b> 	<b>Approved by District Supervisor:</b>	
<b>Printed Name:</b> Brad Blevins	<b>Approval Date:</b>	<b>Expiration Date:</b>
<b>Title:</b> EHS Asst. Remediation Foreman	<b>Conditions of Approval:</b>	
<b>E-mail Address:</b> <a href="mailto:bblevins@basspet.com">bblevins@basspet.com</a>	<b>Attached</b> <input type="checkbox"/>	
<b>Date:</b> 7-12-14 <b>Phone:</b> (432) 214-3704		

\* Attach Additional Sheets If Necessary