

# ***ENVIRONMENTAL PLUS INC***

2100 AVE O  
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 #303H**  
**Eddy County, New Mexico**  
**Unit Letter "N", Section 4, Township 25 South, Range 31 East**  
**Latitude 32.155387 North, Longitude 103.784570 West**  
**NMOCD Reference #2RP-2374**

Prepared For:

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

Prepared By:

Environmental Plus Inc.  
2100 Ave O  
Eunice, NM 88231

**October 2014**

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Daniel Dominguez  
Project Manager



8 October 2014

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

RE: Final Closure Report  
Bopco – Poker Lake Unit #303H  
UL-N, Section 4, Township 25 South, Range 31 East  
Eddy County, New Mexico  
NMOCD Reference # 2RP 2374

Mr. Bratcher:

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

**Background Information:**

A valve was left open on the circulating pump to the sump suction line causing the sump to overflow. The spill impacted approximately 1,355 sq. ft. of mostly pasture area. The free standing fluid was recovered, the stained soil was left as is pending remediation.

**Remediation Activities:**

EPI personnel mobilized on the site on July 17, 2014 to collect soil samples via sample trenches to determine the vertical extent of contamination. A total of twenty (20) soil samples were collected from three (3) sample points and sent to Cardinal Labs in Hobbs, New Mexico, for testing. Laboratory analytical results indicate the excavation is void of Chloride concentrations in excess of NMOCD Recommended Remedial Action Levels (RRALs) of 1,000 mg/Kg. Laboratory analytical results indicate the excavation contains concentrations of Benzene, BTEX, and TPH in excess of NMOCD RRALs of 10 mg/Kg, 50 mg/Kg, and 5,000 mg/Kg, respectively, to a depth of four (4) feet in the area of SP1, three (3) feet in the area of SP2, and five (5) feet in the area of SP3 (reference *Figure 3* and *Table 2*).

On August 20, 2014 EPI personnel mobilized on the location to locate and hand dig around buried pipelines. From September 2 – 15, 2014 approximately 874 cubic yards of contaminated material were excavated and transported to Lea Land for disposal. The release area was excavated to approximately five (5) feet bgs, removing constituent contamination above NMOCD RRALs.

**Closure Activities:**

From September 15 - 16, 2014 the excavation was backfilled with approximately 336 cubic yards of caliche and 504 cubic yards of topsoil. The entire disturbed area was then 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,

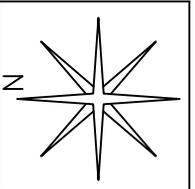
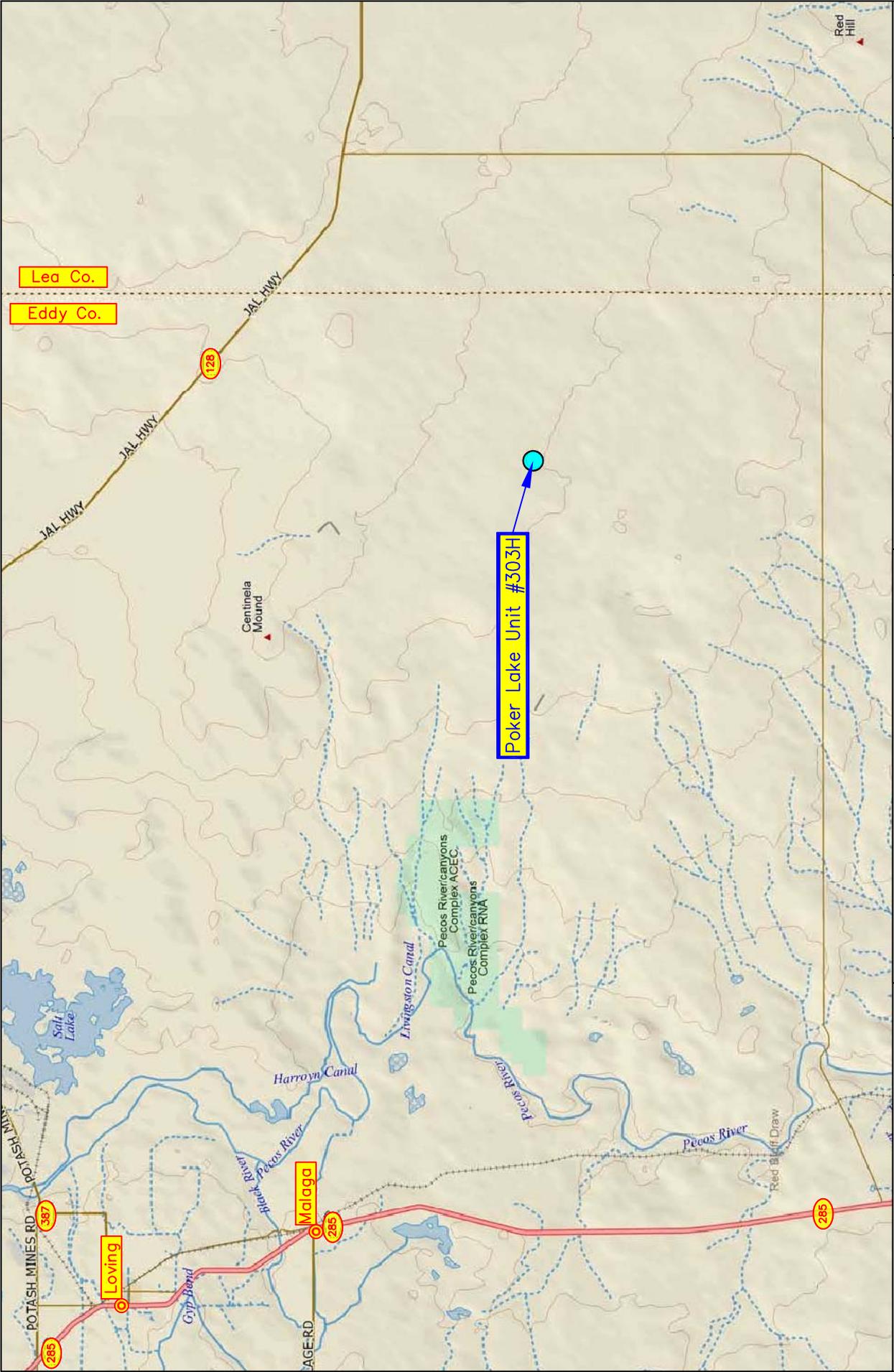
ENVIRONMENTAL PLUS, INC.

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/Sample Map  
Table 1 – Well Data  
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**



REVISED:

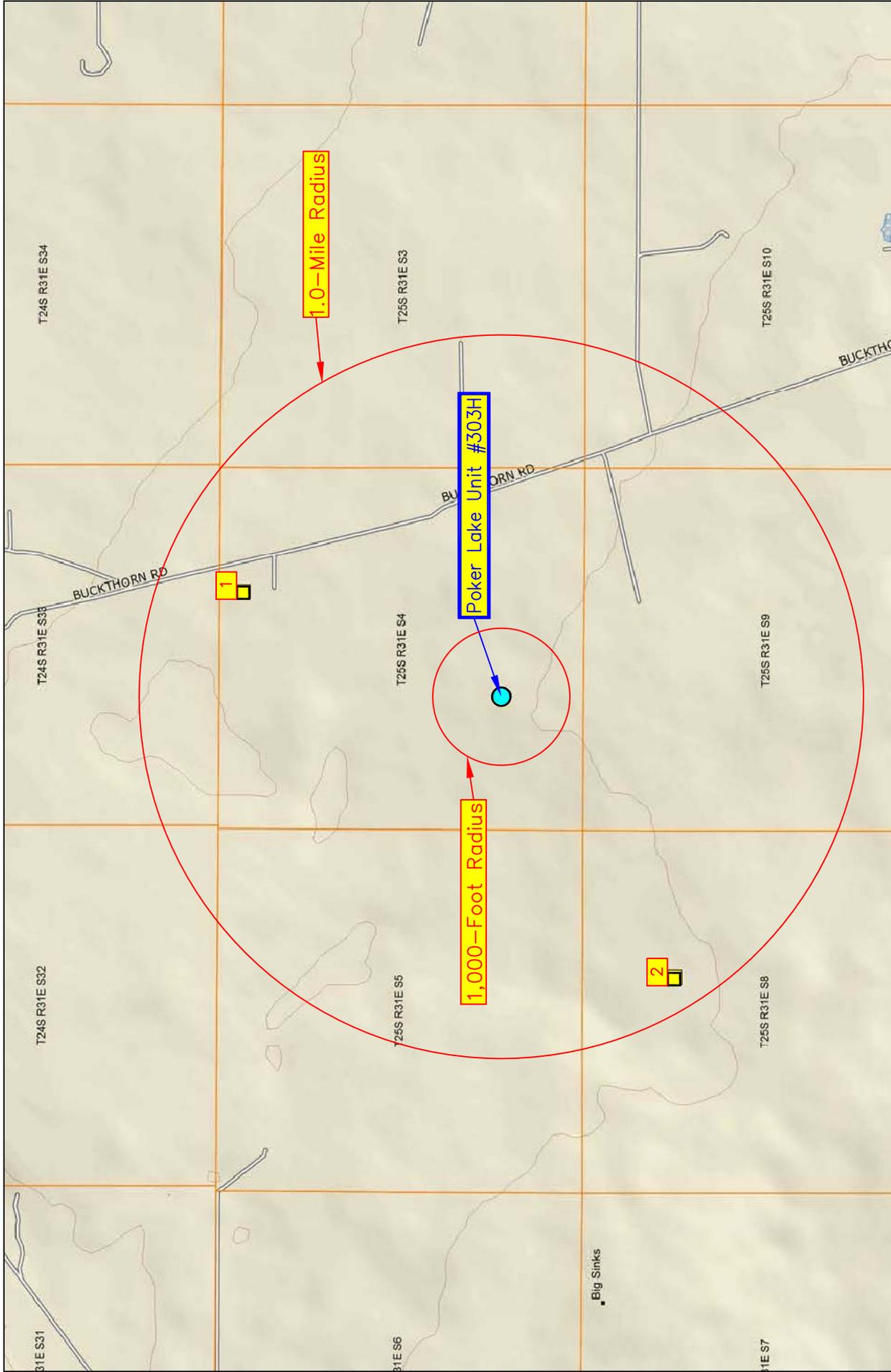
DWG By: D Dominguez  
September 2014

0 3 6  
Miles

SHEET  
1 of 1

Eddy County, New Mexico  
SE 1/4 of SW 1/4, Sec. 4, T25S, R31E  
N 32° 9' 19.38" W 103° 47' 4.43"  
Elevation: 3,415 feet amsl

Figure 1  
Area Map  
Bopco, L.P.  
Poker Lake Unit #303H



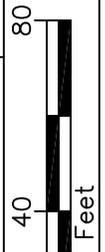
<p>Figure 2 Site Location Map Bopco, L.P. Poker Lake Unit #303H</p>	<p>Eddy County, New Mexico SE 1/4 of SW 1/4, Sec. 4, T25S, R31E N 32° 9' 19.38" W 103° 47' 4.43" Elevation: 3,415 feet amsl</p>		<p>DWG By: D Dominguez September 2014</p>	<p>REVISIED:</p>	
	<p>0 2,000 4,000 Feet</p>				



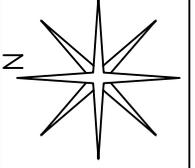
Figure 3  
 Site/Sample Map  
 Bopco, L.P.  
 Poker Lake Unit #303H

Eddy County, New Mexico  
 SE 1/4 of SW 1/4, Sec. 4, T25S, R31E  
 N 32° 9' 19.38" W 103° 47' 4.43"  
 Elevation: 3,415 feet amsl

DWG By: D Dominguez  
 September 2014



REVISSED:  
 SHEET  
 1 of 1



LEGEND

XSP1 Sample Point

## **TABLES**

**TABLE 1**  
**Well Data**  
**Bopco - Poker Lake Unit #303H**

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 01914	PRO	0	Perry R Bass	4	1	2	4	25S	31E	615064	3559275		3,443	
2	C 01839	PRO	0	OXY Petroleum, Inc.		3	2	8	25S	31E	613364	3557344		3,405	
3	C 02959	STK	3	Richardson Cattle Company	1	3	2	33	24S	31E	614866	3560646		3,461	

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

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

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

PRO = 72-12-1 Prospecting or development of Natural Resource

STK = 72-12-1 Livestock watering

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

**Shaded area indicates wells not shown in Figure 2**

**TABLE 2**  
**Summary of Soil Sample Field Testing and Laboratory Analytical Results**  
**Bopco L.P.**  
**Poker Lake Unit #303H**

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	1	Excavated	17-Jul-14	2,490	--	6.72	78.7	30.6	130	246	5,440	12,800	1,760	20,000	<16.0	
	2	Excavated	17-Jul-14	1,800	--	12.1	106	36.3	155	309	6,350	13,300	1,870	21,520	<16.0	
	3	Excavated	17-Jul-14	1,480	--	36.3	239	68.3	302	646	13,900	25,100	3,550	42,550	16	
	4	Excavated	17-Jul-14	1,600	--	11.1	105	39.3	170	325	5,710	12,900	1,800	20,410	16	
	5	In Situ	17-Jul-14	13	120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<30.0	80
	7	In Situ	17-Jul-14	5.7	80	<0.050	<0.050	<0.050	<0.150	<0.300	11.3	226	37.2	275	64	
SP2	1	Excavated	17-Jul-14	1,660	--	21.0	168	49.3	209	447	5,210	9,950	1,400	16,560	32	
	2	Excavated	17-Jul-14	1,590	--	23.5	130	35.0	159	348	6,150	10,400	1,450	18,000	64	
	3	Excavated	17-Jul-14	1,686	--	11.5	80.7	25.5	115	233	4,410	8,440	1,160	14,010	16	
	4	In Situ	17-Jul-14	75	80	<0.050	0.050	0.070	0.194	0.314	40.5	551	87.1	679	16	
	5	In Situ	17-Jul-14	135	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	16	
	7	In Situ	17-Jul-14	5.0	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0	
SP3	1	Excavated	17-Jul-14	1,718	--	8.29	85.8	32.2	160	286	5,680	13,100	1,850	20,630	<16.0	
	2	Excavated	17-Jul-14	1,410	--	21.2	126	51.6	212	411	5,790	11,700	1,660	19,150	16	
	3	Excavated	17-Jul-14	1,052	--	10.4	74.5	33.3	137	255	3,910	8,390	1,200	13,500	32	
	4	Excavated	17-Jul-14	960	--	60.4	318	97.4	401	877	14,700	25,000	3,320	43,020	32	
	5	Excavated	17-Jul-14	671	--	33.6	217	89.0	370	710	10,900	23,300	3,300	37,500	16	
	7	In Situ	17-Jul-14	490	120	0.067	0.237	0.269	1.05	1.62	46.9	446	75.2	568	32	
	9	In Situ	17-Jul-14	14.8	120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	10.9	96
10	In Situ	17-Jul-14	4.6	120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<30.0	16	
NMOCD Recommended Remedial Action Levels				100		10				50				5,000	1,000	

-- = 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 – Point of release



Photograph #3 – Looking northerly across release area



Photograph #4 – Looking southerly across release area



Photograph #5 – Excavated area around release point



Photograph #6 – Northerly view of excavation



Photograph #7 – Backfilled area



Photograph #8 – Backfilled area

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



July 24, 2014

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

RE: PLU #303H

Enclosed are the results of analyses for samples received by the laboratory on 07/18/14 15:30.

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 cursive script that reads "Celey D. Keene".

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:	07/18/2014	Sampling Date:	07/17/2014
Reported:	07/24/2014	Sampling Type:	Soil
Project Name:	PLU #303H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	UL-N SEC.4, T25S, R31E		

**Sample ID: SP 1 (1') (H402201-01)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>6.72</b>	5.00	07/24/2014	ND	1.80	90.2	2.00	2.23	
<b>Toluene*</b>	<b>78.7</b>	5.00	07/24/2014	ND	1.86	93.1	2.00	2.92	
<b>Ethylbenzene*</b>	<b>30.6</b>	5.00	07/24/2014	ND	1.88	94.2	2.00	2.95	
<b>Total Xylenes*</b>	<b>130</b>	15.0	07/24/2014	ND	5.68	94.7	6.00	3.26	
<b>Total BTEX</b>	<b>246</b>	30.0	07/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	<16.0	16.0	07/22/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>5440</b>	50.0	07/22/2014	ND	178	89.2	200	0.874		
<b>DRO &gt;C10-C28</b>	<b>12800</b>	50.0	07/22/2014	ND	193	96.5	200	0.722		
<b>EXT DRO &gt;C28-C35</b>	<b>1760</b>	50.0	07/22/2014	ND						

Surrogate: 1-Chlorooctane 226 % 65.2-140

Surrogate: 1-Chlorooctadecane 266 % 63.6-154

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:	07/18/2014	Sampling Date:	07/17/2014
Reported:	07/24/2014	Sampling Type:	Soil
Project Name:	PLU #303H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	UL-N SEC.4, T25S, R31E		

**Sample ID: SP 1 (2') (H402201-02)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>12.1</b>	5.00	07/24/2014	ND	1.80	90.2	2.00	2.23	
<b>Toluene*</b>	<b>106</b>	5.00	07/24/2014	ND	1.86	93.1	2.00	2.92	
<b>Ethylbenzene*</b>	<b>36.3</b>	5.00	07/24/2014	ND	1.88	94.2	2.00	2.95	
<b>Total Xylenes*</b>	<b>155</b>	15.0	07/24/2014	ND	5.68	94.7	6.00	3.26	
<b>Total BTEX</b>	<b>309</b>	30.0	07/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	<16.0	16.0	07/22/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>6350</b>	50.0	07/22/2014	ND	188	93.9	200	0.985		
<b>DRO &gt;C10-C28</b>	<b>13300</b>	50.0	07/22/2014	ND	201	101	200	2.25		
<b>EXT DRO &gt;C28-C35</b>	<b>1870</b>	50.0	07/22/2014	ND						

Surrogate: 1-Chlorooctane 240 % 65.2-140

Surrogate: 1-Chlorooctadecane 277 % 63.6-154

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:	07/18/2014	Sampling Date:	07/17/2014
Reported:	07/24/2014	Sampling Type:	Soil
Project Name:	PLU #303H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	UL-N SEC.4, T25S, R31E		

**Sample ID: SP 1 (3') (H402201-03)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>36.3</b>	5.00	07/24/2014	ND	1.80	90.2	2.00	2.23	
<b>Toluene*</b>	<b>239</b>	5.00	07/24/2014	ND	1.86	93.1	2.00	2.92	
<b>Ethylbenzene*</b>	<b>68.3</b>	5.00	07/24/2014	ND	1.88	94.2	2.00	2.95	
<b>Total Xylenes*</b>	<b>302</b>	15.0	07/24/2014	ND	5.68	94.7	6.00	3.26	
<b>Total BTEX</b>	<b>646</b>	30.0	07/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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>16.0</b>	16.0	07/22/2014	ND	416	104	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	
<b>GRO C6-C10</b>	<b>13900</b>	100	07/22/2014	ND	188	93.9	200	0.985		
<b>DRO &gt;C10-C28</b>	<b>25100</b>	100	07/22/2014	ND	201	101	200	2.25		
<b>EXT DRO &gt;C28-C35</b>	<b>3550</b>	100	07/22/2014	ND						

Surrogate: 1-Chlorooctane 461 % 65.2-140

Surrogate: 1-Chlorooctadecane 543 % 63.6-154

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:	07/18/2014	Sampling Date:	07/17/2014
Reported:	07/24/2014	Sampling Type:	Soil
Project Name:	PLU #303H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	UL-N SEC.4, T25S, R31E		

**Sample ID: SP 1 (4') (H402201-04)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>11.1</b>	5.00	07/24/2014	ND	1.80	90.2	2.00	2.23	
<b>Toluene*</b>	<b>105</b>	5.00	07/24/2014	ND	1.86	93.1	2.00	2.92	
<b>Ethylbenzene*</b>	<b>39.3</b>	5.00	07/24/2014	ND	1.88	94.2	2.00	2.95	
<b>Total Xylenes*</b>	<b>170</b>	15.0	07/24/2014	ND	5.68	94.7	6.00	3.26	
<b>Total BTEX</b>	<b>325</b>	30.0	07/24/2014	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>16.0</b>	16.0	07/22/2014	ND	416	104	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	
<b>GRO C6-C10</b>	<b>5710</b>	50.0	07/23/2014	ND	188	93.9	200	0.985		
<b>DRO &gt;C10-C28</b>	<b>12900</b>	50.0	07/23/2014	ND	201	101	200	2.25		
<b>EXT DRO &gt;C28-C35</b>	<b>1800</b>	50.0	07/23/2014	ND						

Surrogate: 1-Chlorooctane 321 % 65.2-140

Surrogate: 1-Chlorooctadecane 285 % 63.6-154

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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:	07/18/2014	Sampling Date:	07/17/2014
Reported:	07/24/2014	Sampling Type:	Soil
Project Name:	PLU #303H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	UL-N SEC.4, T25S, R31E		

**Sample ID: SP 1 (5') (H402201-05)**

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	07/24/2014	ND	1.80	90.2	2.00	2.23		
Toluene*	<0.050	0.050	07/24/2014	ND	1.86	93.1	2.00	2.92		
Ethylbenzene*	<0.050	0.050	07/24/2014	ND	1.88	94.2	2.00	2.95		
Total Xylenes*	<0.150	0.150	07/24/2014	ND	5.68	94.7	6.00	3.26		
Total BTEX	<0.300	0.300	07/24/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	80.0	16.0	07/22/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/23/2014	ND	188	93.9	200	0.985		
DRO >C10-C28	<10.0	10.0	07/23/2014	ND	201	101	200	2.25		
EXT DRO >C28-C35	<10.0	10.0	07/23/2014	ND						

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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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:	07/18/2014	Sampling Date:	07/17/2014
Reported:	07/24/2014	Sampling Type:	Soil
Project Name:	PLU #303H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	UL-N SEC.4, T25S, R31E		

**Sample ID: SP 1 (7') (H402201-06)**

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	07/24/2014	ND	1.80	90.2	2.00	2.23		
Toluene*	<0.050	0.050	07/24/2014	ND	1.86	93.1	2.00	2.92		
Ethylbenzene*	<0.050	0.050	07/24/2014	ND	1.88	94.2	2.00	2.95		
Total Xylenes*	<0.150	0.150	07/24/2014	ND	5.68	94.7	6.00	3.26		
Total BTEX	<0.300	0.300	07/24/2014	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	
<b>Chloride</b>	<b>64.0</b>	16.0	07/22/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>11.3</b>	10.0	07/23/2014	ND	188	93.9	200	0.985		
<b>DRO &gt;C10-C28</b>	<b>226</b>	10.0	07/23/2014	ND	201	101	200	2.25		
<b>EXT DRO &gt;C28-C35</b>	<b>37.2</b>	10.0	07/23/2014	ND						

Surrogate: 1-Chlorooctane 99.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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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:	07/18/2014	Sampling Date:	07/17/2014
Reported:	07/24/2014	Sampling Type:	Soil
Project Name:	PLU #303H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	UL-N SEC.4, T25S, R31E		

**Sample ID: SP 2 (1') (H402201-07)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>21.0</b>	5.00	07/24/2014	ND	1.80	90.2	2.00	2.23	
<b>Toluene*</b>	<b>168</b>	5.00	07/24/2014	ND	1.86	93.1	2.00	2.92	
<b>Ethylbenzene*</b>	<b>49.3</b>	5.00	07/24/2014	ND	1.88	94.2	2.00	2.95	
<b>Total Xylenes*</b>	<b>209</b>	15.0	07/24/2014	ND	5.68	94.7	6.00	3.26	
<b>Total BTEX</b>	<b>447</b>	30.0	07/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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>32.0</b>	16.0	07/22/2014	ND	416	104	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	
<b>GRO C6-C10</b>	<b>5210</b>	50.0	07/23/2014	ND	188	93.9	200	0.985		
<b>DRO &gt;C10-C28</b>	<b>9950</b>	50.0	07/23/2014	ND	201	101	200	2.25		
<b>EXT DRO &gt;C28-C35</b>	<b>1400</b>	50.0	07/23/2014	ND						

Surrogate: 1-Chlorooctane 197 % 65.2-140

Surrogate: 1-Chlorooctadecane 231 % 63.6-154

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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:	07/18/2014	Sampling Date:	07/17/2014
Reported:	07/24/2014	Sampling Type:	Soil
Project Name:	PLU #303H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	UL-N SEC.4, T25S, R31E		

**Sample ID: SP 2 (2') (H402201-08)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>23.5</b>	2.00	07/24/2014	ND	1.80	90.2	2.00	2.23	
<b>Toluene*</b>	<b>130</b>	2.00	07/24/2014	ND	1.86	93.1	2.00	2.92	
<b>Ethylbenzene*</b>	<b>35.0</b>	2.00	07/24/2014	ND	1.88	94.2	2.00	2.95	
<b>Total Xylenes*</b>	<b>159</b>	6.00	07/24/2014	ND	5.68	94.7	6.00	3.26	
<b>Total BTEX</b>	<b>348</b>	12.0	07/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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>64.0</b>	16.0	07/22/2014	ND	416	104	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	
<b>GRO C6-C10</b>	<b>6150</b>	50.0	07/23/2014	ND	188	93.9	200	0.985		
<b>DRO &gt;C10-C28</b>	<b>10400</b>	50.0	07/23/2014	ND	201	101	200	2.25		
<b>EXT DRO &gt;C28-C35</b>	<b>1450</b>	50.0	07/23/2014	ND						

Surrogate: 1-Chlorooctane 203 % 65.2-140

Surrogate: 1-Chlorooctadecane 237 % 63.6-154

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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:	07/18/2014	Sampling Date:	07/17/2014
Reported:	07/24/2014	Sampling Type:	Soil
Project Name:	PLU #303H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	UL-N SEC.4, T25S, R31E		

**Sample ID: SP 2 (3') (H402201-09)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>11.5</b>	2.00	07/24/2014	ND	1.80	90.2	2.00	2.23	
<b>Toluene*</b>	<b>80.7</b>	2.00	07/24/2014	ND	1.86	93.1	2.00	2.92	
<b>Ethylbenzene*</b>	<b>25.5</b>	2.00	07/24/2014	ND	1.88	94.2	2.00	2.95	
<b>Total Xylenes*</b>	<b>115</b>	6.00	07/24/2014	ND	5.68	94.7	6.00	3.26	
<b>Total BTEX</b>	<b>232</b>	12.0	07/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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>16.0</b>	16.0	07/22/2014	ND	416	104	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	
<b>GRO C6-C10</b>	<b>4410</b>	50.0	07/23/2014	ND	188	93.9	200	0.985		
<b>DRO &gt;C10-C28</b>	<b>8440</b>	50.0	07/23/2014	ND	201	101	200	2.25		
<b>EXT DRO &gt;C28-C35</b>	<b>1160</b>	50.0	07/23/2014	ND						

Surrogate: 1-Chlorooctane 186 % 65.2-140

Surrogate: 1-Chlorooctadecane 212 % 63.6-154

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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:	07/18/2014	Sampling Date:	07/17/2014
Reported:	07/24/2014	Sampling Type:	Soil
Project Name:	PLU #303H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	UL-N SEC.4, T25S, R31E		

**Sample ID: SP 2 (4') (H402201-10)**

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	07/24/2014	ND	1.80	90.2	2.00	2.23	
<b>Toluene*</b>	<b>0.050</b>	0.050	07/24/2014	ND	1.86	93.1	2.00	2.92	
<b>Ethylbenzene*</b>	<b>0.070</b>	0.050	07/24/2014	ND	1.88	94.2	2.00	2.95	
<b>Total Xylenes*</b>	<b>0.194</b>	0.150	07/24/2014	ND	5.68	94.7	6.00	3.26	
<b>Total BTEX</b>	<b>0.314</b>	0.300	07/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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>16.0</b>	16.0	07/22/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>40.5</b>	10.0	07/23/2014	ND	188	93.9	200	0.985	
<b>DRO &gt;C10-C28</b>	<b>551</b>	10.0	07/23/2014	ND	201	101	200	2.25	
<b>EXT DRO &gt;C28-C35</b>	<b>87.1</b>	10.0	07/23/2014	ND					

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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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:	07/18/2014	Sampling Date:	07/17/2014
Reported:	07/24/2014	Sampling Type:	Soil
Project Name:	PLU #303H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	UL-N SEC.4, T25S, R31E		

**Sample ID: SP 2 (5') (H402201-11)**

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	07/24/2014	ND	1.80	90.2	2.00	2.23		
Toluene*	<0.050	0.050	07/24/2014	ND	1.86	93.1	2.00	2.92		
Ethylbenzene*	<0.050	0.050	07/24/2014	ND	1.88	94.2	2.00	2.95		
Total Xylenes*	<0.150	0.150	07/24/2014	ND	5.68	94.7	6.00	3.26		
Total BTEX	<0.300	0.300	07/24/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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>16.0</b>	16.0	07/22/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/23/2014	ND	188	93.9	200	0.985		
DRO >C10-C28	<10.0	10.0	07/23/2014	ND	201	101	200	2.25		
EXT DRO >C28-C35	<10.0	10.0	07/23/2014	ND						

Surrogate: 1-Chlorooctane 100 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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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:	07/18/2014	Sampling Date:	07/17/2014
Reported:	07/24/2014	Sampling Type:	Soil
Project Name:	PLU #303H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	UL-N SEC.4, T25S, R31E		

**Sample ID: SP 2 (7') (H402201-12)**

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	07/24/2014	ND	1.80	90.2	2.00	2.23		
Toluene*	<0.050	0.050	07/24/2014	ND	1.86	93.1	2.00	2.92		
Ethylbenzene*	<0.050	0.050	07/24/2014	ND	1.88	94.2	2.00	2.95		
Total Xylenes*	<0.150	0.150	07/24/2014	ND	5.68	94.7	6.00	3.26		
Total BTEX	<0.300	0.300	07/24/2014	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	
Chloride	<16.0	16.0	07/22/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/23/2014	ND	188	93.9	200	0.985		
DRO >C10-C28	<10.0	10.0	07/23/2014	ND	201	101	200	2.25		
EXT DRO >C28-C35	<10.0	10.0	07/23/2014	ND						

Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 63.6-154

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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:	07/18/2014	Sampling Date:	07/17/2014
Reported:	07/24/2014	Sampling Type:	Soil
Project Name:	PLU #303H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	UL-N SEC.4, T25S, R31E		

**Sample ID: SP 3 (1') (H402201-13)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>8.29</b>	1.00	07/24/2014	ND	1.80	90.2	2.00	2.23	
<b>Toluene*</b>	<b>85.8</b>	1.00	07/24/2014	ND	1.86	93.1	2.00	2.92	
<b>Ethylbenzene*</b>	<b>32.2</b>	1.00	07/24/2014	ND	1.88	94.2	2.00	2.95	
<b>Total Xylenes*</b>	<b>160</b>	3.00	07/24/2014	ND	5.68	94.7	6.00	3.26	
<b>Total BTEX</b>	<b>286</b>	6.00	07/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 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	<16.0	16.0	07/22/2014	ND	416	104	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	
<b>GRO C6-C10</b>	<b>5680</b>	50.0	07/23/2014	ND	188	93.9	200	0.985		
<b>DRO &gt;C10-C28</b>	<b>13100</b>	50.0	07/23/2014	ND	201	101	200	2.25		
<b>EXT DRO &gt;C28-C35</b>	<b>1850</b>	50.0	07/23/2014	ND						

Surrogate: 1-Chlorooctane 232 % 65.2-140

Surrogate: 1-Chlorooctadecane 283 % 63.6-154

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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:	07/18/2014	Sampling Date:	07/17/2014
Reported:	07/24/2014	Sampling Type:	Soil
Project Name:	PLU #303H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	UL-N SEC.4, T25S, R31E		

**Sample ID: SP 3 (2') (H402201-14)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>21.2</b>	5.00	07/23/2014	ND	2.14	107	2.00	2.95	
<b>Toluene*</b>	<b>126</b>	5.00	07/23/2014	ND	2.21	110	2.00	4.35	
<b>Ethylbenzene*</b>	<b>51.6</b>	5.00	07/23/2014	ND	2.24	112	2.00	3.99	
<b>Total Xylenes*</b>	<b>212</b>	15.0	07/23/2014	ND	6.85	114	6.00	4.88	
<b>Total BTEX</b>	<b>411</b>	30.0	07/23/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	07/22/2014	ND	416	104	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
<b>GRO C6-C10</b>	<b>5790</b>	50.0	07/23/2014	ND	188	93.9	200	0.985	
<b>DRO &gt;C10-C28</b>	<b>11700</b>	50.0	07/23/2014	ND	201	101	200	2.25	
<b>EXT DRO &gt;C28-C35</b>	<b>1660</b>	50.0	07/23/2014	ND					

Surrogate: 1-Chlorooctane 210 % 65.2-140

Surrogate: 1-Chlorooctadecane 262 % 63.6-154

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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:	07/18/2014	Sampling Date:	07/17/2014
Reported:	07/24/2014	Sampling Type:	Soil
Project Name:	PLU #303H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	UL-N SEC.4, T25S, R31E		

**Sample ID: SP 3 (3') (H402201-15)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>10.4</b>	5.00	07/23/2014	ND	2.14	107	2.00	2.95	
<b>Toluene*</b>	<b>74.5</b>	5.00	07/23/2014	ND	2.21	110	2.00	4.35	
<b>Ethylbenzene*</b>	<b>33.3</b>	5.00	07/23/2014	ND	2.24	112	2.00	3.99	
<b>Total Xylenes*</b>	<b>137</b>	15.0	07/23/2014	ND	6.85	114	6.00	4.88	
<b>Total BTEX</b>	<b>255</b>	30.0	07/23/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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>32.0</b>	16.0	07/22/2014	ND	416	104	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	
<b>GRO C6-C10</b>	<b>3910</b>	50.0	07/23/2014	ND	188	93.9	200	0.985		
<b>DRO &gt;C10-C28</b>	<b>8390</b>	50.0	07/23/2014	ND	201	101	200	2.25		
<b>EXT DRO &gt;C28-C35</b>	<b>1200</b>	50.0	07/23/2014	ND						

Surrogate: 1-Chlorooctane 186 % 65.2-140

Surrogate: 1-Chlorooctadecane 214 % 63.6-154

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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:	07/18/2014	Sampling Date:	07/17/2014
Reported:	07/24/2014	Sampling Type:	Soil
Project Name:	PLU #303H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	UL-N SEC.4, T25S, R31E		

**Sample ID: SP 3 (4') (H402201-16)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>60.4</b>	10.0	07/23/2014	ND	2.14	107	2.00	2.95	
<b>Toluene*</b>	<b>318</b>	10.0	07/23/2014	ND	2.21	110	2.00	4.35	
<b>Ethylbenzene*</b>	<b>97.4</b>	10.0	07/23/2014	ND	2.24	112	2.00	3.99	
<b>Total Xylenes*</b>	<b>401</b>	30.0	07/23/2014	ND	6.85	114	6.00	4.88	
<b>Total BTEX</b>	<b>877</b>	60.0	07/23/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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>32.0</b>	16.0	07/22/2014	ND	416	104	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	
<b>GRO C6-C10</b>	<b>14700</b>	50.0	07/23/2014	ND	188	93.9	200	0.985		
<b>DRO &gt;C10-C28</b>	<b>25000</b>	50.0	07/23/2014	ND	201	101	200	2.25		
<b>EXT DRO &gt;C28-C35</b>	<b>3320</b>	50.0	07/23/2014	ND						

Surrogate: 1-Chlorooctane 467 % 65.2-140

Surrogate: 1-Chlorooctadecane 540 % 63.6-154

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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:	07/18/2014	Sampling Date:	07/17/2014
Reported:	07/24/2014	Sampling Type:	Soil
Project Name:	PLU #303H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	UL-N SEC.4, T25S, R31E		

**Sample ID: SP 3 (5') (H402201-17)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>33.6</b>	10.0	07/23/2014	ND	2.14	107	2.00	2.95	
<b>Toluene*</b>	<b>217</b>	10.0	07/23/2014	ND	2.21	110	2.00	4.35	
<b>Ethylbenzene*</b>	<b>89.0</b>	10.0	07/23/2014	ND	2.24	112	2.00	3.99	
<b>Total Xylenes*</b>	<b>370</b>	30.0	07/23/2014	ND	6.85	114	6.00	4.88	
<b>Total BTEX</b>	<b>710</b>	60.0	07/23/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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>16.0</b>	16.0	07/22/2014	ND	416	104	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	
<b>GRO C6-C10</b>	<b>10900</b>	50.0	07/23/2014	ND	188	93.9	200	0.985		
<b>DRO &gt;C10-C28</b>	<b>23300</b>	50.0	07/23/2014	ND	201	101	200	2.25		
<b>EXT DRO &gt;C28-C35</b>	<b>3300</b>	50.0	07/23/2014	ND						

Surrogate: 1-Chlorooctane 331 % 65.2-140

Surrogate: 1-Chlorooctadecane 523 % 63.6-154

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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:	07/18/2014	Sampling Date:	07/17/2014
Reported:	07/24/2014	Sampling Type:	Soil
Project Name:	PLU #303H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	UL-N SEC.4, T25S, R31E		

**Sample ID: SP 3 (7') (H402201-18)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.067</b>	0.050	07/23/2014	ND	2.14	107	2.00	2.95	
<b>Toluene*</b>	<b>0.237</b>	0.050	07/23/2014	ND	2.21	110	2.00	4.35	
<b>Ethylbenzene*</b>	<b>0.269</b>	0.050	07/23/2014	ND	2.24	112	2.00	3.99	
<b>Total Xylenes*</b>	<b>1.05</b>	0.150	07/23/2014	ND	6.85	114	6.00	4.88	
<b>Total BTEX</b>	<b>1.62</b>	0.300	07/23/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 148 % 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>32.0</b>	16.0	07/22/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>46.9</b>	10.0	07/23/2014	ND	188	93.9	200	0.985	
<b>DRO &gt;C10-C28</b>	<b>446</b>	10.0	07/23/2014	ND	201	101	200	2.25	
<b>EXT DRO &gt;C28-C35</b>	<b>75.2</b>	10.0	07/23/2014	ND					

Surrogate: 1-Chlorooctane 107 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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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:	07/18/2014	Sampling Date:	07/17/2014
Reported:	07/24/2014	Sampling Type:	Soil
Project Name:	PLU #303H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	UL-N SEC.4, T25S, R31E		

**Sample ID: SP 3 (9') (H402201-19)**

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	07/23/2014	ND	2.14	107	2.00	2.95		
Toluene*	<0.050	0.050	07/23/2014	ND	2.21	110	2.00	4.35		
Ethylbenzene*	<0.050	0.050	07/23/2014	ND	2.24	112	2.00	3.99		
Total Xylenes*	<0.150	0.150	07/23/2014	ND	6.85	114	6.00	4.88		
Total BTEX	<0.300	0.300	07/23/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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>96.0</b>	16.0	07/22/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/23/2014	ND	188	93.9	200	0.985		
<b>DRO &gt;C10-C28</b>	<b>10.9</b>	10.0	07/23/2014	ND	201	101	200	2.25		
EXT DRO >C28-C35	<10.0	10.0	07/23/2014	ND						

Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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**Analytical Results For:**

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

Received:	07/18/2014	Sampling Date:	07/17/2014
Reported:	07/24/2014	Sampling Type:	Soil
Project Name:	PLU #303H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	UL-N SEC.4, T25S, R31E		

**Sample ID: SP 3 (10') (H402201-20)**

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	07/23/2014	ND	2.14	107	2.00	2.95		
Toluene*	<0.050	0.050	07/23/2014	ND	2.21	110	2.00	4.35		
Ethylbenzene*	<0.050	0.050	07/23/2014	ND	2.24	112	2.00	3.99		
Total Xylenes*	<0.150	0.150	07/23/2014	ND	6.85	114	6.00	4.88		
Total BTEX	<0.300	0.300	07/23/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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>16.0</b>	16.0	07/22/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/23/2014	ND	188	93.9	200	0.985		
DRO >C10-C28	<10.0	10.0	07/23/2014	ND	201	101	200	2.25		
EXT DRO >C28-C35	<10.0	10.0	07/23/2014	ND						

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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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



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Celey D. Keene, Lab Director/Quality Manager

# Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231  
 (575) 394-3481 FAX: (575) 394-2601

P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

LAB

Cardinal

**Company Name** Environmental Plus, Inc.  
**EPI Project Manager** Daniel Dominguez  
**Mailing Address** P.O. BOX 1558  
**City, State, Zip** Eunice New Mexico 88231  
**EPI Phone#/Fax#** 575-394-3481 / 575-394-2601  
**Client Company** BOPCO  
**Facility Name** PLU #303H  
**Location** UL-N Sec. 4, T25S, R31E  
**Project Reference**  
**EPI Sampler Name** David Robinson

**Bill To**



Attn: Daniel Dominguez  
 P.O. Box 1558  
 Eunice, NM 88231

**ANALYSIS REQUEST**

BTEX 8021B	X
TPH 8015M	X
CHLORIDES (Cl <sup>-</sup> )	X
SULFATES (SO <sub>4</sub> <sup>2-</sup> )	
pH	
TCLP	
OTHER >>>	
PAH	

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl <sup>-</sup> )	SULFATES (SO <sub>4</sub> <sup>2-</sup> )	pH	TCLP	OTHER >>>	PAH
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE												
HYD2001																						
	1 SP1 (1')	G	1	X							X	17-Jul-14	9:45	X	X	X						
	2 SP1 (2')	G	1	X							X	17-Jul-14	9:46	X	X	X						
	3 SP1 (3')	G	1	X							X	17-Jul-14	9:47	X	X	X						
	4 SP1 (4')	G	1	X							X	17-Jul-14	9:48	X	X	X						
	5 SP1 (5')	G	1	X							X	17-Jul-14	9:49	X	X	X						
	6 SP1 (7')	G	1	X							X	17-Jul-14	10:55	X	X	X						
	7 SP2 (1')	G	1	X							X	17-Jul-14	11:55	X	X	X						
	8 SP2 (2')	G	1	X							X	17-Jul-14	11:56	X	X	X						
	9 SP2 (3')	G	1	X							X	17-Jul-14	11:57	X	X	X						
	10 SP2 (4')	G	1	X							X	17-Jul-14	11:58	X	X	X						

**Sampler Reinspected:** *David Robinson* Date: *7/18/14* Received By: *David Robinson*

**Reinspected by:** *David Robinson* Date: *7/18/14* Received By: (lab staff) *David Robinson*

**Delivered by:** *David Robinson* Date: *7/18/14* Time: *3:30 pm* Sample Cool & Intact:  Yes  No Checked By: *David Robinson*

**NOTES:** E-mail results to: ddominguezepi@gmail.com & bblevins@basspet.com

*5-20e-H54*



**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**

nHMP 1419937403

**OPERATOR**

Initial Report  Final Report

Name of Company: BOPCO, L.P. <u>260737</u>	Contact: Tony Savoie
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329
Facility Name: Poker Lake Unit 303 Tank Battery	Facility Type: Exploration and Production
Surface Owner: Federal	Mineral Owner: Federal
API No. 30-015-37646	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	4	25S	31E	1264	South	2310	West	Eddy

Latitude N 32.155387 Longitude W 103.784570

**NATURE OF RELEASE**

Type of Release: Crude Oil	Volume of Release: 28 bbls crude oil	Volume Recovered: 5 bbls
Source of Release: Facility sump	Date and Hour of Occurrence: 7/8/14 time unknown	Date and Hour of Discovery: 7/8/14 at approximately 3:00 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher NMOCD	
By Whom? Tony Savoie	Date and Hour: 7/9/14 at 9:00 a.m.	
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 valve was left open on the circulating pump to the sump suction line causing the sump to overflow. Valves were aligned in the correct position.

Describe Area Affected and Cleanup Action Taken.\*  
The spill impacted approximately 1355 sq.ft. of mostly pasture area. The free standing fluid was recovered, the stained soil was left as is pending remediation. The impacted area will be cleaned up in accordance to the NMOCD and BLM 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: <u>Tony Savoie</u>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Tony Savoie	Approved by Environmental Specialist: <u>[Signature]</u>	
Title: Waste Management and Remediation Specialist	Approval Date: <u>7/18/14</u>	Expiration Date: <u>NA</u>
E-mail Address: <u>tasavoie@basspet.com</u>	Conditions of Approval: Remediation per OCD Rule & Guidelines, & like approval by BLM. <b>SUBMIT REMEDIATION</b>	
Date: 7/10/14	Phone: 432-556-8730	Attached <input type="checkbox"/>

\* Attach Additional Sheets If Necessary

**PROPOSAL NO LATER THAN:**

8/18/14

ZRP-2374

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 303 Tank Battery		<b>Facility Type:</b> Exploration and Production	
<b>Surface Owner:</b> Federal		<b>Mineral Owner:</b> Federal	
		<b>API No.:</b> 30-015-37646	

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	4	25S	31E	1264	South	2310	West	Eddy

**Latitude:** N 32° 9' 19.38" **Longitude:** W 103° 47' 4.43"

### NATURE OF RELEASE

<b>Type of Release:</b> crude oil	<b>Volume of Release:</b> 28 bbl	<b>Volume Recovered:</b> 5 bbl
<b>Source of Release:</b> facility sump	<b>Date and Hour of Occurrence:</b> 7/8/14 time unknown	<b>Date and Hour of Discovery:</b> 7/8/14 @ ~ 3:00 pm
<b>Was Immediate Notice Given?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	<b>If YES, To Whom?</b> Mike Bratcher, NMOCD	
<b>By Whom?</b> Tony Savoie	<b>Date and Hour:</b> 7/9/14 @ 9:00 am	
<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> ~460 ft bgs		
<b>If a Watercourse was Impacted, Describe Fully.*</b> Not Applicable		
<b>Describe Cause of Problem and Remedial Action Taken.*</b> A valve was left open on the circulating pump to the sump suction line causing the sump to overflow. Valves were aligned in the correct position.		
<b>Describe Area Affected and Cleanup Action Taken.*</b> The spill impacted approximately 1,355 sq. ft. of mostly pasture area. The free standing fluid was recovered, the contaminated soil has been removed and hauled away to a state approved disposal facility and the excavation has been backfilled with clean soil. The impacted area has been cleaned up in accordance to the NMOCD and BLM 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.		

<b><u>OIL CONSERVATION DIVISION</u></b>	
<b>Signature:</b> 	<b>Approved by District Supervisor:</b>
<b>Printed Name:</b> Brad Blevins	<b>Approval Date:</b>
<b>Title:</b> EHS Asst. Remediation Foreman	<b>Expiration Date:</b>
<b>E-mail Address:</b> <a href="mailto:bblevins@basspet.com">bblevins@basspet.com</a>	<b>Conditions of Approval:</b>
<b>Date:</b> 10-9-14 <b>Phone:</b> (432) 214-3704	<b>Attached</b> <input type="checkbox"/>

\* Attach Additional Sheets If Necessary