

**From:** [Blevins, Bradley](#)  
**To:** [Bratcher, Mike, EMNRD](#); [Patterson, Heather, EMNRD](#)  
**Cc:** [Blevins, Bradley](#)  
**Subject:** PLU CVX JV PC 012H  
**Date:** Wednesday, December 16, 2015 7:56:43 AM  
**Attachments:** PLU PC #012H Table 2.pdf  
H503185 EPI.pdf

---

All,

BOPCO EHS was notified of a release that occurred at the PLU PC 16 State 1 (12-3-15). The threads on a 45 elbow failed releasing fluid to the lined containment and a small area outside of containment. A contract gang replaced the failed equipment. The liner was power washed and fluid was recovered, I would like to propose surface removal of saturated soils and proceed with backfilling. Attached you will find the supporting documentation, let me know if you have any questions or concerns. Thank you.

15 barrels oil was released into lined containment. All fluid was recovered

3.5 barrels oil released outside containment and 1.5 barrels oil recovered.

Brad Blevins  
Remediation Foreman  
BOPCO, LP  
522 W. Mermod, Suite 704  
Carlsbad, NM 88220  
Office-575-887-7329  
Cell-1-432-214-3704  
[bblevins@basspet.com](mailto:bblevins@basspet.com)

**TABLE 2**  
**Summary of Soil Sample Field Testing and Laboratory Analytical Results**  
**Bopco L.P.**  
**PLU CVX JV PC #012H**

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	In Situ	04-Dec-15	572	>4,000	<0.050	0.059	0.104	0.585	0.747	21.8	1,060	152	1,234	<b>10,800</b>
	1	In Situ	04-Dec-15	10.8	200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	240
SP2	Surface	In Situ	04-Dec-15	359	>4,000	<0.050	0.053	0.301	2.07	2.42	121	2,420	385	2,926	<b>11,400</b>
	1	In Situ	04-Dec-15	10.6	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	23.4	23.4	48
	2	In Situ	04-Dec-15	8.5	160	--	--	--	--	--	--	--	--	--	--
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











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

---

December 11, 2015

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: PLU PC #12H

Enclosed are the results of analyses for samples received by the laboratory on 12/07/15 15:22.

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: 12/07/2015  
Reported: 12/11/2015  
Project Name: PLU PC #12H  
Project Number: NONE GIVEN  
Project Location: UL-P SEC. 16, T25S, R30E

Sampling Date: 12/04/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP1 ( SURFACE ) (H503185-01)**

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	12/09/2015	ND	1.62	80.8	2.00	3.31	
<b>Toluene*</b>	<b>0.059</b>	0.050	12/09/2015	ND	1.61	80.6	2.00	3.71	
<b>Ethylbenzene*</b>	<b>0.104</b>	0.050	12/09/2015	ND	1.65	82.6	2.00	3.94	
<b>Total Xylenes*</b>	<b>0.585</b>	0.150	12/09/2015	ND	5.05	84.2	6.00	3.89	
<b>Total BTX</b>	<b>0.747</b>	0.300	12/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.6-140

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>10800</b>	16.0	12/10/2015	ND	384	96.0	400	11.8	

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>21.8</b>	10.0	12/08/2015	ND	186	93.0	200	7.67	
<b>DRO &gt;C10-C28</b>	<b>1060</b>	10.0	12/08/2015	ND	177	88.3	200	12.5	
<b>EXT DRO &gt;C28-C35</b>	<b>152</b>	10.0	12/08/2015	ND					

Surrogate: 1-Chlorooctane 81.2 % 35-147

Surrogate: 1-Chlorooctadecane 83.2 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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: 12/07/2015  
Reported: 12/11/2015  
Project Name: PLU PC #12H  
Project Number: NONE GIVEN  
Project Location: UL-P SEC. 16, T25S, R30E

Sampling Date: 12/04/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP1 ( 1' ) (H503185-02)**

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	12/09/2015	ND	1.62	80.8	2.00	3.31	
Toluene*	<0.050	0.050	12/09/2015	ND	1.61	80.6	2.00	3.71	
Ethylbenzene*	<0.050	0.050	12/09/2015	ND	1.65	82.6	2.00	3.94	
Total Xylenes*	<0.150	0.150	12/09/2015	ND	5.05	84.2	6.00	3.89	
Total BTX	<0.300	0.300	12/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/10/2015	ND	384	96.0	400	11.8	

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	12/08/2015	ND	186	93.0	200	7.67	
DRO >C10-C28	<10.0	10.0	12/08/2015	ND	177	88.3	200	12.5	
EXT DRO >C28-C35	<10.0	10.0	12/08/2015	ND					

Surrogate: 1-Chlorooctane 82.6 % 35-147

Surrogate: 1-Chlorooctadecane 82.0 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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: 12/07/2015  
Reported: 12/11/2015  
Project Name: PLU PC #12H  
Project Number: NONE GIVEN  
Project Location: UL-P SEC. 16, T25S, R30E

Sampling Date: 12/04/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP2 ( SURFACE ) (H503185-03)**

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	12/09/2015	ND	1.62	80.8	2.00	3.31	
Toluene*	0.053	0.050	12/09/2015	ND	1.61	80.6	2.00	3.71	
Ethylbenzene*	0.301	0.050	12/09/2015	ND	1.65	82.6	2.00	3.94	
Total Xylenes*	2.07	0.150	12/09/2015	ND	5.05	84.2	6.00	3.89	
Total BTX	2.42	0.300	12/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11400	16.0	12/10/2015	ND	384	96.0	400	11.8		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	121	10.0	12/08/2015	ND	186	93.0	200	7.67	
DRO >C10-C28	2420	10.0	12/08/2015	ND	177	88.3	200	12.5	
EXT DRO >C28-C35	385	10.0	12/08/2015	ND					

Surrogate: 1-Chlorooctane 112 % 35-147

Surrogate: 1-Chlorooctadecane 112 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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: 12/07/2015  
Reported: 12/11/2015  
Project Name: PLU PC #12H  
Project Number: NONE GIVEN  
Project Location: UL-P SEC. 16, T25S, R30E

Sampling Date: 12/04/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP2 ( 1' ) (H503185-04)**

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	12/09/2015	ND	1.62	80.8	2.00	3.31	
Toluene*	<0.050	0.050	12/09/2015	ND	1.61	80.6	2.00	3.71	
Ethylbenzene*	<0.050	0.050	12/09/2015	ND	1.65	82.6	2.00	3.94	
Total Xylenes*	<0.150	0.150	12/09/2015	ND	5.05	84.2	6.00	3.89	
Total BTX	<0.300	0.300	12/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500Cl-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	12/11/2015	ND	400	100	400	7.69	

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	12/08/2015	ND	186	93.0	200	7.67	
DRO >C10-C28	<10.0	10.0	12/08/2015	ND	177	88.3	200	12.5	
EXT DRO >C28-C35	23.4	10.0	12/08/2015	ND					

Surrogate: 1-Chlorooctane 82.6 % 35-147

Surrogate: 1-Chlorooctadecane 85.2 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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

---

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



---

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 PC #12H

Location UL-P Sec. 16, T25S, R30E

AFE#

EPI Sampler Name David Robinson

## Bill To

BOPCO, L.P.  
Attn: Brad Blevins  
522 W. Mermod, Suite 704  
Carlsbad, NM 88220

## ANALYSIS REQUEST

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	ANALYSIS REQUEST										
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:			ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl <sup>-</sup> )	SULFATES (SO <sub>4</sub> <sup>2-</sup> )	pH	TCLP
H503185	1 SP1 (Surface)	G	1			X																
	2 SP1 (1')	G	1			X																
	3 SP2 (Surface)	G	1			X																
	4 SP2 (1')	G	1			X																
	5																					
	6																					
	7																					
	8																					
	9																					
	10																					

Sampler Relinquished:

Relinquished by:

Delivered by:

Date 12/7/15

Time 6:00 am

Date 12/7/15

Time 3:30 pm

Received By:

Received By: (lab staff)

Received By:

Received By:

Received By:

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

NOTES: & tasavoi@basspet.com

Sample Cool & Intact Yes No

Checked By:

Checked By:

Checked By:

Checked By:

Checked By:

Checked By: