

**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

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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  
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**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







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 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	Sampling Date:	12/04/2015
Reported:	12/11/2015	Sampling Type:	Soil
Project Name:	PLU PC #12H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-P SEC. 16, T25S, R30E		

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

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	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 BTEX</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

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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:	12/07/2015	Sampling Date:	12/04/2015
Reported:	12/11/2015	Sampling Type:	Soil
Project Name:	PLU PC #12H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-P SEC. 16, T25S, R30E		

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

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	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 BTEX	<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	
<b>Chloride</b>	<b>240</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	
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

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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:	12/07/2015	Sampling Date:	12/04/2015
Reported:	12/11/2015	Sampling Type:	Soil
Project Name:	PLU PC #12H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-P SEC. 16, T25S, R30E		

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

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	12/09/2015	ND	1.62	80.8	2.00	3.31	
<b>Toluene*</b>	<b>0.053</b>	0.050	12/09/2015	ND	1.61	80.6	2.00	3.71	
<b>Ethylbenzene*</b>	<b>0.301</b>	0.050	12/09/2015	ND	1.65	82.6	2.00	3.94	
<b>Total Xylenes*</b>	<b>2.07</b>	0.150	12/09/2015	ND	5.05	84.2	6.00	3.89	
<b>Total BTEX</b>	<b>2.42</b>	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
<b>Chloride</b>	<b>11400</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>121</b>	10.0	12/08/2015	ND	186	93.0	200	7.67	
<b>DRO &gt;C10-C28</b>	<b>2420</b>	10.0	12/08/2015	ND	177	88.3	200	12.5	
<b>EXT DRO &gt;C28-C35</b>	<b>385</b>	10.0	12/08/2015	ND					

Surrogate: 1-Chlorooctane 112 % 35-147

Surrogate: 1-Chlorooctadecane 112 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	12/07/2015	Sampling Date:	12/04/2015
Reported:	12/11/2015	Sampling Type:	Soil
Project Name:	PLU PC #12H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-P SEC. 16, T25S, R30E		

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

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTEX	<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
<b>Chloride</b>	<b>48.0</b>	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	
<b>EXT DRO &gt;C28-C35</b>	<b>23.4</b>	10.0	12/08/2015	ND					

Surrogate: 1-Chlorooctane 82.6 % 35-147

Surrogate: 1-Chlorooctadecane 85.2 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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

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Celey D. Keene, Lab Director/Quality Manager

