

## Bratcher, Mike, EMNRD

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**From:** Blevins, Bradley G <Bradley.Blevins@chevron.com>  
**Sent:** Thursday, January 17, 2013 2:45 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Blevins, Bradley G  
**Subject:** FW: PARDUE FARMS WELL #2  
**Attachments:** H300055 EPI.pdf

Mike,

Please find the attached lab data for the Pardue Farms CTB, this is the battery that we had the two heater treaters catch fire. I would like to request the removal of one foot of soil from the SP1 area and two feet of soil from the SP2 area. Upon approval, backfill the area with clean material and install new equipment. If you have any questions please let me know.

Thanks, Bradley.

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**From:** Celey Keene [<mailto:celey.keene@cardinallabsnm.com>]  
**Sent:** Thursday, January 17, 2013 3:21 PM  
**To:** Daniel Dominguez; Blevins, Bradley G  
**Subject:** PARDUE FARMS WELL #2

THANK YOU,

**Celey Keene**  
**Lab Director**  
**Cardinal Laboratories**  
101 East Marland  
Hobbs, NM 88240  
T: (575) 393-2326  
F: (575) 393-2476  
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PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

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January 17, 2013

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

RE: PARDUE FARMS WELL #2

Enclosed are the results of analyses for samples received by the laboratory on 01/09/13 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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,

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: 01/09/2013  
 Reported: 01/17/2013  
 Project Name: PARDUE FARMS WELL #2  
 Project Number: NONE GIVEN  
 Project Location: UL-H SEC. 10, T23S, R28E

 Sampling Date: 01/08/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 (SURFACE) (H300055-01)**

BTX 80218		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2013	ND	1.78	89.0	2.00	19.6	
Toluene*	<b>0.095</b>	0.050	01/16/2013	ND	1.95	97.5	2.00	17.8	
Ethylbenzene*	<0.050	0.050	01/16/2013	ND	1.89	94.4	2.00	17.3	
Total Xylenes*	<b>0.229</b>	0.150	01/16/2013	ND	5.68	94.7	6.00	17.4	
Total BTX	<b>0.323</b>	0.300	01/16/2013	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>2280</b>	16.0	01/15/2013	ND	432	108	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	01/14/2013	ND	195	97.4	200	0.708	
DRO >C10-C28	<b>638</b>	10.0	01/14/2013	ND	205	103	200	0.931	

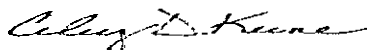
Surrogate: 1-Chlorooctane 96.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 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: 01/09/2013  
Reported: 01/17/2013  
Project Name: PARDUE FARMS WELL #2  
Project Number: NONE GIVEN  
Project Location: UL-H SEC. 10, T23S, R28E

Sampling Date: 01/08/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 (1') (H300055-02)**

BTEX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2013	ND	1.78	89.0	2.00	19.6	
Toluene*	<0.050	0.050	01/16/2013	ND	1.95	97.5	2.00	17.8	
Ethylbenzene*	<0.050	0.050	01/16/2013	ND	1.89	94.4	2.00	17.3	
Total Xylenes*	<0.150	0.150	01/16/2013	ND	5.68	94.7	6.00	17.4	
Total BTEX	<0.300	0.300	01/16/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 128 % 89.4-126

Chloride, SM4S00CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/15/2013	ND	432	108	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	01/14/2013	ND	195	97.4	200	0.708	
DRO >C10-C28	<10.0	10.0	01/14/2013	ND	205	103	200	0.931	

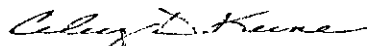
Surrogate: 1-Chlorooctane 91.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 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: 01/09/2013  
 Reported: 01/17/2013  
 Project Name: PARDUE FARMS WELL #2  
 Project Number: NONE GIVEN  
 Project Location: UL-H SEC. 10, T23S, R28E

 Sampling Date: 01/08/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 (2') (H300055-03)**

BTX 8021B			mg/kg		Analyzed By: AP			S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/15/2013	ND	1.78	89.0	2.00	19.6		
Toluene*	<0.050	0.050	01/15/2013	ND	1.95	97.5	2.00	17.8		
Ethylbenzene*	<0.050	0.050	01/15/2013	ND	1.89	94.4	2.00	17.3		
Total Xylenes*	<0.150	0.150	01/15/2013	ND	5.68	94.7	6.00	17.4		
Total BTX	<0.300	0.300	01/15/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 128 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/15/2013	ND	432	108	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	01/15/2013	ND	195	97.4	200	0.708	
DRO >C10-C28	<10.0	10.0	01/15/2013	ND	205	103	200	0.931	

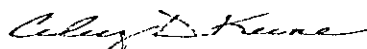
Surrogate: 1-Chlorooctane 92.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 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: 01/09/2013  
 Reported: 01/17/2013  
 Project Name: PARDUE FARMS WELL #2  
 Project Number: NONE GIVEN  
 Project Location: UL-H SEC. 10, T23S, R28E

 Sampling Date: 01/08/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 (SURFACE) (H300055-04)**

BTEX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>15.2</b>	1.00	01/16/2013	ND	1.78	89.0	2.00	19.6	
<b>Toluene*</b>	<b>94.4</b>	1.00	01/16/2013	ND	1.95	97.5	2.00	17.8	
<b>Ethylbenzene*</b>	<b>35.2</b>	1.00	01/16/2013	ND	1.89	94.4	2.00	17.3	
<b>Total Xylenes*</b>	<b>147</b>	3.00	01/16/2013	ND	5.68	94.7	6.00	17.4	
<b>Total BTEX</b>	<b>292</b>	6.00	01/16/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 182 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2880</b>	16.0	01/15/2013	ND	432	108	400	0.00	
<b>TPH 8015M</b>		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>5110</b>	50.0	01/15/2013	ND	195	97.4	200	0.708	
<b>DRO &gt;C10-C28</b>	<b>14200</b>	50.0	01/15/2013	ND	205	103	200	0.931	


Surrogate: 1-Chlorooctane 234 % 65.2-140

Surrogate: 1-Chlorooctadecane 409 % 63.6-154

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\*=Accredited Analyte

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Celest 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: 01/09/2013  
Reported: 01/17/2013  
Project Name: PARDUE FARMS WELL #2  
Project Number: NONE GIVEN  
Project Location: UL-H SEC. 10, T23S, R28E

Sampling Date: 01/08/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 (1') (H300055-05)**

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.097</b>	0.050	01/16/2013	ND	1.78	89.0	2.00	19.6	
<b>Toluene*</b>	<b>0.286</b>	0.050	01/16/2013	ND	1.95	97.5	2.00	17.8	
<b>Ethylbenzene*</b>	<b>0.052</b>	0.050	01/16/2013	ND	1.89	94.4	2.00	17.3	
<b>Total Xylenes*</b>	<b>0.213</b>	0.150	01/16/2013	ND	5.68	94.7	6.00	17.4	
<b>Total BTX</b>	<b>0.649</b>	0.300	01/16/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 129 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>4280</b>	16.0	01/15/2013	ND	432	108	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	<50.0	50.0	01/15/2013	ND	195	97.4	200	0.708	
<b>DRO &gt;C10-C28</b>	<b>1840</b>	50.0	01/15/2013	ND	205	103	200	0.931	

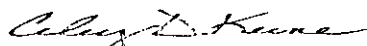
Surrogate: 1-Chlorooctane 83.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 141 % 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: 01/09/2013  
Reported: 01/17/2013  
Project Name: PARDUE FARMS WELL #2  
Project Number: NONE GIVEN  
Project Location: UL-H SEC. 10, T23S, R28E

Sampling Date: 01/08/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 (2') (H300055-06)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2013	ND	1.78	89.0	2.00	19.6	
Toluene*	<0.050	0.050	01/16/2013	ND	1.95	97.5	2.00	17.8	
Ethylbenzene*	<0.050	0.050	01/16/2013	ND	1.89	94.4	2.00	17.3	
Total Xylenes*	<0.150	0.150	01/16/2013	ND	5.68	94.7	6.00	17.4	
Total BTEX	<0.300	0.300	01/16/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 125 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/15/2013	ND	432	108	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	01/15/2013	ND	195	97.4	200	0.708	
DRO >C10-C28	28.4	10.0	01/15/2013	ND	205	103	200	0.931	


Surrogate: 1-Chlorooctane 92.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 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: 01/09/2013  
Reported: 01/17/2013  
Project Name: PARDUE FARMS WELL #2  
Project Number: NONE GIVEN  
Project Location: UL-H SEC. 10, T23S, R28E

Sampling Date: 01/08/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 (3') (H300055-07)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2013	ND	1.78	89.0	2.00	19.6	
Toluene*	<0.050	0.050	01/16/2013	ND	1.95	97.5	2.00	17.8	
Ethylbenzene*	<0.050	0.050	01/16/2013	ND	1.89	94.4	2.00	17.3	
Total Xylenes*	<0.150	0.150	01/16/2013	ND	5.68	94.7	6.00	17.4	
Total BTEX	<0.300	0.300	01/16/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 125 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/15/2013	ND	432	108	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	01/15/2013	ND	195	97.4	200	0.708	
DRO >C10-C28	41.0	10.0	01/15/2013	ND	205	103	200	0.931	


Surrogate: 1-Chlorooctane 82.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 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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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Environmental Plus, Inc.**

2100 Avenue O, Eunice, NM 88231 P.O. Box 1558, Eunice, NM 88231  
 (575) 394-3481 FAX: (575) 394-2601

**Chain of Custody Form**

LAB

Company Name		Environmental Plus, Inc.		Bill To		ANALYSIS REQUEST																			
EPI Project Manager		Daniel Dominguez		Attn: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231		PRESERV.		SAMPLING		BTEX 8021B		CHLORIDES (Cl)		SULFATES (SO <sub>4</sub> )		PH		TCLP		OTHER >>>		PAH			
Mailing Address		P.O. BOX 1558				ACID/BASE		ICE/COOL		OTHER		TPH 8015M													
City, State, Zip		Eunice New Mexico 88231																							
EPI Phone#/Fax#		575-394-3481 / 575-394-2601																							
Client Company		Chevron USA																							
Facility Name		Pardue Farms Well #2																							
Location		UL-H Sec. 10, T23S, R28E																							
Project Reference																									
EPI Sampler Name		David Robinson																							
LAB I.D.		SAMPLE I.D.																							
1 SP1 (Surface)																									
2 SP1 (1')																									
3 SP1 (2')																									
4 SP2 (Surface)																									
5 SP2 (1')																									
6 SP2 (2')																									
7 SP2 (3')																									
8																									
9																									
10																									

E-mail results to: ddominguezepi@gmail.com &amp; bradley.blevins@chevron.com

Sampler Relinquished:		Date 1/3/13		Received By:	
Relinquished by:		Time 1:00 PM		Date 1/9/13	
Delivered by:		Time 1:00 PM		Date 1/9/13	
Sample Collected & Intact		Yes		No	
Checked By:					