



26 June 2015

**RECEIVED**

By OCD District 1 at 10:38 am, Jul 14, 2015

Ms. Kellie Jones  
Environmental Specialist  
NMOCD  
1625 North French Drive  
Hobbs, New Mexico 88240

**APPROVED ; Conditional**

By OCD District 1 at 10:38 am, Jul 14, 2015

Conditionally approved, ensure  
BLM approval.

RE: Remediation Progress Report and Closure Proposal  
XTO Energy – EMSU #209  
UL-J, Section 3, Township 21 South, Range 36 East  
Lea County, New Mexico  
NMOCD Reference # 1RP-3651

Ms. Jones:

The following *Remediation Progress Report and Closure Proposal* serves as a condensed update on remedial activities undertaken and closure proposal for the above referenced Site.

**Remediation Progress:**

EPI personnel mobilized on the site on April 3, 2015 to collect soil samples to determine the vertical extent of contamination. A total of nine (9) soil samples were collected at varying depths from three (3) sample location; SP1 – SP3. All samples were sent to Cardinal Labs for testing. Laboratory analytical results indicate Benzene, BTEX and TPH concentrations do not exceed NMOCD Recommended Remedial Action Levels (NMOCD RRALs) of 10 mg/Kg, 50 mg/Kg, and 5,000 mg/Kg, respectively, at any depth. Chloride concentrations exceed NMOCD RRALs of 1,000 mg/Kg to a depth of twenty-five (25) feet bgs in the area of SP1. Chloride concentrations do not exceed NMOCD RRALs of 1,000 mg/Kg in the areas of SP2 and SP3 (reference *Figure 3* and *Table 2*).

The release area around SP1 and SP2 has been excavated approximately two (2) feet bgs; the release area on the lease road has been scraped up. All contaminated material has been transported to a state approved facility for disposal.

**Closure Proposal:**

Taking into consideration the vertical depth of contamination, it would require a very large excavation for removal of all Chloride impacted soil to a depth of approximately twenty five (25) vertical feet. In lieu of this, EPI proposes to excavate the area around SP1 an additional two (2) feet and install a twenty (20) mil thick polyethylene liner in the bottom of the excavation (reference *Figure 4*). Bottom of the polyethylene liner will lay on a one (1) foot thick layer of clean top soil. Remainder of the excavation will be backfilled with selected top soil to finish grade. Top soil will be free of deleterious material or rocks or large clumps.

Backfilling will continue until the entire excavation is closed. Upon completion of backfill

activities, the entire disturbed area will be contoured to blend with existing pasture area and protected against wind/water erosion. Disturbed areas will be disced and deep drill seeded with a mixture approved by the property owner.

Following completion of remediation activities, EPI will provide a detailed *Final Closure Report* to XTO Energy and NMOCD personnel.

XTO Energy and EPI personnel would welcome an opportunity to briefly discuss the *Closure Proposal* at your earliest convenience. However, 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. John Robinson at (575) 441-5199 or via e-mail at [john\\_robinson@xtoenergy.com](mailto:john_robinson@xtoenergy.com). All official communication should be addressed to:

Mr. John Robinson  
XTO Energy  
P.O. Box 700  
Eunice, New Mexico 88231

Sincerely,

ENVIRONMENTAL PLUS, INC.

Daniel Dominguez  
Environmental Consultant

cc: John Robinson – XTO Energy  
File

Encl.: Figure 1 – Area Map  
Figure 2 – Site Location Map  
Figure 3 – Sample/Site Map  
Figure 4 – Proposed Liner 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

## FIGURES

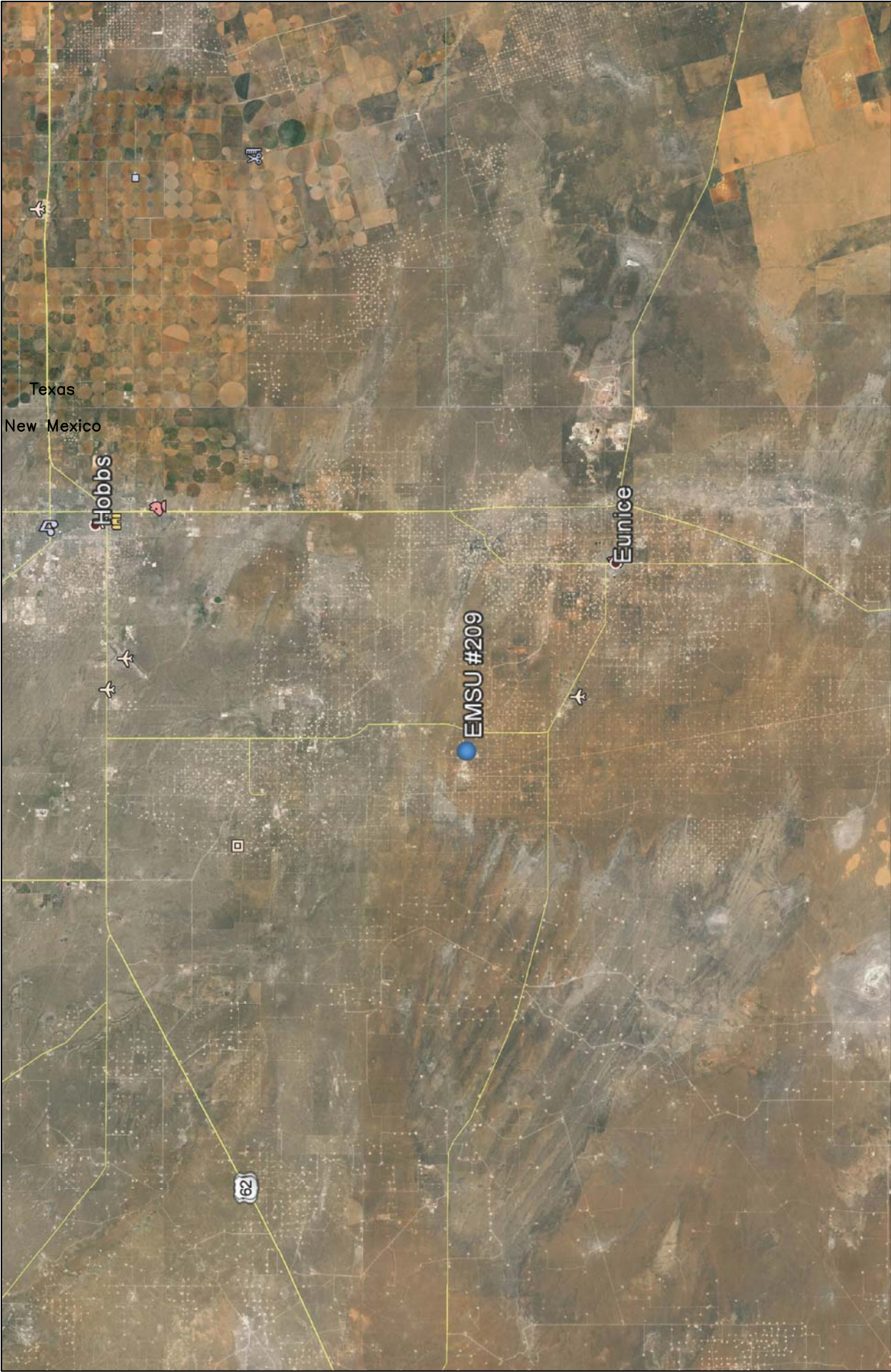


Figure 1 Area Map XTO Energy EMSU #209	Lea County, New Mexico NW 1/4 of SE 1/4, Sec. 3, T21S, R36E N 32° 30' 48.09" W 103° 16' 20.75" Elevation: 3,563 feet amsl		DWG By: D Dominguez May 2015	REVISED:	
			 Miles		
				SHEET 1 of 1	



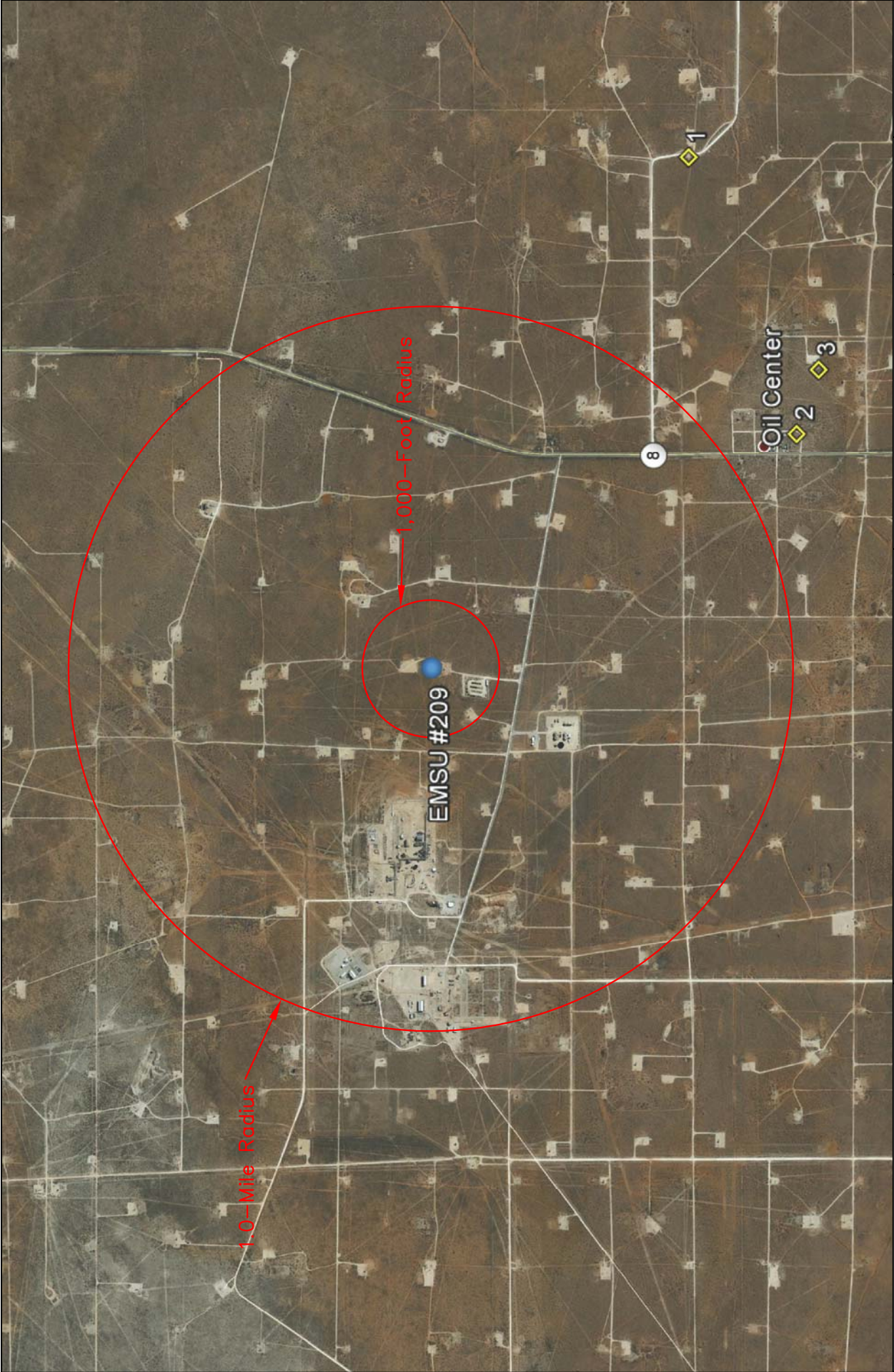


Figure 2 Site Location Map XTO Energy EMSU #209	Lea County, New Mexico NW 1/4 of SE 1/4, Sec. 3, T21S, R36E N 32° 30' 48.09" W 103° 16' 20.75" Elevation: 3,563 feet amsl	DWG By: D Dominguez May 2015		REVISED:	
		 Feet		SHEET 1 of 1	

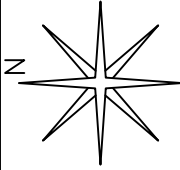
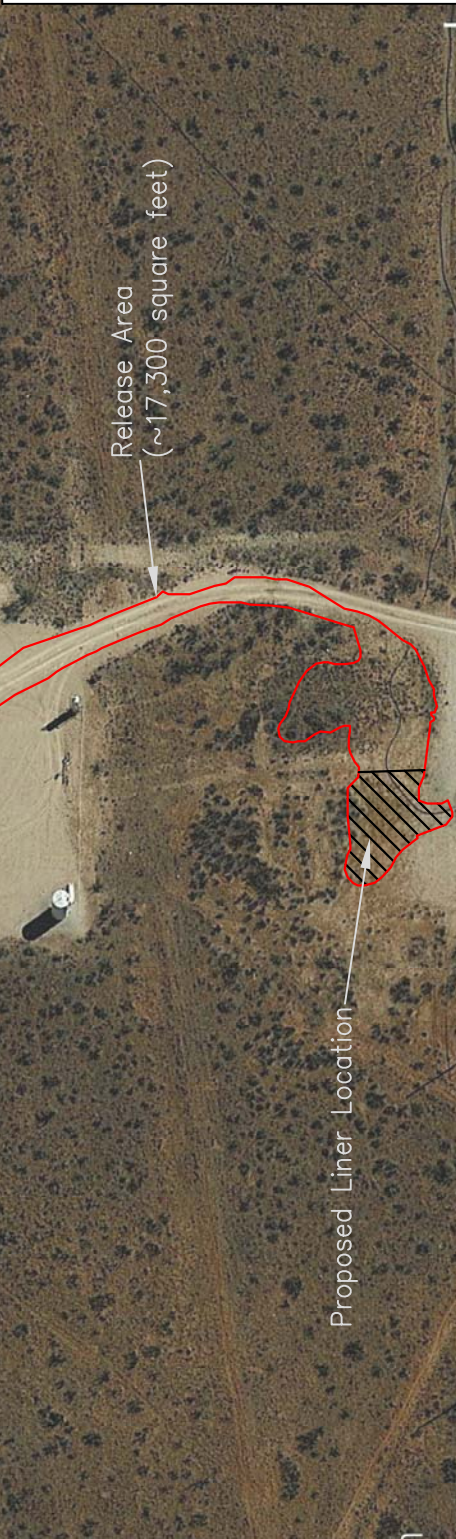




<p>LEGEND</p> <p>XSP1 Sample Location</p>	<p>REVISED:</p>	<p>DWG By: D Dominguez May 2015</p> <p>0 110 220 Feet</p> <p>SHEET 1 of 1</p>	<p>Lea County, New Mexico NW 1/4 of SE 1/4, Sec. 3, T21S, R36E N 32° 30' 48.09" W 103° 16' 20.75" Elevation: 3,563 feet amsl</p>	<p>Figure 3 Sample/Site Map XTO Energy EMSU #209</p>
---	-----------------	---	--	--





LEGEND		REVISED:		
		DWG By: D Dominguez May 2015	SHEET 1 of 1	
 <p>Proposed Liner Location</p> <p>Release Area (~17,300 square feet)</p>		DWG By: D Dominguez May 2015		
Figure 4 Proposed Liner Map XTO Energy EMSU #209		Lea County, New Mexico NW 1/4 of SE 1/4, Sec. 3, T21S, R36E N 32° 30' 48.09" W 103° 16' 20.75" Elevation: 3,563 feet amsl		

## **TABLES**



TABLE 1

Well Data**XTO Energy - EMSU #209**

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	CP 00690	PRO	0	SUN EXPL. & PROD.		4	4	3	21S	36E	664706	3597487	30-Nov-85	3,554	--
2	CP 00692	DOM	3	W.L. VAN NOY	3	1	1	10	21S	36E	663405	3596961	14-Jan-86	3,596	195
3	CP 00734	DOM	3	W.L. VAN NOY			1	10	21S	36E	663713	3596862	22-Jun-88	3,604	200

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

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

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

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

DOM = 72-12-1 Domestic one household

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

-- = Data not provided on the NM iwaters website

**TABLE 2**  
**Summary of Soil Sample Field Testing and Laboratory Analytical Results**  
**XTO Energy**  
**EMSU #209**

Lab Sample ID	Depth (feet)	Soil Status	Sample Date	PID Reading (ppm)	Field Chloride (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
SP1	Surface	Excavated	03-Apr-15	--	184	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	52	52	<b>1,070</b>
	1	Excavated	03-Apr-15	--	880	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	288
	18	In Situ	03-Apr-15	--	2,800	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	<b>2,160</b>
	25	In Situ	03-Apr-15	--	1,760	<0.050	0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	<b>1,170</b>
	28	In Situ	03-Apr-15	--	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	224
SP2	4	In Situ	03-Apr-15	--	480	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,160	1,160	208
	5	In Situ	03-Apr-15	--	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	851	851	<16.0
SP3	Surface	Excavated	03-Apr-15	--	800	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	170	170	432
	1	In Situ	03-Apr-15	--	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<20.0	<16.0
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 – Looking east across release area



Photograph #2 – Looking north across release area





Photograph #3 – Looking north across release area



Photograph #4 – Looking north across release area





Photograph #5 – Looking north across release area



Photograph #6 – Looking north across excavation



Photograph #7 – Looking north across excavation



Photograph #8 – Looking north across excavation



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



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

---

April 13, 2015

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: EMSU #209

Enclosed are the results of analyses for samples received by the laboratory on 04/06/15 15:37.

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:	04/06/2015	Sampling Date:	04/03/2015
Reported:	04/13/2015	Sampling Type:	Soil
Project Name:	EMSU #209	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-J SEC. 3, T21S, R36E		

**Sample ID: SP 1 (SURFACE) (H500909-01)**

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	04/09/2015	ND	1.91	95.4	2.00	0.00906	
Toluene*	<0.050	0.050	04/09/2015	ND	1.74	86.8	2.00	0.711	
Ethylbenzene*	<0.050	0.050	04/09/2015	ND	1.70	84.9	2.00	2.43	
Total Xylenes*	<0.150	0.150	04/09/2015	ND	5.35	89.2	6.00	2.87	
Total BTX	<0.300	0.300	04/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	04/08/2015	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	04/07/2015	ND	183	91.4	200	0.116	
DRO >C10-C28	52.0	10.0	04/07/2015	ND	191	95.4	200	0.113	

Surrogate: 1-Chlorooctane 94.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 97.9 % 52.1-176

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: 04/06/2015  
 Reported: 04/13/2015  
 Project Name: EMSU #209  
 Project Number: NONE GIVEN  
 Project Location: UL-J SEC. 3, T21S, R36E

 Sampling Date: 04/03/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 (1') (H500909-02)**

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	04/09/2015	ND	1.91	95.4	2.00	0.00906	
Toluene*	<0.050	0.050	04/09/2015	ND	1.74	86.8	2.00	0.711	
Ethylbenzene*	<0.050	0.050	04/09/2015	ND	1.70	84.9	2.00	2.43	
Total Xylenes*	<0.150	0.150	04/09/2015	ND	5.35	89.2	6.00	2.87	
Total BTX	<0.300	0.300	04/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 61-154

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	04/08/2015	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	04/07/2015	ND	183	91.4	200	0.116	
DRO >C10-C28	<10.0	10.0	04/07/2015	ND	191	95.4	200	0.113	

Surrogate: 1-Chlorooctane 90.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 87.0 % 52.1-176

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: 04/06/2015  
Reported: 04/13/2015  
Project Name: EMSU #209  
Project Number: NONE GIVEN  
Project Location: UL-J SEC. 3, T21S, R36E

Sampling Date: 04/03/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 (18') (H500909-03)**

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	04/09/2015	ND	1.91	95.4	2.00	0.00906	
Toluene*	<0.050	0.050	04/09/2015	ND	1.74	86.8	2.00	0.711	
Ethylbenzene*	<0.050	0.050	04/09/2015	ND	1.70	84.9	2.00	2.43	
Total Xylenes*	<0.150	0.150	04/09/2015	ND	5.35	89.2	6.00	2.87	
Total BTX	<0.300	0.300	04/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 61-154

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	04/08/2015	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	04/07/2015	ND	183	91.4	200	0.116	
DRO >C10-C28	<10.0	10.0	04/07/2015	ND	191	95.4	200	0.113	

Surrogate: 1-Chlorooctane 80.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 83.5 % 52.1-176

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: 04/06/2015  
Reported: 04/13/2015  
Project Name: EMSU #209  
Project Number: NONE GIVEN  
Project Location: UL-J SEC. 3, T21S, R36E

Sampling Date: 04/03/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 (25') (H500909-04)**

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	04/09/2015	ND	1.91	95.4	2.00	0.00906	
Toluene*	<0.050	0.050	04/09/2015	ND	1.74	86.8	2.00	0.711	
Ethylbenzene*	<0.050	0.050	04/09/2015	ND	1.70	84.9	2.00	2.43	
Total Xylenes*	<0.150	0.150	04/09/2015	ND	5.35	89.2	6.00	2.87	
Total BTX	<0.300	0.300	04/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	04/08/2015	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	04/07/2015	ND	183	91.4	200	0.116	
DRO >C10-C28	<10.0	10.0	04/07/2015	ND	191	95.4	200	0.113	

Surrogate: 1-Chlorooctane 86.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 87.2 % 52.1-176

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: 04/06/2015  
Reported: 04/13/2015  
Project Name: EMSU #209  
Project Number: NONE GIVEN  
Project Location: UL-J SEC. 3, T21S, R36E

Sampling Date: 04/03/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 (28') (H500909-05)**

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	04/10/2015	ND	1.91	95.4	2.00	0.00906	
Toluene*	<0.050	0.050	04/10/2015	ND	1.74	86.8	2.00	0.711	
Ethylbenzene*	<0.050	0.050	04/10/2015	ND	1.70	84.9	2.00	2.43	
Total Xylenes*	<0.150	0.150	04/10/2015	ND	5.35	89.2	6.00	2.87	
Total BTX	<0.300	0.300	04/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 61-154

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/08/2015	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	04/07/2015	ND	183	91.4	200	0.116	
DRO >C10-C28	<10.0	10.0	04/07/2015	ND	191	95.4	200	0.113	

Surrogate: 1-Chlorooctane 93.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 93.1 % 52.1-176

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: 04/06/2015  
Reported: 04/13/2015  
Project Name: EMSU #209  
Project Number: NONE GIVEN  
Project Location: UL-J SEC. 3, T21S, R36E

Sampling Date: 04/03/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 (4') (H500909-06)**

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	04/10/2015	ND	1.91	95.4	2.00	0.00906	
Toluene*	<0.050	0.050	04/10/2015	ND	1.74	86.8	2.00	0.711	
Ethylbenzene*	<0.050	0.050	04/10/2015	ND	1.70	84.9	2.00	2.43	
Total Xylenes*	<0.150	0.150	04/10/2015	ND	5.35	89.2	6.00	2.87	
Total BTX	<0.300	0.300	04/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 61-154

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/08/2015	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	<50.0	50.0	04/07/2015	ND	183	91.4	200	0.116	
DRO >C10-C28	1160	50.0	04/07/2015	ND	191	95.4	200	0.113	

Surrogate: 1-Chlorooctane 88.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 124 % 52.1-176

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: 04/06/2015  
Reported: 04/13/2015  
Project Name: EMSU #209  
Project Number: NONE GIVEN  
Project Location: UL-J SEC. 3, T21S, R36E

Sampling Date: 04/03/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 (5') (H500909-07)**

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	04/10/2015	ND	1.91	95.4	2.00	0.00906	
Toluene*	<0.050	0.050	04/10/2015	ND	1.74	86.8	2.00	0.711	
Ethylbenzene*	<0.050	0.050	04/10/2015	ND	1.70	84.9	2.00	2.43	
Total Xylenes*	<0.150	0.150	04/10/2015	ND	5.35	89.2	6.00	2.87	
Total BTX	<0.300	0.300	04/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 61-154

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	04/08/2015	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	<50.0	50.0	04/07/2015	ND	183	91.4	200	0.116	
DRO >C10-C28	851	50.0	04/07/2015	ND	191	95.4	200	0.113	

Surrogate: 1-Chlorooctane 88.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 118 % 52.1-176

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:	04/06/2015	Sampling Date:	04/03/2015
Reported:	04/13/2015	Sampling Type:	Soil
Project Name:	EMSU #209	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-J SEC. 3, T21S, R36E		

**Sample ID: SP 3 (SURFACE) (H500909-08)**

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	04/10/2015	ND	1.91	95.4	2.00	0.00906	
Toluene*	<0.050	0.050	04/10/2015	ND	1.74	86.8	2.00	0.711	
Ethylbenzene*	<0.050	0.050	04/10/2015	ND	1.70	84.9	2.00	2.43	
Total Xylenes*	<0.150	0.150	04/10/2015	ND	5.35	89.2	6.00	2.87	
Total BTX	<0.300	0.300	04/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	04/08/2015	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	04/07/2015	ND	183	91.4	200	0.116	
DRO >C10-C28	170	10.0	04/07/2015	ND	191	95.4	200	0.113	

Surrogate: 1-Chlorooctane 86.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 88.8 % 52.1-176

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: 04/06/2015  
Reported: 04/13/2015  
Project Name: EMSU #209  
Project Number: NONE GIVEN  
Project Location: UL-J SEC. 3, T21S, R36E

Sampling Date: 04/03/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 (1') (H500909-09)**

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	04/10/2015	ND	1.91	95.4	2.00	0.00906	
Toluene*	<0.050	0.050	04/10/2015	ND	1.74	86.8	2.00	0.711	
Ethylbenzene*	<0.050	0.050	04/10/2015	ND	1.70	84.9	2.00	2.43	
Total Xylenes*	<0.150	0.150	04/10/2015	ND	5.35	89.2	6.00	2.87	
Total BTX	<0.300	0.300	04/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 61-154

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	04/08/2015	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	04/07/2015	ND	183	91.4	200	0.116	
DRO >C10-C28	<10.0	10.0	04/07/2015	ND	191	95.4	200	0.113	

Surrogate: 1-Chlorooctane 88.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 87.8 % 52.1-176

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.

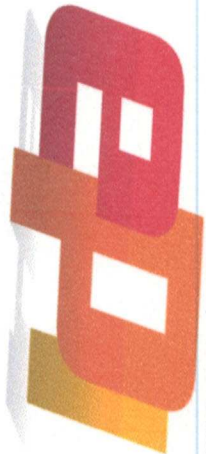
2100 Avenue O, Eunice, NM 88231  
(575) 394-3481 FAX: (575) 394-2601

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 XTO  
Facility Name EMSU #209  
Location UL-J Sec. 3, T21S, R36E  
Project Reference  
EPI Sampler Name Dustin Crockett



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

Bill To

ANALYSIS REQUEST

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE		ICE/COOL	OTHER	DATE	TIME																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
H500909	1 SP1 (Surface)	G	1			X					X	03-Apr-15	9:05	X	X	X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

Relinquished by: *[Signature]*

Date: 4/16/15  
Time: 1:00pm  
Received By: *[Signature]*

Date: 4/16/15  
Time: 3:20pm  
Received By: *[Signature]*

Sample Cobi & Intact  
Yes No

Checked By: *[Signature]*

Notes: E-mail results to: ddominguezepi@gmail.com & john\_robinson@xtoenergy.com



**ATTACHMENT III**  
**Copy of Initial NMOCD Form 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

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

X Initial Report ☐ Final Report

Name of Company	XTO Energy Inc.	Contact	John Robinson
Address	P.O. Box 700 Eunice, N.M. 88231	Telephone No.	575-441-5199
Facility Name	EMSU 209	Facility Type	Producing well
Surface Owner	Millard Deck Estate	Mineral Owner	State
		API No.	30-025-04473

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	3	21S	36E	3233	NORTH	1980	EAST	LEA

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

NATURE OF RELEASE

Type of Release	Oil And Produced Water	Volume of Release	3 Oil 97 produced water	Volume Recovered	2 oil 73 water
Source of Release	Flow line	Date and Hour of Occurrence	March 1 <sup>st</sup>	Date and Hour of Discovery	March 1 <sup>st</sup> 10:00 am
Was Immediate Notice Given?	<input type="checkbox"/> Yes X No <input type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes X No	If YES, Volume Impacting the Watercourse.			
If a Watercourse was Impacted, Describe Fully.*					

**RECEIVED**

By OCD District 1 at 10:26 am, May 28, 2015

Describe Cause of Problem and Remedial Action Taken.\*

Corrosion in flow line. Had truck suck up all fluid possible and wait for ocd to tell us what to do.

Describe Area Affected and Cleanup Action Taken.\*

Pad area and some pasture and caliche road were affected. No cleanup action taken till ocd lets us know what to do.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature: *John Robinson*

Printed Name: John Robinson

Title: Maintenance Foreman

E-mail Address: john\_robinson@xtoenergy.com

Date: 3-3-15

Phone: 575-441-5199

Approved by Environmental Specialist: *[Signature]*

Approval Date: 05/28/2015

Expiration Date: 08/28/2015

Conditions of Approval:  
Site samples required. Delineate and  
remediate as per MNOCD guides. Geotag  
photographs of remediation required.

Attached ☐ 5380  
IRP-3651

\* Attach Additional Sheets If Necessary

nKJ1514839370  
pKJ1514839803