

## Bratcher, Mike, EMNRD

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**From:** Bradley Blevins [bradley.blevins@chk.com]  
**Sent:** Wednesday, November 24, 2010 8:52 AM  
**To:** Bratcher, Mike, EMNRD  
**Subject:** FW: MOSAIC 34 FEDERA; 2H  
**Attachments:** H21287 EPI.pdf

Mike,

Attached is the final lab data for the Mosaic 34 Federal 2 Release. With your approval we would like to start backfilling the site and complete closure. If you could get back to me at your earliest convenience it would be appreciated. If you have any question please let me know.

Thank you,

Bradley Blevins  
EH & S Field Specialist  
DAR  
Hobbs Field Office  
North Permian Division  
Office: (575) 391-1462 x 86424  
Cell: (575) 441-0341  
Fax: (575)391-6679



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**From:** Jerry Smith [mailto:[jsmith.epi@gmail.com](mailto:jsmith.epi@gmail.com)]  
**Sent:** Friday, November 19, 2010 7:51 AM  
**To:** Bradley Blevins; Roger Boone  
**Subject:** Fwd: MOSAIC 34 FEDERA; 2H

Bradley,

I received this from the lab yesterday at 5:33 pm.

Thanks,

Jerry

----- Forwarded message -----

**From:** Celey Keene <[celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)>  
**Date:** Thu, Nov 18, 2010 at 5:33 PM  
**Subject:** MOSAIC 34 FEDERA; 2H  
**To:** Jerry Smith <[jsmith.epi@gmail.com](mailto:jsmith.epi@gmail.com)>

THANK YOU,

**Celey Keene**

**Lab Director**

**Cardinal Laboratories**

**101 East Marland**

**Hobbs, NM 88240**

**T: (575) 393-2326**

**F: (575) 393-2476**

**e-mail: [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)**

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**Jerry Smith**

**Consultant**

**Environmental Plus, Inc.**

**575-605-1752**

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

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November 18, 2010

JERRY SMITH

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: MOSAIC 34 FED #2

Enclosed are the results of analyses for samples received by the laboratory on 11/12/10 15:00.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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

Received: 11/12/2010  
Reported: 11/18/2010  
Project Name: MOSAIC 34 FED #2  
Project Number: 160555  
Project Location: UL-N 34-245-28E

Sampling Date: 11/11/2010  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Celey D. Keene

### Sample ID: SP 5 (H021287-01)

BTEX 8021B		mg/kg		Analyzed By: cms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2010	ND	1.82	90.8	2.00	3.41		
Toluene*	0.166	0.050	11/17/2010	ND	1.76	88.0	2.00	2.70		
Ethylbenzene*	0.085	0.050	11/17/2010	ND	1.72	86.0	2.00	3.59		
Total Xylenes*	<0.150	0.150	11/17/2010	ND	5.34	88.9	6.00	4.09		

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/15/2010	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/16/2010	ND	154	76.9	200	3.79	
DRO >C10-C28	<10.0	10.0	11/16/2010	ND	152	76.1	200	0.995	

Surrogate: 1-Chlorooctane 91.8 % 70-130

Surrogate: 1-Chlorooctadecane 86.1 % 70-130

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

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

# Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231  
(505) 394-3481 FAX: (505) 394-2601

P.O. Box 1558, Eunice, NM 88231

## Chain of Custody Form

LAB Cardinal

Company Name Environmental Plus, Inc.		Bill To		ANALYSIS REQUEST																			
EPI Project Manager Jerry Smith																							
Mailing Address P.O. BOX 1558																							
City, State, Zip Eunice New Mexico 88231																							
EPI Phone#/Fax# 505-394-3481 / 505-394-2601																							
Client Company Chesapeake Energy																							
Facility Name Mosaic 34 Federal 2H																							
Location																							
Project Reference 160555																							
EPI Sampler Name David Robinson																							
Attn: Jerry Smith P.O. Box 1558 Eunice, NM 88231																							
LAB I.D.	SAMPLE I.D.	(G) RAB OR (C) OMP.	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO <sub>4</sub> )	PH	TCLP	OTHER >>>	PAH	
4-21286		G				X							11-Oct-10	11:00	X	X	X						
1	SP5																						
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							

  

Sampler Relinquished:		Date 11/12/10		Time 3:00		Received By <i>W. J. [Signature]</i>		E-mail results to: jsmith.epi@gmail.com	
Relinquished by:		Date 11/12/10		Time 3:00		Received By (Lab Staff)			
Delivered by: <i>W. J. [Signature]</i>		Sample Cool & Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Checked By: <i>Code</i>					

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