

## Bratcher, Mike, EMNRD

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**From:** Bradley Blevins [bradley.blevins@chk.com]  
**Sent:** Wednesday, December 15, 2010 8:25 AM  
**To:** Bratcher, Mike, EMNRD  
**Subject:** FW: MOSAIC 34 FED #2  
**Attachments:** H21468 EPI.pdf

Mike,

Please find closure data for SP2.

Thanks,  
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:** Monday, December 13, 2010 7:02 AM  
**To:** Bradley Blevins; Roger Boone  
**Subject:** Fwd: MOSAIC 34 FED #2

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

**From:** Celey Keene <[celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)>  
**Date:** Fri, Dec 10, 2010 at 4:45 PM  
**Subject:** MOSAIC 34 FED #2  
**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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December 10, 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 12/07/10 12:50.

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: 12/07/2010  
Reported: 12/10/2010  
Project Name: MOSAIC 34 FED #2  
Project Number: 160555  
Project Location: UL-N 34-24S-28E

Sampling Date: 12/07/2010  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 (H021468-01)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2010	ND	1.89	94.6	2.00	5.00	
Toluene*	<0.050	0.050	12/09/2010	0.051	2.02	101	2.00	4.29	
Ethylbenzene*	<0.050	0.050	12/09/2010	ND	1.89	94.3	2.00	4.72	
Total Xylenes*	<0.150	0.150	12/09/2010	ND	5.58	93.0	6.00	4.25	

Surrogate: 4-Bromofluorobenzene (Pfl.) 106 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/07/2010	ND	432	108	400	0.00	

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	12/09/2010	ND	193	96.5	200	19.4	
DRO >C10-C28	<10.0	10.0	12/09/2010	ND	190	94.8	200	9.14	

Surrogate: 1-Chlorooctane 116 % 70-130

Surrogate: 1-Chlorooctadecane 118 % 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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Cardinal Laboratories

\* = 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

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 Fed #2																			
Location		UL-N 34-24S-28E																			
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	MATRIX				PRESERV.			SAMPLING		TIME	BTX 8021B	TPH 8015M	CHLORIDES (CI)	SULFATES (SO <sub>4</sub> )	PH	TCLP	OTHER >>>	PAH	
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER										DATE
1	1 SP2	G	1			1								X	X	X						
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

  

Sampler Relinquished:		Received By:		E-mail results to: jsmith.epi@gmail.com	
Date: 12/2/10		Date: 12/2/10			
Time: 12:00		Time: 12:00			
Relinquished by: <i>Jody Bigh...</i>		Received By: (lab staff) <i>W. J. ...</i>			
Delivered by: <i>Jody Bigh...</i>		Sample Cool & Intact		Checked By: <i>W. J. ...</i>	
		Yes		No	
		4.50		#216	

## **Bratcher, Mike, EMNRD**

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