

HOBBS OCD

MAY 23 2011

RECEIVED

May 21, 2011

JERRY SMITH

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: MONSTRO 1-6

Enclosed are the results of analyses for samples received by the laboratory on 05/17/11 9:33.

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: 05/17/2011
 Reported: 05/21/2011
 Project Name: MONSTRO 1-6
 Project Number: 161146
 Project Location: SW/4 SW/4 SECT. 6-20S-38E

 Sampling Date: 05/16/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: ST 1 - SURFACE (H101008-01)

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<5.00	5.00	05/18/2011	ND	2.06	103	2.00	1.66		
Toluene*	48.2	5.00	05/18/2011	ND	2.16	108	2.00	1.26		
Ethylbenzene*	32.5	5.00	05/18/2011	ND	2.25	113	2.00	1.25		
Total Xylenes*	132	15.0	05/18/2011	ND	6.69	111	6.00	2.14		

Surrogate: 4-Bromofluorobenzene (PIL) 76.7 % 70-130

Chloride, SM4500CI-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	05/17/2011	ND	448	112	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	7720	100	05/20/2011	ND	199	99.6	200	1.74		
DRO >C10-C28	29700	100	05/20/2011	ND	207	104	200	1.84		

Surrogate: 1-Chlorooctane 125 % 70-130

Surrogate: 1-Chlorooctadecane 111 % 70-130

Cardinal Laboratories

* = Accredited Analyte

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Received:	05/17/2011	Sampling Date:	05/16/2011
Reported:	05/21/2011	Sampling Type:	Soil
Project Name:	MONSTRO 1-6	Sampling Condition:	Cool & Intact
Project Number:	161146	Sample Received By:	Jodi Henson
Project Location:	SW/4 SW/4 SECT. 6-20S-38E		

Sample ID: ST 1 - 3 FT. (H101008-02)

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	05/18/2011	ND	2.06	103	2.00	1.66		
Toluene*	0.128	0.050	05/18/2011	ND	2.16	108	2.00	1.26		
Ethylbenzene*	0.069	0.050	05/18/2011	ND	2.25	113	2.00	1.25		
Total Xylenes*	0.309	0.150	05/18/2011	ND	6.69	111	6.00	2.14		

Surrogate: 4-Bromofluorobenzene (PIL) 90.8 % 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	32.0	16.0	05/17/2011	ND	448	112	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	05/20/2011	ND	199	99.6	200	1.74		
DRO >C10-C28	21.8	10.0	05/20/2011	ND	207	104	200	1.84		

Surrogate: 1-Chlorooctane 83.0 % 70-130

Surrogate: 1-Chlorooctadecane 83.5 % 70-130

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 Received: 05/17/2011
 Reported: 05/21/2011
 Project Name: MONSTRO 1-6
 Project Number: 161146
 Project Location: SW/4 SW/4 SECT. 6-20S-38E

 Sampling Date: 05/16/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: ST 1 - 6 FT (H101008-03)

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	05/18/2011	ND	2.06	103	2.00	1.66		
Toluene*	0.155	0.050	05/18/2011	ND	2.16	108	2.00	1.26		
Ethylbenzene*	0.211	0.050	05/18/2011	ND	2.25	113	2.00	1.25		
Total Xylenes*	1.17	0.150	05/18/2011	ND	6.69	111	6.00	2.14		

Surrogate: 4-Bromofluorobenzene (PIL) 91.8 % 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	64.0	16.0	05/17/2011	ND	448	112	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	<100	100	05/20/2011	ND	199	99.6	200	1.74		
DRO >C10-C28	224	100	05/20/2011	ND	207	104	200	1.84		

Surrogate: 1-Chlorooctane 113 % 70-130

Surrogate: 1-Chlorooctadecane 101 % 70-130

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 Received: 05/17/2011
 Reported: 05/21/2011
 Project Name: MONSTRO 1-6
 Project Number: 161146
 Project Location: SW/4 SW/4 SECT. 6-20S-38E

 Sampling Date: 05/16/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: ST 1 - 9 FT (H101008-04)

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	05/18/2011	ND	2.06	103	2.00	1.66		
Toluene*	<0.050	0.050	05/18/2011	ND	2.16	108	2.00	1.26		
Ethylbenzene*	<0.050	0.050	05/18/2011	ND	2.25	113	2.00	1.25		
Total Xylenes*	<0.150	0.150	05/18/2011	ND	6.69	111	6.00	2.14		

Surrogate: 4-Bromofluorobenzene (PIL) 93.2 % 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	48.0	16.0	05/17/2011	ND	448	112	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	05/20/2011	ND	185	92.3	200	2.44		
DRO >C10-C28	<10.0	10.0	05/20/2011	ND	160	80.1	200	8.23		

Surrogate: 1-Chlorooctane 101 % 70-130

Surrogate: 1-Chlorooctadecane 106 % 70-130

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 Received: 05/17/2011
 Reported: 05/21/2011
 Project Name: MONSTRO 1-6
 Project Number: 161146
 Project Location: SW/4 SW/4 SECT. 6-20S-38E

 Sampling Date: 05/16/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: ST 2 - SURFACE (H101008-05)

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<20.0	20.0	05/19/2011	ND	2.06	103	2.00	1.66		
Toluene*	154	20.0	05/19/2011	ND	2.16	108	2.00	1.26		
Ethylbenzene*	74.4	20.0	05/19/2011	ND	2.25	113	2.00	1.25		
Total Xylenes*	254	60.0	05/19/2011	ND	6.69	111	6.00	2.14		

Surrogate: 4-Bromofluorobenzene (PIL) 69.9 % 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	128	16.0	05/17/2011	ND	448	112	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	12300	100	05/20/2011	ND	185	92.3	200	2.44		
DRO >C10-C28	21000	100	05/20/2011	ND	160	80.1	200	8.23		

Surrogate: 1-Chlorooctane 123 % 70-130

Surrogate: 1-Chlorooctadecane 101 % 70-130

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 Received: 05/17/2011
 Reported: 05/21/2011
 Project Name: MONSTRO 1-6
 Project Number: 161146
 Project Location: SW/4 SW/4 SECT. 6-20S-38E

 Sampling Date: 05/16/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: ST 2 - 3 FT (H101008-06)

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<20.0	20.0	05/19/2011	ND	2.06	103	2.00	1.66		
Toluene*	176	20.0	05/19/2011	ND	2.16	108	2.00	1.26		
Ethylbenzene*	78.1	20.0	05/19/2011	ND	2.25	113	2.00	1.25		
Total Xylenes*	288	60.0	05/19/2011	ND	6.69	111	6.00	2.14		

Surrogate: 4-Bromofluorobenzene (PIL) 72.5 % 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	240	16.0	05/17/2011	ND	448	112	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	13200	100	05/20/2011	ND	185	92.3	200	2.44		
DRO >C10-C28	18400	100	05/20/2011	ND	160	80.1	200	8.23		

Surrogate: 1-Chlorooctane 128 % 70-130

Surrogate: 1-Chlorooctadecane 111 % 70-130

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 Received: 05/17/2011
 Reported: 05/21/2011
 Project Name: MONSTRO 1-6
 Project Number: 161146
 Project Location: SW/4 SW/4 SECT. 6-20S-38E

 Sampling Date: 05/16/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: ST 2 - 6 FT (H101008-07)

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	05/18/2011	ND	2.06	103	2.00	1.66		
Toluene*	0.554	0.050	05/18/2011	ND	2.16	108	2.00	1.26		
Ethylbenzene*	0.566	0.050	05/18/2011	ND	2.25	113	2.00	1.25		
Total Xylenes*	2.71	0.150	05/18/2011	ND	6.69	111	6.00	2.14		

Surrogate: 4-Bromofluorobenzene (PIL) 80.0 % 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	64.0	16.0	05/17/2011	ND	448	112	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	05/20/2011	ND	185	92.3	200	2.44		
DRO >C10-C28	348	10.0	05/20/2011	ND	160	80.1	200	8.23		

Surrogate: 1-Chlorooctane 107 % 70-130

Surrogate: 1-Chlorooctadecane 104 % 70-130

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 Received: 05/17/2011
 Reported: 05/21/2011
 Project Name: MONSTRO 1-6
 Project Number: 161146
 Project Location: SW/4 SW/4 SECT. 6-20S-38E

 Sampling Date: 05/16/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: ST 2 - 9 FT (H101008-08)

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	05/18/2011	ND	2.06	103	2.00	1.66		
Toluene*	<0.050	0.050	05/18/2011	ND	2.16	108	2.00	1.26		
Ethylbenzene*	<0.050	0.050	05/18/2011	ND	2.25	113	2.00	1.25		
Total Xylenes*	<0.150	0.150	05/18/2011	ND	6.69	111	6.00	2.14		

Surrogate: 4-Bromofluorobenzene (PIL) 94.1 % 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	160	16.0	05/17/2011	ND	448	112	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	05/20/2011	ND	185	92.3	200	2.44		
DRO >C10-C28	<10.0	10.0	05/20/2011	ND	160	80.1	200	8.23		

Surrogate: 1-Chlorooctane 97.5 % 70-130

Surrogate: 1-Chlorooctadecane 95.8 % 70-130

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 Received: 05/17/2011
 Reported: 05/21/2011
 Project Name: MONSTRO 1-6
 Project Number: 161146
 Project Location: SW/4 SW/4 SECT. 6-20S-38E

 Sampling Date: 05/16/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: ST 2 - 13 FT (H101008-09)

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	05/18/2011	ND	2.06	103	2.00	1.66		
Toluene*	<0.050	0.050	05/18/2011	ND	2.16	108	2.00	1.26		
Ethylbenzene*	<0.050	0.050	05/18/2011	ND	2.25	113	2.00	1.25		
Total Xylenes*	<0.150	0.150	05/18/2011	ND	6.69	111	6.00	2.14		

Surrogate: 4-Bromofluorobenzene (PIL) 93.5 % 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	05/17/2011	ND	448	112	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	05/20/2011	ND	185	92.3	200	2.44		
DRO >C10-C28	<10.0	10.0	05/20/2011	ND	160	80.1	200	8.23		

Surrogate: 1-Chlorooctane 94.2 % 70-130

Surrogate: 1-Chlorooctadecane 94.8 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-LOW	Low surrogate recovery confirmed as a matrix effect by a second analysis.
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
 (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.	Bill To	ANALYSIS REQUEST	
EPI Project Manager	Jerry Smith	 Attn: Jerry Smith P.O. Box 1558 Eunice, NM 88231		
Mailing Address	P.O. BOX 1558			
City, State, Zip	Eunice New Mexico 88231			
EPI Phone#/Fax#	575-394-3481 / 575-394-2601			
Client Company	Chesapeake Energy			
Facility Name	Monstro 1-6			
Location	SW/4 SW/4 Sect. 6-20S-38E			
Project Reference	161146			
EPI Sampler Name	David Robinson			

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.			SAMPLING		BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄ ²⁻)	PH	TCLP	OTHER >>>	PAH	
			GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE									TIME
H101D08 H100																					
- 1	ST1- Surface	X			X					X											
- 2	ST1- 3ft	X			X					X											
- 3	ST1- 6ft	X			X					X											
- 4	ST1- 9ft	X			X					X											
- 5	ST2- Surface	X			X					X											
- 6	ST2- 3ft	X			X					X											
- 7	ST2- 6ft	X			X					X											
- 8	ST2- 9ft	X			X					X											
- 9	ST2- 13ft	X			X					X											
10																					

Sampler Relinquished:	05/17/11	Received By:	E-mail results to: jsmith.epi@gmail.com; bradley.blevins@chk.com
<i>David Robinson</i>	Time 0700	<i>Bradley Blevins</i>	
Relinquished by:	05/17/11	Received By: (lab staff)	
<i>David Robinson</i>	Time 9:33	<i>Jodi Benson</i>	
Delivered by:	Sample Cool & Intact	Checked By:	
	30 Yes No	<i>JH</i>	

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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.
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