

30-025-28856

February 22, 2011

JERRY SMITH

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: EDITH FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 02/21/11 11:19.

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

N-25-1853E
30-025-28856
90-100'

Analytical Results For:

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

Received: 02/21/2011
 Reported: 02/22/2011
 Project Name: EDITH FEDERAL #1
 Project Number: 160981
 Project Location: NOT GIVEN

Sampling Date: 02/18/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 - 1 FT (H100343-01)

BTEX 8260B		mg/kg		Analyzed By: CMS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	1.76	1.00	02/22/2011	ND	2.34	117	2.00	9.99		
Toluene*	17.2	1.00	02/22/2011	ND	2.50	125	2.00	13.4		
Ethylbenzene*	22.5	1.00	02/22/2011	ND	2.41	121	2.00	10.1		
Total Xylenes*	41.5	3.00	02/22/2011	ND	7.09	118	6.00	11.9		

Surrogate: Dibromofluoromethane 128 % 70-130

Surrogate: Toluene-d8 171 % 70-130

Surrogate: 4-Bromofluorobenzene 142 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/21/2011	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	3730	100	02/22/2011	ND	201	100	200	2.47		
DRO >C10-C28	15400	100	02/22/2011	ND	201	100	200	3.34		

Surrogate: 1-Chlorooctane 163 % 70-130

Surrogate: 1-Chlorooctadecane 110 % 70-130

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Received: 02/21/2011
 Reported: 02/22/2011
 Project Name: EDITH FEDERAL #1
 Project Number: 160981
 Project Location: NOT GIVEN

Sampling Date: 02/18/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 - 3 FT (H100343-02)

BTEX 8260B		mg/kg		Analyzed By: CMS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	02/22/2011	ND	2.34	117	2.00	9.99		
Toluene*	0.332	0.100	02/22/2011	ND	2.50	125	2.00	13.4		
Ethylbenzene*	0.192	0.100	02/22/2011	ND	2.41	121	2.00	10.1		
Total Xylenes*	<0.300	0.300	02/22/2011	ND	7.09	118	6.00	11.9		

Surrogate: Dibromofluoromethane 119 % 70-130
 Surrogate: Toluene-d8 178 % 70-130
 Surrogate: 4-Bromofluorobenzene 174 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	02/21/2011	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	740	100	02/22/2011	ND	201	100	200	2.47		
DRO >C10-C28	4790	100	02/22/2011	ND	201	100	200	3.34		

Surrogate: 1-Chlorooctane 151 % 70-130
 Surrogate: 1-Chlorooctadecane 105 % 70-130

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Received: 02/21/2011
 Reported: 02/22/2011
 Project Name: EDITH FEDERAL #1
 Project Number: 160981
 Project Location: NOT GIVEN

Sampling Date: 02/18/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 - 5 FT (H100343-03)

BTEX 8260B		mg/kg		Analyzed By: CMS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	02/22/2011	ND	2.34	117	2.00	9.99		
Toluene*	<0.100	0.100	02/22/2011	ND	2.50	125	2.00	13.4		
Ethylbenzene*	<0.100	0.100	02/22/2011	ND	2.41	121	2.00	10.1		
Total Xylenes*	<0.300	0.300	02/22/2011	ND	7.09	118	6.00	11.9		

Surrogate: Dibromofluoromethane 126 % 70-130
 Surrogate: Toluene-d8 167 % 70-130
 Surrogate: 4-Bromofluorobenzene 130 % 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	1140	16.0	02/21/2011	ND	432	108	400	3.77		

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	02/22/2011	ND	201	100	200	2.47		
DRO >C10-C28	<10.0	10.0	02/22/2011	ND	201	100	200	3.34		

Surrogate: 1-Chlorooctane 99.3 % 70-130
 Surrogate: 1-Chlorooctadecane 106 % 70-130

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Received: 02/21/2011
 Reported: 02/22/2011
 Project Name: EDITH FEDERAL #1
 Project Number: 160981
 Project Location: NOT GIVEN

Sampling Date: 02/18/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 - 1 FT (H100343-04)

BTEX 8260B		mg/kg		Analyzed By: CMS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<1.00	1.00	02/22/2011	ND	2.34	117	2.00	9.99		
Toluene*	9.58	1.00	02/22/2011	ND	2.50	125	2.00	13.4		
Ethylbenzene*	17.3	1.00	02/22/2011	ND	2.41	121	2.00	10.1		
Total Xylenes*	33.3	3.00	02/22/2011	ND	7.09	118	6.00	11.9		

Surrogate: Dibromofluoromethane 118 % 70-130
 Surrogate: Toluene-d8 166 % 70-130
 Surrogate: 4-Bromofluorobenzene 143 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/21/2011	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: AB				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1800	100	02/22/2011	ND	201	100	200	2.47		
DRO >C10-C28	6500	100	02/22/2011	ND	201	100	200	3.34		

Surrogate: 1-Chlorooctane 145 % 70-130
 Surrogate: 1-Chlorooctadecane 107 % 70-130

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Received: 02/21/2011
 Reported: 02/22/2011
 Project Name: EDITH FEDERAL #1
 Project Number: 160981
 Project Location: NOT GIVEN

Sampling Date: 02/18/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 - 3 FT (H100343-05)

BTEX 8260B		mg/kg		Analyzed By: CMS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	02/22/2011	ND	2.34	117	2.00	9.99		
Toluene*	<0.100	0.100	02/22/2011	ND	2.50	125	2.00	13.4		
Ethylbenzene*	<0.100	0.100	02/22/2011	ND	2.41	121	2.00	10.1		
Total Xylenes*	<0.300	0.300	02/22/2011	ND	7.09	118	6.00	11.9		

Surrogate: Dibromofluoromethane 120 % 70-130

Surrogate: Toluene-d8 165 % 70-130

Surrogate: 4-Bromofluorobenzene 129 % 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	16.0	16.0	02/21/2011	ND	432	108	400	3.77		

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	02/22/2011	ND	201	100	200	2.47		
DRO >C10-C28	<10.0	10.0	02/22/2011	ND	201	100	200	3.34		

Surrogate: 1-Chlorooctane 108 % 70-130

Surrogate: 1-Chlorooctadecane 111 % 70-130

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

Received: 02/21/2011
 Reported: 02/22/2011
 Project Name: EDITH FEDERAL #1
 Project Number: 160981
 Project Location: NOT GIVEN

Sampling Date: 02/18/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 - 1 FT (H100343-06)

BTEX 8260B		mg/kg		Analyzed By: CMS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	02/22/2011	ND	2.34	117	2.00	9.99	
Toluene*	6.02	1.00	02/22/2011	ND	2.50	125	2.00	13.4	
Ethylbenzene*	8.41	1.00	02/22/2011	ND	2.41	121	2.00	10.1	
Total Xylenes*	15.8	3.00	02/22/2011	ND	7.09	118	6.00	11.9	

Surrogate: Dibromofluoromethane 119 % 70-130
 Surrogate: Toluene-d8 164 % 70-130
 Surrogate: 4-Bromofluorobenzene 138 % 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	16.0	16.0	02/21/2011	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	615	100	02/22/2011	ND	201	100	200	2.47	
DRO >C10-C28	3050	100	02/22/2011	ND	201	100	200	3.34	

Surrogate: 1-Chlorooctane 129 % 70-130
 Surrogate: 1-Chlorooctadecane 124 % 70-130

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 Fax To: (505) 394-2601

 Received: 02/21/2011
 Reported: 02/22/2011
 Project Name: EDITH FEDERAL #1
 Project Number: 160981
 Project Location: NOT GIVEN

 Sampling Date: 02/18/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 - 3 FT (H100343-07)

BTEX 8260B		mg/kg		Analyzed By: CMS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	02/22/2011	ND	2.34	117	2.00	9.99		
Toluene*	<0.100	0.100	02/22/2011	ND	2.50	125	2.00	13.4		
Ethylbenzene*	<0.100	0.100	02/22/2011	ND	2.41	121	2.00	10.1		
Total Xylenes*	<0.300	0.300	02/22/2011	ND	7.09	118	6.00	11.9		

Surrogate: Dibromofluoromethane 120 % 70-130

Surrogate: Toluene-d8 163 % 70-130

Surrogate: 4-Bromofluorobenzene 130 % 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	<16.0	16.0	02/21/2011	ND	432	108	400	3.77		

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	02/22/2011	ND	201	100	200	2.47		
DRO >C10-C28	<10.0	10.0	02/22/2011	ND	201	100	200	3.34		

Surrogate: 1-Chlorooctane 106 % 70-130

Surrogate: 1-Chlorooctadecane 108 % 70-130

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 Fax To: (505) 394-2601

Received: 02/21/2011
 Reported: 02/22/2011
 Project Name: EDITH FEDERAL #1
 Project Number: 160981
 Project Location: NOT GIVEN

Sampling Date: 02/18/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 - 5 FT (H100343-08)

BTEX 8260B		mg/kg		Analyzed By: CMS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	02/22/2011	ND	2.34	117	2.00	9.99		
Toluene*	<0.100	0.100	02/22/2011	ND	2.50	125	2.00	13.4		
Ethylbenzene*	<0.100	0.100	02/22/2011	ND	2.41	121	2.00	10.1		
Total Xylenes*	<0.300	0.300	02/22/2011	ND	7.09	118	6.00	11.9		

Surrogate: Dibromofluoromethane 103 % 70-130

Surrogate: Toluene-d8 163 % 70-130

Surrogate: 4-Bromofluorobenzene 132 % 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	02/21/2011	ND	432	108	400	3.77		

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	02/22/2011	ND	201	100	200	2.47		
DRO >C10-C28	<10.0	10.0	02/22/2011	ND	201	100	200	3.34		

Surrogate: 1-Chlorooctane 105 % 70-130

Surrogate: 1-Chlorooctadecane 106 % 70-130

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 Fax To: (505) 394-2601

Received: 02/21/2011
 Reported: 02/22/2011
 Project Name: EDITH FEDERAL #1
 Project Number: 160981
 Project Location: NOT GIVEN

Sampling Date: 02/18/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 - 7 FT (H100343-09)

BTEX 8260B		mg/kg		Analyzed By: CMS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	02/22/2011	ND	2.34	117	2.00	9.99		
Toluene*	<0.100	0.100	02/22/2011	ND	2.50	125	2.00	13.4		
Ethylbenzene*	<0.100	0.100	02/22/2011	ND	2.41	121	2.00	10.1		
Total Xylenes*	<0.300	0.300	02/22/2011	ND	7.09	118	6.00	11.9		

Surrogate: Dibromofluoromethane 122 % 70-130

Surrogate: Toluene-d8 164 % 70-130

Surrogate: 4-Bromofluorobenzene 130 % 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	432	16.0	02/21/2011	ND	432	108	400	3.77		

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	02/22/2011	ND	201	100	200	2.47		
DRO >C10-C28	16.5	10.0	02/22/2011	ND	201	100	200	3.34		

Surrogate: 1-Chlorooctane 101 % 70-130

Surrogate: 1-Chlorooctadecane 104 % 70-130

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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: 02/21/2011
 Reported: 02/22/2011
 Project Name: EDITH FEDERAL #1
 Project Number: 160981
 Project Location: NOT GIVEN

Sampling Date: 02/18/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 - 8 FT (H100343-10)

BTEX 8260B		mg/kg		Analyzed By: CMS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	02/22/2011	ND	2.34	117	2.00	9.99		
Toluene*	<0.100	0.100	02/22/2011	ND	2.50	125	2.00	13.4		
Ethylbenzene*	<0.100	0.100	02/22/2011	ND	2.41	121	2.00	10.1		
Total Xylenes*	<0.300	0.300	02/22/2011	ND	7.09	118	6.00	11.9		

Surrogate: Dibromofluoromethane 121 % 70-130

Surrogate: Toluene-d8 164 % 70-130

Surrogate: 4-Bromofluorobenzene 129 % 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	02/21/2011	ND	432	108	400	3.77	

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	02/22/2011	ND	201	100	200	2.47	
DRO >C10-C28	<10.0	10.0	02/22/2011	ND	201	100	200	3.34	

Surrogate: 1-Chlorooctane 103 % 70-130

Surrogate: 1-Chlorooctadecane 109 % 70-130

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Notes and Definitions

- 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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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	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#		505-394-3481 / 505-394-2601								
Client Company		Chesapeake Energy								
Facility Name		Edith Federal #1								
Location										
Project Reference		160981								
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								
H100343-1	1 SP1- 1ft	X			X				X		18-Feb-11	11:00	X	X	X				
2	2 SP1- 3ft	X			X				X		18-Feb-11	11:01	X	X	X				
3	3 SP1- 5ft	X			X				X		18-Feb-11	11:02	X	X	X				
4	4 SP2- 1ft	X			X				X		18-Feb-11	11:30	X	X	X				
5	5 SP2- 3ft	X			X				X		18-Feb-11	11:31	X	X	X				
6	6 SP3- 1ft	X			X				X		18-Feb-11	11:50	X	X	X				
7	7 SP3- 3ft	X			X				X		18-Feb-11	11:51	X	X	X				
8	8 SP3- 5ft	X			X				X		18-Feb-11	11:52	X	X	X				
9	9 SP1- 7ft	X			X				X		18-Feb-11	13:01	X	X	X				
10	10 SP1- 8ft	X			X				X		18-Feb-11	13:02	X	X	X				

Sampler Relinquished:	Date 2-21-2011	Received By:	E-mail results to: jsmith.epi@gmail.com
	Time 11:19	<i>Jodi Benson</i>	
Relinquished by:	Date 2-21-2011	Received By: (lab staff)	RUSH!!
	Time		
Delivered by:	Sample Cool & Intact	Checked By:	
<i>David Robinson</i>	40°C Yes No	<i>JH</i>	

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