CARDINAL Laboratories

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

30025 - 2000

HOBBS OCD

JAN 2 3 2013

RECEIVED

25887

January 22, 2013

Daniel Dominguez Environmental Plus, Inc. P.O. Box 1558 Eunice, NM 88231

RE: QUAIL QUEEN #9

Enclosed are the results of analyses for samples received by the laboratory on 01/17/13 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 9



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

Received:	01/17/2013	Sampling Date:	01/17/2013
Reported:	01/22/2013	Sampling Type:	Soil
Project Name:	QUAIL QUEEN #9	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-B SEC. 11. T19S, R34E		

Sample ID: SP 1 (SURFACE) (H300134-01)

BTEX 8021B	mg/	/kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.228	0.100	01/22/2013	ND	1.94	97.1	2.00	17.4	
Toluene*	2.62	0.100	01/22/2013	ND	1.93	96.6	2.00	16.7	
Ethylbenzene*	3.96	0.100	01/22/2013	ND	1.94	97.0	2.00	17.0	
Total Xylenes*	11.9	0.300	01/22/2013	ND	5.92	98.7	6.00	16.8	
Total BTEX	18.7	0.600	01/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	284 9	89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	01/22/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS	-				S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	692	200	01/21/2013	ND	179	89.4	200	6.33	
DRO >C10-C28	20900	200	01/21/2013	ND	186	92.8	200	3.57	

Surrogate: 1-Chlorooctane133 %65.2-140Surrogate: 1-Chlorooctadecane618 %63.6-154

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/17/2013	Sampling Date:	01/17/2013
Reported:	01/22/2013	Sampling Type:	Soil
Project Name:	QUAIL QUEEN #9	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-B SEC. 11. T19S, R34E		

Sample ID: SP 1 (1') (H300134-02)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2013	ND	1.94	97.1	2.00	17.4	
Toluene*	<0.050	0.050	01/22/2013	ND	1.93	96.6	2.00	16.7	
Ethylbenzene*	<0.050	0.050	01/22/2013	ND	1.94	97.0	2.00	17.0	
Total Xylenes*	<0.150	0.150	01/22/2013	ND	5.92	98.7	6.00	16.8	
Total BTEX	<0.300	0.300	01/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/22/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/21/2013	ND	179	89.4	200	6.33	
DRO >C10-C28	72.7	10.0	01/21/2013	ND	186	92.8	200	3.57	
Surrogate: 1-Chlorooctane	89.1 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane									

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Celey D. Keene, Lab Director/Quality Manager



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Received:	01/17/2013	Sampling Date:	01/17/2013
Reported:	01/22/2013	Sampling Type:	Soil
Project Name:	QUAIL QUEEN #9	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-B SEC. 11. T19S, R34E		

Sample ID: SP 1 (1.5') (H300134-03)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2013	ND	1.94	97.1	2.00	17.4	
Toluene*	<0.050	0.050	01/22/2013	ND	1.93	96.6	2.00	16.7	
Ethylbenzene*	<0.050	0.050	01/22/2013	ND	1.94	97.0	2.00	17.0	
Total Xylenes*	<0.150	0.150	01/22/2013	ND	5.92	98.7	6.00	16.8	
Total BTEX	< 0.300	0.300	01/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.8	89.4-12	б						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/22/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/21/2013	ND	179	89.4	200	6.33	
DRO >C10-C28	27.7	10.0	01/21/2013	ND	186	92.8	200	3.57	
Surrogate: 1-Chlorooctane	85.7 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	92.5 9	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	01/17/2013	Sampling Date:	01/17/2013
Reported:	01/22/2013	Sampling Type:	Soil
Project Name:	QUAIL QUEEN #9	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-B SEC. 11. T19S, R34E		

Sample ID: SP 2 (SURFACE) (H300134-04)

BTEX 8021B	mg/	kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	01/22/2013	ND	1.94	97.1	2.00	17.4	
Toluene*	0.054	0.050	01/22/2013	ND	1.93	96.6	2.00	16.7	
Ethylbenzene*	0.175	0.050	01/22/2013	ND	1.94	97.0	2.00	17.0	
Total Xylenes*	0.435	0.150	01/22/2013	ND	5.92	98.7	6.00	16.8	
Total BTEX	0.663	0.300	01/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	127 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	01/22/2013	ND	432	108	400	0.00	
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	21.6	10.0	01/21/2013	ND	179	89.4	200	6.33	
DRO >C10-C28	1360	10.0	01/21/2013	ND	186	92.8	200	3.57	
Surrogate: 1-Chlorooctane	80.9 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	110 %	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	01/17/2013	Sampling Date:	01/17/2013
Reported:	01/22/2013	Sampling Type:	Soil
Project Name:	QUAIL QUEEN #9	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-B SEC. 11. T19S, R34E		

Sample ID: SP 2 (1') (H300134-05)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	01/22/2013	ND	1.94	97.1	2.00	17.4	
Toluene*	< 0.050	0.050	01/22/2013	ND	1.93	96.6	2.00	16.7	
Ethylbenzene*	<0.050	0.050	01/22/2013	ND	1.94	97.0	2.00	17.0	
Total Xylenes*	<0.150	0.150	01/22/2013	ND	5.92	98.7	6.00	16.8	
Total BTEX	< 0.300	0.300	01/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.3	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/22/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/21/2013	ND	179	89.4	200	6.33	
DRO >C10-C28	32.6	10.0	01/21/2013	ND	186	92.8	200	3.57	
Surrogate: 1-Chlorooctane	75.4 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	87.3 9	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	01/17/2013	Sampling Date:	01/17/2013
Reported:	01/22/2013	Sampling Type:	Soil
Project Name:	QUAIL QUEEN #9	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-B SEC. 11. T19S, R34E		

Sample ID: SP 2 (1.5') (H300134-06)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2013	ND	1.94	97.1	2.00	17.4	
Toluene*	< 0.050	0.050	01/22/2013	ND	1.93	96.6	2.00	16.7	
Ethylbenzene*	< 0.050	0.050	01/22/2013	ND	1.94	97.0	2.00	17.0	
Total Xylenes*	<0.150	0.150	01/22/2013	ND	5.92	98.7	6.00	16.8	
Total BTEX	<0.300	0.300	01/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/22/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/21/2013	ND	179	89.4	200	6.33	
DRO >C10-C28	<10.0	10.0	01/21/2013	ND	186	92.8	200	3.57	
Surrogate: 1-Chlorooctane	86.2 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	93.5 %	63.6-15	4						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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 SM4500CI-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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 9

Environmental Plus, Inc.

Chain of Custody Form

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

P.O. Box 1558, Eunice, NM 88231

LAB

Company Name Environmental Plus, Inc.					Bill To								ANALYSIS REQUEST											
EPI Project Ma	nager Daniel Dominguez	ger Daniel Dominguez						1												T				T
Mailing Addres	S P.O. BOX 1558																							
City, State, Zip	Eunice New Mexic	5 88:	231																					1
EPI Phone#/Fa	x# 575-394-3481 / 575	-394-	-260	1											1.5									
Client Compan	y Chevron USA					1																		
Facility Name	Quail Queen #9									-										1.5				
Location	UL-B Sec. 11, T195	, R3	4E	2.1					Att	tn: I	Dan	iel D	ominguez		100									
Project Referen	nce												1558											
EPI Sampler N	ame David Robinson	1.1.1								Eu	nice	, NA	A 88231											
						MATRIX PR				PR	RESERV.		SAMPLING		1									
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 (CI')	SULFATES (SO4 ["])	PH	TCLP	OTHER >>>	PAH		
	1 SP1 (Surface)	G				X							17-Jan-13	8:25	X					1				
	2 SP1 (1')	G	and the second s	T		X							17-Jan-13	8:26	X					1				1
	3 SP1 (1.5')	G				X							17-Jan-13	8:50	X		X		-					1
	4 SP2 (Surface)	G				X							17-Jan-13	9:20	X									
	5 SP2 (1')	G				X							17-Jan-13	9:22	X		X				-			T
	6 SP2 (1.5')	G				X							17-Jan-13	9:40	X									
	7					-																		
	8						r = r																	
	9								1					100			1					dil.		T
1	10						1						Section and section	1.00	1									
Sampler Relinguished	Date 1-17-12 Time 12-30 Date 1771 12 Time 12-30 Date 1771 12 Time 12-30 Date 1771 12 Time 12-30 Date 1-17-12 Date 1-17-12 Time 12-30 Date 1-17-12 Date 1-17-12 Time 12-30	Rec	11	Dow By: 1	ab sta		6	eckber	Sy i By:		E-n	nail r	esults to: ddom	ninguezep	oi@g	mail	.con	n & b	orad	ley.b	levi	ns@	chev	ron.c
Delivered by:	D.D.	le Coo	it & Int	act No		- 14	6	The r	1By:		L												Pag	ge