Rice Environmental Consulting & Safety

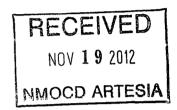
P.O. Box 5630 Hobbs, NM 88241 Phone 575.393.4411 Fax 575.393.0293

October 16, 2012

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Mike Bratcher
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau – District 2
811 S. First St.
Artesia, NM 88210

RE: CORRECTIVE ACTION PLAN (CAP) Linn Energy – H.E. West A #028 AD UL/H sec. 3 T17S R31E API No. 30-015-28318 2RP-1216 BLM Event No. NU12156TG



Mr. Bratcher:

Linn Energy (Linn) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the site referenced above.

Background and Previous Work

The site is an accidental discharge of crude oil and produced water associated with the H.E. West A #028. A surface poly line ruptured at a seam and released fluids onto pasture land. The line was repaired and an initial form C-141 was submitted by Linn on July 2, 2012 (Appendix A). The leak site is located east northeast of Loco Hills, in unit letter 'D' of section 3, T17S, R31E in Eddy County, New Mexico.

On September 17, 2012, RECS personnel re-excavated Vertical #1 through #4. Samples were collected from the bottoms of each re-excavated trench and field tested for chloride and organic vapors to confirm that all previously excavated soils were removed. The bottom samples for each trench were submitted to a commercial laboratory for chloride, TPH, and BTEX analyses (Appendices B, C). The trenches were backfilled with clean imported soil. A sample of the imported soil was also submitted to a laboratory for chloride and TPH analyses (Appendix F). Excavated soils were removed to a NMOCD approved disposal facility.

During October 4-8, 2012, RECS installed three (3) additional vertical sample trenches (Vertical #5 - #7) (Figure). Soil samples were collected at every foot. The samples were field tested, and submitted to a laboratory for chloride, TPH, and BTEX analyses (Appendices D, E). The trenches at Vertical #5 through #7 were also backfilled with clean imported soil. Excavated soils were removed to a NMOCD approved disposal facility.

Corrective Action Plan

RECS proposes to excavate the entire area to 3 ft. below ground surface with excavation side wall samples not exceeding 1000 mg/kg chloride. Grab samples taken from the excavation bottom and sidewalls will be submitted to a commercial laboratory for chloride and TPH analysis. Excavated soils will be removed to a NMOCD approved disposal facility. The excavation will be backfilled with clean, imported soil and the top two feet of the excavation will be backfilled with clean soil similar to that of the native terrain. The site will be contoured to the surrounding landscape and then re-seeded with BLM seed mix #2 and #4 in a 50/50 mix. Erosion control will be installed to allow the reclaimed area to settle and re-vegetate.

Once the CAP activities are completed, a written report detailing the CAP activities and a request for 'remediation termination' status of the regulatory file will be submitted.

RECS appreciates the opportunity to work with you on this project. Please call me at the number below with any questions or comments.

Sincerely,

Bruce Baker Head Foreman

Bruce Balen

RECS

(575) 631-5157

cc:

Terry Gregston

BLM Environmental Protection Specialist

tgregsto@blm.gov

Attachments:

Figure: Site Plat

Appendix A: Initial Form C-141

Appendix B: Laboratory Results for Bottom Samples at Vertical #1 - #3
Appendix C: Laboratory Results for Bottom Sample at Vertical #4
Appendix D: Laboratory Results for Bottom Sample at Vertical #5

Appendix E: Laboratory Results for Bottom Samples at Vertical #6 - #7

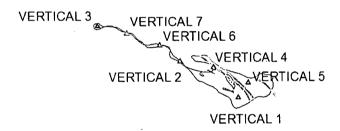
Appendix F: Laboratory Results for Imported Soil

Figure

Site Plat

Vertical #5													
		Vert	ical #5										
Sample Description	Lab Cl-	GRO	DRO	В	T	Ε	Х						
VERTICAL 5 SURFACE	4,240	164	12,500	<0.05	0.198	1.56	3.51						
VERTICAL 5 @ 1'	2,520	698	9,670	<0.05	0.733	9.56	22.1						
VERTICAL 5 @ 2'	1,580	108	604	<0.05	0.063	1.15	3.21						
VERTICAL 5 @ 3'	1,760	<10	18.5	<0.05	<0.05	<0.05	<0.15						
VERTICAL 5 @ 4'	2,320	<10	<10	<0.05	<0.05	<0.05	<0.15						
VERTICAL 5 @ 5'	2,680	<10	<10	<0.05	<0.05	<0.05	<0.15						
VERTICAL 5 @ 6'	3,280	<10	<10	<0.05	<0.05	<0.05	<0.15						
VERTICAL 5 @ 7'	3,720	<10	<10	<0.05	<0.05	<0.05	<0.15						
VERTICAL 5 @ 8'	5,120	<10	<10	<0.05	<0.05	<0.05	<0.15						
VERTICAL 5 @ 9'	8,160	<10	878	<0.05	<0.05	<0.05	<0.15						
VERTICAL 5 @ 10'	560	<10	26	<0.05	<0.05	<0.05	<0.15						
VERTICAL 5 @ 11'	880	<10	<10	<0.05	<0.05	<0.05	<0.15						
VERTICAL 5 @ 12'	240	<10	<10	<0.05	<0.05	<0.05	<0.15						
VERTICAL 5 @ 13'	880	<10	<10	<0.05	<0.05	<0.05	<0.15						
VERTICAL 5 @ 14'	<16	<10	<10	<0.05	<0.05	<0.05	<0.15						
VERTICAL 5 @ 14'6"	96	<10	<10	<0.05	<0.05	<0.05	<0.15						

Vertical #6														
Sample Description	Lab Cl-	GRO	DRO	В	T	Ε	Х							
VERTICAL 6 SURFACE	544	<50	3,340	<0.05	<0.05	0.066	0.224							
VERTICAL 6 @ 1'	1,960	<50	932	<0.05	<0.05	0.085	0.201							
VERTICAL 6 @ 2'	2,200	<10	<10	<0.05	<0.05	<0.05	<0.15							
VERTICAL 6 @ 3'	1,780	<10	<10	<0.05	<0.05	<0.05	<0.15							
VERTICAL 6 @ 4'	800	<10	<10	<0.05	<0.05	<0.05	<0.15							
VERTICAL 6 @ 5'	3,280	<10	<10	<0.05	<0.05	<0.05	<0.15							
VERTICAL 6 @ 6'	1,120	<10	<10	<0.05	<0.05	<0.05	<0.15							
VERTICAL 6 @ 7'	3,280	<10	<10	<0.05	<0.05	<0.05	<0.15							
VERTICAL 6 @ 8'	4,800	<10	<10	<0.05	<0.05	<0.05	<0.15							
VERTICAL 6 @ 9'	4,960	<10	<10	<0.05	<0.05	<0.05	<0.15							
VERTICAL 6 @ 10'	3,360	<10	<10	<0.05	<0.05	<0.05	<0.15							
VERTICAL 6 @ 11'	6,000	<10	<10	<0.05	<0.05	<0.05	<0.15							
VERTICAL 6 @ 12'	768	<10	<10	<0.05	⊲0.05	<0.05	<0.15							
VERTICAL 6 @ 13'	912	<10	<10	<0.05	<0.05	<0.05	<0.15							
VERTICAL 6 @ 14'	144	<10	<10	<0.05	<0.05	<0.05	<0.15							
VERTICAL 6 @ 14'6"	160	<10	<10	<0.05	<0.05	<0.05	<0.15							



DGW = 188 ft Landowner = BLM

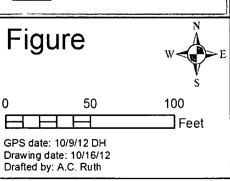
Vertical #7														
Sample Description	Lab Cl-	GRO	DRO	В	T	E	X							
VERTICAL 7 SURFACE	1,140	150	9,400	<0.05	0.054	0.628	1.48							
VERTICAL 7 @ 1'	3,840	731	5,850	<0.05	0.18	1.31	2.31							
VERTICAL 7 @ 2'	1,650	<10	<10	<0.05	<0.05	<0.05	<0.15							
VERTICAL 7 @ 3'	416	<10	<10	<0.05	<0.05	<0.05	<0.15							
VERTICAL 7 @ 4'	416	<10	<10	<0.05	<0.05	<0.05	<0.15							
VERTICAL 7 @ 5'	384	<10	<10	<0.05	<0.05	<0.05	<0.15							
VERTICAL 7 @ 6'	1,060	<10	<10	<0.05	<0.05	<0.05	<0.15							
VERTICAL 7 @ 7'	800	<10	<10	<0.05	<0.05	<0.05	<0.15							
VERTICAL 7 @ 8'	80	<10	<10	<0.05	<0.05	<0.05	<0.15							
VERTICAL 7 @ 9'	32	<10	878	<0.05	<0.05	<0.05	<0.15							

Legend A SAMPLE POINTS — ABOVE GROUND POLY AD AREA (679 sq ft) NON-AD AREA



LINN ENERGY H.E. WEST A #28

LEGALS: UL/D sec. 3 T-17-S R-31-E EDDY COUNTY, NM



Appendix A Initial Form C-141

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

<u>District 1</u>
1625 N. French Dr , Hobbs, NM 88240
<u>District II</u>
1301 W. Grand Avenue, Artesia, NM 88210
<u>District III</u>
1000 Rio Brazos Road, Aztec, NM 87410
<u>District IV</u>
1220 S St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

JUL **02** 2012

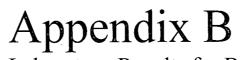
RECEIVED

Form C-141 evised October 10, 2003

NMQGA ABTESHOP riate District Office in accordance with 19.15.29 NMAC

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505

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		der Hobbs,					lo.: 575-738-17	39						
Facility Nan						acility Typ								
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Surface Ow	ner: Feder	al	-	Mineral (APUNC	.: 3001528	318			
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				NA]	TURE	OF REL								
		Produced Water	er				Release: 2 / 3			Recovered:				
Source of Re						Date and Hour of Occurrence. Date and Hour of Discovered 06/21/2012 2:30pm If YES, To Whom?								
was minicul	are Nonce (Ycs [No 🗌 Not R	lequired			CD / Terry Gregston- BLM						
By Whom? J	oe Hernand	lez					lour 06/22/2012							
Was a Water	course Read		Yes 🗵] No		If YES, V	olume Impacting	the Wate	ercourse.					
If a Waterco	urse was In	pacted, Descr	ibe Fully.	k;		L				· · ·				
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	10	sel -	ر المرتبي				OIL CON	SERY	SERVATION DIVISION					
Signature:	und find to fi	Georgian -	1			A	. District 0	Si	gned By_	Mile	Bre	mucor_		
Printed Nam	e: Joe Hern	andez					District Supervi	301.						
Title: Produ	ction Forem	an				Approval Date: Ex				Expiration Date:				
E-mail Addi		ndcz@linnene		5-942-9492		Conditions of Approval:				Attached				
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Laboratory Results for Bottom Samples at Vertical #1 - #3



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

09/24/2012

09/19/2012

Reported:

09/28/2012

Sampling Date: Sampling Type:

Soil

Project Name:

WEST A #28 NONE GIVEN

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: VERTICAL #1 @ 12' (H202322-01)

•		-
BTEX 8021B		ma/k

97	<u> </u>	raidiyee	2 B y i N i					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	09/25/2012	ND	2.14	107	2.00	12.1	
<0.050	0.050	09/25/2012	ND	2.39	119	2.00	13.4	
<0.050	0.050	09/25/2012	ND	2.37	119	2.00	14.1	
<0.150	0.150	09/25/2012	ND	7.18	120	6.00	13.7	
98.4	% 89.4-12	6						
mg/	'kg	Analyze	d By: HM					
Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
48.0	16.0	09/27/2012	ND	400	100	400	3.92	
mg,	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	09/25/2012	ND	181	90.6	200	3.06	
11.0	10.0	09/25/2012	ND	159	79.5	200	8.88	
89.0	% 65.2-14	0						
91.1	% 63 6-15	·4						
	Result <0.050 <0.050 <0.050 <0.150 98.4 mg/ Result 48.0 mg/ Result <10.0 11.0	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150 98.4 % 89.4-12 mg/ky Result Reporting Limit 48.0 16.0 mg/ky Result Reporting Limit <10.0 10.0 11.0 10.0	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC < 0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Analyzed By: AP

Cardinal Laboratories

*=Accredited Analyte

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Celeg Di Keine



RICE ENVIRONMENTAL CONSULTING & SAFETY **BRUCE BAKER** 112 W. TAYLOR HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

09/24/2012

Sampling Date:

09/20/2012

Reported:

09/28/2012

Sampling Type:

Soil

Project Name:

WEST A #28

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: VERTICAL #2 @ 4' (H202322-02)

BTEX 8021B	mg/l	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2012	ND	2.14	107	2.00	12.1	
Toluene*	<0.050	0.050	09/25/2012	ND	2.39	119	2.00	13.4	
Ethylbenzene*	<0.050	0.050	09/25/2012	ND	2.37	119	2.00	14.1	
Total Xylenes*	<0.150	0.150	09/25/2012	ND	7.18	120	6.00	13.7	
Surrogate: 4-Bromofluorobenzene (PIL	98.7 %	6 89.4-120	6						
Chloride, SM4500Cl-B	mg/l	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

D It								
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride 128 16.0 FPH 8015M mg/kg Analyte Result Reporting Limit		09/27/2012	ND	400	100	400	3.92	
		Analyze	d By: MS					
		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0 10.0		09/25/2012	ND	181	90.6	200	3.06	
>C10-C28 <10.0 10.0		09/25/2012	ND	159	79.5	200	8.88	
	Result	mg/kg Result Reporting Limit <10.0 10.0	Result Reporting Limit Analyzed <10.0 10.0 09/25/2012	mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0 10.0 09/25/2012 ND	mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0 10.0 09/25/2012 ND 181	mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank SI BS % Recovery True Value QC <10.0	mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0 10.0 09/25/2012 ND 181 90.6 200 3.06

Surrogate: 1-Chlorooctane

88.0 %

65.2-140

Surrogate: 1-Chlorooctadecane

90.7%

63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 6



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

09/24/2012

Sampling Date:

09/20/2012

Reported:

09/28/2012

Sampling Type:

Soil

Project Name:

WEST A #28

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #3 @ 9' 6" (H202322-03)

BTEX 8021B	mg/	L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	09/26/2012	ND	1.70	85.2	2.00	17.7	
Toluene*	<0.050	0.050	09/26/2012	ND	1.88	94.0	2.00	17.9	
Ethylbenzene*	<0.050	0.050	09/26/2012	ND	1.87	93.4	2.00	17.6	
Total Xylenes*	<0.150	0.150	09/26/2012	ND	5.67	94.6	6.00	17.5	
Surrogate: 4-Bromofluorobenzene (PIL	105 9	% 89.5-12	6			-			
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/27/2012	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	09/25/2012	ND	181	90.6	200	3.06	
DRO >C10-C28	<10.0	10.0	09/25/2012	ND	159	79.5	200	8.88	
Surrogate: 1-Chlorooctane	85.9	% 65.2-14	0		**				
Surrogate: 1-Chlorooctadecane	88.6	% 63.6-15	4						

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*=Accredited Analyte

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Celey D. Keine

ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name: RECS Project Manager: Proj							P.O. #:				LL TO		:				ANAL	<u> YSIS</u>	SRE	QUE	5T				
Project Manager								P.	O. #	# :															
Address:								C.	omp	any	:							SI	Ì				ļ		
City:		State: NM	Zip	: 88	240			A	ttn:									Cations/Anions		<u> </u>					- [
Phone #:		Fax #:						_ A	ddre	ess:								٩n							
Project #:		Project Owne	r:					ci	ty:					ပ	Σ		工	//S						ļ	
Project Name: 1	WEST A #28							SI	ate:	:		Zip:		Chlorides	8015	×	Texas TPH	G			j				
Project Location								PI	hone	e #:				۲i	30	BTEX	S	ati	TDS						
Sampler Name:	DOKSTON Harry	خ						Fa	x #					ΡK	Ī	œ,	Xa	O							
FOR LAB USE ONLY			١.			MAT	RIX		PR	RESE	RV.	SAMPLI	NG	၁	ТРН		Te	šte							
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PLEASE NOTE: Liability and Darmages. Cardinal's liability and clearl's exclusive remedy for any claim nitriling whether based it analyses. All claims Including those for negligence and any other cause whatsoever shall be deemed writved unless made in service. In no event shall Cardnul by liabile for incidental or concentrental damages, including without limitation, business into affiliates of Successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether st						writing rruption	ng and received by Cardinal within 30 days at tions, loss of use, or loss of profits incurred by			ng and received by Cardinal within 30 days after completio ions, loss of use, or loss of profits incurred by client, its sui claim is based upon any of the above stated reasons or of			er completion of the	ne applicat ries .e.	ble □ Ye	s 171	No	Add'l	Phone	#:					
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476





RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

(575) 397-1471 Fax To:

Received:

09/19/2012

Sampling Date:

09/18/2012

Reported:

09/27/2012

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

Project Number:

WEST A #28 NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #4 @ 12' 6" (H202279-01)

BTEX 8021B	mg/	'L	Analyze	d By: AP	<u> </u>				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2012	ND	1.70	85.2	2.00	17.7	
Toluene*	<0.050	0.050	09/27/2012	ND	1.88	94.0	2.00	17.9	
Ethylbenzene*	<0.050	0.050	09/27/2012	ND	1.87	93.4	2.00	17.6	
Total Xylenes*	<0.150 0.150		09/27/2012	ND	5.67	94.6	6.00	17.5	
rogate: 4-Bromofluorobenzene (PIE 102 % 89.		% 89.5-12	6						
Chloride, SM4500CI-B	mg,	kg	Analyze	d By: HM					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/22/2012	ND	400	100	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	09/21/2012	ND	185	92.4	200	3.04	
DRO >C10-C28	<10.0	10.0	09/21/2012	ND	179	89.6	200	3.46	
Surrogate: 1-Chlorooctane	89.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	92.3	% 63.6-15	4						

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101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Project Manager: Rouce Baker							P.O. #:				endrighmone.	4		7		ANA	LYSIS	RE	QUE	<u>ST</u>						
Project Manage	i: Bruce Baker								P.0). #:							1/2									
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City:		State:	Zip);					Att	n:						. '	۷.		Ö							
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FOR LAB USE ONLY				Π		M/	TRI	X		PRE	SE	RV.	SAMPL	ING	ΙÖ	TPH		<u>(a)</u>	te.							
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service. In no eyest shall C	ng those for negligence and any other ca ardinal be liable for incidental or consequ	iental damages, including	withou	ut limit	ation, b	uziness i	nterrup	tions,	loss of	use. e	u loss	of pro	ofits incurred by	ctiens its subsidia	ries	ble										
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Time:																		•								
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A26

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Appendix D

Laboratory Results for Bottom Sample at Vertical #5



RICE ENVIRONMENTAL CONSULTING & SAFETY **BRUCE BAKER** 112 W. TAYLOR HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

10/05/2012

Sampling Date:

10/04/2012

Reported:

10/11/2012

Sampling Type:

Soil

Project Name:

WEST A #28

Sampling Condition:

Cool & Intact

Project Number:

EVENT # NU12156TG

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: VERTICAL #5 @ SURFACE (H202428-01)

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*	<0.050	0.050	10/09/2012	ND	2.32	116	2.00	9.62	
Toluene*	0.198	0.050	10/09/2012	ND	2.07	103	2.00	9.58	
Ethylbenzene*	1.56	0.050	10/09/2012	ND	2.09	105	2.00	9.25	
Total Xylenes*	3.51	0.150	10/09/2012	ND	6.12	102	6.00	9.28	
Surrogate: 4-Bromofluorobenzene (PIL	171	% 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	4240	16.0	10/09/2012	ND	400	100	400	3.92	
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	164	100	10/08/2012	ND	194	96.9	200	3.67	
DRO >C10-C28	12500	100	10/08/2012	ND	198	98.9	200	4.31	
Surrogate: 1-Chlorooctane	110	% 65.2-14	0 .						
Surrogate: 1-Chlorooctadecane	212	% 63.6-15	4						

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Celeg D. Keine



RICE ENVIRONMENTAL CONSULTING & SAFETY **BRUCE BAKER** 112 W. TAYLOR HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

10/05/2012

Sampling Date:

10/04/2012

Reported:

10/11/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Project Name:

WEST A #28

Project Number:

EVENT # NU12156TG

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #5 @ 1' (H202428-02)

BTEX 8021B	mg/kg		Analyzed By: AP					S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2012	ND	1.96	97.9	2.00	10.9		
Toluene*	0.733	0.050	10/10/2012	ND	1.81	90.3	2.00	10.7		
Ethylbenzene*	9.56	0.050	10/10/2012	ND	1.83	91.3	2.00	10.2		
Total Xylenes*	22.1	0.150	10/10/2012	ND	5.47	91.2	6.00	11.1		
Surrogate: 4-Bromofluorobenzene (PIL	554	% , 89.4-12	6							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2520	16.0	10/09/2012	ND	400	100	400	3.92		
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	698	100	10/08/2012	ND	194	96.9	200	3.67		
DRO >C10-C28	9670	100	10/08/2012	ND	198	98.9	200	4.31		
Surrogate: 1-Chlorooctane	213	% 65.2-14	0							
Surrogate: 1-Chlorooctadecane	156	% 63.6-15	4							

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Fax To:

(575) 397-1471

Received:

10/05/2012

Sampling Date:

10/04/2012

Reported:

10/11/2012

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

Project Number:

WEST A #28

EVENT # NU12156TG

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: VERTICAL #5 @ 2' (H202428-03)

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*	<0.050	0.050	10/10/2012	ND	1.96	97.9	2.00	10.9	
Toluene*	0.063	0.050	10/10/2012	ND	1.81	90.3	2.00	10.7	
Ethylbenzene*	1.15	0.050	10/10/2012	ND	1.83	91.3	2.00	10.2	
Total Xylenes*	3.21	0.150	10/10/2012	ND	5.47	91.2	6.00	11.1	
Surrogate: 4-Bromofluorobensene (PIL	218	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	10/09/2012	ND	400	100	400	3.92	
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	108	100	10/08/2012	ND	194	96.9	200	3.67	
DRO >C10-C28	604	100	10/08/2012	ND	198	98.9	200	4.31	
Surrogate: 1-Chlorooctane	98.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	96.0	% 63.6-15	4						

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Fax To: (575) 397-1471

Received:

10/05/2012

Sampling Date:

10/04/2012

Reported:

10/11/2012

Sampling Type:

Soil

Project Name:

WEST A #28

Sampling Condition:

Cool & Intact

Project Number:

EVENT # NU12156TG

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #5 @ 3' (H202428-04)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/10/2012	ND	1.96	97.9	2.00	10.9	
Toluene*	<0.050	0.050	10/10/2012	ND	1.81	90.3	2.00	10.7	
Ethylbenzene*	<0.050	0.050	10/10/2012	ND	1.83	91.3	2.00	10.2	
Total Xylenes*	<0.150	0.150	10/10/2012	ND	5.47	91.2	6.00	11.1	
Surrogate: 4-Bromofluorobenzene (PIL	104	% 89.4-12	6		•				
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	10/09/2012	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	10/08/2012	ND	194	96.9	200	3.67	
DRO >C10-C28	18.5	10.0	10/08/2012	ND	198	98.9	200	4.31	
Surrogate: 1-Chlorooctane	83.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	87.2	% 63.6-15	4						

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RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER

112 W. TAYLOR HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

10/05/2012

Sampling Date:

10/04/2012

Reported:

10/11/2012

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

Project Number:

WEST A #28 EVENT # NU12156TG

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #5 @ 4' (H202428-05)

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	10/10/2012	ND	1.96	97.9	2.00	10.9	
Toluene*	<0.050	0.050	10/10/2012	ND	1.81	90.3	2.00	10.7	
Ethylbenzene*	<0.050	0.050	10/10/2012	ND	1.83	91.3	2.00	10.2	
Total Xylenes*	<0.150	0.150	10/10/2012	ND	5.47	91.2	6.00	11.1	
Surrogate: 4-Bromofluorobenzene (PIC	104	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	10/09/2012	ND	400	100	400	3.92	
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	10/08/2012	ND	194	96.9	200	3.67	
DRO >C10-C28	<10.0	10.0	10/08/2012	ND	198	98.9	200	4.31	
Surrogate: 1-Chlorooctane	77.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	76.1	% 63.6-15	4						

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RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

(575) 397-1471 Fax To:

Received:

10/05/2012

10/04/2012

Reported:

10/11/2012

Sampling Type: Soil Sampling Condition:

Project Name:

WEST A #28

Cool & Intact

Project Number:

EVENT # NU12156TG

Sample Received By:

Sampling Date:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #5 @ 5' (H202428-06)

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	10/10/2012	ND	1.96	97.9	2.00	10.9	
Toluene*	<0.050	0.050	10/10/2012	ND	1.81	90.3	2.00	10.7	
Ethylbenzene*	<0.050	0.050	10/10/2012	ND	1.83	91.3	2.00	10.2	
Total Xylenes*	<0.150	0.150	10/10/2012	ND	5.47	91.2	6.00	11.1	
Surrogate: 4-Bromofluorobenzene (PIL	103	% 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	2680	16.0	10/09/2012	ND	400	100	400	3.92	
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	10/08/2012	ND	194	96.9	200	3.67	
DRO >C10-C28	<10.0	10.0	10/08/2012	ND	198	98.9	200	4.31	
Surrogate: 1-Chlorooctane	78.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	82.6	% 63.6-15	4						

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Celey D. Keene



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

10/05/2012

Sampling Date:

10/04/2012

Reported:

10/11/2012

Sampling Type:

Soil

Project Name:

WEST A #28

Sampling Condition:

Cool & Intact

Project Number:

EVENT # NU12156TG

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #5 @ 6' (H202428-07)

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	10/10/2012	ND	1.96	97.9	2.00	10.9	
Toluene*	<0.050	0.050	10/10/2012	ND	1.81	90.3	2.00	10.7	
Ethylbenzene*	<0.050	0.050	10/10/2012	ND	1.83	91.3	2.00	10.2	
Total Xylenes*	<0.150	0.150	10/10/2012	ND	5.47	91.2	6.00	11.1	
Surrogate: 4-Bromofluorobenzene (PIE	104	% 89.4-12	6						<u> </u>
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	10/09/2012	ND	400	100	400	3.92	
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	10/08/2012	ND	194	96.9	200	3.67	
DRO >C10-C28	<10.0	10.0	10/08/2012	ND	198	98.9	200	4.31	
Surrogate: 1-Chlorooctane	69.7	% 65.2-14	0			_			***
Surrogate: 1-Chlorooctadecane	70.1	% 63.6-15	4						

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Fax To: (575) 397-1471

Received:

10/05/2012

Sampling Date:

10/04/2012

Reported:

10/11/2012

Sampling Type:

Soil

Project Name:

WEST A #28

Sampling Condition:

Cool & Intact

Project Number:

EVENT # NU12156TG

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #5 @ 7' (H202428-08)

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	10/10/2012	ND	1.96	97.9	2.00	10.9	
Toluene*	<0.050	0.050	10/10/2012	ND	1.81	90.3	2.00	10.7	
Ethylbenzene*	<0.050	0.050	10/10/2012	ND	1.83	91.3	2.00	10.2	
Total Xylenes*	<0.150	0.150	10/10/2012	ND	5.47	91.2	6.00	11.1	
Surrogate: 4-Bromofluorobenzene (PIL	102	% 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	3720	16.0	10/09/2012	ND	400	100	400	3.92	
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	10/08/2012	ND	194	96.9	200	. 3.67	
DRO >C10-C28	<10.0	10.0	10/08/2012	ND	198	98.9	200	4.31	
Surrogate: 1-Chlorooctane	80.5	% 65.2-14	0				, .	=	
Surrogate: 1-Chlorooctadecane	83.5	% 63.6-15	4						

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Sampling Date:

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Reported:

10/11/2012

Sampling Type:

Project Name:

WEST A #28

Sampling Condition:

Soil Cool & Intact

Project Number:

EVENT # NU12156TG

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #5 @ 8' (H202428-09)

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	10/10/2012	ND	1.96	97.9	2.00	10.9	
Toluene*	<0.050	0.050	10/10/2012	ND	1.81	90.3	2.00	10.7	
Ethylbenzene*	<0.050	0.050	10/10/2012	ND	1.83	91.3	2.00	10.2	
Total Xylenes*	<0.150	0.150	10/10/2012	ND	5.47	91.2	6.00	11.1	
Surrogate: 4-Bromofluorobenzene (PIL	105	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	10/09/2012	ND	400	100	400	3.92	
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	10/08/2012	ND	194	96.9	200	3.67	
DRO >C10-C28	<10.0	10.0	10/08/2012	ND	198	98.9	200	4.31	
Surrogate: 1-Chlorooctane	89.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	94.6	% 63.6-15	4						

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Sampling Date:

10/04/2012

Reported:

10/11/2012

Sampling Type:

Soil

Project Name:

WEST A #28

Sampling Condition:

Cool & Intact

Project Number:

EVENT # NU12156TG

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #5 @ 9' (H202428-10)

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	10/10/2012	ND	1.96	97.9	2.00	10.9	
Toluene*	<0.050	0.050	10/10/2012	ND	1.81	90.3	2.00	10.7	
Ethylbenzene*	<0.050	0.050	10/10/2012	ND	1.83	91.3	2.00	10.2	
Total Xylenes*	<0.150	0.150	10/10/2012	ND	5.47	91.2	6.00	11,1	
Surrogate: 4-Bromofluorobenzene (PIL	102	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8160	16.0	10/09/2012	ŊD	400	100	400	3.92	
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	10/09/2012	ND	194	96.9	200	3.67	
DRO >C10-C28	878	10.0	10/09/2012	ND	198	98.9	200	4.31	
Surrogate: 1-Chlorooctane	83.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	116	% 63.6-15	4						

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Received: Reported: 10/05/2012

10/11/2012

Project Name:

WEST A #28

Project Number: Project Location:

EVENT # NU12156TG NOT GIVEN Sampling Date:

10/04/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: VERTICAL #5 @ 10' (H202428-11)

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	10/11/2012	ND	1.96	97.9	2.00	10.9	
Toluene*	<0.050	0.050	10/11/2012	ND	1.81	90.3	2.00	10.7	
Ethylbenzene*	<0.050	0.050	10/11/2012	ND	1.83	91.3	2.00	10.2	
Total Xylenes*	<0.150	0.150	10/11/2012	ND	5.47	91.2	6.00	11.1	
Surrogate: 4-Bromofluorobenzene (PIL	103	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	10/09/2012	ND	400	100	400	3.92	
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	10/09/2012	ND	183	91.6	200	1.21	
DRO >C10-C28	26.0	10.0	10/09/2012	ND	179	89.5	200	1.93	
Surrogate: 1-Chlorooctane	83.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	92.9	% 63.6-15	4						

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Received:

10/05/2012

Sampling Date:

10/04/2012

Reported:

10/11/2012

Sampling Type:

Soil

Project Name:

WEST A #28

Sampling Condition:

Cool & Intact

Project Number:

EVENT # NU12156TG

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #5 @ 11' (H202428-12)

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	10/11/2012	ND	1.96	97.9	2.00	10.9	
Toluene*	<0.050	0.050	10/11/2012	ND	1.81	90.3	2.00	10.7	
Ethylbenzene*	<0.050	0.050	10/11/2012	ND	1.83	91.3	2.00	10.2	
Total Xylenes*	<0.150	0.150	10/11/2012	ND	5.47	91.2	6.00	11.1	
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 89.4-120	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP		18		<u> </u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	10/09/2012	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg ´	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	B\$	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/09/2012	ND	183	91.6	200	1.21	
DRO >C10-C28	<10.0	10.0	10/09/2012	ND	179	89.5	200	1.93	
Surrogate: 1-Chlorooctane	83.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	84.8	% 63.6-15-	4						

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Fax To:

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Received:

10/05/2012

Sampling Date:

10/04/2012

Reported:

10/11/2012

Sampling Type:

Soil

Project Name:

WEST A #28

Sampling Condition:

Cool & Intact

Project Number:

EVENT # NU12156TG

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: VERTICAL #5 @ 12' (H202428-13)

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	10/11/2012	ND	1.96	97.9	2.00	10.9	
Toluene*	<0.050	0.050	10/11/2012	ND	1.81	90.3	2.00	10.7	
Ethylbenzene*	<0.050	0.050	10/11/2012	ND	1.83	91.3	2.00	10.2	
Total Xylenes*	<0.150	0.150	10/11/2012	ND	5.47	91.2	6.00	11.1	
Surrogate: 4-Bromofluorobenzene (PIL	103	% 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	240	16.0	10/09/2012	ND	400	100	400	3.92	
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	10/09/2012	ND	183	91.6	200	1.21	
DRO >C10-C28	<10.0	10.0	10/09/2012	ND	179	89.5	200	1.93	
Surrogate: 1-Chlorooctane	79.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	81.7	% 63.6-15	4						

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Sampling Date:

10/04/2012

Reported:

Sampling Type:

Soil

Project Name:

10/11/2012 WEST A #28

Sampling Condition:

Cool & Intact

Project Number:

EVENT # NU12156TG

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: VERTICAL #5 @ 13' (H202428-14)

BTEX 8021B	mg,	/kg	Analyze	d By: AP			<u>. </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/11/2012	ND	1.96	97.9	2.00	10.9	
Toluene*	<0.050	0.050	10/11/2012	ND	1.81	90.3	2.00	10.7	
Ethylbenzene*	<0.050	0.050	10/11/2012	ND	1.83	91.3	2.00	10.2	
Total Xylenes*	<0.150	0.150	10/11/2012	ND	5.47	91.2	6.00	11.1	
Surrogate: 4-Bromofluorobenzene (PIL	104	% 89.4-12	6						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	880	16.0	10/09/2012	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	10/09/2012	ND	183	91.6	200	1.21	
DRO >C10-C28	<10.0	10.0	10/09/2012	ND	179	89.5	200	1.93	
Surrogate: 1-Chlorooctane	77.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	78.3	% 63.6-15	4						

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Fax To:

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Received:

10/05/2012

Sampling Date:

10/04/2012

Reported:

Sampling Type:

Soil

10/11/2012 WEST A #28

Sampling Condition:

Cool & Intact

Project Name: Project Number:

EVENT # NU12156TG

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: VERTICAL #5 @ 14' (H202428-15)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/11/2012	ND	1.96	97.9	2.00	10.9	
Toluene*	<0.050	0.050	10/11/2012	ND	1.81	90.3	2.00	10.7	
Ethylbenzene*	<0.050	0.050	10/11/2012	ND	1.83	91.3	2.00	10.2	
Total Xylenes*	<0.150	0.150	10/11/2012	ND	5.47	91.2	6.00	11.1	
Surrogate: 4-Bromofluorobenzene (PIL	103 %	% 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	<16.0	16.0	10/09/2012	ND	400	100	400	3.92	
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	10/09/2012	ND	183	91.6	200	1.21	
DRO >C10-C28	<10.0	10.0	10/09/2012	ND	179	89.5	200	1.93	
Surrogate: 1-Chlorooctane	76.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	74.8 5	63.6-15	4						

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Received:

10/05/2012

Sampling Date:

10/04/2012

Reported:

Sampling Type:

Soil

10/11/2012 WEST A #28

Sampling Condition:

Cool & Intact

Project Name: Project Number:

EVENT # NU12156TG

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #5 @ 14'6" (H202428-16)

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	10/11/2012	ND	1.96	97.9	2.00	10.9	
Toluene*	<0.050	0.050	10/11/2012	ND	1.81	90.3	2.00	10.7	
Ethylbenzene*	<0.050	0.050	10/11/2012	ND	1.83	91.3	2.00	10.2	
Total Xylenes*	<0.150	0.150	10/11/2012	ND	5.47	91.2	6.00	11.1	
Surrogate: 4-Bromofluorobenzene (PIL	104 %	% 89.4-12 ₀	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/09/2012	ND	400	100	400	3.92	
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	10/10/2012	ND	183	91.6	200	1.21	
DRO >C10-C28	<10.0	10.0	10/10/2012	ND	179	89.5	200	1.93	
Surrogate: 1-Chlorooctane	85.2 5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	83.8 9	% 63.6-15-	4						

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Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1072

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name		·············		<u> </u>	<u> </u>					BI	LL TO	ANALYSIS REQUEST												
Project Manage	"Bruce Baker						- Capaciffication	_). #:															
Address:			· · · · · · · · · · · · · · · · · · ·					Co	mpan	y:							S							
City:		State: NM	Zip:	882	40			Att	n:						İ	ŀ	6					ı		
Phone #:	<u> </u>	ax #:						Address:]		1 5						1			
Project #:	Р	roject Owner		·*···				City:			100	Σ		工	//s					1	1			
Project Name: LINDENTY WEST # 4038 Project Location: EVENT # NU 1015676 Sampler Name: Daksten Harris				State: Zip: Phone #:				ě	5	BTEX	exas TPH	Cations/Anions	SC			1		1						
								Chlorides	ĺģ			at:						1						
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Lab I.D.	Sample I.D.		9 (G)RAB OR (C)OMP.	# CONTAINERS	WASTEWATER	MATI	OIL.		ACID/BASE: A	T	SAMPL DATE	TIME	O	TPH 8015 M		Te	Complete							
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3	Vertica #582'		6	1		1			1	1	10-4-12	11:16	1	سد	1									
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5	Vertical#5e4'		6	4		1			V		10-4-12	11:42	1/	in	1									
U	Vertical #505'		6	1		V			1		10-4-12-	12:03	1	300	2/			,						
	Ventual#566		6	1		1/			1	1	10-4-12	1237	1/	1	1									
\\dots	Vertical#5e7'		6	1		V	\perp		1		10-4-12	1:00	V	1	1									
5	Vertical#588'		5	1					1		18-4-18-	1:13	V	1	1									***************************************
[O]	Vertical#509°		G	1		PI			12		10-4-12	1357	3	1	1]
enalyses. All claims include service. In no event shall C	nd Damages. Cardinal's liability and client's in ng those for negligence and any other cause ardinal be liable for incidental or consequent ing out of or related to the performance of se	e whatsoever shall be de tal damages, including t	emed v	waived Emitatio	uniess n n, busin	nade in v ess inten	witing an ruptions,	d receiv loss af	red by Ce use, or k	erdinal v ass of pr	vithin 30 days alt rollts incurred by	es completion of t client, its subsidia	he applica vies	ble										
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Delivered By: (Circle One) Sample Cond Cool Intact Sampler - UPS - Bus - Other:					ondit tact	ion s		Zconder@rice-ecs.com; Bbaker@rice-ecs.com hconder@rice-ecs.com; Lweinheimer@rice-ecs					-	m										

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name	: RECS			<u> </u>	-, -,					_	LLITO		illion)					ANAI	YSIS	RE	QUES	ST.			·
Project Manage	Bruce Baker	~			····	·		_). #:																
Address:								Cor	mpar	ıy:								S							
City:		State: NM	Zip	: 88	240			Att	n:									G						,	
Phone #:		Fax #:						Add	dress	: :								Ē							
Project #:		Project Owner	·:					City	<i> </i> :						Σ		I	s//							
Project Name: ∠	INN H.E. WESTA	9#028						Sta	te:		Zip:			Chlorides	5	×	Texas TPH	ü							
Project Location	DAKSfor 140	156TG						Pho	one.#	:				ric	8015	BTEX	S	ati	SC						
Sampler Name:	Dakston He	irnis						Fax	#:					임	8	B1	x	Ü	TD						
FOR LAB USE ONLY .				П		MATR	ìΧ		PRES	ERV	SAMP	ING		$\overline{\mathcal{O}}$	TPH		e.	te			1				
			(C)OMP	S	E E										—			Complete Cations/Anions							
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service. In no event shall Co	ng those for negligence and any other ca ardinal be liable for incidental or consequ	iental damages, including	without	timitat	ion, busing	ess intem	iptions, la	oss of	use, or i	oss of p	rafits incurred b	ctient, its sc	de diam'r	25	le			•	٠.٠٠						
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



Laboratory Results for Bottom Samples at Vertical #6 - #7



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

(575) 397-1471 Fax To:

Received:

10/09/2012

Sampling Date:

10/08/2012

Reported:

Sampling Type:

Soil

10/15/2012

Sampling Condition:

Cool & Intact

Project Name: Project Number: H. E. WEST A #028 EVENT #NU12156T0

Project Location:

NONE GIVEN NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: VERTICAL #7 @ SURFACE (H202455-01)

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*	<0.050	0.050	10/12/2012	ND	2.00	99.8	2.00	3.23	
Toluene*	0.054	0.050	10/12/2012	ND	1.80	90.1	2.00	2.98	
Ethylbenzene*	0.628	0.050	10/12/2012	ND	1.78	89.1	2.00	2.95	
Total Xylenes*	1.48	0.150	10/12/2012	ND	5.20	86.6	6.00	3.11	
Surrogate: 4-Bromofluorobenzene (PIL	201	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	10/11/2012	ND	400	100	400	3.92	
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	150	100	10/10/2012	ND	164	82.2	200	6.41	
DRO >C10-C28	9400	100	10/10/2012	ND	158	79.0	200	11.3	
Surrogate: 1-Chlorooctane	125 % 65.2-140		0						
Surrogate: 1-Chlorooctadecane	191	% 63.6-15	4						

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BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

10/09/2012

Sampling Date:

10/08/2012

Reported:

Sampling Type:

Soil

10/15/2012

Sampling Condition:

Cool & Intact

Project Name: Project Number: H. E. WEST A #028 EVENT #NU12156TC NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #7 @ 1' (H202455-02)

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*	<0.050	0.050	10/12/2012	ND	2.00	99.8	2.00	3.23	
Toluene*	0.180	0.050	10/12/2012	ND	1.80	90.1	2.00	2.98	
Ethylbenzene*	1.31	0.050	10/12/2012	ND	1.78	89.1	2.00	2.95	
Total Xylenes*	2.31	0.150	10/12/2012	ND	5.20	86.6	6.00	3.11	
Surrogate: 4-Bromofluorobenzene (PIL	146	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	10/11/2012	ND	400	100	400	3.92	
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	731	100	10/10/2012	ND	164	82.2	200	6.41	
DRO >C10-C28	5850	100	10/10/2012	ND	158	79.0	200	11.3	
Surrogate: 1-Chlorooctane	189	% 65.2-14	0						-
Surrogate: I-Chlorooctadecane	167	% 63.6-15	4						

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112 W. TAYLOR HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

10/09/2012

Sampling Date:

10/08/2012

Reported:

10/15/2012

Sampling Type:

Soil

Project Name:

H. E. WEST A #028 EVENT #NU12156TG

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #7 @ 2' (H202455-03)

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	10/12/2012	ND	2.00	99.8	2.00	3.23	
Toluene*	<0.050	0.050	10/12/2012	ND	1.80	90.1	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/12/2012	ND	1.78	89.1	2.00	2.95	
Total Xylenes*	<0.150	0.150	10/12/2012	ND	5.20	86.6	6.00	3.11	
Surrogate: 4-Bromofluorobenzene (PIL	100	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1650	16.0	10/11/2012	ND	400	100	400	3.92	
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	10/10/2012	ND	164	82.2	200	6.41	
DRO >C10-C28	<10.0	10.0	10/10/2012	ND	158	79.0	200	11.3	
Surrogate: 1-Chlorooctane	91.9	% 65.2-14	10	, , , , , , , , , , , , , , , , , , , ,	····				
Surrogate: 1-Chlorooctadecane	94.9	% 63.6-15	4						

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RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

10/09/2012

Sampling Date:

10/08/2012

Reported:

10/15/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Project Name: Project Number: H. E. WEST A #028 EVENT #NU12156TG

Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

NOT GIVEN

Sample ID: VERTICAL #7 @ 3' (H202455-04)

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	10/12/2012	ND	2.00	99.8	2.00	3.23	
Toluene*	<0.050	0.050	10/12/2012	ND	1.80	90,1	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/12/2012	ND	1.78	89,1	2.00	2.95	
Total Xylenes*	<0.150	0.150	10/12/2012	ND	5.20	86.6	6.00	3.11	
Surrogate: 4-Bromofluorobenzene (PIL	99.9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	416	16.0	10/11/2012	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	10/10/2012	ND	164	82.2	200	6.41	
DRO >C10-C28	<10.0	10.0	10/10/2012	ND	158	79.0	200	11.3	
Surrogate: 1-Chlorooctane	92.5	% 65.2-14	0						<u> </u>
Surrogate: 1-Chlorooctadecane	95.5	% 63.6-15	4						

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Fax To: (575) 397-1471

Received:

10/09/2012

Sampling Date:

10/08/2012

Reported:

10/15/2012

Sampling Type:

Soil

Project Name:

H. E. WEST A #028 EVENT #NU12156TG

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #7 @ 4' (H202455-05)

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	10/12/2012	ND	2.00	99.8	2.00	3.23	
Toluene*	<0.050	0.050	10/12/2012	ND	1.80	90.1	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/12/2012	ND	1.78	89.1	2.00	2.95	
Total Xylenes*	<0.150	0.150	10/12/2012	ND	5.20	86.6	6.00	3.11	
Surrogate: 4-Bromofluorobenzene (PIL	97.0	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	10/11/2012	ND	400	100	400	3.92	
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	10/10/2012	ND	164	82.2	200	6.41	
DRO >C10-C28	<10.0	10.0	10/10/2012	ND	158	79.0	200	11.3	
Surrogate: 1-Chlorooctane	98.9	% 65.2-14	10						
Surrogate: I-Chlorooctadecane	100	% 63.6-15	4						

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Celey D. Keene



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Fax To: (575) 397-1471

Received:

10/09/2012

Sampling Date:

10/08/2012

Reported:

10/15/2012

Sampling Type:

Soil

Project Name:

10/15/2012 H. E. WEST A #028 EVENT #NU12156TC

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #7 @ 5' (H202455-06)

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	10/12/2012	ND	2.00	99.8	2.00	3.23	
Toluene*	< 0.050	0.050	10/12/2012	ND	1.80	90.1	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/12/2012	ND	1.78	89.1	2.00	2.95	
Total Xylenes*	<0.150	0.150	10/12/2012	ND	5.20	86.6	6.00	3.11	
Surrogate: 4-Bromofluorobenzene (PIL	99.3 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM			·· ·· = ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	10/11/2012	ND	400	100	400	3.92	
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	10/10/2012	ND	164	82.2	200	6.41	
DRO >C10-C28	<10.0	10.0	10/10/2012	ND	158	79.0	200	11.3	
Surrogate: 1-Chlorooctane	101 %	6 65.2-14	0						
Surrogate: 1-Chlorooctadecane	101 2	63.6-15	4						

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Fax To:

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Analyzed By: AD

Received:

10/09/2012

Sampling Date:

10/08/2012

Reported:

Sampling Type:

Soil

DTEV 00310

10/15/2012

Sampling Condition:

Cool & Intact

Project Name:

H. E. WEST A #028 EVENT #NU12156TG NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: VERTICAL #7 @ 6' (H202455-07)

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	10/12/2012	ND	2.00	99.8	2.00	3.23	
Toluene*	<0.050	0.050	10/12/2012	ND	1.80	90.1	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/12/2012	ND	1.78	89.1	2.00	2.95	
Total Xylenes*	<0.150	0.150	10/12/2012	ND	5.20	86.6	6.00	3.11	
Surrogate: 4-Bromofluorobenzene (PIL	96.9	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	10/11/2012	ND	400	100	400	3.92	
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	10/10/2012	ND	164	82.2	200	6.41	
DRO >C10-C28	<10.0	10.0	10/10/2012	ND	158	79.0	200	11.3	
Surrogate: 1-Chlorooctane	101	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	106	% 63.6-15	4						

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Fax To: (575) 397-1471

Received:

10/09/2012

Sampling Date:

10/08/2012

Reported:

Sampling Type:

Soil

10/15/2012

Sampling Condition:

Cool & Intact

Project Name:

H. E. WEST A #028 EVENT #NU12156TG

Sample Received By:

Project Number:

NONE GIVEN

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #7 @ 7' (H202455-08)

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	10/12/2012	ND	2.00	99.8	2.00	3.23	
Toluene*	<0.050	0.050	10/12/2012	ND	1.80	90.1	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/12/2012	ND	1.78	89.1	2.00	2.95	
Total Xylenes*	<0.150	0.150	10/12/2012	ND	5.20	86.6	6.00	3.11	
Surrogate: 4-Bromofluorobenzene (PIC	97.9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	10/11/2012	ND	400	100	400	3.92	
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	10/11/2012	ND	188	94.1	200	12.6	
DRO >C10-C28	<10.0	10.0	10/11/2012	ND	185	92.5	200	14.1	
Surrogate: 1-Chlorooctane	72.4	% 65.2-14	0					. /	
Surrogate: 1-Chlorooctadecane	73.0	% 63.6-15	4						

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Received:

10/09/2012

Sampling Date:

10/08/2012

Reported:

10/15/2012

Sampling Type:

Soil

Project Name:

H. E. WEST A #028 EVENT #NU12156TG

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #7 @ 8' (H202455-09)

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	10/12/2012	ND	2.00	99.8	2.00	3.23	
Toluene*	<0.050	0.050	10/12/2012	ND	1.80	90.1	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/12/2012	ND	1.78	89.1	2.00	2.95	
Total Xylenes*	<0.150	0.150	10/12/2012	ND	5.20	86.6	6.00	3.11	
Surrogate: 4-Bromofluorobenzene (PIL	102 5	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/11/2012	ND	400	100	400	3.92	
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	10/11/2012	ND	188	94.1	200	12.6	
DRO >C10-C28	<10.0	10.0	10/11/2012	ND	185	92.5	200	14.1	
Surrogate: 1-Chlorooctane	80.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	80.0	% 63.6-15	4						

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HOBBS NM, 88240

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(575) 397-1471

Received:

10/09/2012

Sampling Date:

10/08/2012

Reported:

10/15/2012

Sampling Type:

Soil

Project Name:

H. E. WEST A #028 EVENT #NU12156TG

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #7 @ 9' (H202455-10)

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	10/12/2012	ND	2.19	109	2.00	7.10	
Toluene*	<0.050	0.050	10/12/2012	ND	2.00	99.8	2.00	5.51	
Ethylbenzene*	<0.050	0.050	10/12/2012	ND	1.96	98.0	2.00	4.81	
Total Xylenes*	<0.150	0.150	10/12/2012	ND	5.75	95.8	6.00	4.84	
Surrogate: 4-Bromofluorobenzene (PIC	97.6	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/11/2012	ND	400	100	400	3.92	
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	10/11/2012	ND	188	94.1	200	12.6	
DRO >C10-C28	<10.0	10.0	10/11/2012	ND	185	92.5	200	14.1	
Surrogate: 1-Chlorooctane	80.1	% 65.2-14	0			• •			
Surrogate: 1-Chlorooctadecane	79.9	% 63.6-15	4						

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Received:

10/09/2012

Sampling Date:

10/05/2012

Reported:

10/15/2012

Sampling Type:

Soil

Project Name:

H. E. WEST A #028 EVENT #NU12156TC

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #6 @ SURFACE (H202455-11)

BTEX 8021B	mg,	/kg	Analyze	d By: AP				EII 1	S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2012	ND	2.19	109	2.00	7.10	
Toluene*	<0.050	0.050	10/12/2012	ND	2.00	99.8	2.00	5.51	
Ethylbenzene*	0.066	0.050	10/12/2012	ND	1.96	98.0	2.00	4.81	
Total Xylenes*	0.224	0.150	10/12/2012	ND	5.75	95.8	6.00	4.84	
Surrogate: 4-Bromofluorobenzene (PIL	135	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM			*****		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	10/11/2012	ND	400	100	400	3.92	
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	<50.0	50.0	10/11/2012	ND	188	94.1	200	12.6	
DRO >C10-C28	3340	50.0	10/11/2012	ND	185	92,5	200	14.1	
Surrogate: 1-Chlorooctane	110	% 65.2-14	10				······································		<u></u>
Surrogate: 1-Chlorooctadecane	154	% 63.6-15	4						

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(575) 397-1471 Fax To:

Received:

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Sampling Date:

10/05/2012

Reported:

10/15/2012

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

Project Number:

H. E. WEST A #028 EVENT #NU12156TG NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: VERTICAL #6 @ 1' (H202455-12)

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	10/12/2012	ND	2.19	109	2.00	7.10	
Toluene*	<0.050	0.050	10/12/2012	ND	2.00	99.8	2.00	5.51	
Ethylbenzene*	0.085	0.050	10/12/2012	ND	1.96	98.0	2.00	4.81	
Total Xylenes*	0.201	0.150	10/12/2012	ND	5.75	95.8	6.00	4.84	
Surrogate: 4-Bromofluorobenzene (PIL	124	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	10/11/2012	ND	400	100	400	3.92	
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	<50.0	50.0	10/11/2012	ND	188	94.1	200	12.6	
DRO >C10-C28	932	50.0	10/11/2012	ND	185	92.5	200	14.1	
Surrogate: 1-Chlorooctane	93.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	106 5	% 63.6-15	4						

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Received:

10/09/2012

Sampling Date:

10/05/2012

Reported:

Sampling Type:

Soil

10/15/2012

Sampling Condition:

Cool & Intact

Project Name: Project Number: H. E. WEST A #028 EVENT #NU12156TG NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #6 @ 2' (H202455-13)

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	10/12/2012	ND	2.19	109	2.00	7.10	
Toluene*	<0.050	0.050	10/12/2012	ND	2.00	99.8	2.00	5.51	
Ethylbenzene*	<0.050	0.050	10/12/2012	ND	1.96	98.0	2.00	4.81	
Total Xylenes*	<0.150	0.150	10/12/2012	ND	5.75	95.8	6.00	4.84	
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	10/11/2012	ND	400	100	400	3.92	
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	10/11/2012	ND	188	94.1	200	12.6	
DRO >C10-C28	<10.0	10.0	10/11/2012	ND	185	92.5	200	14.1	
Surrogate: 1-Chlorooctane	111 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	117 9	% 63.6-15	4						

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Fax To: (575) 397-1471

Received:

10/09/2012

Sampling Date:

10/05/2012

Reported:

Sampling Type:

Soil

10/15/2012

Sampling Condition:

Cool & Intact

Project Name: Project Number: H. E. WEST A #028 EVENT #NU12156TG NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #6 @ 3' (H202455-14)

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	10/12/2012	ND	2.19	109	2.00	7.10	
Toluene*	<0.050	0.050	10/12/2012	ND	2.00	99.8	2.00	5.51	
Ethylbenzene*	<0.050	0.050	10/12/2012	ND	1.96	98.0	2.00	4.81	
Total Xylenes*	<0.150	0.150	10/12/2012	ND	5.75	95.8	6.00	4.84	
Surrogate: 4-Bromofluorobenzene (PIC	99.8	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1780	16.0	10/11/2012	ND	400	100	400	3.92	
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	10/11/2012	ND	188	94.1	200	12.6	
DRO >C10-C28	<10.0	10.0	10/11/2012	ND	185	92.5	200	14.1	
Surrogate: 1-Chlorooctane	109 5	% 65.2-14	0						-
Surrogate: 1-Chlorooctadecane	114 9	% 63.6-15	4						

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(575) 397-1471 Fax To:

Received:

10/09/2012

Sampling Date:

10/05/2012

Reported:

10/15/2012

Sampling Type:

Soil

Project Name:

H. E. WEST A #028 EVENT #NU12156TG

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: VERTICAL #6 @ 4' (H202455-15)

BTEX 8021B	mg,	/kg	Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2012	ND	2.19	109	2.00	7.10	
Toluene*	<0.050	0.050	10/12/2012	ND	2.00	99.8	2.00	5.51	
Ethylbenzene*	<0.050	0.050	10/12/2012	ND	1.96	98.0	2.00	4.81	
Total Xylenes*	<0.150	0.150	10/12/2012	ND	5.75	95.8	6.00	4.84	
Surrogate: 4-Bromofluorobenzene (PIL	98.3	% 89.4-12	6					-	
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	10/11/2012	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Anaiyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/11/2012	ND	188	94.1	200	12.6	
DRO >C10-C28	<10.0	10.0	10/11/2012	ND	185	92.5	200	14.1	
Surrogate: 1-Chlorooctane	106	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	107	% 63.6-15	4						

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Received:

10/09/2012

Sampling Date:

10/05/2012

Reported:

Sampling Type:

Soil

Project Name:

10/15/2012

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

H. E. WEST A #028 EVENT #NU12156TG

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #6 @ 5' (H202455-16)

BTEX 8021B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2012	ND	2.19	109	2.00	7.10	
Toluene*	<0.050	0.050	10/12/2012	ND	2.00	99.8	2.00	5.51	
Ethylbenzene*	<0.050	0.050	10/12/2012	ND	1.96	98.0	2.00	4.81	
Total Xylenes*	<0.150	0.150	10/12/2012	ND	5.75	95.8	6.00	4.84	
Surrogate: 4-Bromofluorobenzene (PIL	98.7	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	10/11/2012	ND	400	100	400	3.92	
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	10/11/2012	ND	188	94.1	200	12.6	
DRO >C10-C28	<10.0	10.0	10/11/2012	ND	185	92.5	200	14.1	
Surrogate: 1-Chlorooctane	99.6	% 65.2-14	0		0.2				
Surrogate: 1-Chlorooctadecane	102	% 63.6-15	4						

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Received:

10/09/2012

Sampling Date:

10/05/2012

Reported:

10/15/2012

Sampling Type:

Soil

Project Name:

DTEV OCCID

H. E. WEST A #028 EVENT #NU12156T6

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: VERTICAL #6 @ 6' (H202455-17)

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	10/12/2012	ND	2.19	109	2.00	7.10	
Toluene*	<0.050	0.050	10/12/2012	ND	2.00	99.8	2.00	5.51	
Ethylbenzene*	<0.050	0.050	10/12/2012	ND	1.96	98.0	2.00	4.81	
Total Xylenes*	<0.150	0.150	10/12/2012	ND	5.75	95.8	6.00	4.84	
Surrogate: 4-Bromofluorobenzene (PIE	93.8	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	10/11/2012	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS			<u> </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/11/2012	ND	188	94.1	200	12.6	
DRO >C10-C28	<10.0	10.0	10/11/2012	ND	185	92.5	200	14.1	
Surrogate: 1-Chlorooctane	103	% 65.2-14	0	•					
Surrogate: 1-Chlorooctadecane	115	% 63.6-15	4						

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Sampling Date:

10/05/2012

Reported:

Sampling Type:

Soil

10/15/2012

Sampling Condition:

Cool & Intact

Project Name: Project Number:

NONE GIVEN

H. E. WEST A #028 EVENT #NU12156TG

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: VERTICAL #6 @ 7' (H202455-18)

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	10/12/2012	ND	2.19	109	2.00	7.10	
Toluene*	<0.050	0.050	10/12/2012	ND	2.00	99.8	2.00	5.51	
Ethylbenzene*	< 0.050	0.050	10/12/2012	ND	1.96	98.0	2.00	4.81	
Total Xylenes*	<0.150	0.150	10/12/2012	ND	5.75	95.8	6.00	4.84	
Surrogate: 4-Bromofluorobenzene (PIL	96.7	% 89.4-12	6	-					
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	10/11/2012	ND	400	100	400	3.92	
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	10/11/2012	ND	188	94.1	200	12.6	
DRO >C10-C28	<10.0	10.0	10/11/2012	ND	185	92.5	200	14.1	
Surrogate: 1-Chlorooctane	84.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	90.1	% 63.6-15	4						

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Sampling Date:

10/05/2012

Reported:

10/15/2012

Sampling Type:

Soil

Project Name:

H. E. WEST A #028 EVENT #NU12156TC

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #6 @ 8' (H202455-19)

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	10/12/2012	ND	2.19	109	2.00	7.10	
Toluene*	<0.050	0.050	10/12/2012	ND	2.00	99.8	2.00	5.51	
Ethylbenzene*	<0.050	0.050	10/12/2012	ND	1.96	98.0	2.00	4.81	
Total Xylenes*	<0.150	0.150	10/12/2012	ND	5.75	95.8	6.00	4.84	
Surrogate: 4-Bromofluorobenzene (PIC	94.4	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	10/11/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS			<u> </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/11/2012	ND	188	94.1	200	12.6	
DRO >C10-C28	<10.0	10.0	10/11/2012	ND	185	92.5	200	14.1	
Surrogate: 1-Chlorooctane	80.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	78.6	% 63.6-15	4						

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Received:

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Sampling Date:

10/05/2012

Reported:

10/15/2012

Sampling Type:

Soil

Project Name:

H. E. WEST A #028 EVENT #NU12156TG

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Project Location:

NOT GIVEN

Jodi Henson

Sample ID: VERTICAL #6 @ 9' (H202455-20)

BTEX 8021B	mg/	kg ·	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2012	ND	2.19	109	2.00	7.10	
Toluene*	<0.050	0.050	10/12/2012	ND	2.00	99.8	2.00	5.51	
Ethylbenzene*	<0.050	0.050	10/12/2012	ND	1.96	98.0	2.00	4.81	
Total Xylenes*	<0.150	0.150	10/12/2012	ND	5.75	95.8	6.00	4.84	
Surrogate: 4-Bromofluorobenzene (PIL	96.0	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	10/11/2012	ND	416	104	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	10/11/2012	ND	188	94.1	200	12.6	
DRO >C10-C28	<10.0	10.0	10/11/2012	ND	185	92.5	200	14.1	
Surrogate: 1-Chlorooctane	92.5	% 65.2-14	0					-	
Surrogate: 1-Chlorooctadecane	98.3	% 63.6-15	4						

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Received:

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Sampling Date:

10/05/2012

Reported:

10/15/2012

Sampling Type:

Soil

Project Name:

H. E. WEST A #028 EVENT #NU12156TG

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: VERTICAL #6 @ 10' (H202455-21)

BTEX 8021B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2012	ND	2.19	109	2.00	7.10	
Toluene*	<0.050	0.050	10/12/2012	ND	2.00	99.8	2.00	5.51	
Ethylbenzene*	<0.050	0.050	10/12/2012	ND	1.96	98.0	2.00	4.81	
Total Xylenes*	<0.150	0.150	10/12/2012	ND	5.75	95.8	6.00	4.84	
Surrogate: 4-Bromofluorobenzene (PIC	98.0	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM	,				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	10/11/2012	ND	416	104	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	10/11/2012	· ND	188	94.1	200	12.6	
DRO >C10-C28	<10.0	10.0	10/11/2012	ND	185	92.5	200	14.1	
Surrogate: 1-Chlorooctane	95.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	105	% 63.6-15	4						

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Sampling Date:

10/05/2012

Reported:

Sampling Type:

Soil

10/15/2012

Sampling Condition:

Cool & Intact

Project Name:

H. E. WEST A #028 EVENT #NU12156TG NONE GIVEN

Jodi Henson

Project Number:

Sample Received By:

Project Location:

NOT GIVEN

Sample ID: VERTICAL #6 @ 11' (H202455-22)

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	10/12/2012	ND	2.19	109	2.00	7.10	
Toluene*	<0.050	0.050	10/12/2012	ND	2.00	99.8	2.00	5.51	
Ethylbenzene*	<0.050	0.050	10/12/2012	ND	1.96	98.0	2.00	4.81	
Total Xylenes*	<0.150	0.150	10/12/2012	ND	5.75	95.8	6.00	4.84	
Surrogate: 4-Bromofluorobenzene (PIL	98.8	% 89.4-12	6						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	10/11/2012	ND	416	104	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	10/11/2012	ND	188	94.1	200	12.6	
DRO >C10-C28	<10.0	10.0	10/11/2012	ND	185	92.5	200	14.1	
Surrogate: 1-Chlorooctane	89.8	% 65.2-14	0	· · · · ·					
Surrogate: 1-Chlorooctadecane	90.6	% 63.6-15	4						

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Received:

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Sampling Date:

10/05/2012

Reported:

10/15/2012

Sampling Type:

Soil

Project Name:

H. E. WEST A #028 EVENT #NU12156TC

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Jodi Henson

Project Location:

Sample Received By:

NOT GIVEN

Sample ID: VERTICAL #6 @ 12' (H202455-23)

BTEX 8021B	mg/	'kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2012	ND	2.19	109	2.00	7.10	
Toluene*	<0.050	0.050	10/12/2012	ND	2.00	99.8	2.00	5.51	
Ethylbenzene*	<0.050	0.050	10/12/2012	ND	1.96	98.0	2.00	4.81	
Total Xylenes*	<0.150	0.150	10/12/2012	ND	5.75	95.8	6.00	4.84	
Surrogate: 4-Bromofluorobenzene (PIL	96.2	% 89.4-12	6						-
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	10/11/2012	ND	416	104	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	10/11/2012	ND	188	94.1	200	12.6	
DRO >C10-C28	<10.0	10.0	10/11/2012	ND	185	92.5	200	14.1	
Surrogate: 1-Chlorooctane	114 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	. 121 9	63.6-15	4						

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RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

(575) 397-1471 Fax To:

Received:

10/09/2012

Sampling Date:

10/05/2012

Reported:

Sampling Type:

Soil

10/15/2012

Sampling Condition:

Cool & Intact

Project Name: Project Number:

NONE GIVEN

H. E. WEST A #028 EVENT #NU12156TC

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #6 @ 13' (H202455-24)

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	10/12/2012	ND	2.19	109	2.00	7.10	
Toluene*	<0.050	0.050	10/12/2012	ND	2.00	99.8	2.00	5.51	
Ethylbenzene*	<0.050	0.050	10/12/2012	ND	1.96	98.0	2.00	4.81	
Total Xylenes*	<0.150	0.150	10/12/2012	ND	5.75	95.8	6.00	4.84	
Surrogate: 4-Bromofluorobenzene (PIE	97.9	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	10/11/2012	ND	416	104	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	10/11/2012	ND	188	94.1	200	12.6	
DRO >C10-C28	<10.0	10.0	10/11/2012	ND	185	92.5	200	14.1	
Surrogate: 1-Chlorooctane	101	% 65.2-14	0				., .		
Surrogate: 1-Chlorooctadecane	109	% 63.6-15	4						

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Fax To: (575) 397-1471

Received:

10/09/2012

Sampling Date:

10/05/2012

Reported:

Sampling Type:

Soil

10/15/2012

Sampling Condition:

Cool & Intact

Project Name:

H. E. WEST A #028 EVENT #NU12156TG

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: VERTICAL #6 @ 14' (H202455-25)

BTEX 8021B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2012	ND	2.19	109	2.00	7.10	
Toluene*	<0.050	0.050	10/13/2012	ND	2.00	99.8	2.00	5.51	
Ethylbenzene*	<0.050	0.050	10/13/2012	ND	1.96	98.0	2.00	4.81	
Total Xylenes*	<0.150	0.150	10/13/2012	ND	5.75	95.8	6.00	4.84	
Surrogate: 4-Bromofluorobenzene (PIL	98.4	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/11/2012	ND	416	104	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	10/11/2012	ND	188	94.1	200	12.6	
DRO >C10-C28	<10.0	10.0	10/11/2012	ND	185	92.5	200	14.1	
Surrogate: 1-Chlorooctane	120 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	126 9	63.6-15	4						

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Celego Keene



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Fax To: (575) 397-1471

Received:

10/09/2012

Sampling Date:

10/05/2012

Reported:

10/15/2012

Sampling Type:

Soil

Project Name:

H. E. WEST A #028 EVENT #NU12156TG

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: VERTICAL #6 @ 14'6" (H202455-26)

BTEX 8021B	mg,	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2012	ND	2.19	109	2.00	7.10	
Toluene*	<0.050	0.050	10/13/2012	ND	2.00	99.8	2.00	5.51	
Ethylbenzene*	<0.050	0.050	10/13/2012	ND	1.96	98.0	2.00	4.81	
Total Xylenes*	<0.150	0.150	10/13/2012	ND	5.75	95.8	6.00	4.84	
Surrogate: 4-Bromofluorobenzene (PIL	97.6	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/11/2012	ND	416	104	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	10/11/2012	ND	188	94.1	200	12.6	
DRO >C10-C28	<10.0	10.0	10/11/2012	ND	185	92.5	200	14.1	
Surrogate: 1-Chlorooctane	112 5	% 65.2-14	0	-		,			
Surrogate: 1-Chlorooctadecane	117	63.6-15	4						

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101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name: RECS										BILL TO ANALYSIS REQUEST																
Project Manage	r: Bryce Boker								P.(O. #.	:															
Address:		**************************************							Co	ompa	any	:							SI				.]	.	, j	1
City:		State: NM	Zip	: 88	240	<u>j</u>			At	tn:									ior					.	,]	
Phone #:	•	Fax #:							Αď	ddre	ss:								An			. 1	.	. 1	,)	
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FOR LAB USE ONLY MATRIX WO OW LEE A LEE						ix_		PRE	ESE	RV	SAMPLI	NG	C	TPH		<u> </u>	ete					. }	, 1			
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Relinquished By: Date: Received By:								er.	10	10	1	· .	email Zcon			2-60	e cor	n· R	hake	r@ri	icere	506 L	om.			
Delivered By: (Circle One) Sample Condition Cool Intact Sampler - UPS - Bus - Other: □ Yes □ Yes □ No □ No								, es		CHE	CK T	ED BY:	Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com													

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Page 29 of 31

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name: RECS										BILL TO ANALYSIS REQUEST															
Project Manager: APACC BOYCO). #:		_														
Address:								Cor	npa	ny:							•	2				.	1		
City:	State: NM	Zip	o: 88	240	0			Attn:										<u>o</u>				.	ŀ	1	
Phone #:	Fax #:							Address:										7				. 1	l	}	.
Project #:														<u>س</u> ا	I		エ	1/8				. 1		j	
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analyses. All claims includin service. In no event shall C attiliates or successors arisi	d Damages. Cardinal's lability and chent's exclusive remedy for in those for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequental damages, including up out of or related to the performance of services hereunder by:	deenu g witho Cardina	d walve ut fimita d, regar	d unk tion, b dess c	ether basi ess made ousiness i of whethe	ed in co in writi nterrup	ing and i dions, lo	eceiv es of	red by use, o	be limit Cardina r loss o	al wi	ithin 30 days afte ofite incurred by o	t by the client for r completion of the lient, its subsidia sons or otherwis	the re applical ries	ble		\	I		4.	<u></u>				
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mpler - UPS - Bus - Other:

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101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name: RECS								ilei ilea	fallich smalet	E	3//	LL TO	eri billi (2500) Tun mali san i	ANALYSIS REQUEST											
Project Manage	r. Brute Beter						7	2.0). #:																
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City:	State: NM	Zip	: 88	240			/	Attı	n:							i		<u>.</u>		i					
Phone #:	Fax #:							١de	dres	s:								Z.							
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FOR LAB USE ONLY					MA	TRIX	<u> </u>	_	PRE	SER	V.	SAMPL	ING	O	直		<u>e</u>	Ę							
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unalyses. All claims include service. In no event shall C	nd Dannajnes. Cerdinal's kobility and client's exclusive remetly for ing floors for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequential dannagos, including no out of or related to the performance of services hereunder by t	deeme g withou	d waive It limitu	d unles don, bu	se mada i Isiness in	n writir terrupt	ig and re ions, los	ecciv s of	red by (use, or	Cardin Jose (tal w	dithin 30 days afte officiacured by	er completion of t client, its subsidi	the applica arios	hle	<u> </u>				<u> </u>	<u>.</u>				
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□ No □ No										-4	1/		<u> </u>	<u> </u>											

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26

Appendix F Laboratory Results for Imported Soil



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To:

(575) 397-1471

Received: Reported: 09/18/2012

09/24/2012

9/24/2012

Project Name: Project Number: WEST A #28 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

09/17/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: IMPORTED SOIL (H202265-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/22/2012	ND	416	104	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	09/20/2012	ND	169	84.6	200	10.6	
DRO >C10-C28	10.4	10.0	09/20/2012	ND	172	86.1	200	10.6	
Surrogate: 1-Chlorooctane	83.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	84.7	% 63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Sampler Name: DAKSTON HARRIS								<u>_</u>	Fax			_			1 ≝	I	m	×	O	 			ĺ			
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