

Rice Environmental Consulting & Safety

P.O. Box 5630 Hobbs, NM 88241

Phone 575.393.4411 Fax 575.393.0293

October 16, 2012

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)

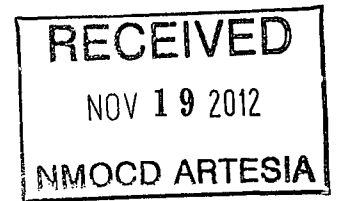
Linn Energy – H.E. West A #028 AD

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
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



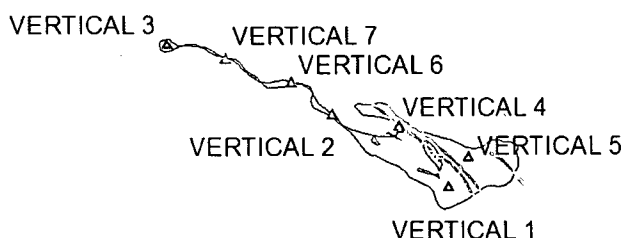
Figure

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

Site Plat

Vertical #5							
Sample Description	Lab Cl-	GRO	DRO	B	T	E	X
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	B	T	E	X
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	B	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

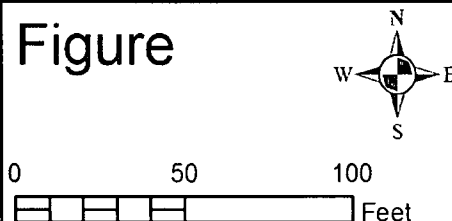
- ▲ SAMPLE POINTS
- ABOVE GROUND POLY
- AD AREA (679 sq ft)
- ▨ NON-AD AREA



LINN ENERGY
H.E. WEST A #28

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

Figure



GPS date: 10/9/12 DH
Drawing date: 10/16/12
Drafted by: A.C. Ruth

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

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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED

JUL 02 2012

Form C-141
Revised October 10, 2003

NMOC D ARTESIA
Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC

Release Notification and Corrective Action

nJMW 1219 439 454		OPERATOR	<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> Final Report
Name of Company: Linn Operating 269324		Contact: Joe Hernandez		
Address: 2130 W. Bender Hobbs, NM 88240		Telephone No.: 575-738-1739		
Facility Name: HE West A 28		Facility Type: Oil		
Surface Owner: Federal		Mineral Owner: Federal		API No.: 3001528318

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	03	17S	31E	1980	North	505	East	Eddy

Latitude: 32.86533 Longitude: -103.84987

NATURE OF RELEASE

Type of Release: Oil / Produced Water	Volume of Release: 2 / 3	Volume Recovered: 0 / 0
Source of Release: Polyline	Date and Hour of Occurrence: 06/21/2012 2pm	Date and Hour of Discovery: 06/21/2012 2:30pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? M Bratcher -NM OCD / Terry Gregston- BLM	
By Whom? Joe Hernandez	Date and Hour 06/22/2012 4pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*:		
Describe Cause of Problem and Remedial Action Taken.*: Pumper was checking wells. Spotted a 3" poly leaking out in pasture, put pipe clamp and shut in well.		
Describe Area Affected and Cleanup Action Taken.*: In the pasture, leak on north side of road. Further remedial action pending.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Joe Hernandez	Approved by District Supervisor: Signed By 	
Title: Production Foreman	JUL 12 2012	Expiration Date:
E-mail Address: jhernandez@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 07/02/2012 Phone: 575-942-9492		

* Attach Additional Sheets If Necessary

Remediation per OCD Rules &
Guidelines. **SUBMIT REMEDIATION
PROPOSAL NOT LATER THAN:**

8/12/12

2RP-1216

Appendix B

Laboratory Results for Bottom Samples at Vertical #1 - #3

RICE Environmental Consulting and Safety (RECS)

P.O. Box 5630 Hobbs, NM 88241

Phone 575.393.4411 Fax 575.393.0293

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 09/24/2012
 Reported: 09/28/2012
 Project Name: WEST A #28
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 09/19/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

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	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 (PID) 98.4 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/27/2012	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/25/2012	ND	181	90.6	200	3.06	
DRO >C10-C28	11.0	10.0	09/25/2012	ND	159	79.5	200	8.88	

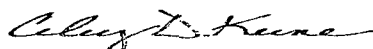
Surrogate: 1-Chlorooctane 89.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.1 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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 #2 @ 4' (H202322-02)

BTX 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	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 (PIE) 98.7 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/27/2012	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
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	

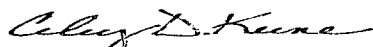
Surrogate: 1-Chlorooctane 88.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.7 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
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 (PIE) 105 % 89.5-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/27/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
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	

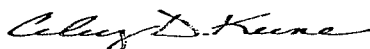
Surrogate: 1-Chlorooctane 85.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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Appendix C

Laboratory Results for Bottom Sample at Vertical #4

RICE Environmental Consulting and Safety (RECS)

P.O. Box 5630 Hobbs, NM 88241

Phone 575.393.4411 Fax 575.393.0293

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
BRUCE BAKER
112 W. TAYLOR
HOBBS NM, 88240
Fax To: (575) 397-1471

Received:	09/19/2012	Sampling Date:	09/18/2012
Reported:	09/27/2012	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 #4 @ 12' 6" (H202279-01)

BTX 8021B			mg/L		Analyzed By: AP					
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		

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.5-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.3 % 63.6-154

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*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

Company Name: <u>Aspetec RECS</u>		BILL TO		ANALYSIS REQUEST																																			
Project Manager: <u>Bruce Baker</u>		P.O. #:		<div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX *added 9/24/12</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div>																																			
Address:		Company:																																					
City: State: Zip:		Attn:																																					
Phone #: Fax #:		Address:																																					
Project #: Project Owner: <u>Linn Energy</u>		City:																																					
Project Name: <u>West A #28</u>		State: Zip:																																					
Project Location:		Phone #:																																					
Sampler Name: <u>Dakston Harris</u>		Fax #:																																					
FOR LAB USE ONLY																																							
Lab I.D.		Sample I.D.												(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME	
11207279		Vertical #4/E12'6"												G		1						✓										✓				9-18-12		2:30	
PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																																							
Relinquished By: <u>Dakston Harris</u>		Date: <u>9/19/12</u>		Received By: <u>Jodi Benson</u>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:		email results Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com																													
Relinquished By:		Date:		Received By:		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:																															
Time:		Time:																																					
Delivered By: (Circle One)		Sample Condition		CHECKED BY:																																			
Sampler - UPS - Bus - Other:		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input checked="" type="checkbox"/> No		(Initials) <u>CH</u>																																			

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

#26

Appendix D

Laboratory Results for Bottom Sample at Vertical #5

RICE Environmental Consulting and Safety (RECS)

P.O. Box 5630 Hobbs, NM 88241

Phone 575.393.4411 Fax 575.393.0293

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 10/05/2012
 Reported: 10/11/2012
 Project Name: WEST A #28
 Project Number: EVENT # NU12156TG
 Project Location: NOT GIVEN

 Sampling Date: 10/04/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

BTX 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	10/09/2012	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 (PIE) 171 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 212 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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 @ 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 (PIC) 554 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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	

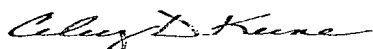
Surrogate: 1-Chlorooctane 213 % 65.2-140

Surrogate: 1-Chlorooctadecane 156 % 63.6-154

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*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
BRUCE BAKER
112 W. TAYLOR
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 10/05/2012
Reported: 10/11/2012
Project Name: WEST A #28
Project Number: EVENT # NU12156TG
Project Location: NOT GIVEN

Sampling Date: 10/04/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

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*	0.063	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-Bromofluorobenzene (PIE) 218 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.0 % 63.6-154

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Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 10/05/2012
 Reported: 10/11/2012
 Project Name: WEST A #28
 Project Number: EVENT # NU12156TG
 Project Location: NOT GIVEN

 Sampling Date: 10/04/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

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	10/10/2012	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 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed 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		Analyzed 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	18.5	10.0	10/08/2012	ND	198	98.9	200	4.31	

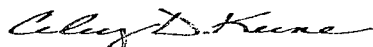
Surrogate: 1-Chlorooctane 83.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.2 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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 @ 4' (H202428-05)

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	10/10/2012	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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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	

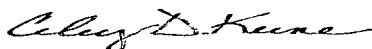
Surrogate: 1-Chlorooctane 77.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 76.1 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
BRUCE BAKER
112 W. TAYLOR
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 10/05/2012
Reported: 10/11/2012
Project Name: WEST A #28
Project Number: EVENT # NU12156TG
Project Location: NOT GIVEN

Sampling Date: 10/04/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

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	10/10/2012	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 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed 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		Analyzed 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	

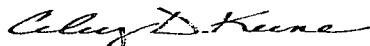
Surrogate: 1-Chlorooctane 78.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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		Analyzed 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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 70.1 % 63.6-154

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 10/05/2012
 Reported: 10/11/2012
 Project Name: WEST A #28
 Project Number: EVENT # NU12156TG
 Project Location: NOT GIVEN

 Sampling Date: 10/04/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

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	10/10/2012	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) 102 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed 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		Analyzed 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	

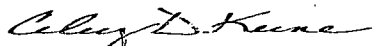
Surrogate: 1-Chlorooctane 80.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 83.5 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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 @ 8' (H202428-09)

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	10/10/2012	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 (PID) 105 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed 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		Analyzed 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	

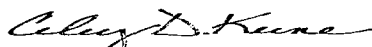
Surrogate: 1-Chlorooctane 89.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.6 % 63.6-154

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 10/05/2012
 Reported: 10/11/2012
 Project Name: WEST A #28
 Project Number: EVENT # NU12156TG
 Project Location: NOT GIVEN

 Sampling Date: 10/04/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

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	10/10/2012	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 (PIB) 102 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8160	16.0	10/09/2012	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed 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	

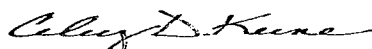
Surrogate: 1-Chlorooctane 83.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

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Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
BRUCE BAKER
112 W. TAYLOR
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 10/05/2012
Reported: 10/11/2012
Project Name: WEST A #28
Project Number: EVENT # NU12156TG
Project Location: NOT GIVEN

Sampling Date: 10/04/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

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	10/11/2012	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 (PIE) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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	

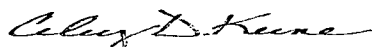
Surrogate: 1-Chlorooctane 83.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.9 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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 @ 11' (H202428-12)

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	10/11/2012	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 (PIE) 103 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
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		Analyzed 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 83.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.8 % 63.6-154

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 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 @ 12' (H202428-13)

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	10/11/2012	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 (PIE) 103 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed 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		Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 81.7 % 63.6-154

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Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
BRUCE BAKER
112 W. TAYLOR
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 10/05/2012
Reported: 10/11/2012
Project Name: WEST A #28
Project Number: EVENT # NU12156TG
Project Location: NOT GIVEN

Sampling Date: 10/04/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

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	10/11/2012	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 (PIC) 104 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
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		Analyzed 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 77.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 78.3 % 63.6-154

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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 @ 14' (H202428-15)

BTX 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	10/11/2012	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 (PIE) 103 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed 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		Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 74.8 % 63.6-154

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Analytical Results For:

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 @ 14' 6" (H202428-16)

BTX 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	10/11/2012	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 (PIC) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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	

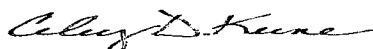
Surrogate: 1-Chlorooctane 85.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 83.8 % 63.6-154

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 20 of 20

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Relinquished By:	Date:	Received By:	Phone Result:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Add'l Phone #:
<i>[Signature]</i>	10/05/02	<i>[Signature]</i>	Fax Result:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Add'l Fax #:
	Time:		REMARKS:			
	10:19		email results			
Relinquished By:	Date:	Received By:	Zconder@rice-ecs.com; Bbaker@rice-ecs.com;			
			hconder@rice-ecs.com; Lweinheimer@rice-ecs.com			
	Time:					
Delivered By: (Circle One)	Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other:	Cool Intact		(Initials)			
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<i>[Signature]</i>			

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

Appendix E

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

RICE Environmental Consulting and Safety (RECS)

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

Analytical Results For:

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
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 #7 @ SURFACE (H202455-01)

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	10/12/2012	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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-06	
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		Analyzed 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	

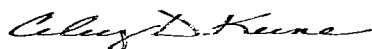
Surrogate: 1-Chlorooctane 125 % 65.2-140

Surrogate: 1-Chlorooctadecane 191 % 63.6-154

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*=Accredited Analyte

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Analytical Results For:

 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
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 #7 @ 1' (H202455-02)

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	10/12/2012	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 (PIE) 146 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-06	
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		Analyzed 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	

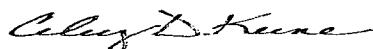
Surrogate: 1-Chlorooctane 189 % 65.2-140

Surrogate: 1-Chlorooctadecane 167 % 63.6-154

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Analytical Results For:

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
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 #7 @ 2' (H202455-03)

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	2.00	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) 100 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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		

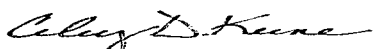
Surrogate: 1-Chlorooctane 91.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.9 % 63.6-154

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Analytical Results For:

 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
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 #7 @ 3' (H202455-04)

BTX 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	2.00	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 (PIE) 99.9 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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	

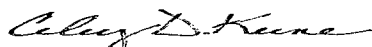
Surrogate: 1-Chlorooctane 92.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.5 % 63.6-154

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* = Accredited Analyte

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Analytical Results For:

 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
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 #7 @ 4' (H202455-05)

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	2.00	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 (PIE) 97.0 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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	

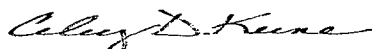
Surrogate: 1-Chlorooctane 98.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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Analytical Results For:

 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
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 #7 @ 5' (H202455-06)

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	2.00	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 (PIE) 99.3 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed 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		Analyzed 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	

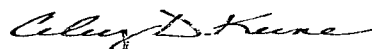
Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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Analytical Results For:

 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
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 #7 @ 6' (H202455-07)

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	2.00	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 (PIE) 96.9 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed 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		Analyzed 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	

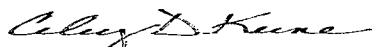
Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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Analytical Results For:

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
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 #7 @ 7' (H202455-08)

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	2.00	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 (PIE) 97.9 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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	

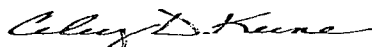
Surrogate: 1-Chlorooctane 72.4 % 63.2-140

Surrogate: 1-Chlorooctadecane 73.0 % 63.6-154

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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
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 #7 @ 8' (H202455-09)

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	2.00	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) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/11/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed 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	

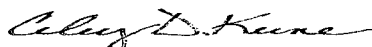
Surrogate: 1-Chlorooctane 80.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 80.0 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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
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 #7 @ 9' (H202455-10)

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) 97.6 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/11/2012	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed 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	

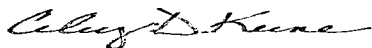
Surrogate: 1-Chlorooctane 80.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 79.9 % 63.6-154

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Celest D. Keene, Lab Director/Quality Manager

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 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 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 #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		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2012	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 (PIE) 135 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 154 % 63.6-154

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BRUCE BAKER
112 W. TAYLOR
HOBBS NM, 88240
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 #NU12156TC	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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

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*	0.085	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 (PIE) 124 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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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 @ 2' (H202455-13)

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 (PIE) 101 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed 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		Analyzed 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	

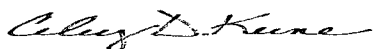
Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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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 @ 3' (H202455-14)

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) 99.8 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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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 @ 4' (H202455-15)

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 (PIE) 98.3 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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	

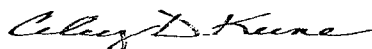
Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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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 @ 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 (PIC) 98.7 % 89.4-126

Chloride, SM4500Cl-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							
			Analyzed 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		

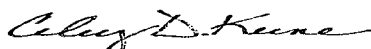
Surrogate: 1-Chlorooctane 99.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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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 @ 6' (H202455-17)

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 (PIE) 93.8 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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		

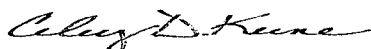
Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 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 #NU12156TC	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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

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 (PIE) 96.7 % 89.4-126

Chloride, SM4500Cl-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		Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.1 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
BRUCE BAKER
112 W. TAYLOR
HOBBS NM, 88240
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 #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		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 (PIE) 94.4 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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	

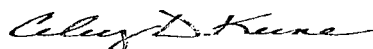
Surrogate: 1-Chlorooctane 80.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 78.6 % 63.6-154

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 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 #NU12156TC	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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 (PIE) 96.0 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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	

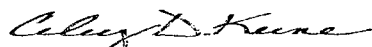
Surrogate: 1-Chlorooctane 92.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.3 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 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 #NU12156TC	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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	

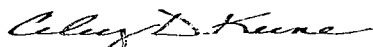
Surrogate: 1-Chlorooctane 95.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
BRUCE BAKER
112 W. TAYLOR
HOBBS NM, 88240
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 #NU12156TC	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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

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) 98.8 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.6 % 63.6-154

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Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 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 #NU12156TC	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	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 (PIC) 96.2 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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	

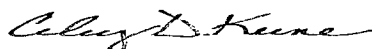
Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 63.6-154

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Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
BRUCE BAKER
112 W. TAYLOR
HOBBS NM, 88240
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	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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

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) 97.9 % 89.4-126

Chloride, SM4500Cl-B			mg/kg							Analyzed 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							Analyzed 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		

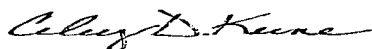
Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 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	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 (PIE) 98.4 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed 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		Analyzed 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	

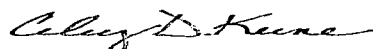
Surrogate: 1-Chlorooctane 120 % 65.2-140

Surrogate: 1-Chlorooctadecane 126 % 63.6-154

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Analytical Results For:

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 112 W. TAYLOR
 HOBBS NM, 88240
 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 #NU12156TC	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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

BTX 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 (PIE) 97.6 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/11/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed 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	

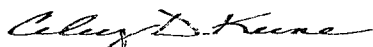
Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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



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Relinquished By: <u>L. L. L. L.</u> Date: <u>10-9-12</u> Time: <u>8:10</u>		Received By: <u>Kyle N...</u> Date: <u>10-9-12</u> Time: <u>8:25</u>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____ Add'l Fax #: _____ REMARKS:	
Relinquished By: <u>Kyle N...</u> Date: <u>10-9-12</u> Time: <u>8:25</u>		Received By: <u>Godi Nenson</u> Date: _____ Time: _____		email results Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		CHECKED BY: (Initials) <u>GN</u>	

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#26



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By: <i>[Signature]</i>	Date: <i>10-9-12</i> Time: <i>8:00</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No REMARKS:
Relinquished By: <i>[Signature]</i>	Date: <i>10-9-12</i> Time: <i>8:25</i>	Received By: <i>[Signature]</i>	email results
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) <i>[Signature]</i>	Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com

Appendix F

Laboratory Results for Imported Soil

RICE Environmental Consulting and Safety (RECS)

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

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
BRUCE BAKER
112 W. TAYLOR
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 09/18/2012
Reported: 09/24/2012
Project Name: WEST A #28
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/17/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

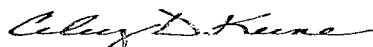
Sample ID: IMPORTED SOIL (H202265-01)

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/22/2012	ND	416	104	400	0.00		
TPH 8015M			mg/kg							
			Analyzed 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		
<hr/>										
Surrogate: 1-Chlorooctane	83.0 %	65.2-140								
Surrogate: 1-Chlorooctadecane	84.7 %	63.6-154								

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Celey D. Keene, Lab Director/Quality Manager

