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 JAN 2 4 2013

Form C-141 Revised October 10, 2003

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

RECEIVED

Release	Notification	and	Corrective	Action
IXCICASC	Nouncauon	anu	COLLECTIVE	ALUU

Telephone No.: 575-738-1739						
o.: 3002500676						
County						
Lea						
Recovered: 5 bbls						
Hour of Discovery: 13 11:45am						
and ran about 150 feet and is 2 uid from line and picked up						
suant to NMOCD rules and						
cases which may endanger ieve the operator of liability r, surface water, human health ompliance with any other						
cases which may endanger ieve the operator of liability r, surface water, human health ompliance with any other  DIVISION						
cases which may endanger ieve the operator of liability r, surface water, human health ompliance with any other  DIVISION						
cases which may endanger ieve the operator of liability r, surface water, human health ompliance with any other  DIVISION						
cases which may endanger ieve the operator of liability r, surface water, human health ompliance with any other  DIVISION  al Specialist						
li						

District I
1625 N. French Dr., Hobbs, NM 88240
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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 Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

### **Release Notification and Corrective Action**

						ODEDAR	COD					
NT	тт	· F				OPERA'			Initia	al Report		
Name of Co Address 2							Gary Wink	730				
Facility Na							No. (575)738-1 te Injection Lin		200			
racinty Na	He CIVIU	#00				racinty Typ	e Injection Lin	ie Keie	ase			
Surface Ow	ner State			Mineral C	wner	tr Lease No.						
				LOCA	TIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	South Line	Feet from the	East/	West Line	County		
L	24	17S	32E	1,966	Sou	outh Line 751 West Line Lea						
			Latitude	32°49'5.116"	N1	Longitude_	103°43'33.815	5"W_				
				NAT	URE	OF REL	EASE 70P	12/ 6	JURI IN	08/13 SARL 11/0		
Type of Rele	ase Pr	oduced Water	-	11122	CILL	Volume of			Volume R	Recovered mone 5BBLs		
Source of Re									Date and	Hour of Discovery		
	344.00					January 22			January 2			
Was Immedi	ate Notice C		Yes V	No Not Re	equired	If YES, To	Whom?					
By Whom?			103	THO LINGTE	equired	Date and H	Jour					
Was a Watercourse Reached?							olume Impacting t	he Wat	ercourse.			
			Yes [	No								
If a Waterco	urse was Im	pacted, Descr	ibe Fully.									
determine t		and Cleanup	A -4: T-1									
were taken tested clear excavated s with approve depth of 7 f laboratory of I hereby cert regulations a public health should their or the environ	ommercial to a comm for chloric oil was tak val from NI t bgs. The for analysis ify that the i all operators or the envi- operations h mment. In a	f contaminate laboratory for the crisis laboratory for the crisis laborated to a NMO MOCD District was backed as a conformation government. The lave failed to	ion. The for analys attory for a centative s OCD apprict 1 Offickfilled when above acceptance acceptance adequately OCD accept	samples were find of chlorides, analysis of chlorides, amples from the coved facility for ice, a 20-mil reject the soil removed is true and compador file certain the of a C-141 report investigate and the contract of the co	ield tes TPH artides. The walls or disponitorced when blete to the elease room by the emedian	ted for chlor and BTEX, are the walls of were taken to sal. Based of poly liner to excavating the best of my totifications a the NMOCD model contaminate	ides and hydrocond the two clean the contaminate to a commercial on the initial lab was installed through the initial ditch.  knowledge and und perform correct tarked as "Final Right to the to the pose a through the transfer of the transf	bottors didich labora oratory ougho and a senderstative acceport" eat to get a constant of the	s. All samples in were expettory for chey sampling ut the continuous ample was and that purstions for relidoes not religiound water	ples from Vertical #1 were from Vertical #2 and #3 anded until the walls field aloride analysis. 60 yards of on the base of the ditch and aminated ditch area at a staken to a commercial suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health compliance with any other		
were taken tested clear excavated swith approvidenth of 7 flaboratory of I hereby cert regulations apublic health should their or the environment of the state of the should their or the environment of the should their the environment of the should their or the environment of the should their the should their or the environment of the should their the should their or the should their the should the should their the should t	ommercial to a comm for chloric oil was tak val from Ni t bgs. The for analysis ify that the i all operators or the envi operations h mment. In a c, or local lav	f contaminate laboratory for the crisis laboratory for the crisis laborated as the critical laborated as the critica	ion. The for analys attory for a centative s OCD apprict 1 Offickfilled when above acceptance acceptance adequately OCD accept	samples were find of chlorides, analysis of chlorides, amples from the coved facility for ice, a 20-mil reject the soil removed is true and compador file certain the of a C-141 report investigate and the contract of the co	ield tes TPH artides. The walls or disponitorced when blete to the elease room by the emedian	ted for chlor and BTEX, are the walls of were taken to sal. Based of al poly liner of excavating the best of my notifications are e NMOCD me the contaminate to loes not relieve	ides and hydrocond the two clean the contaminate to a commercial on the initial lab was installed through the initial ditch.  knowledge and und perform correct tarked as "Final Right to the to the pose a through the transfer of the transf	arbons bottor d ditch labora orator ougho and a s inderstative ac eport" eat to g respons	s. All samples in were expettory for che y sampling ut the control sample was and that purstions for religiound water sibility for c	ples from Vertical #1 were from Vertical #2 and #3 anded until the walls field aloride analysis. 60 yards of on the base of the ditch and aminated ditch area at a staken to a commercial suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health compliance with any other		
were taken tested clear excavated swith approvement of 7 flaboratory of I hereby cert regulations a public health should their or the environted federal, state	ommercial to a comm for chloric oil was tak val from Ni t bgs. The for analysis ify that the i all operators or the envi operations h mment. In a c, or local lav	f contaminate laboratory for the crisis laboratory for the crisis laborated des. Repressor to a NMO MOCD District was backed as a conformation government. The lave failed to addition, NMO MOCD MOCD District was backed to conformation government. The lave failed to addition, NMO MOCD DISTRICT WAS A CONTROLLED TO THE C	ion. The for analys attory for a centative s OCD apprict 1 Offickfilled when above acceptance acceptance adequately OCD accept	samples were find of chlorides, analysis of chlorides, amples from the coved facility for ice, a 20-mil reject the soil removed is true and compador file certain the of a C-141 report investigate and the contract of the co	ield tes TPH artides. The walls or disponitorced when blete to the elease room by the emedian	ted for chlor ad BTEX, ar The walls of were taken to sal. Based of poly liner of excavating the best of my totifications a the NMOCD me to contaminate the contaminate the same of the contaminate the	ides and hydrocad the two clean the contaminate to a commercial on the initial lab was installed through the initial ditch knowledge and was refined as "Final Rion that pose a throe the operator of	arbons bottor d ditch labora orator ougho and a s inderstative ac eport" eat to g respons	s. All samples in were expettory for che y sampling ut the control sample was and that purstions for religiound water sibility for c	ples from Vertical #1 were from Vertical #2 and #3 anded until the walls field aloride analysis. 60 yards of on the base of the ditch and aminated ditch area at a staken to a commercial suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health compliance with any other		
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### **LINN ENERGY**

2130 W. Bender Blvd.Hobbs, NM 88241Phone 575.738.1739

## CMU #60

## Closure Report

API 30-025-00676

Unit Letter L, Section 24, Township 17S, Range 32E

### Rice Environmental Consulting & Safety

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

March 1<sup>st</sup>, 2012

Mr. Geoff Leking

New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau – District 1 1625 N. French Drive Hobbs, New Mexico 88240

> RE: Termination Request Linn Energy – CMU #60 UL/L Sec. 24 T17S R32E API No. 30-025-00676

Mr. Leking:

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

### **Background and Previous Work**

The site is located approximately 3.5 miles southeast of Maljamar, New Mexico in unit letter L, section 24, T17S, R32E in Lea County. Groundwater in this area is predicted to be at 69 ft bgs. On January 22<sup>nd</sup>, 2013, an accidental discharge of produced water from a ruptured injection line released fluid into a ditched area crossing the injection line.

On January 22<sup>nd</sup>, 2013, RECS personnel were on site to begin work at the CMU #60. Samples were taken from inside the ditched area and then three vertical were dug to determine the depth of contamination. The samples were field tested for chlorides and hydrocarbons. All samples from Vertical #1 were taken to a commercial laboratory for analysis of chlorides, TPH and BTEX, and the two clean bottom samples from Vertical #2 and #3 were taken to a commercial laboratory for analysis of chlorides (Figure 1, Appendix A).

The walls of the contaminated ditch were expanded until the walls field tested clean for chlorides. Representative samples from the walls were taken to a commercial laboratory for chloride analysis (Appendix A). 60 yards of excavated soil was taken to a NMOCD approved facility for disposal.

Based on the initial laboratory sampling on the base of the ditch and with approval from NMOCD District 1 Office, a 20-mil reinforced poly liner was installed throughout the contaminated ditch area at a depth of 7 ft bgs. The site was backfilled with soil removed when excavating the initial ditch and a sample was taken to a commercial laboratory for analysis. The backfill returned a chloride result of non-detect (Appendix A). Photo documentation of this work can be found in Appendix B.

Since RECS removed the impacted soil along the walls of the trench and installed a 20-mil reinforced poly liner at 7 ft bgs that will inhibit the downward migration of contaminates to groundwater, RECS, on behalf of Linn Energy, submits the final C-141 (Appendix C) and respectfully requests the closure of the regulatory file for this site.

RECS appreciates the opportunity to work with you on this project. Please call the number below if you have any questions.

Sincerely,

Bruce Baker

Head Foreman

Bruce Baden

**RECS** 

(575) 631-5157

### Attachments:

Figure 1 – Initial Sampling Data

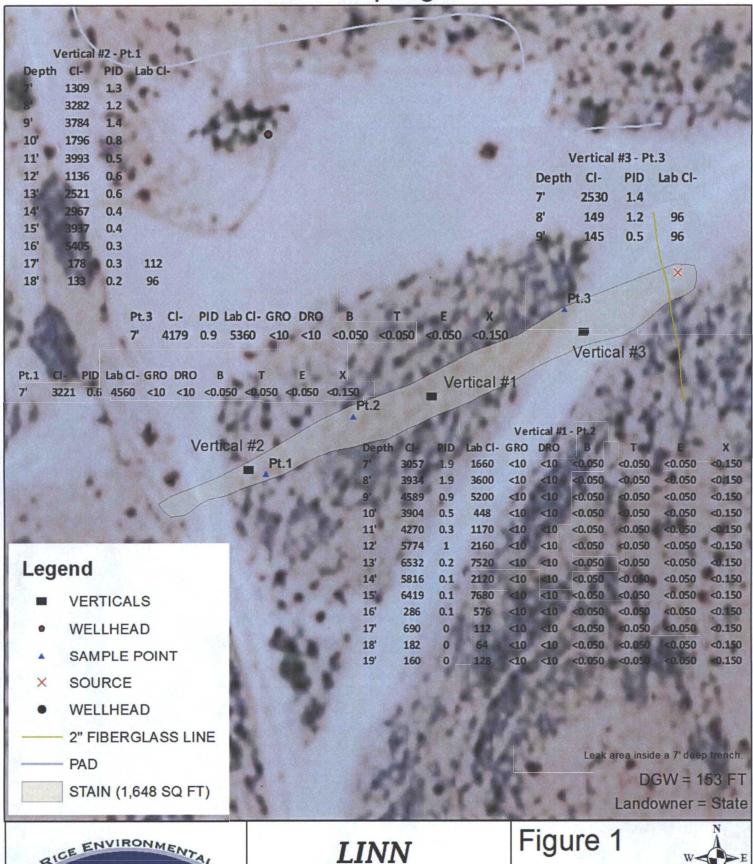
Figure 2 – Final Wall Sampling Data

Appendix A – Laboratory Analyses

Appendix B – Photo Documentation

Appendix C – Final C-141

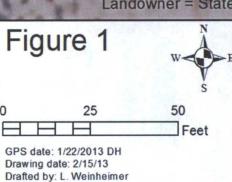
### **Initial Sampling Data**



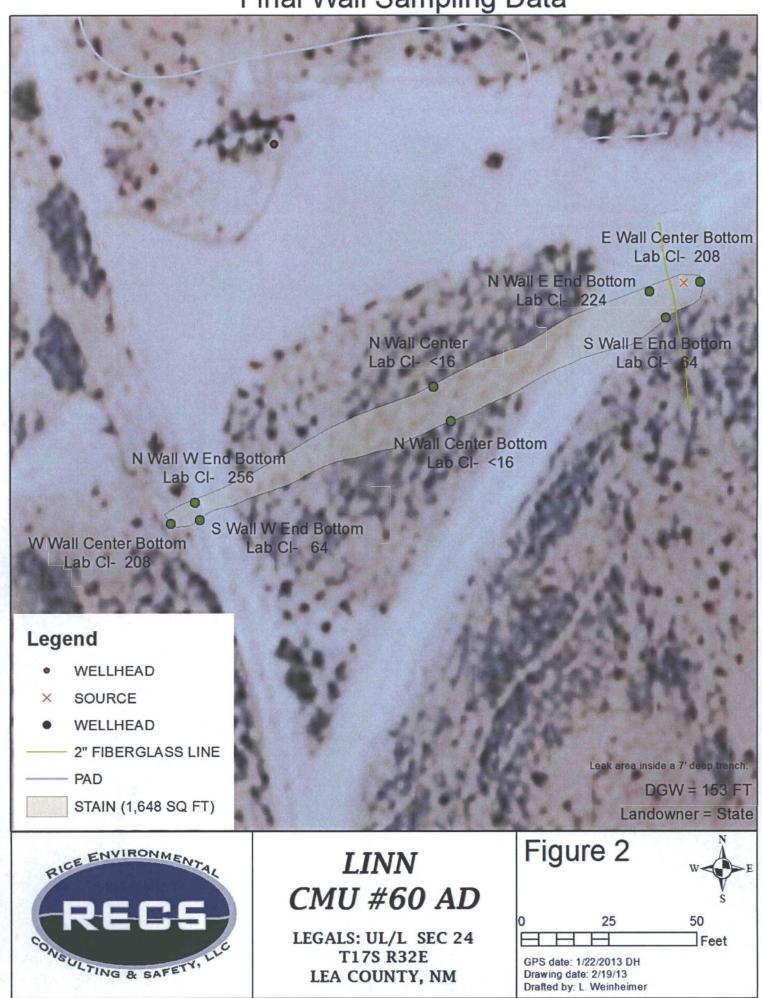


### LINN CMU #60 AD

LEGALS: UL/L SEC 24 T17S R32E LEA COUNTY, NM



Final Wall Sampling Data





January 23, 2013

**BRUCE BAKER** 

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: CMU #60 AD

Enclosed are the results of analyses for samples received by the laboratory on 01/22/13 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(575) 397-1471

Received:

01/22/2013

Reported:

01/23/2013

Project Name:

CMU #60 AD

Project Number:

NONE GIVEN

Sampling Date:

01/22/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Project Location:

**NOT GIVEN** 

### Sample ID: VERTICAL #1 @ 7' (H300175-01)

BTEX 8260B	mg/kg		Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2013	ND	1.84	92.0	2.00	3.58	
Toluene*	<0.050	0.050	01/23/2013	ND	2.05	102	2.00	5.46	
Ethylbenzene*	<0.050	0.050	01/23/2013	ND	2.20	110	2.00	5.61	
Total Xylenes*	<0.150	0.150	01/23/2013	ND	6.58	110	6.00	5.61	
Surrogate: Dibromofluoromethane	80.5	% 61.3-14	2						
Surrogate: Toluene-d8	113	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	88.9	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1660	16.0	01/23/2013	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: MS		1			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/23/2013	ND	188	93.8	200	5.71	
DRO >C10-C28	<10.0	10.0	01/23/2013	ND	194	96.8	200	7.66	
Surrogate: 1-Chlorooctane	79.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.3	% 63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY **BRUCE BAKER** 

112 W. TAYLOR HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

01/22/2013

Sampling Date:

01/22/2013

Reported:

01/23/2013

Sampling Type:

Soil

Project Name:

CMU #60 AD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Celey D. Keene

Project Location:

**NOT GIVEN** 

### Sample ID: VERTICAL #1 @ 8' (H300175-02)

BTEX 8260B	mg/kg		Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2013	ND	1.84	92.0	2.00	3.58	
Toluene*	<0.050	0.050	01/23/2013	ND	2.05	102	2.00	5.46	
Ethylbenzene*	<0.050	0.050	01/23/2013	ND	2.20	110	2.00	5.61	
Total Xylenes*	<0.150	0.150	01/23/2013	ND	6.58	110	6.00	5.61	
Surrogate: Dibromofluoromethane	82.4	% 61.3-14	2						
Surrogate: Toluene-d8	113	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	89.5	% 65.7-14	I						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	01/23/2013	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/23/2013	ND	188	93.8	200	5.71	
DRO >C10-C28	<10.0	10.0	01/23/2013	ND	194	96.8	200	7.66	
Surrogate: 1-Chlorooctane	84.8	% 65.2-14	0	_					
Surrogate: 1-Chlorooctadecane	98.9	% 63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR

HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

01/22/2013

Sampling Date:

01/22/2013

Reported:

01/23/2013

Sampling Type:

Soil

Project Name:

CMU #60 AD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Celey D. Keene

Project Location:

NOT GIVEN

Sample ID: VERTICAL #1 @ 9' (H300175-03)

BTEX 8260B	mg,	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2013	ND	1.84	92.0	2.00	3.58	
Toluene*	<0.050	0.050	01/23/2013	ND	2.05	102	2.00	5.46	
Ethylbenzene*	<0.050	0.050	01/23/2013	ND	2.20	110	2.00	5.61	
Total Xylenes*	<0.150	0.150	01/23/2013	ND	6.58	110	6.00	5.61	
Surrogate: Dibromofluoromethane	82.0	% 61.3-14	2						
Surrogate: Toluene-d8	114	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	90.9	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	01/23/2013	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/23/2013	ND	188	93.8	200	5.71	
DRO >C10-C28	<10.0	10.0	01/23/2013	ND	194	96.8	200	7.66	
Surrogate: 1-Chlorooctane	77.9	% 65.2-14	0				-p	4-31	
Surrogate: 1-Chlorooctadecane	88.3	% 63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY

BRUCE BAKER 112 W. TAYLOR

HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

01/22/2013

Sampling Date:

01/22/2013

Reported:

01/23/2013

Sampling Type:

Soil

Project Name:

CMU #60 AD

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Celey D. Keene

Project Location:

NOT GIVEN

Sample ID: VERTICAL #1 @ 10' (H300175-04)

BTEX 8260B	mg	mg/kg A		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2013	ND	1.84	92.0	2.00	3.58	
Toluene*	<0.050	0.050	01/23/2013	ND	2.05	102	2.00	5.46	
Ethylbenzene*	<0.050	0.050	01/23/2013	ND	2.20	110	2.00	5.61	
Total Xylenes*	<0.150	0.150	01/23/2013	ND	6.58	110	6.00	5.61	
Surrogate: Dibromofluoromethane	80.7	% 61.3-14	2						
Surrogate: Toluene-d8	112	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	89.8	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	01/23/2013	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/23/2013	ND	188	93.8	200	5.71	
DRO >C10-C28	<10.0	10.0	01/23/2013	ND	194	96.8	200	7.66	
Surrogate: 1-Chlorooctane	85.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.3	% 63.6-15	4						

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RICE ENVIRONMENTAL CONSULTING & SAFETY

**BRUCE BAKER** 112 W. TAYLOR HOBBS NM, 88240

Fax To:

(575) 397-1471

Received: Reported: 01/22/2013

01/23/2013 CMU #60 AD

Project Name: Project Number: Project Location:

NONE GIVEN

NOT GIVEN

Sampling Date:

01/22/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Celey D. Keene

### Sample ID: VERTICAL #1 @ 11' (H300175-05)

BTEX 8260B	mg/kg		Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2013	ND	1.84	92.0	2.00	3.58	
Toluene*	<0.050	0.050	01/23/2013	ND	2.05	102	2.00	5.46	
Ethylbenzene*	<0.050	0.050	01/23/2013	ND	2.20	110	2.00	5.61	
Total Xylenes*	<0.150	0.150	01/23/2013	ND	6.58	110	6.00	5.61	
Surrogate: Dibromofluoromethane	81.2	% 61.3-14	2						
Surrogate: Toluene-d8	111 9	6 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	88.5	% 65.7-14	I						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	01/23/2013	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/23/2013	ND	188	93.8	200	5.71	
DRO >C10-C28	<10.0	10.0	01/23/2013	ND	194	96.8	200	7.66	
Surrogate: 1-Chlorooctane	71.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	82.6	% 63.6-15	4						

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Received:

01/22/2013

Sampling Date:

01/22/2013

Reported:

01/23/2013

Soil

Project Name:

CMU #60 AD

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Celey D. Keene

Project Location:

NOT GIVEN

### Sample ID: VERTICAL #1 @ 12' (H300175-06)

BTEX 8260B	mg/kg		Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2013	ND	1.84	92.0	2.00	3.58	
Toluene*	<0.050	0.050	01/23/2013	ND	2.05	102	2.00	5.46	
Ethylbenzene*	<0.050	0.050	01/23/2013	ND	2.20	110	2.00	5.61	
Total Xylenes*	<0.150	0.150	01/23/2013	ND	6.58	110	6.00	5.61	
Surrogate: Dibromofluoromethane	83.0	% 61.3-14	2						
Surrogate: Toluene-d8	112	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	87.4	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	01/23/2013	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/23/2013	ND	188	93.8	200	5.71	
DRO >C10-C28	<10.0	10.0	01/23/2013	ND	194	96.8	200	7.66	
Surrogate: 1-Chlorooctane	80.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	89.4	% 63.6-15	4						

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Fax To: (575) 397-1471

Received:

01/22/2013

Sampling Date:

01/22/2013

Reported:

01/23/2013

Sampling Type:

Soil

Project Name: Project Number: CMU #60 AD NONE GIVEN Sampling Condition:

Cool & Intact

Project Location:

NOT GIVEN

Sample Received By:

Celey D. Keene

### Sample ID: VERTICAL #1 @ 13' (H300175-07)

BTEX 8260B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2013	ND	1.84	92.0	2.00	3.58	
Toluene*	<0.050	0.050	01/23/2013	ND	2.05	102	2.00	5.46	
Ethylbenzene*	<0.050	0.050	01/23/2013	ND	2.20	110	2.00	5.61	
Total Xylenes*	<0.150	0.150	01/23/2013	ND	6.58	110	6.00	5.61	
Surrogate: Dibromofluoromethane	84.4	% 61.3-14	2		2				
Surrogate: Toluene-d8	112	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	89.0	% 65.7-14	1						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AP					, AJ
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7520	16.0	01/23/2013	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/23/2013	ND	188	93.8	200	5.71	
DRO >C10-C28	<10.0	10.0	01/23/2013	ND	194	96.8	200	7.66	
Surrogate: 1-Chlorooctane	81.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	88.3	% 63.6-15	4						

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Celeg D. Keene



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HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

DTEV 0360D

01/22/2013

Sampling Date:

01/22/2013

Reported:

01/23/2013

Sampling Type:

Soil

Project Name:

CMU #60 AD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Celey D. Keene

Project Location:

NOT GIVEN

### Sample ID: VERTICAL #1 @ 14' (H300175-08)

BTEX 8260B	mg	/kg	Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2013	ND	1.84	92.0	2.00	3.58	
Toluene*	<0.050	0.050	01/23/2013	ND	2.05	102	2.00	5.46	
Ethylbenzene*	<0.050	0.050	01/23/2013	ND	2.20	110	2.00	5.61	
Total Xylenes*	<0.150	0.150	01/23/2013	ND	6.58	110	6.00	5.61	
Surrogate: Dibromofluoromethane	82.0	% 61.3-14	2						
Surrogate: Toluene-d8	113	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	87.9	% 65.7-14	I						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	01/23/2013	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/23/2013	ND	188	93.8	200	5.71	
DRO >C10-C28	<10.0	10.0	01/23/2013	ND	194	96.8	200	7.66	
Surrogate: 1-Chlorooctane	83.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	95.5	% 63.6-15	4						

Analysis of December

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(575) 397-1471 Fax To:

Received:

01/22/2013

Sampling Date:

01/22/2013

Reported:

01/23/2013

Sampling Type:

Soil

Project Name:

CMU #60 AD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Celey D. Keene

Project Location:

**NOT GIVEN** 

### Sample ID: VERTICAL #1 @ 15' (H300175-09)

BTEX 8260B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2013	ND	1.84	92.0	2.00	3.58	
Toluene*	< 0.050	0.050	01/23/2013	ND	2.05	102	2.00	5.46	
Ethylbenzene*	<0.050	0.050	01/23/2013	ND	2.20	110	2.00	5.61	
Total Xylenes*	<0.150	0.150	01/23/2013	ND	6.58	110	6.00	5.61	
Surrogate: Dibromofluoromethane	81.3	% 61.3-14	2						
Surrogate: Toluene-d8	110	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	85.3	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7680	16.0	01/23/2013	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS	u.				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/23/2013	ND	188	93.8	200	5.71	
DRO >C10-C28	<10.0	10.0	01/23/2013	ND	194	96.8	200	7.66	
Surrogate: 1-Chlorooctane	79.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	85.6	% 63.6-15	4						

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(575) 397-1471

Received:

01/22/2013

Sampling Date:

01/22/2013

Reported:

01/23/2013

Sampling Type:

Soil

Project Name:

CMU #60 AD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Celey D. Keene

Project Location:

NOT GIVEN

### Sample ID: VERTICAL #1 @ 16' (H300175-10)

BTEX 8260B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2013	ND	1.84	92.0	2.00	3.58	
Toluene*	<0.050	0.050	01/23/2013	ND	2.05	102	2.00	5.46	
Ethylbenzene*	<0.050	0.050	01/23/2013	ND	2.20	110	2.00	5.61	
Total Xylenes*	<0.150	0.150	01/23/2013	ND	6.58	110	6.00	5.61	
Surrogate: Dibromofluoromethane	86.3	% 61.3-14	2						
Surrogate: Toluene-d8	110 9	71.3-12	9						
Surrogate: 4-Bromofluorobenzene	87.2	% 65.7-14	I						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	01/23/2013	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/23/2013	ND	188	93.8	200	5.71	
DRO >C10-C28	<10.0	10.0	01/23/2013	ND	194	96.8	200	7.66	
Surrogate: 1-Chlorooctane	82.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	90.6	% 63.6-15	4						

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HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

01/22/2013

Sampling Date:

01/22/2013

Reported:

01/23/2013 CMU #60 AD Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Celey D. Keene

Project Location:

**NOT GIVEN** 

### Sample ID: VERTICAL #1 @ 17' (H300175-11)

BTEX 8260B	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2013	ND	1.84	92.0	2.00	3.58	
Toluene*	<0.050	0.050	01/23/2013	ND	2.05	102	2.00	5.46	
Ethylbenzene*	<0.050	0.050	01/23/2013	ND	2.20	110	2.00	5.61	
Total Xylenes*	<0.150	0.150	01/23/2013	ND	6.58	110	6.00	5.61	
Surrogate: Dibromofluoromethane	83.0	% 61.3-14	2						
Surrogate: Toluene-d8	109	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	85.0	% 65.7-14	I						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/23/2013	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS				1	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/23/2013	ND	188	93.8	200	5.71	
DRO >C10-C28	<10.0	10.0	01/23/2013	ND	194	96.8	200	7.66	
Surrogate: 1-Chlorooctane	78.6	% 65.2-14	0	j.					
Surrogate: 1-Chlorooctadecane	89.3	% 63.6-15	4						

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(575) 397-1471 Fax To:

Received:

01/22/2013

Sampling Date:

01/22/2013

Reported:

01/23/2013

Sampling Type:

Soil

Project Name:

CMU #60 AD

Sampling Condition: Sample Received By:

Cool & Intact Celey D. Keene

Project Number: Project Location: NONE GIVEN

**NOT GIVEN** 

Sample ID: VERTICAL #1 @ 18' (H300175-12)

BTEX 8260B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2013	ND	1.84	92.0	2.00	3.58	
Toluene*	<0.050	0.050	01/23/2013	ND	2.05	102	2.00	5.46	
Ethylbenzene*	<0.050	0.050	01/23/2013	ND	2.20	110	2.00	5.61	
Total Xylenes*	<0.150	0.150	01/23/2013	ND	6.58	110	6.00	5.61	
Surrogate: Dibromofluoromethane	83.6	% 61.3-14	2						
Surrogate: Toluene-d8	108	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	85.5	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP			1		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/23/2013	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/23/2013	ND	188	93.8	200	5.71	
DRO >C10-C28	<10.0	10.0	01/23/2013	ND	194	96.8	200	7.66	
Surrogate: 1-Chlorooctane	83.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	87.5	% 63.6-15	4						

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\*=Accredited Analyte

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

Fax To:

(575) 397-1471

Received:

01/22/2013

Sampling Date:

01/22/2013

Reported:

01/23/2013

Sampling Type:

Soil

Project Name:

CMU #60 AD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Celey D. Keene

Project Location:

NOT GIVEN

### Sample ID: VERTICAL #1 @ 19' (H300175-13)

BTEX 8260B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2013	ND	1.84	92.0	2.00	3.58	
Toluene*	<0.050	0.050	01/23/2013	ND	2.05	102	2.00	5.46	
Ethylbenzene*	<0.050	0.050	01/23/2013	ND	2.20	110	2.00	5.61	
Total Xylenes*	<0.150	0.150	01/23/2013	ND	6.58	110	6.00	5.61	
Surrogate: Dibromofluoromethane	82.1	% 61.3-14	2		3				
Surrogate: Toluene-d8	108	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	85.0	% 65.7-14	I						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP			1.1		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/23/2013	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/23/2013	ND	188	93.8	200	5.71	
DRO >C10-C28	<10.0	10.0	01/23/2013	ND	194	96.8	200	7.66	
Surrogate: 1-Chlorooctane	68.6	% 65.2-14	0			100000000000000000000000000000000000000			
Surrogate: 1-Chlorooctadecane	72.5	% 63.6-15	4						

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RICE ENVIRONMENTAL CONSULTING & SAFETY **BRUCE BAKER** 112 W. TAYLOR

HOBBS NM, 88240

(575) 397-1471 Fax To:

Received:

01/22/2013

Sampling Date:

01/22/2013

Reported:

01/23/2013

Sampling Type:

Soil

Project Name:

CMU #60 AD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Celey D. Keene

Project Location:

NOT GIVEN

### Sample ID: PT. 1 @ 7' (H300175-14)

BTEX 8260B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2013	ND	1.84	92.0	2.00	3.58	
Toluene*	<0.050	0.050	01/23/2013	ND	2.05	102	2.00	5.46	
Ethylbenzene*	<0.050	0.050	01/23/2013	ND	2.20	110	2.00	5.61	
Total Xylenes*	<0.150	0.150	01/23/2013	ND	6.58	110	6.00	5.61	
Surrogate: Dibromofluoromethane	84.7	% 61.3-14	2						
Surrogate: Toluene-d8	108	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	84.3	% 65.7-14	l						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					4000
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	01/23/2013	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS				· 15	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/23/2013	ND	188	93.8	200	5.71	
DRO >C10-C28	<10.0	10.0	01/23/2013	ND	194	96.8	200	7.66	
Surrogate: 1-Chlorooctane	82.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	88.1	% 63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY

BRUCE BAKER 112 W. TAYLOR

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: Reported: 01/22/2013

01/23/2013

Project Name: Project Number: CMU #60 AD NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

01/22/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: PT. 3 @ 7' (H300175-15)

_				
TEV 8260E	2			

BTEX 8260B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2013	ND	1.84	92.0	2.00	3.58	
Toluene*	< 0.050	0.050	01/23/2013	ND	2.05	102	2.00	5.46	
Ethylbenzene*	<0.050	0.050	01/23/2013	ND	2.20	110	2.00	5.61	
Total Xylenes*	<0.150	0.150	01/23/2013	ND	6.58	110	6.00	5.61	
Surrogate: Dibromofluoromethane	84.0	% 61.3-14	2						
Surrogate: Toluene-d8	109	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	86.1	% 65.7-14	1						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	01/23/2013	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS				155	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/23/2013	ND	188	93.8	200	5.71	
DRO >C10-C28	<10.0	10.0	01/23/2013	ND	194	96.8	200	7.66	
Surrogate: 1-Chlorooctane	84.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	89.2	% 63.6-15	4						

Analysis of December

### Cardinal Laboratories

\*=Accredited Analyte

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### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C
 Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

aboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Project Manager: Bruce Baker Address: State: Zip: Phone #: Fax #: Project #: Project Owner: Project Name: CMU #60 A.D.	P.G. #:		
e#: State: Fax#: ct#: Project Owner			
State: Fax #: Fax #:  Ct #:  Project Owner  Ct Name: (MV # 60 A.D.	Company:		
HOPENWS	Attn:		
(MU #60 A	Address:		
i	Gity:		
	State: Zip:		
Project Location: //cr // Col #/	Phone #:		
Sampler Name: DalCS for Harris	Fax#:		
FOR LAB USE ONLY MATRIX	RIX PRESERV SAMPLING		
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0x e14'	1 1-39-13 11:35	7	
09 615.	1 1-33-13 11:40	1	
10 616	J 11-39-13 11:45	7	

1 Weinteimene rile-ersicom 4. conder & rice-ecs. com Bbokare rice-ecs. com Phone Result: | Yes | No | Add'l Phone #: Fax Result: | Yes | No | Add'l Fax #: REMARKS; Sample Condition
Cool Intact
Tyes Tyes
No No No Time: Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished By

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326  $\frac{1}{7}$ 

8 to 8 aboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: Rec5	" Recs		BIL	BILL TO			ANALY	ANALYSIS REQUEST	T	
Project Manage	Project Manager: Bruce Balder	A SI SI AMERICAN AND AND AND AND AND AND AND AND AND A	P.O.#:							
Address:	The second of the second se	and desired and an analysis of the second of	Company:	The second secon						OF STREET
City:	State:	Zip:	Aith:							doredous
Phone #:	Fax #:	de tigentant o grande des excitations ordens communication des et stand executation representa	Address:	Annese Paper Annese Series , assumption 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-				okwa90+6
Project #:	Project Owner:	er:	City:							
Project Name:	(MUTT GO A.D.			Zip:						
Project Location:	n: Vertical #1		Phone #:							~
Sampler Name:	Vokston Harris		Fax #:							
FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING						-
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Lab I.D.	Sample I.D.	TAWE TAWE	COOF		4ª_1	1-0 46				
H3001710-		ekor # cor	OTHE	DATE TIME	0	57				
))	Verticol#1 @ 17:	1		1-32-13 11:50	7	1				
(2)	6181	ر - -	>	1-23-13 11:55	7	7				-1
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PLEASE NOTE: Liability a	PLEASE NOTE: Lability and Damages. Cardinals Hobility and clients erichsive remedy for any dain arising wheller based in contact or first. Shall be limited to the amount paid by the client for the	or any claim, arising whether based in contra	ct or fact, shall be limited to	o the amount paid by the client for	the	_	Description or other standard law standard			-
anabree All claime include	anahona All alaime includion thee a for enatherance and any other cause whateverse chall be desired universely	a military of adequate angles is being be according to	and carejused by Cardinal we	loce made in continue of december to Cordinal within 30 days after commission of the arcticable	andientie					

puons, loss of use, or loss of profits incurred by client, its subsidiaries,

CHECKED BY: Sample Condition Cool Intact Received By: 200 Targe O. U Time: Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished By:

L. Neinheimenener ee Lesseom 14 landone rice ecs. com B. Bakknerice - ecs. com

† Cardinal cannot accept verbal changes. Please fax writen, changes to (575) 393-2326



January 31, 2013

**BRUCE BAKER** 

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: CMU #60 AD

Enclosed are the results of analyses for samples received by the laboratory on 01/28/13 8:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY

BRUCE BAKER

112 W. TAYLOR

HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

01/28/2013

Sampling Date:

01/25/2013

Reported:

01/31/2013

Sampling Type:

Soil

Project Name:

CMU #60 AD

Sampling Condition:

\*\* (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

### Sample ID: PT. 1 VERTICAL #2 @ 17' (H300233-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/31/2013	ND	432	108	400	7.14	

### Sample ID: PT. 1 VERTICAL #2 @ 18' (H300233-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/31/2013	ND	432	108	400	7.14	

### Sample ID: PT. 3 VERTICAL #3 @ 8' (H300233-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/31/2013	ND	432	108	400	7.14	

### Sample ID: PT. 3 VERTICAL #3 @ 9' (H300233-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/31/2013	ND	432	108	400	7.14	

Cardinal Laboratories \*=Accredited Analyte

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RICE ENVIRONMENTAL CONSULTING & SAFETY

**BRUCE BAKER** 112 W. TAYLOR HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

01/28/2013

Sampling Date:

01/25/2013

Reported:

01/31/2013

Sampling Type:

Project Name:

CMU #60 AD

Sampling Condition:

\*\* (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

### Sample ID: BACKFILL (H300233-05)

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/31/2013	ND	432	108	400	3.64	

\*=Accredited Analyte Cardinal Laboratories

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### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company:	ompany Name: Accs	Recs						and a		BIL	BILL TO	7				ANA	ANALYSIS	- 1	REQUEST	TS		
State: Zip: Atim:  Fax #:  Fax #:  Project Owner: City:  City: City:  City: City:  City: City:  City: City:  Frax #:  Bridges: Zip:  City: City:  City: City: City:  City: City: City:  City: City: City:  City: City: City:  City: City: City:  City: City: City: City: City: City:  City:	roject Manager:	Bruce Balter		-		and the party		and a	.0. #:	-	Section and Committee			Charles of the Control of the Contro								_
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DT.   Vertica  #43 C 17	Lab I.D.	Sample I.D.		RAB OR (C)OMP.	CONTAINERS		111	NDGE	:38A8\GI				-	12			-					
77.1 Vertical #3 @ 18' & 1 \ 7.3 Vertical #3 @ 18' & 1 \ 7.3 Vertical #3 @ 9' & 1 \ 7.3 Vertical #3 @ 9' & 1 \ 7.3 \ 8a(K \pi) \ \Lambda \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	L'acte	Til Vendical 20	1210	) (e	# -		s ?	IS	DA		100		# 5		1	-	-	-	1	T	+	+
97.3 Verboa   #3 6 g / 6 1 1 1 25.13   1.26.13   1.26.13   1.26.13   1.26.13	1	T. 1 Ventice   #20	101	2	-			-	-	+	3	8 2	V	1		-	-	-		1	1	+
77.3 Vertical #369' 61 V 19513   Backfill		7.3 Vertica 4.3 6	180	24	1	-	1	-			25%	7:11	0	1		-	-	-		1	+	1
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analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in witting and necessary within 30 days after completion of the applicable service. In no event shall Cardinel be liable for inclement of consequental damages, including without limitation, business interruptions, less of use, or loss of profits incurred by client, its subsidiaries.

CHECKED BY: Sample Condition Cool Intact Delivered By: (Circle One)

L. Wenhermenerice-eis.com Hondrerice-cesican B. baldrerice -cesican

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Sampler - UPS - Bus - Other:



February 01, 2013

**BRUCE BAKER** 

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: CMU #60 AD

Enclosed are the results of analyses for samples received by the laboratory on 01/29/13 8:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keens

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY

**BRUCE BAKER** 

112 W. TAYLOR

HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

01/29/2013

Reported: 02/01/2013 Project Name: CMU #60 AD

Project Number: Project Location: NONE GIVEN **NOT GIVEN** 

Sampling Date:

01/28/2013

Sampling Type:

Soil

Sampling Condition:

\*\* (See Notes)

Sample Received By: Jodi Henson

Sample ID: N WALL CENTER (H300241-01)

Chloride, SM4500Cl-B

Chloride

Chloride

Chloride

Chloride

Analyzed By: DW

Analyte

Result <16.0

Result

224

Result

256

Reporting Limit 16.0

Reporting Limit

16.0

16.0

Analyzed 02/01/2013

Analyzed

02/01/2013

Method Blank ND

ND

Method Blank

ND

ND

BS 432 % Recovery 108

True Value QC 400

Qualifier RPD

0.00

Sample ID: N WALL E END BOTTOM (H300241-02)

Chloride, SM4500CI-B

Analyte

Analyte

mg/kg

Analyzed By: DW

Method Blank RS

% Recovery

108

True Value QC

RPD Qualifier

400 0.00

Sample ID: N WALL W END BOTTOM (H300241-03)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: DW

Reporting Limit

Analyzed

02/01/2013

BS 432

432

% Recovery 108

True Value OC

400

RPD

Oualifier 0.00

Qualifier

Sample ID: E WALL CENTER BOTTOM (H300241-04)

Chloride, SM4500Cl-B

Analyzed By: DW

Analyte Result Reporting Limit 208 16.0

Analyzed 02/01/2013

Method Blank

432

BS

% Recovery 108

True Value QC 400

RPD

0.00

Cardinal Laboratories

\*=Accredited Analyte

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 client for 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 thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential dam 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 the services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keens

Celey D. Keene, Lab Director/Quality Manager



RICE ENVIRONMENTAL CONSULTING & SAFETY

**BRUCE BAKER** 112 W. TAYLOR

HOBBS NM, 88240

Fax To: (575) 397-1471

Received:

01/29/2013

Sampling Date:

01/28/2013

Reported:

02/01/2013

Sampling Type:

Soil

Project Name:

CMU #60 AD

Sampling Condition: Sample Received By:

\*\* (See Notes) Jodi Henson

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample ID: S WALL E END BOTTOM (H300241-05)

Chloride, SM4500CI-B

mg/kg

Analyzed By: DW

Analyte

Analyzed

Method Blank

% Recovery

True Value QC

400

Qualifier

Chloride

Result 64.0

Reporting Limit 16.0

Reporting Limit

02/01/2013

ND

432

BS

108

0.00

RPD

Sample ID: S WALL W END BOTTOM (H300241-06)

Chloride, SM4500Cl-B

Analyte

Analyte

Analyte

mg/kg

Analyzed By: DW

Chloride

Result <16.0

16.0 02/01/2013 Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD Qualifier

Sample ID: S WALL CENTER BOTTOM (H300241-07)

Chloride, SM4500Cl-B

Analyzed By: DW

Result Reporting Limit Analyzed

Analyzed

Method Blank

BS

% Recovery

Qualifier

Chloride

<16.0

Result

<16.0

16.0

Reporting Limit

16.0

02/01/2013

ND

432

108

True Value QC

RPD

Chloride

108

400

0.00

0.00

Sample ID: W WALL CENTER BOTTOM (H300241-08)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: DW

Analyzed

02/01/2013

Method Blank

ND

BS

432

% Recovery

True Value QC

400

RPD

0.00

Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5



### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim anising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 incidental contract by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

## Laboratories

## 1001

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Sompany Name: Kec 5	MARKET AND LANGUAGE AND	allocate scip	The State of	-	anther man		No. of Concession, Name of Street, or other parts of the Concession, Name of t			2	BIL	BILLTO		7 V	TO LONG TO LON	ANNOTATION CONTRACTOR	AN	ANALYSIS	SRE	REQUEST	_		BRANCO CONTRACTOR	
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analyses. All claims including those for negligence and any other cause whatboover shall be deemed wavied unless made in writing and received by Cardinal within 30 days after completion of the applicable.

\*\*Received in progression and the state of the progression of the progres

Fax Result:	BOKEL ONG-ECS, COM	L Weinhermire mieters com
3 25 Alde Sherrier	Received By:	Sample Condition CHECKED BY: Cool Intact (Mitials)  Yes Pes
188	Date:	
Childrens -	Relinquished By:	Delivered By: (Circle One) Sampler - UPS - Bus - Other:

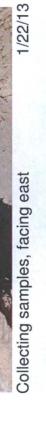
† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

## Linn CMU #60 AD Unit Letter L, Section 24, T17S, R32E



Initial release area, facing east







Digging Vertical #1, facing east

Digging Vertical #1, facing east

1/22/13



Digging Vertical #2, facing east

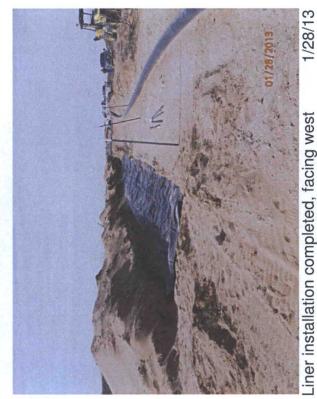




Installing the 20-mil reinforced poly liner, facing west 1/28/13



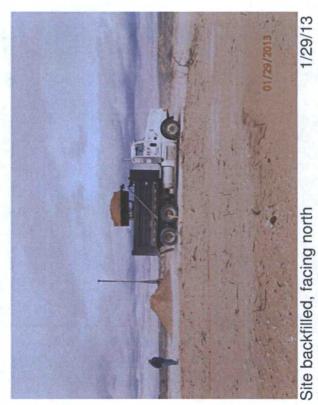
Digging Vertical #3, facing east



Liner installation completed, facing west

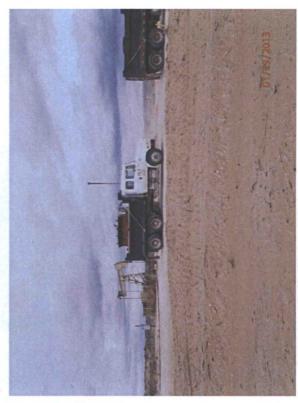


Backfilling above the liner, facing east



Site backfilled, facing north





Site backfilled, facing north

1/29/13