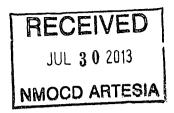


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## **LINN ENERGY**

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

# H.E. West A #028 (2RP-1216)

# Termination Request

NU12156TG

API No. 30-015-28318

Release Date: June 21<sup>st</sup>, 2012

Unit Letter H, Section 3, Township 17S, Range 31E

#### Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241 Phone 575.393.2967

#### July 19<sup>th</sup>, 2013

#### **Mike Bratcher**

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

> RE: Termination Request 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. On June 21<sup>st</sup>, 2012, 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<sup>nd</sup>, 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. NM OSE and BLM records indicated that groundwater will be encountered at a depth of 188 ft.

On August 6<sup>th</sup> and 21<sup>st</sup>, 2012, RECS personnel collected samples at depth from 4 points within the release area (Vertical #1 through Vertical #4). The samples were field tested for chloride and headspace measurements were also taken in the field using a Photo Ionization Detector (PID). The samples were submitted to a commercial laboratory for chloride and TPH (GRO/DRO) analyses.

On September 17<sup>th</sup>, 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. 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. Excavated soils were removed to a NMOCD approved disposal facility.

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

A Corrective Action Plan (CAP) was submitted on October 24<sup>th</sup>, 2012 to NMOCD and BLM. The plan was again submitted to BLM on May 3<sup>rd</sup>, 2013. The CAP was approved on May 3<sup>rd</sup>, 2013. The plan described the vertical sampling conducted at the site and proposed further actions to remediate the site. RECS proposed to excavate the entire area to 3 ft below ground surface with excavation side wall samples not to exceed 1000 mg/kg chloride. Grab samples taken from the excavation bottom and sidewalls would be submitted to a commercial laboratory for chloride and TPH analysis. Excavated soils will be removed to a NMOCD approved disposal facility. The excavation would be backfilled with clean, imported soil and the top two feet of the excavation would be contoured to the surrounding landscape and then re-seeded with BLM seed mix #2 and #4 in a 50/50 mix.

Beginning on May  $20^{th}$ , 2013, RECS personnel were on site to begin excavating. The site was excavated to 34 ft x 138 ft x 3 ft deep (Figure 1). The excavated soil was disposed of at a NMOCD approved facility. Final grab samples were taken from the walls and bottom of the excavation and taken to a commercial laboratory for analysis (Appendix B). The final sampling data was sent to BLM on June  $3^{rd}$ , 2013 and BLM approved the site to be backfilled on June  $10^{th}$ , 2013.

Clean caliche and top soil were imported to the site serve as backfill. The site was backfilled with the caliche to 2 ft bgs and the remainder of the excavation was backfilled with the top soil. The site was contoured to the surrounding location and was seeded with a 50/50 mix of BLM seed mix #2 and #4 on July 16<sup>th</sup>, 2013.

Photo documentation of these activities can be found in Appendix C.

Due to the removal of impacted soils as approved by the Corrective Action Plan and given the depth of groundwater at the site, RECS, on behalf of Linn Energy, submits the final C-141 (Appendix D) 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 Hack Conder at (575) 393-9174 or me if you have any questions or wish to discuss the site.

.

Sincerely,

JC.W.

Lara Weinheimer Project Scientist RECS (575) 441-0431

Attachments:

Figure 1 – Excavation Map Appendix A – Initial C-141 Appendix B – Laboratory Analyses Appendix C – Photo Documentation Appendix D – Final C-141

# Figures

RICE Environmental Consulting and Safety (RECS) P.O. Box 2948, Hobbs, NM 88241 Phone 575.393.2967

### Excavation

Excavation 34' x 138' x 3'

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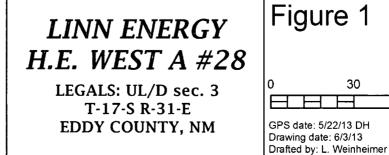
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Feet

#### **Excavation Sampling Data**

Sample Description	Lab Cl-	GRO	DRO	В	Т	Ε	Х	
North Wall West End	288	<10	<10	<0.05	<0.05	<0.15	<0.3	DGW = 188 ft
North Wall East End	240	<10	<10	<0.05	<0.05	<0.15	<0.3	Landowner = BLM
South Wall East End	<16	<10	<10	<0.05	<0.05	<0.15	<0.3	
South Wall West End	32	<50	<50	<0.05	<0.05	<0.15	<0.3	Legend
West Wall	432	<50	157	<0.05	<0.05	<0.15	<0.3	EXCAVATION
East Wall	128	<10	<10	<0.05	<0.05	<0.15	<0.3	ABOVE GROUND POLY
Bottom @ 3'	432	<50	396	<0.05	<0.05	<0.15	<0.3	AD AREA (679 sq ft)
					Source Getma	e; Esri, Digi pping, Aero	talGlobe, C grid, IGN,	NON-AD AREA





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625 N French Dr. Hobbs NM 88240	e of New N			UL <b>02</b> 20	112	Form C-14	
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District IV 1220 S		uth St. Francis Dr.					
220 S St. Francis Dr., Santa Fe, NM 87505 San	ta Fe, NM	87505					
Release Notifica	tion and	Correcti	ive Acti	on			
nJMW 1219 439 454		RATOR		🛛 Initi	al Report	🔲 Final Rep	
Name of Company: Linn Operating 269324 Address: 2130 W. Bender Hobbs, NM 88240		: Joe Hernan one No.: 575-					
Facility Name: HE West A 28		Type: Oil	-/30-1/39				
	vner: Federal			ADIN	. 2001500	210	
					b.: 3001528	3318	
	TION OF North/South I	RELEASE		nst/West Line	County		
Unit LetterSectionTownshipRangeFeet from theH0317S31E1980	North	50		East	County	Eddy	
Latitude: 32.	86533 Long	itude: -103.8	34987				
	URE OF R						
Type of Release Oil / Produced Water Source of Release: Polyline		nc of Release: and Hour of O			Recovered Hour of Dis		
-	06/21	/2012 2pm			12 2:30pm		
Was Immediate Notice Given?		S, To Whom?		Gregston- BL	м		
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Was a Watercourse Reached?		S, Volume Im					
🗌 Yes 🖾 No							
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## Appendix B Laboratory Analyses

RICE Environmental Consulting and Safety (RECS) P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967



June 03, 2013

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

RE: H. E. WEST A #028 EVENT #NU12156TG

Enclosed are the results of analyses for samples received by the laboratory on 05/24/13 9:45.

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> 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> 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> 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> 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.

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,

Celeg D. Keine

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:	05/24/2013	Sampling Date:	05/23/2013
Reported:	06/03/2013	Sampling Type:	Soil
Project Name:	H. E. WEST A #028 EVENT #NU12156T@	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: N WALL W END CENTER (H301238-01)

BTEX 8021B	mg/kg Analyzed By: AP			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2013	ND	2.23	111	2.00	4.36	
Toluene*	<0.050	0.050	05/29/2013	ND	2.00	100	2.00	4.37	
Ethylbenzene*	<0.050	0.050	05/29/2013	ND	2.21	110	2.00	4.14	
Total Xylenes*	<0.150	0.150	05/29/2013	ND	6.21	104	6.00	5.03	
Total BTEX	<0.300	0.300	05/29/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE 105 % 89.4-126

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/24/2013	ND	432	108	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	05/24/2013	ND	208	104	200	4.46	
DRO >C10-C28	<10.0	10.0	05/24/2013	ND	202	101	200	5.94	
Surrogate: 1-Chlorooctane	101	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	108	% 63.6-15	4						

#### 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 claims, including those for negligence and induction, business interruptoons, 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 claims based in any other babve stated reasons or otherwise. Results relate only to the samples identified above. This reproduced except in full with intern approval of cardinal Laboratories.

Celey D. Kune

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:	05/24/2013	Sampling Date:	05/23/2013
Reported:	06/03/2013	Sampling Type:	Soil
Project Name:	H. E. WEST A #028 EVENT #NU12156T@	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: N WALL E END CENTER (H301238-02)

BTEX 80218	mg/kg Analyzed By: AP								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2013	ND	2,23	111	2.00	4.36	
Toluene*	<0.050	0.050	05/29/2013	ND	2.00	100	2.00	4.37	
Ethylbenzene*	<0.050	0.050	05/29/2013	ND	2.21	110	2.00	4.14	
Total Xylenes*	<0.150	0.150	05/29/2013	ND	6.21	104	6.00	5.03	
Total BTEX	<0.300	0.300	05/29/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 106 % 89.4-126

Chloride, SM4500CI-B	mg/kg		Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/24/2013	ND	432	108	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	05/24/2013	ND	208	104	200	4.46	
DRO >C10-C28	<10.0	10.0	05/24/2013	ND	202	101	200	5.94	
Surrogate: 1-Chlorooctane	110	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	120	% 63.6-15	4						

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Celey D. Kune

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:	05/24/2013	Sampling Date:	05/23/2013
Reported:	06/03/2013	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: S WALL E END CENTER (H301238-03)

BTEX 8021B	mg,	mg/kg		d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2013	ND	2.23	111	2.00	4.36	
Toluene*	<0.050	0.050	05/29/2013	ND	2.00	100	2.00	4.37	
Ethylbenzene*	<0.050	0.050	05/29/2013	ND	2.21	110	2.00	4.14	
Total Xylenes*	<0.150	0.150	05/29/2013	ND	6.21	104	6.00	5.03	
Total BTEX	<0.300	0.300	05/29/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 106% 89.4-126

Chloride, SM4500CI-B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/24/2013	ND	432	108	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	05/24/2013	ND	208	104	200	4.46	
DRO >C10-C28	<10.0	10.0	05/24/2013	ND	202	101	200	5 <b>.</b> 94	
Surrogate: 1-Chlorooctane	106	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	116	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	05/24/2013	Sampling Date:	05/23/2013
Reported:	06/03/2013	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: S WALL W END CENTER (H301238-04)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					<u></u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2013	ND	2.26	113	2.00	0.925	
Toluene*	<0.050	0.050	05/31/2013	ND	2.04	102	2.00	0.931	
Ethylbenzene*	<0.050	0.050	05/31/2013	ND	2.21	111	2.00	1.31	
Total Xylenes*	<0.150	0.150	05/31/2013	ND	6.45	108	6.00	0.622	
Total BTEX	<0.300	0.300	05/31/2013	ND		1			

Surrogate: 4-Bromofluorobenzene (PIL 105 % 89.4-126

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					<u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/24/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	05/24/2013	ND	208	104	200	4.46	
DRO >C10-C28	<50.0	50.0	05/24/2013	ND	202	101	200	5.94	
Surrogate: 1-Chlorooctane	103	% 65.2-14	0	· · · · · · · · · · · · · · · · · · ·					<u> </u>
Surrogate: 1-Chlorooctadecane	113	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	05/24/2013	Sampling Date:	05/23/2013
Reported:	06/03/2013	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: W WALL CENTER (H301238-05)

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	05/31/2013	ND	2.26	113	2.00	0.925	
Toluene*	<0.050	0.050	05/31/2013	ND	2.04	102	2.00	0.931	
Ethylbenzene*	<0.050	0.050	05/31/2013	ND	2,21	111	2.00	1.31	
Total Xylenes*	<0.150	0.150	05/31/2013	ND	6.45	108	6.00	0.622	
Total BTEX	<0.300	0.300	05/31/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 108 % 89.4-126

Chloride, SM4500Cl-B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	05/24/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	05/28/2013	ND	213	107	200	4.25	
DRO >C10-C28	157	50.0	05/28/2013	ND	206	103	200	6.51	
Surrogate: 1-Chlorooctane	93.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	116	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	05/24/2013	Sampling Date:	05/23/2013
Reported:	06/03/2013	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: E WALL CENTER (H301238-06)

BTEX 8021B	mg,	/kg	Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2013	ND	2.26	113	2.00	0.925	
Toluene*	<0.050	0.050	05/31/2013	ND	2.04	102	2.00	0.931	
Ethylbenzene*	<0.050	0.050	05/31/2013	ND	2.21	111	2.00	1.31	
Total Xylenes*	<0.150	0.150	05/31/2013	ND	6.45	108	6.00	0.622	
Total BTEX	<0.300	0.300	05/31/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 109 % 89.4-126

Chloride, SM4500CI-B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/24/2013	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/28/2013	ND	213	107	200	4.25	
DRO >C10-C28	<10.0	10.0	05/28/2013	ND	206	103	200	6.51	
Surrogate: 1-Chlorooctane	100	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	107	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	05/24/2013	Sampling Date:	05/23/2013
Reported:	06/03/2013	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: BOTTOM CENTER @ 3' (H301238-07)

BTEX 8021B mg/kg		/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2013	ND	2.26	113	2.00	0.925	
Toluene*	<0.050	0.050	05/31/2013	ND	2.04	102	2.00	0.931	
Ethylbenzene*	<0.050	0.050	05/31/2013	ND	2.21	111	2.00	1.31	
Total Xylenes*	<0.150	0.150	05/31/2013	ND	6.45	108	6.00	0.622	
Total BTEX	<0.300	0.300	05/31/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC 110 % 89.4-126

Chloride, SM4500Cl-B	mg.	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	05/24/2013	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	05/28/2013	ND	213	107	200	4.25	
DRO >C10-C28	396	50.0	05/28/2013	ND	206	103	200	6.51	
Surrogate: 1-Chlorooctane	105	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	143	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



#### **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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 9 of 10

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

#### ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name: RECS							BILL TO ANALYSIS REQUEST															
Project Manager: BRUCE BAKER							P.O. #:								Texas TPH	Cations/Anions				· ·		
Address:							Company:							втех								
City: State: NM Zip: 88240							Attn:															
Phone #: Fax #:						Address:					]									· .		
Project #: FUMT #NU12/56TG Project Owner:						City:						8015 M										
Project Name: H.E.WEST A #28 A.D.						State: Zip:					Chlorides											
Project Location:					+	Phone #:							TDS									
Sampler Name: DAKSTON HARRIS						Fax #:											•.					
FOR LAB USE ONLY MATRIX				the second s	RESI	ERV.	SAMPLI	NG	15	H		e l	r 1	-								
Lab I.D. H <i>301238</i>	Sample 1.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER SOIL	OIL	SLUDGE	OTHER :	ICE / COOL	OTHER :	DATE	TIME		F		L	Complete					
1	NORTH WALL W.END CENTER	G	1	L	$\checkmark$	1			$\checkmark$		5/23/13	10:25	$\checkmark$	1	1							
2	NORTH WALL E.END CENTER	6	1		$\checkmark$				$\checkmark$		5/23/13	10:24	1	1	1							
3	SOUTH WALL E.END CENTER	6	1			1			$\checkmark$	<u> </u>	5/23/13	10:35	1	1	1							
4	SOUTH WALL W. END CENTER	6	1		<ul> <li>✓</li> </ul>	1			$\checkmark$		5/23/13	10:40	$\checkmark$	1	1				· ·			
5	WEST WALL CENTER	G	1			1			$\checkmark$		5/23/13	10:45	1	1	1							
6	EAST WALL CENTER	G	1						1		5/23/13	10:50	1	1	1							
7	BOTTOM CENTER @ 3'	6	1	L	1				$\checkmark$		5/23/13	10:55	1	1	1							
				L									l	:								
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		1	Í											ł	1					1 7	1 1	1 1

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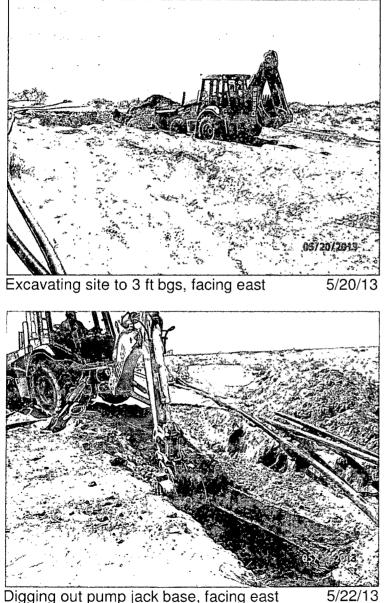
Relinquished By:	3124113 R	lefeived By:	Phone Result:
Cother Hang	19:45	Dal Henson	REMARKS:
Relinquished By:	Date:	eceived By:	email results
	Time:		
Delivered By: (Circle One)		Sample Condition CHECKED/BY:	Zconder@rice-ecs.com; Bbaker@rice-ecs.com;
Sampler - UPS - Bus - Other:		Cool Infact (Minute Ves Ves	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com

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

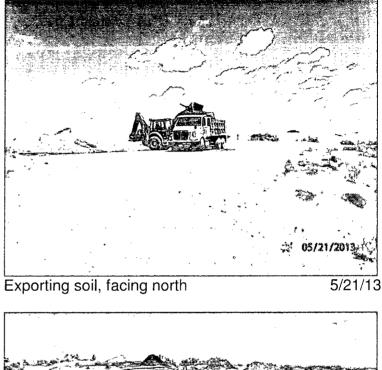
# $\underset{\text{Photo Documentation}}{\text{Appendix } \mathbb{C}}$

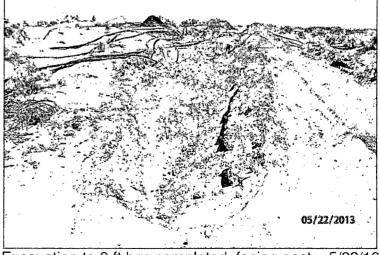
RICE Environmental Consulting and Safety (RECS) P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967

## Linn Energy West A #28 Unit Letter D, Section 3, T17S R31E

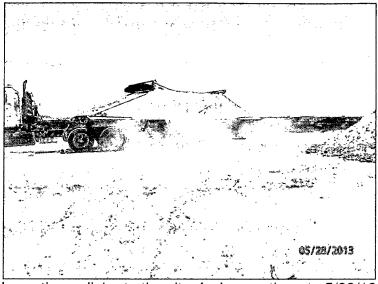


Digging out pump jack base, facing east

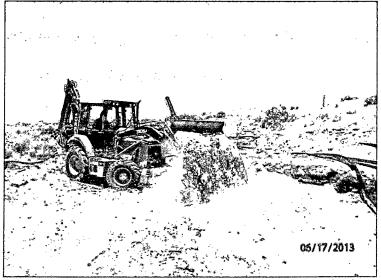




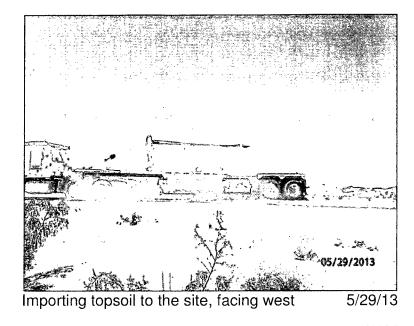
Excavation to 3 ft bgs completed, facing east 5/22/13

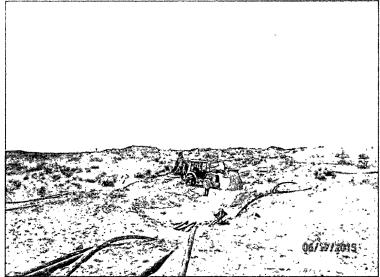


Importing caliche to the site, facing southeast 5/28/13

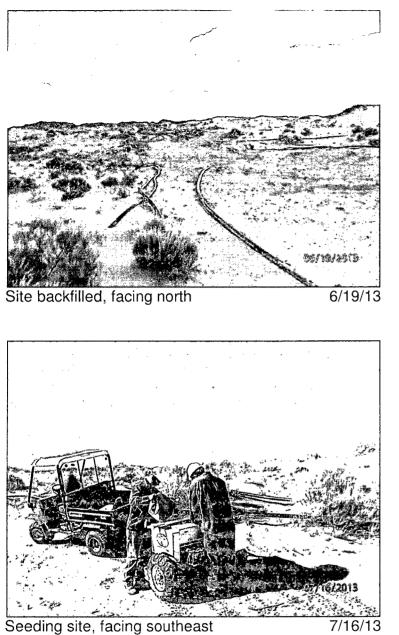


Backfilling the site with clean, imported caliche, facing southwest 6/17/13

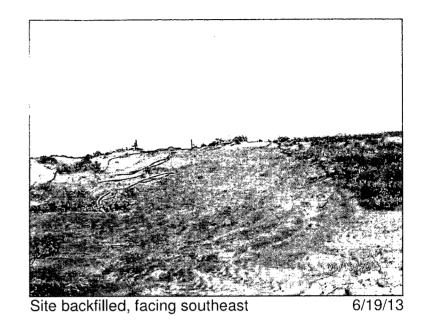


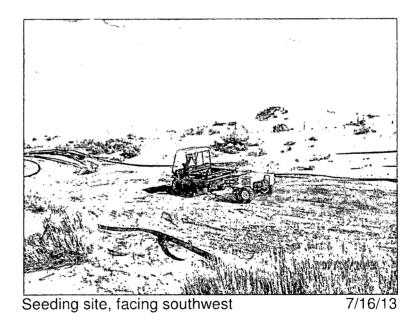


Backfilling the site with clean, imported topsoil, facing northwest 6/17/13



Seeding site, facing southeast





## Appendix D Final C-141

RICE Environmental Consulting and Safety (RECS) P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967

e e e e e e e e e e e e e e e e e e e										
District ISta1625 N. French Dr., Hobbs, NM 88240Energy MinDistrict IIEnergy Min	te of New Mexico	f New Mexico <b>RECEIVED</b> Form C-141 s and Natural Resources Form C-141 Revised August 8, 2011								
811 S. First St., Artesia, NM 88210	onservation Division									
1000 Rio Prizzo Road, Arton NM 87410		ervation Division JUL <b>3</b> Sub2013 Copy to appropriate District Office in accordance with 19.15:29 NMAC. Fe, NM 87505								
1220 S. St. Francis Dr., Santa Fe, NM 87505	AOCD ARTES									
Release Notification and Corrective Action										
	OPERATOR		nitial Report 🛛 Final Report							
Name of Company         Linn Operating           Address         2130 W. Bender, Hobbs, NM 88240		Contact Gary Wink Telephone No. (575) 738-1739								
Address     2130 W. Bender, Hobbs, NM 88240     Telephone No. (5/5) /38-1/39       Facility Name     HE West A 28     Facility Type										
		ADI	No. 2001529219							
	wner BLM	· · · · · · · · · · · · · · · · · · ·								
		DN OF RELEASE           h/South Line         Feet from the         East/West Line         County								
Sint Letter Section Township Range Teet non-the		Last west Er								
H 3 17S 31E 1980	FNL 50	95 FEL	Eddy							
Latitude <u>32.86533</u> Longitude <u>-103.84987</u>										
	URE OF RELEASE									
Type of Release         Oil/Produced Water           Source of Release         Polyline	Volume of Release Date and Hour of Oc		ne Recovered 0 bbls							
	6/21/12 2:00 pm		12 2:30 pm							
Was Immediate Notice Given?		If YES, To Whom? d M. Bratcher – NMOCD; T. Gregston – BLM								
By Whom? Joe Hernandez	·	Date and Hour 6/22/12								
Was a Watercourse Reached?		If YES, Volume Impacting the Watercourse.								
Yes X No										
If a Watercourse was Impacted, Describe Fully.*										
Describe Cause of Problem and Remedial Action Taken.*		<u>.</u>								
The pumper was checking wells when he spotted a 3" poly leaking	out in the pasture. He put a p	ipe clamp on the line a	ind shut in the well.							
Describe Area Affected and Cleanup Action Taken.*		· · · · · · · · · · · · · · · · · · ·								
The release affected 679 sq ft of pasture land. On August 6 <sup>th</sup> and 2 The samples were submitted to a commercial laboratory for chlorid										
additional vertical sample trenches. Soil samples were collected at	every foot. The samples were	e field tested, and subr	nitted to a laboratory for chloride,							
TPH, and BTEX analyses. Excavated soils were removed to a NM NMOCD on October 24 <sup>th</sup> , 2012 to NMOCD and BLM. The plan v										
2013. Beginning on May 20 <sup>th</sup> , 2013, RECS personnel were on site	to begin excavating. The site	was excavated to 34 f	t x 138 ft x 3 ft deep. The							
excavated soil was disposed of at a NMOCD approved facility. Fin	hal grab samples were taken fi	om the walls and botte	om of the excavation and taken to a							
commercial laboratory for analysis. The final sampling data was so 2013. Clean caliche and top soil were imported to the site serve as										
excavation was backfilled with the top soil. The site was contoured										
#4 on July 16 <sup>th</sup> , 2013. I hereby certify that the information given above is true and comple	to to the heat of my knowled	and understand that	numerate NMOCD rules and							
regulations all operators are required to report and/or file certain re										
public health or the environment. The acceptance of a C-141 report	t by the NMOCD marked as "	Final Report" does no	t 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 according to a fact reliance the environment of a contamination of a										
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.										
	OIL	CONSERVATIO	ON DIVISION							
Signature: Hary We Wink										
Printed Name: Gary Wink	Approved by Environn	Approved by Environmental Specialist:								
Title: Production Foreman	Approval Date:	Evniro	ion Date:							
		Approval Date: Expiration E								
E-mail Address: gawink@linnenergy.com	Conditions of Approva	1:	Attached							
Date: 7 19 13 Phone: (575) 738-1739										

\* Attach Additional Sheets If Necessary