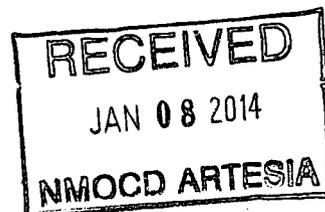


LINN ENERGY

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



HE West B #4 Battery – West B 38
2RP-1864

Termination Request

API No. 3001526001

Release Date: August 16th, 2013

Unit Letter F, Section 10, Township 17S, Range 31E

Rice Environmental Consulting & Safety

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

January 8th, 2013

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 Report and Termination Request
Linn Energy – HE West B #4 Battery – West B 38 (2RP-1864)
UL/F sec. 10 T17S R31E
API No. 3001526001**

Mr. Bratcher:

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

Background and Previous Work

The site is located approximately 7.4 miles northeast of Loco Hills, New Mexico at UL/F sec. 10 T17S R31E. This site is in an area of no known groundwater.

On August 16th, 2013, the flow line from the West B 41 to the West B #4 Tank Battery developed a pin hole and released 5 gallons of produced water and 5 gallons of oil. None of this fluid was recovered. The pin hole sprayed fluid over 1,126 square feet. BLM was notified of the release on August 19th, 2013 and an initial C-141 was approved by NMOCD on August 26th, 2013 (Appendix A).

Beginning on August 23rd, 2013, RECS personnel were on site to assess the release. Four points within the release were sampled at the surface and three of the points were sampled with depth (Figure 1). The samples were field tested for chlorides and for organic vapors using a PID meter. The samples were taken to a commercial laboratory for analysis (Appendix B). Points 1, 2 and 4 returned laboratory chloride readings below 1,000 mg/kg at 6 inches bgs and Point 3 returned a laboratory chloride reading below 1,000 mg/kg at the surface. Gasoline Range Organics (GRO) and BTEX readings at all points at all depths were non-detect. Diesel Range Organics (DRO) readings were below regulatory standards except for Point 1 at the surface and Point 2 at the surface and at 6 inches.

On September 9th, 2013 a Corrective Action Plan (CAP) was submitted to NMOCD and BLM. NMOCD approved the CAP on October 10th, 2013 and BLM approved the CAP on September 26th, 2013. The CAP recommended that the entire site be scraped down 6 inches and the soil taken to a NMOCD approved facility for disposal. The site would then be backfilled with clean, imported soil and contoured to the surrounding location.

Soil amendments would be added to the imported soil as necessary and the site would then be seeded with a blend of native vegetation. Vegetation provides an infiltration barrier for the site, since plants capture water through their roots thereby reducing the amount of water traveling through the vadose zone to groundwater.

Corrective Action Plan Report

On November 7th, 2013, RECS personnel were on site to begin the corrective actions. The entire release area was scraped down 6 inches and a total of 56 yards was exported to a NMOCD approved facility. 36 yards of clean soil was imported to the site to serve as backfill. A sample of the backfill was taken to a commercial laboratory and returned a chloride value of non-detect (Appendix C). The site was backfilled and contoured to the surrounding location. On November 14th, 2013, soil amendments were added to the soil and the site was seeded with LPC mix.

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

Given that the corrective actions as approved by NMOCD and BLM have been completed, Linn respectfully requests 'remediation termination' and site closure. The final C-141 can be found in Appendix E.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,



Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

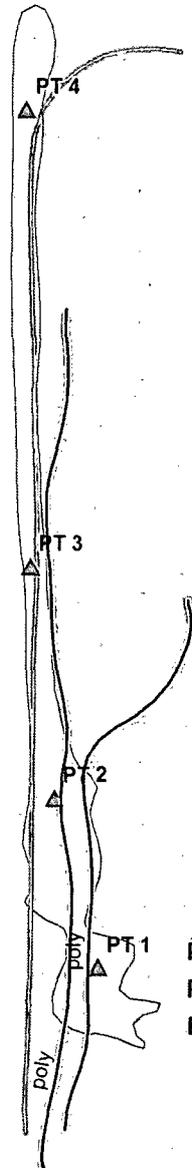
Attachments:

- Figure 1 – Initial Sampling Data
- Appendix A – Initial C-141
- Appendix B – Initial Sampling Lab
- Appendix C – Imported Soil Lab
- Appendix D – Photo Documentation
- Appendix E – Final C-141

Figures

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

Initial Sampling Data



	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Point 4 Surface	1090	17.2	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
Point 4 @ 6"	304	3.3	<10	321	<0.05	<0.05	<0.05	<0.15	<0.3

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Point 3 Surface	96	69.2	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Point 2 Surface	6660	37.6	<100	17000	<0.2	<0.2	<0.2	<0.6	<1.2
Point 2 @ 6"	656	41.3	<100	7070	<0.05	<0.05	<0.05	<0.15	<0.3
Point 2 @ 1'	768	12.9	<10	749	<0.05	<0.05	<0.05	<0.15	<0.3

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Point 1 Surface	7060	14.2	<100	8090	<0.05	<0.05	<0.05	<0.15	<0.3
Point 1 @ 6"	80	18.1	<10	11.7	<0.05	<0.05	<0.05	<0.15	<0.3
Point 1 @ 1'	160	12.5	<10	25.1	<0.05	<0.05	<0.05	<0.15	<0.3

Legend

- ▲ SAMPLE POINT
- ROADWAY
- SURFACE PIPELINE
- STAIN (1126 sq ft)

CI- FIELD DATA
 CI- LAB DATA

Landowner = BLM

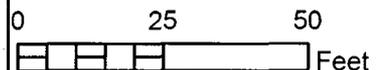
DGW = None



**LINN H.E. WEST B
 #4 BATTERY-WEST
 B 38 (2RP-1864)**

LEGALS: UL/F, SEC 10
 T17S - R31E
 EDDY COUNTY, NM

Figure 1



GPS date: 8/23/2013 KS
 Drawing date: 9/5/13
 Drafted by: L. Weinheimer

Appendix A

Initial C-141

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

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
AUG 22 2013
Submitted to appropriate District Office in accordance with 19.1.29 NMAC
NMOC D ARTESIA

Form C-141
Revised October 10, 2003

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

JM 1323837931

Name of Company: Linn Operating: <i>269324</i>	Contact: Brian Wall
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No.: 575-738-1739
Facility Name: HE West B #4 Battery West B 38	Facility Type: Battery
Surface Owner: Federal	Mineral Owner:
API No.: 3001526001	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	10	17S	31E	2085	North	1980	West	Eddy

Latitude: 32.850600037686 Longitude: -103.859729591584

NATURE OF RELEASE

Type of Release: Produced Water / Oil	Volume of Release: 5 gal / 5 gal	Volume Recovered: 0/0
Source of Release: Poly Pipeline	Date and Hour of Occurrence: 08/16/2013 7:00pm	Date and Hour of Discovery: 08/16/2013 7:00pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Burton BLM	
By Whom? Brian Wall	Date and Hour: 08/19/2013 2:00pm	
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: * Flowline from West B 41 had developed a pin hole going to the West B #4 Tank Battery on South Side of the battery. Possible cause fatigue. Line was repaired.

Describe Area Affected and Cleanup Action Taken: * A light spray of fluid developed. Area affected was 3 x 4 ft

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC D 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 NMOC D 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, NMOC D 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: <i>[Signature]</i>	OIL CONSERVATION DIVISION	
Printed Name: Brian Wall	Approved by District Supervisor:	Signed By: <i>[Signature]</i>
Title: Construction Foreman II	Approval Date: AUG 26 2013	Expiration Date:
E-mail Address: bwall@linnenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 08/20/13 Phone: 806-367-0645	Remediation per OCD Rule & Guidelines & like approval by BLM, SUBMIT REMEDIATION PROPOSAL NO LATER THAN:	

* Attach Additional Sheets If Necessary

279-1864
Sept 26, 2013



Appendix B

Initial Sampling Lab

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

September 03, 2013

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: H. E. WEST B #4 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/26/13 11:05.

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

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 HACK CONDER
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	08/26/2013	Sampling Date:	08/23/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 1 @ SURFACE (H302052-01)

BTEX 8260B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2013	ND	2.31	116	2.00	1.37		
Toluene*	<0.050	0.050	08/30/2013	ND	2.21	111	2.00	1.96		
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	2.11	106	2.00	3.06		
Total Xylenes*	<0.150	0.150	08/30/2013	ND	6.33	106	6.00	1.84		
Total BTEX	<0.300	0.300	08/30/2013	ND						

Surrogate: Dibromofluoromethane 103 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7060	16.0	08/30/2013	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: AR/							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<100	100	09/01/2013	ND	210	105	200	4.91			
DRO >C10-C28	8090	100	09/01/2013	ND	205	102	200	5.30			

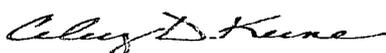
Surrogate: 1-Chlorooctane 91.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 343 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 HACK CONDER
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	08/26/2013	Sampling Date:	08/23/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 1 @ 6" (H302052-02)

BTEX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2013	ND	2.31	116	2.00	1.37	
Toluene*	<0.050	0.050	08/30/2013	ND	2.21	111	2.00	1.96	
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	2.11	106	2.00	3.06	
Total Xylenes*	<0.150	0.150	08/30/2013	ND	6.33	106	6.00	1.84	
Total BTEX	<0.300	0.300	08/30/2013	ND					

Surrogate: Dibromofluoromethane 100 % 61.3-142

Surrogate: Toluene-d8 98.8 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/30/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91	
DRO >C10-C28	11.7	10.0	08/30/2013	ND	205	102	200	5.30	

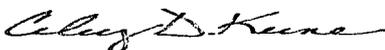
Surrogate: 1-Chlorooctane 93.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.4 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 HACK CONDER
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	08/26/2013	Sampling Date:	08/23/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 1 @ 1' (H302052-03)

BTEX 8260B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2013	ND	2.31	116	2.00	1.37		
Toluene*	<0.050	0.050	08/30/2013	ND	2.21	111	2.00	1.96		
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	2.11	106	2.00	3.06		
Total Xylenes*	<0.150	0.150	08/30/2013	ND	6.33	106	6.00	1.84		
Total BTEX	<0.300	0.300	08/30/2013	ND						

Surrogate: Dibromofluoromethane 104 % 61.3-142

Surrogate: Toluene-d8 98.1 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/30/2013	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91		
DRO >C10-C28	25.1	10.0	08/30/2013	ND	205	102	200	5.30		

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 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
 HACK CONDER
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	08/26/2013	Sampling Date:	08/23/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 2 @ SURFACE (H302052-04)

BTEX 8260B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	08/29/2013	ND	2.22	111	2.00	13.0		
Toluene*	<0.200	0.200	08/29/2013	ND	2.11	105	2.00	9.88		
Ethylbenzene*	<0.200	0.200	08/29/2013	ND	2.05	102	2.00	10.5		
Total Xylenes*	<0.600	0.600	08/29/2013	ND	6.12	102	6.00	9.59		
Total BTEX	<1.20	1.20	08/29/2013	ND						

Surrogate: Dibromofluoromethane 103 % 61.3-142

Surrogate: Toluene-d8 99.2 % 71.3-129

Surrogate: 4-Bromofluorobenzene 106 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6660	16.0	08/30/2013	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: AR/							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<100	100	09/01/2013	ND	210	105	200	4.91			
DRO >C10-C28	17000	100	09/01/2013	ND	205	102	200	5.30			

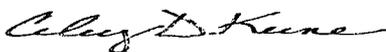
Surrogate: 1-Chlorooctane 95.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 872 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 HACK CONDER
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	08/26/2013	Sampling Date:	08/23/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 2 @ 6" (H302052-05)

BTEX 8260B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2013	ND	2.22	111	2.00	13.0		
Toluene*	<0.050	0.050	08/29/2013	ND	2.11	105	2.00	9.88		
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	2.05	102	2.00	10.5		
Total Xylenes*	<0.150	0.150	08/29/2013	ND	6.12	102	6.00	9.59		
Total BTEX	<0.300	0.300	08/29/2013	ND						

Surrogate: Dibromofluoromethane 101 % 61.3-142

Surrogate: Toluene-d8 100 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	08/30/2013	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: AR/							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<100	100	09/01/2013	ND	210	105	200	4.91			
DRO >C10-C28	7070	100	09/01/2013	ND	205	102	200	5.30			

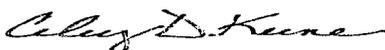
Surrogate: 1-Chlorooctane 96.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 235 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 HACK CONDER
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 08/26/2013
 Reported: 09/03/2013
 Project Name: H. E. WEST B #4 BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/23/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: POINT 2 @ 1' (H302052-06)

BTEX 8260B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2013	ND	2.22	111	2.00	13.0		
Toluene*	<0.050	0.050	08/29/2013	ND	2.11	105	2.00	9.88		
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	2.05	102	2.00	10.5		
Total Xylenes*	<0.150	0.150	08/29/2013	ND	6.12	102	6.00	9.59		
Total BTEX	<0.300	0.300	08/29/2013	ND						

Surrogate: Dibromofluoromethane 104 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 106 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	08/30/2013	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91		
DRO >C10-C28	749	10.0	08/30/2013	ND	205	102	200	5.30		

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 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
 HACK CONDER
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	08/26/2013	Sampling Date:	08/23/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 3 @ SURFACE (H302052-07)

BTEX 8260B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2013	ND	2.22	111	2.00	13.0		
Toluene*	<0.050	0.050	08/29/2013	ND	2.11	105	2.00	9.88		
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	2.05	102	2.00	10.5		
Total Xylenes*	<0.150	0.150	08/29/2013	ND	6.12	102	6.00	9.59		
Total BTEX	<0.300	0.300	08/29/2013	ND						

Surrogate: Dibromofluoromethane 103 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 106 % 65.7-141

Chloride, SM4500CI-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	08/30/2013	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91		
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	205	102	200	5.30		

Surrogate: 1-Chlorooctane 91.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.0 % 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
 HACK CONDER
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 08/26/2013
 Reported: 09/03/2013
 Project Name: H. E. WEST B #4 BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/23/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: POINT 4 @ SURFACE (H302052-08)

BTEX 8260B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2013	ND	2.22	111	2.00	13.0		
Toluene*	<0.050	0.050	08/29/2013	ND	2.11	105	2.00	9.88		
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	2.05	102	2.00	10.5		
Total Xylenes*	<0.150	0.150	08/29/2013	ND	6.12	102	6.00	9.59		
Total BTEX	<0.300	0.300	08/29/2013	ND						

Surrogate: Dibromofluoromethane 101 % 61.3-142

Surrogate: Toluene-d8 100 % 71.3-129

Surrogate: 4-Bromofluorobenzene 107 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	08/30/2013	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91		
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	205	102	200	5.30		

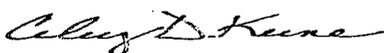
Surrogate: 1-Chlorooctane 94.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.3 % 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
 HACK CONDER
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	08/26/2013	Sampling Date:	08/23/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #4 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 4 @ 6" (H302052-09)

BTEX 8260B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2013	ND	2.22	111	2.00	13.0		
Toluene*	<0.050	0.050	08/29/2013	ND	2.11	105	2.00	9.88		
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	2.05	102	2.00	10.5		
Total Xylenes*	<0.150	0.150	08/29/2013	ND	6.12	102	6.00	9.59		
Total BTEX	<0.300	0.300	08/29/2013	ND						

Surrogate: Dibromofluoromethane 106 % 61.3-142

Surrogate: Toluene-d8 100 % 71.3-129

Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	08/30/2013	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91		
DRO >C10-C28	321	10.0	08/30/2013	ND	205	102	200	5.30		

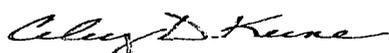
Surrogate: 1-Chlorooctane 98.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 130 % 63.6-154

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* = Accredited Analyte

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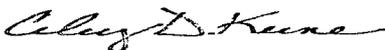
Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by 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

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Appendix C

Imported Soil Lab

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

December 17, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: H. E. WEST B #4 AD PASTURE

Enclosed are the results of analyses for samples received by the laboratory on 12/10/13 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	12/10/2013	Sampling Date:	12/10/2013
Reported:	12/17/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #4 AD PASTURE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 5 PT. COMP BACKFILL (H302981-01)

Chloride, SM4500Cl-B

mg/kg

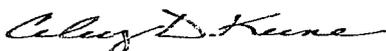
Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/16/2013	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

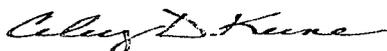
Notes and Definitions

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 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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Celey D. Keene, Lab Director/Quality Manager



CARDINAL 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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: RECS		BILL TO				ANALYSIS REQUEST																									
Project Manager: Jacob Kamplain		P.O. #:				Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS																				
Address:		Company:																													
City: Hobbs State: NM Zip: 88240		Attn:																													
Phone #: Fax #:		Address:																													
Project #: Project Owner:		City:																													
Project Name:		State: Zip:																													
Project Location: <i>H.E. West B#4 AD pasture</i>		Phone #:																													
Sampler Name: Kyle Schnaidt		Fax #:																													
FOR LAB USE ONLY																															
Lab I.D.	Sample I.D.	(GIRAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV																	SAMPLING									
				GROUNDWATER		DATE	TIME																								
<i>H302981</i>	<i>15 point Composite back 5-11</i>	<i>C1</i>	<i>1</i>	WASTEWATER		<i>12-10-13</i>	<i>2:00</i>																								
				SOIL																											
				OIL																											
				SLUDGE																											
				OTHER:																											
				ACID/BASE:																											
				ICE / COOL																											
				OTHER:																											

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Relinquished By: <i>Kyle Schnaidt</i>	Date: <i>12-10-13</i> Time: <i>4:15</i>	Received By: <i>Godi Henson</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Time:	Sample Condition	REMARKS:	
Sampler - UPS - Bus - Other:		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	email results Knorman@rice-ecs.com Kjones@riceswd.com; jkamplain@rice-ecs.com hconder@rice-ecs.com; Lweinheimer@rice-ecs.com	
		CHECKED BY: <i>JK</i>		

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

#54

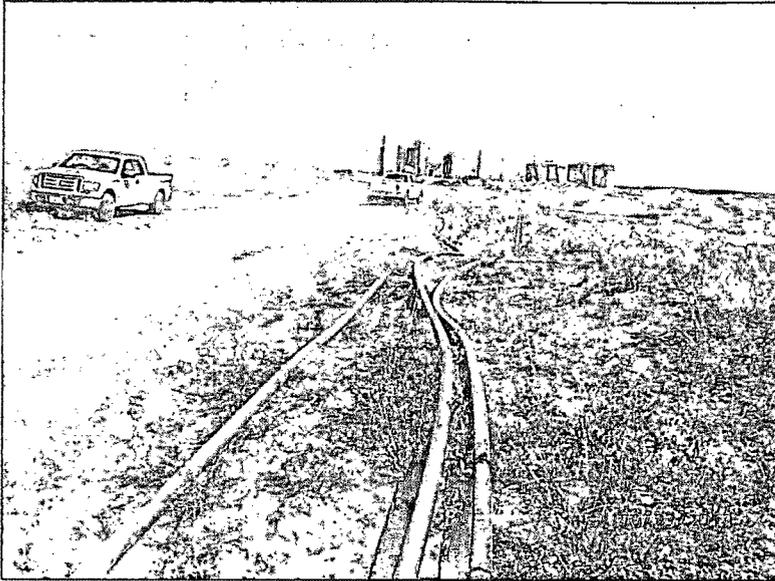
Appendix D

Photo Documentation

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

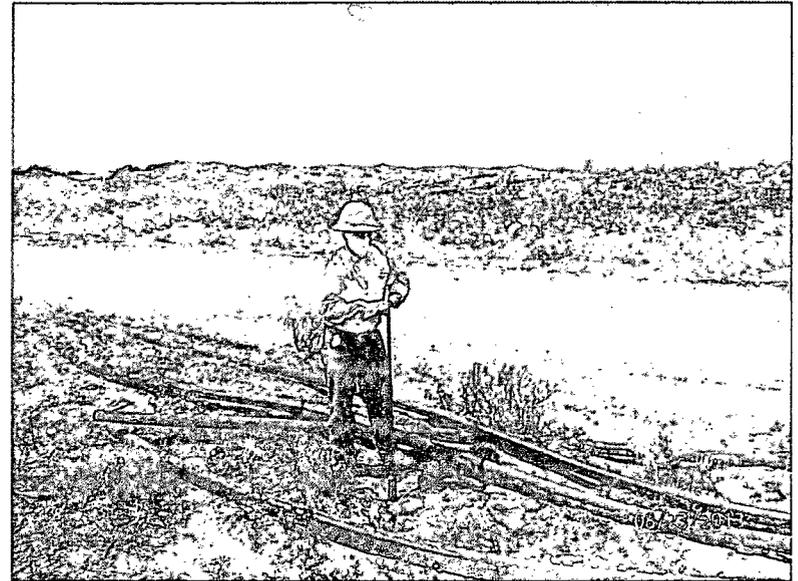
Linn H.E. West B #4 Battery – West B 38

Unit Letter F, Section 10, T17S, R31E



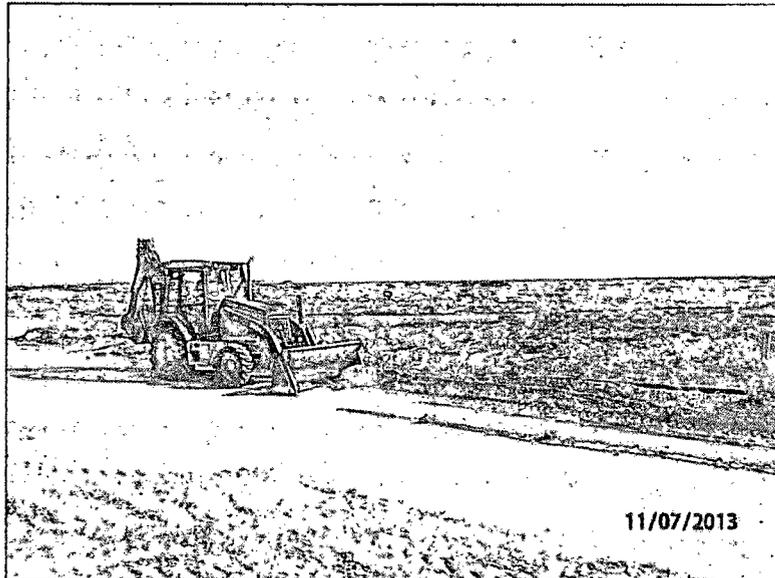
Initial release area, facing north

8/23/13



Hand auguring for depth, facing southwest

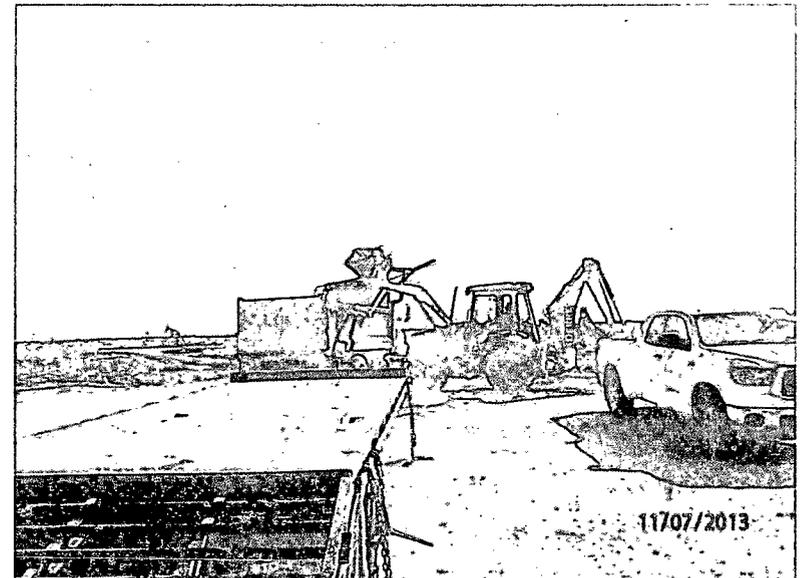
8/23/13



11/07/2013

Scraping the site, facing northeast

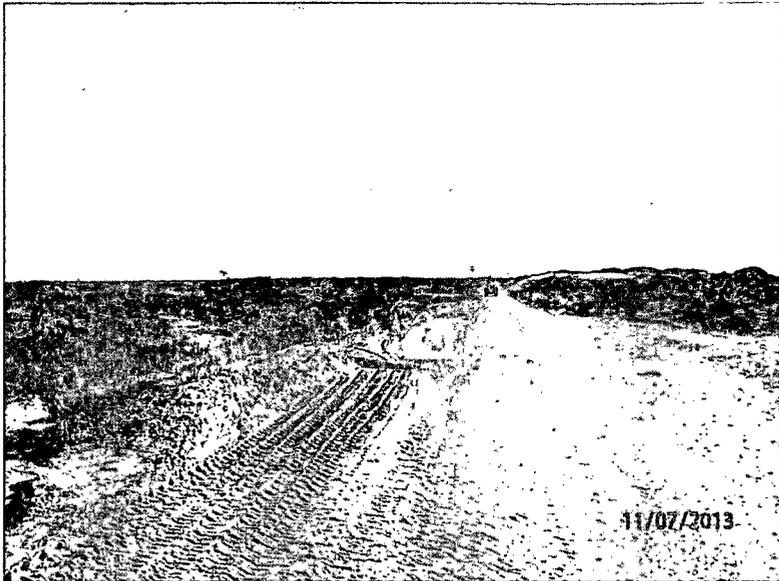
11/7/13



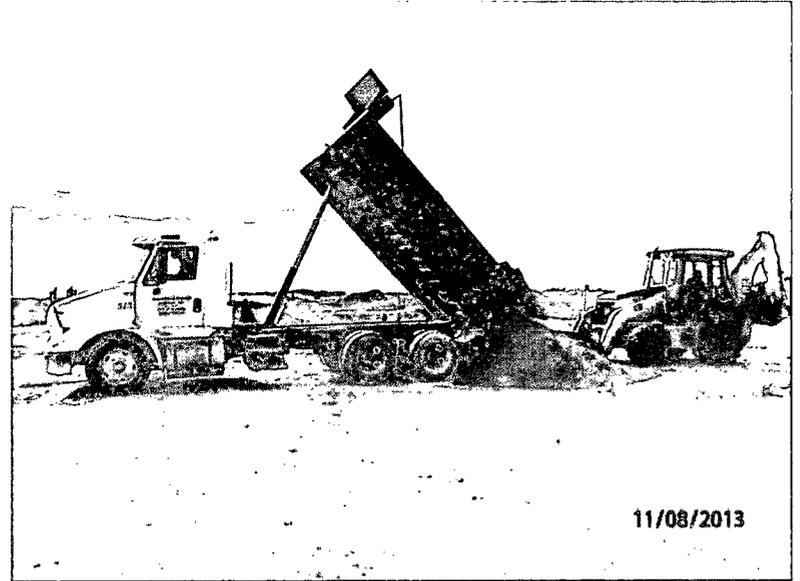
11/07/2013

Exporting soil, facing southeast

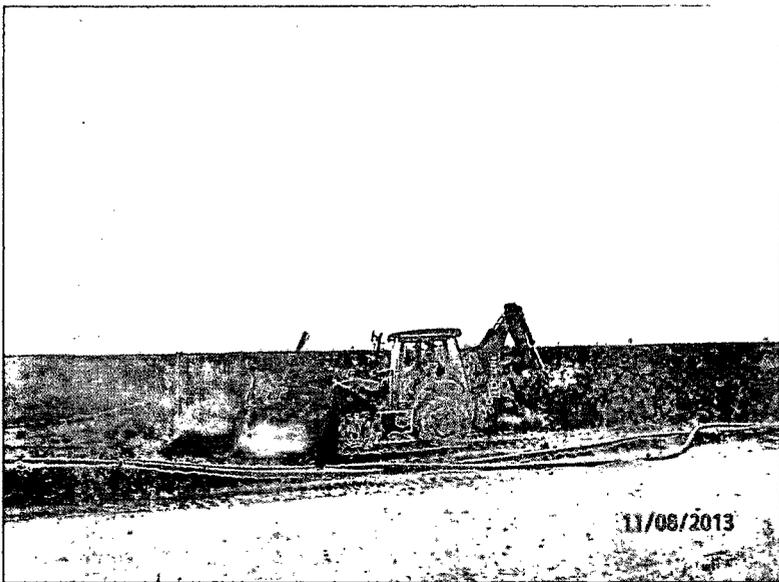
11/7/13



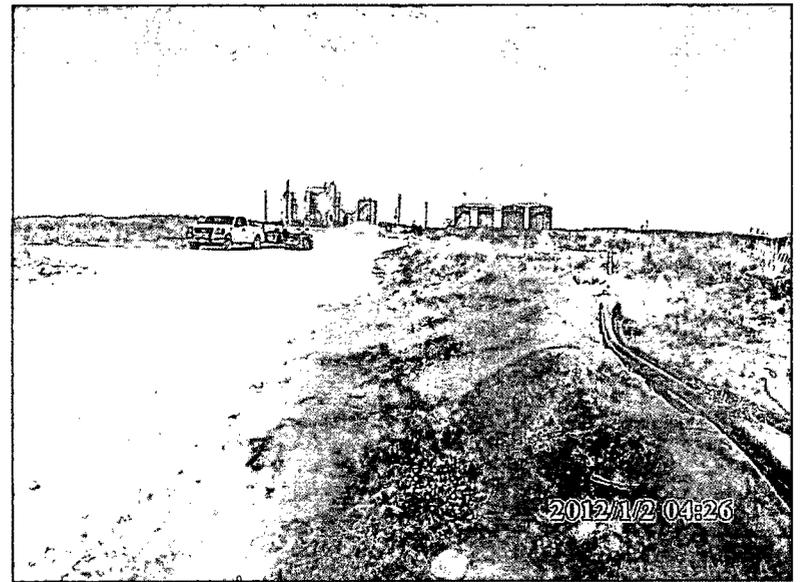
Excavation completed, facing south 11/7/13



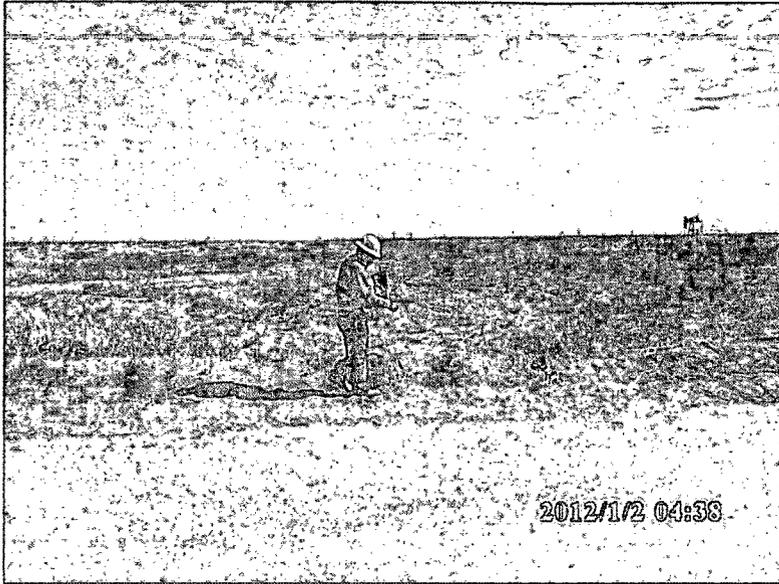
Importing soil, facing west 11/8/13



Backfilling site, facing east 11/8/13

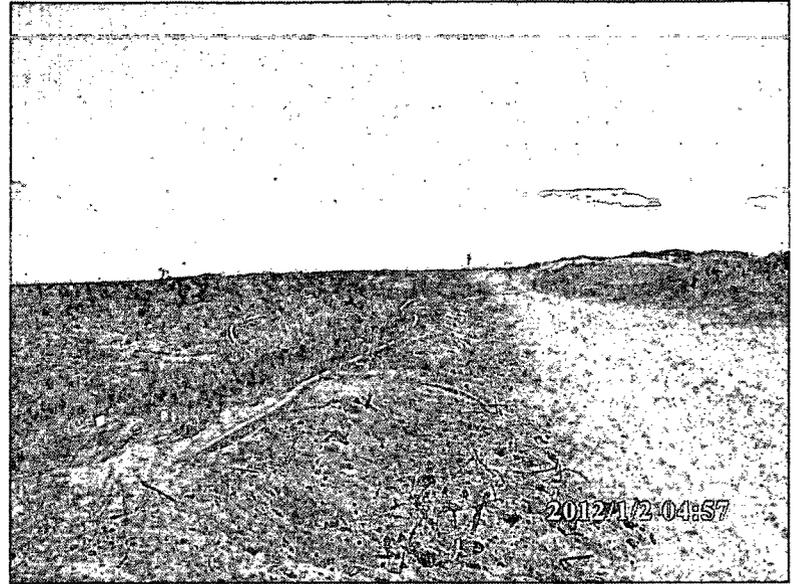


Soil amendments added, facing north 11/14/13



Seeding site, facing east

11/14/13



Site completed, facing south

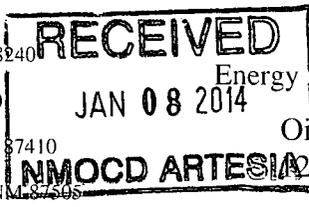
11/14/13

Appendix E

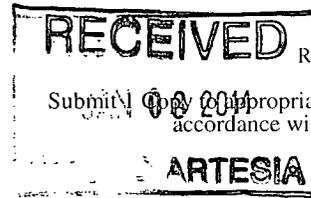
Final C-141

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

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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
20 South St. Francis Dr.
Santa Fe, NM 87505



Form C-141
Revised August 8, 2011
Submit by appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Linn Operating	Contact Brian Wall
Address 2130 W. Bender Blvd., Hobbs, NM 88240	Telephone No. (806) 367-0645
Facility Name HE West B #4 Battery – West B 38	Facility Type Battery

Surface Owner Federal	Mineral Owner Federal	API No. 3001526001
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	10	17S	31E	2085	North	1980	West	Eddy

Latitude 32.850600037686 Longitude -103.859729591584

NATURE OF RELEASE

Type of Release Produced Water/Oil	Volume of Release 5 gal/ 5 gal	Volume Recovered 0/0
Source of Release Poly Pipeline	Date and Hour of Occurrence 8/16/2013 7:00 pm	Date and Hour of Discovery 8/16/2013 7:00 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Burton - BLM	
By Whom? Brian Wall	Date and Hour 8/19/2013 2:00 pm	
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.*
Flow line from West B 41 had developed a pin hole going to the West B #4 Tank Battery on south side of battery. Possible cause fatigue. Line was repaired.

Describe Area Affected and Cleanup Action Taken.* The pin hole sprayed fluid over 1,126 square feet. Beginning on August 23rd, 2013, RECS personnel were on site to assess the release. Four points within the release were sampled at the surface and three of the points were sampled with depth. The samples were field tested for chlorides and for organic vapors using a PID meter. The samples were taken to a commercial laboratory for analysis. Points 1, 2 and 4 returned laboratory chloride readings below 1,000 mg/kg at 6 inches bgs and Point 3 returned a laboratory chloride reading below 1,000 mg/kg at the surface. Gasoline Range Organics (GRO) and BTEX readings at all points at all depths were non-detect. Diesel Range Organics (DRO) readings were below regulatory standards except for Point 1 at the surface and Point 2 at the surface and at 6 inches. On September 9th, 2013 a Corrective Action Plan (CAP) was submitted to NMOCD and BLM. NMOCD approved the CAP on October 10th, 2013 and BLM approved the CAP on September 26th, 2013. On November 7th, 2013, RECS personnel were on site to begin the corrective actions. The entire release area was scraped down 6 inches and a total of 56 yards was exported to a NMOCD approved facility. 36 yards of clean soil was imported to the site to serve as backfill. A sampled of the backfill was taken to a commercial laboratory and returned a chloride value of non-detect. The site was backfilled and contoured to the surrounding location. On November 14th, 2013, soil amendments were added to the soil and the site was seeded with LPC mix.

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: <i>Fred B Wall</i>	OIL CONSERVATION DIVISION	
Printed Name: Brian Wall	Approved by Environmental Specialist:	
Title: Construction Foreman II	Approval Date:	Expiration Date:
E-mail Address: Bwall@linenergy.com	Conditions of Approval:	
Date: 1-8-14	Phone: (806) 367-0645	Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

Bratcher, Mike, EMNRD

From: Burton, Michael <mburton@blm.gov>
Sent: Thursday, January 09, 2014 9:50 AM
To: Lara Weinheimer
Cc: Bratcher, Mike, EMNRD
Subject: Re: Termination Request for the Linn HE West B #4 Battery - West B 38 (2RP-1864)

Lara,
Your termination request is approved.
Tthanks

Mike Burton
BLM-CFO
Environmental Protection Specialist
575-234-2226 office
575-361-3574 cell
mburton@blm.gov

CONFIDENTIALITY NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Thank you.

On Wed, Jan 8, 2014 at 7:48 AM, Lara Weinheimer <lweinheimer@rice-ecs.com> wrote:

NU13129MB

Mike, attached is the Termination Request for the Linn HE West B #4 Battery – West B 38. If you have any questions, please let us know. Otherwise, we await your approval.

Thanks!

Lara Weinheimer

Rice Environmental Consulting & Safety

Project Scientist

419 West Cain

Hobbs, NM 88240

(575) 441-0431