

LINN ENERGY

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

HE West B #2 Battery/West B #88
2RP-1189

Corrective Action Plan

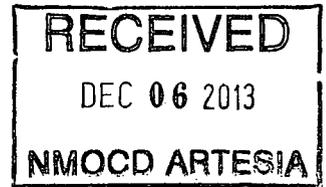
API No. 3001528537

Release Date: June 7th, 2012

Unit Letter D, Section 9, Township 17S, Range 31E

Rice Environmental Consulting & Safety

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



December 5th, 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 (CAP)
Linn Energy – HE West B #2 Battery/West B #88 (2RP-1189)
UL/D sec. 9 T17S R31E
API No. 3001528537
NU12136TG**

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 6.8 miles west of Maljamar, New Mexico at UL/D sec. 9 T17S R31E. This site is in an area of no known groundwater.

On June 7th, 2012, a valve failed in the battery releasing 8 barrels of oil and 2 barrels of produced water over 17,545 sq ft of battery and pasture land. None of this material was recovered. On June 13th, 2012, NMOCD and BLM were notified of the release. An initial C-141 was submitted to both agencies and NMOCD approved the C-141 on June 21st, 2012 (Appendix A).

Two other environmental companies worked this site previously to RECS taking over remediation activities. When RECS obtained the site, the battery had already been excavated to 1.5 – 3 ft bgs and a request to backfill the site had been approved by BLM on July 26th, 2013. As part of permission to backfill, BLM had a stipulation that Sample Point 1 needed to be delineated to find closure levels. The site was backfilled and contoured to the surrounding location.

RECS took over the project on August 27th, 2013. A vertical was attempted at Point 1 on September 17th, 2013; however installation was aborted when a fiberglass line was found below Point 1. On September 20th, 2013, RECS met with NMOCD and NMOCD stated that RECS needed to assess the release outside the bermed battery area. On September 25th, 2013, RECS met with BLM and BLM stated that the work was completed inside the battery and RECS needed to assess the release outside the battery. Both agencies required RECS to submit a CAP to remediate this area.

RECS sampled that area outside the battery on beginning on October 8th, 2013. Samples were taken from the surface at seven points within the release area outside the bermed battery and one sample, Point 7, was taken as background sample (Figure 1). The samples were field tested for chlorides and organic vapors and the samples were taken to a commercial laboratory for analysis (Appendix B). All the samples returned chloride values below 1,000 mg/kg, GRO values of non-detect and DRO values below regulatory standards, except for the background sample at Point 7, which returned a DRO value of 5,890 mg/kg.

Corrective Action Plan

Based on the laboratory analysis, all sampling outside the bermed battery is below regulatory standards. Therefore, this area will have soil amendments added as necessary and then the area will 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.

Once the CAP activities are completed, ROC will submit a report detailing the CAP activities and a request for 'remediation termination' or site closure.

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 – Laboratory Analyses

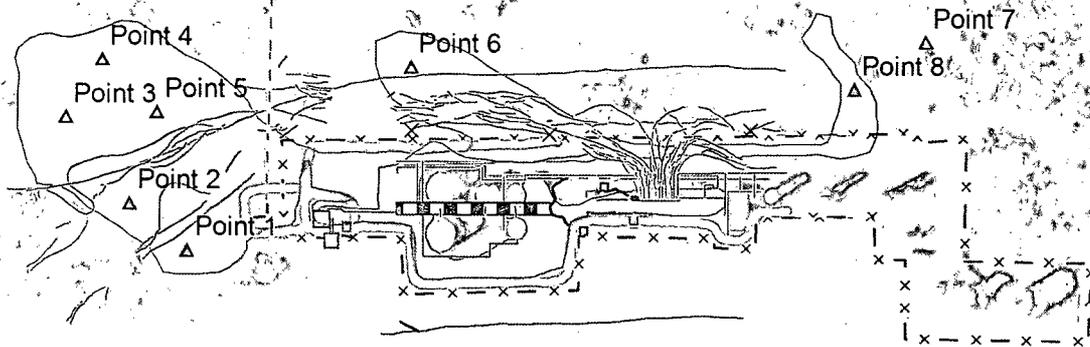
Figures

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

Initial Sampling Data

Sampling in Pasture Area

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
Point 1 Surface	<16	0.4	<10	1110	<0.05	<0.05	<0.05	<0.15	<0.3
Point 2 Surface	80	0.2	<10	2000	<0.05	<0.05	<0.05	<0.15	<0.3
Point 3 Surface	48	0.3	<10	2550	<0.05	<0.05	<0.05	<0.15	<0.3
Point 4 Surface	<16	0.5	<10	2440	<0.05	<0.05	<0.05	<0.15	<0.3
Point 5 Surface	448	3.5	<10	2470	<0.05	<0.05	<0.05	<0.15	<0.3
Point 6 Surface	16	0.2	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
Point 7 Surface	96	1.5	<200	5890	<0.05	<0.05	<0.05	<0.15	<0.3
Point 8 Surface	<16	1.9	<10	56.7	<0.05	<0.05	<0.05	<0.15	<0.3



Legend

- | | | |
|-------------------------------|----------------------|------------------------|
| ▲ SAMPLE POINTS | — ELECTRICAL PANEL | □ CHEMICAL TANK |
| □ CONTAINMENT | x - x FENCE | □ PUMP |
| ▣ CONTROL BOX | ○ PAD/ROAD EDGE | □ SEPARATOR |
| □ ELECTRICAL BOX | — PRODUCTION HEADER | □ STAIN (17,545 sq ft) |
| × PIPE END | — RISER | □ STORAGE TANK |
| — UNDERGROUND FIBERGLASS LINE | — STAIRS AND CATWALK | □ TREATER |
| — BERM | — SURFACE ELECTRIC | □ VALVE BOX |
| - - - BURIED PIPELINE | — SURFACE PIPELINE | |
| ▣ CROSSOVER | | |

CI- FIELD DATA
 CI- LAB DATA

Landowner = BLM DGW = None



LINN H. E. WEST B #2 BATTERY (2RP-1189)

UL D SECTION 9
 T-17-S R-31-E
 EDDY COUNTY, NM

Figure 1



0 50 100
 Feet

GPS date: 10/8/13 KS
 Drawing date: 11/1/13
 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

RECEIVED
JUN 21 2012
NMOCd ARTESIA

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

Form C-141
 Revised October 10, 2003
 Appropriate District Office in accordance with 19.15.29 NMAC

Release Notification and Corrective Action

JMW 1217356345 OPERATOR Initial Report Final Report

Name of Company: Limit Operating 269324	Contact: Joe Hernandez
Address: 2130 W. Bender, Hobbs, NM 88240	Telephone No.: 575-738-1739
Facility Name: HE West B # 2-Battery West B #88	Facility Type: Battery
Surface Owner: Federal	Mineral Owner: Federal
API No.: 3001528537	

LOCATION OF RELEASE:

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	09	17S	31E	1309	North	1310	West	Eddy

Latitude: 32.85273 Longitude: -103.87827

NATURE OF RELEASE

Type of Release: Oil / Produced Water	Volume of Release: 8 / 2	Volume Recovered: 0 / 0
Source of Release: Valve	Date and Hour of Occurrence: 06/07/2012 8:30am	Date and Hour of Discovery: 06/07/2012 9am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? M. Bratcher - NM OCD Terry Gregston - BLM	
By Whom? Joe Hernandez	Date and Hour: 06/13/2012	
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: 2" Top the production header was buried and		
Describe Area Affected and Cleanup Action Taken: Front header west toward and around production tanks. Delineation started by Etech OK'd by Terry - BLM to start cleanup.		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCd rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCd marked as Final Report does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCd acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Joe Hernandez	Approved by District Supervisor:	Signed By:
Title: Production Foreman	Approval Date: JUN 21 2012	Expiration Date:
Email Address: jhernandez@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 06/21/2012 Phone: 575-942-9492		

* Attach Additional Sheets If Necessary

Remediation per OCD Rules & Guidelines. **SUBMIT REMEDIATION PROPOSAL NOT LATER THAN: 7/21/12**

2RP-1189

Appendix B

Laboratory Analyses

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

October 11, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: H. E. WEST B #2 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/09/13 8:25.

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
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	10/09/2013	Sampling Date:	10/08/2013
Reported:	10/11/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 1 @ SURFACE (H302435-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2013	ND	1.97	98.6	2.00	4.07		
Toluene*	<0.050	0.050	10/10/2013	ND	1.99	99.3	2.00	4.73		
Ethylbenzene*	<0.050	0.050	10/10/2013	ND	2.01	100	2.00	4.36		
Total Xylenes*	<0.150	0.150	10/10/2013	ND	5.88	98.1	6.00	4.75		
Total BTEX	<0.300	0.300	10/10/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/09/2013	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/10/2013	ND	200	100	200	0.683		
DRO >C10-C28	1110	10.0	10/10/2013	ND	194	97.0	200	2.22		

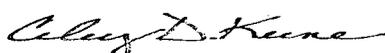
Surrogate: 1-Chlorooctane 95.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 153 % 63.6-154

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 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.



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:	10/09/2013	Sampling Date:	10/08/2013
Reported:	10/11/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 2 @ SURFACE (H302435-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2013	ND	1.97	98.6	2.00	4.07		
Toluene*	<0.050	0.050	10/10/2013	ND	1.99	99.3	2.00	4.73		
Ethylbenzene*	<0.050	0.050	10/10/2013	ND	2.01	100	2.00	4.36		
Total Xylenes*	<0.150	0.150	10/10/2013	ND	5.88	98.1	6.00	4.75		
Total BTEX	<0.300	0.300	10/10/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 99.7 % 89.4-126

Chloride, SM4500CI-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	10/09/2013	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	10/10/2013	ND	200	100	200	0.683			
DRO >C10-C28	2000	10.0	10/10/2013	ND	194	97.0	200	2.22			

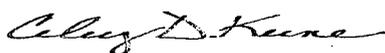
Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 180 % 63.6-154

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 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.



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:	10/09/2013	Sampling Date:	10/08/2013
Reported:	10/11/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 3 @ SURFACE (H302435-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2013	ND	1.97	98.6	2.00	4.07		
Toluene*	<0.050	0.050	10/10/2013	ND	1.99	99.3	2.00	4.73		
Ethylbenzene*	<0.050	0.050	10/10/2013	ND	2.01	100	2.00	4.36		
Total Xylenes*	<0.150	0.150	10/10/2013	ND	5.88	98.1	6.00	4.75		
Total BTEX	<0.300	0.300	10/10/2013	ND						

Surrogate: 4-Bromofluorobenzene (PII) 96.1 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/09/2013	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	10/10/2013	ND	200	100	200	0.683			
DRO >C10-C28	2550	10.0	10/10/2013	ND	194	97.0	200	2.22			

Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 191 % 63.6-154

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 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.



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:	10/09/2013	Sampling Date:	10/08/2013
Reported:	10/11/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 4 @ SURFACE (H302435-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2013	ND	1.97	98.6	2.00	4.07		
Toluene*	<0.050	0.050	10/10/2013	ND	1.99	99.3	2.00	4.73		
Ethylbenzene*	<0.050	0.050	10/10/2013	ND	2.01	100	2.00	4.36		
Total Xylenes*	<0.150	0.150	10/10/2013	ND	5.88	98.1	6.00	4.75		
Total BTEX	<0.300	0.300	10/10/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 98.2 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/09/2013	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	10/10/2013	ND	188	94.1	200	0.921			
DRO >C10-C28	2440	10.0	10/10/2013	ND	187	93.4	200	0.907			

Surrogate: 1-Chlorooctane 98.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 190 % 63.6-154

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 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.



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:	10/09/2013	Sampling Date:	10/08/2013
Reported:	10/11/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 5 @ SURFACE (H302435-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2013	ND	1.97	98.6	2.00	4.07		
Toluene*	<0.050	0.050	10/10/2013	ND	1.99	99.3	2.00	4.73		
Ethylbenzene*	<0.050	0.050	10/10/2013	ND	2.01	100	2.00	4.36		
Total Xylenes*	<0.150	0.150	10/10/2013	ND	5.88	98.1	6.00	4.75		
Total BTEX	<0.300	0.300	10/10/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 99.9 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	10/09/2013	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	10/10/2013	ND	188	94.1	200	0.921			
DRO >C10-C28	2470	10.0	10/10/2013	ND	187	93.4	200	0.907			

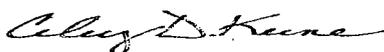
Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 203 % 63.6-154

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 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.



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:	10/09/2013	Sampling Date:	10/08/2013
Reported:	10/11/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 6 @ SURFACE (H302435-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/10/2013	ND	1.97	98.6	2.00	4.07		
Toluene*	<0.050	0.050	10/10/2013	ND	1.99	99.3	2.00	4.73		
Ethylbenzene*	<0.050	0.050	10/10/2013	ND	2.01	100	2.00	4.36		
Total Xylenes*	<0.150	0.150	10/10/2013	ND	5.88	98.1	6.00	4.75		
Total BTEX	<0.300	0.300	10/10/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 97.1 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/09/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/10/2013	ND	188	94.1	200	0.921		
DRO >C10-C28	<10.0	10.0	10/10/2013	ND	187	93.4	200	0.907		

Surrogate: 1-Chlorooctane 69.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 71.4 % 63.6-154

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 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.



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:	10/09/2013	Sampling Date:	10/08/2013
Reported:	10/11/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 7 @ SURFACE (H302435-07)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	10/10/2013	ND	1.97	98.6	2.00	4.07		
Toluene*	<0.200	0.200	10/10/2013	ND	1.99	99.3	2.00	4.73		
Ethylbenzene*	<0.200	0.200	10/10/2013	ND	2.01	100	2.00	4.36		
Total Xylenes*	<0.600	0.600	10/10/2013	ND	5.88	98.1	6.00	4.75		
Total BTEX	<1.20	1.20	10/10/2013	ND						

Surrogate: 4-Bromofluorobenzene (PII) 100 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/09/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<200	200	10/10/2013	ND	188	94.1	200	0.921			
DRO >C10-C28	5890	200	10/10/2013	ND	187	93.4	200	0.907			

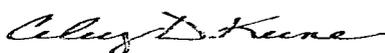
Surrogate: 1-Chlorooctane 77.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 322 % 63.6-154

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 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.



Celey D. Keene, Lab Director/Quality Manager

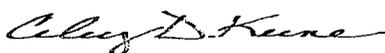
Notes and Definitions

- 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

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 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.



Celey D. Keene, Lab Director/Quality Manager

October 31, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: H. E. WEST B #2 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/25/13 16:20.

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
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	10/25/2013	Sampling Date:	10/25/2013
Reported:	10/31/2013	Sampling Type:	Soil
Project Name:	H. E. WEST B #2 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 8 @ SURFACE (H302607-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/29/2013	ND	2.02	101	2.00	0.429		
Toluene*	<0.050	0.050	10/29/2013	ND	2.00	100	2.00	0.174		
Ethylbenzene*	<0.050	0.050	10/29/2013	ND	2.00	99.8	2.00	0.532		
Total Xylenes*	<0.150	0.150	10/29/2013	ND	5.85	97.5	6.00	0.0606		
Total BTEX	<0.300	0.300	10/29/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/29/2013	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/29/2013	ND	210	105	200	1.98		
DRO >C10-C28	56.7	10.0	10/29/2013	ND	202	101	200	1.03		

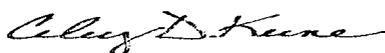
Surrogate: 1-Chlorooctane 99.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

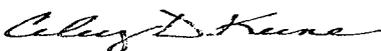
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived 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 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.



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



Celey D. Keene, Lab Director/Quality Manager

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$ 3.12
Certified Fee	2.10
Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 8.77



Sent To: Mike Bratcher
 Street, Apt. No., or PO Box No.: 811 S. First St.
 City, State, ZIP+4: Artesia NM 88210
 PS Form 3800, August 2006

7007 2560 0003 03 0 3392

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<input checked="" type="checkbox"/> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. <input checked="" type="checkbox"/> Print your name and address on the reverse so that we can return the card to you. <input checked="" type="checkbox"/> Attach this card to the back of the mailpiece, or on the front if space permits.		A. Signature <i>J. Warren</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee B. Received by (Printed Name) <u>J. Warren</u> C. Date of Delivery <u>12/6/13</u>	
1. Article Addressed to: <div style="border: 1px solid black; padding: 5px; text-align: center;"> Mike Bratcher NMOCD Environmental Specialist 811 S. First St. Artesia, NM 88210 </div>		D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If YES, enter delivery address below:	
		3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
2. Article Number (Transfer from service label)		4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
		7007 2560 0003 03 0 3392	

PS Form 3811, February 2004

Domestic Return Receipt

CA 02595-02-M-1540