

## **LINN ENERGY**

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

**H.E. West B #45  
2RP-1862**

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### **Corrective Action Plan**

API No. 3001526099  
Release Date: August 18<sup>th</sup>, 2013  
Unit Letter N, Section 9, Township 17S, Range 31E

# Rice Environmental Consulting & Safety

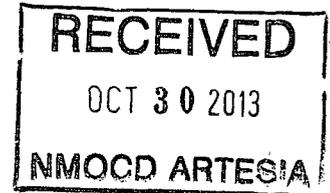
P.O. Box 2948, Hobbs, NM 88241

Phone 575.393.2967

October 29<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: Corrective Action Plan (CAP)  
Linn Energy – H.E. West B #45 (2RP-1862)  
UL/N sec. 9 T17S R31E  
API No. 3001526099**

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 miles northeast of Loco Hills, New Mexico at UL/N sec. 9 T17S R31E. This site is in an area of no known groundwater.

A release occurred on August 18<sup>th</sup>, 2013 from a pin hole in the produced water line that sprayed produced water over 2,115 sq ft of pasture and lease road. A total of 5 gallons of produced water was released and none of this material was recovered. BLM and NMOCD were informed of the release and an initial C-141 was approved by NMOCD on September 26<sup>th</sup>, 2013 (Appendix A).

On September 9<sup>th</sup>, 2013, RECS personnel were on site to begin assessing the release. Samples were taken from the surface and with depth at three locations throughout the release (Figure 1). The samples were field tested for chlorides and hydrocarbons and representative samples were taken to a commercial laboratory for analyses (Appendix B). The surface samples at the three points showed elevated laboratory chloride levels, Gasoline Range Organics (GRO) readings of non-detect and elevated Diesel Range Organics (DRO) readings. At Point 2, the laboratory chloride levels dropped to below 1,000 mg/kg at 6.5 ft bgs and at Point 3, the laboratory chloride levels dropped to below 1,000 mg/kg at 3 ft bgs. DRO levels in Point 2 dropped to non-detect at 6.5 ft bgs and in Point 3 at 4 ft bgs.

At Point 1, a vertical was installed on October 4<sup>th</sup>, 2013, to determine the depth of contamination. The vertical was installed to a depth of 4 ft where the laboratory chloride reading returned a result of 160 mg/kg and GRO and DRO readings were non-detect (Appendix C).

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

### **Corrective Action Plan**

Given that there is no groundwater beneath the site, RECS recommends that the site be excavated to a depth of 4 ft bgs. At 4 ft bgs, field testing of the bottom of the excavation will be conducted to determine if chloride levels and hydrocarbon levels will be below 1,000 mg/kg. If field testing indicates that these readings will be below 1,000 mg/kg, a 5 point bottom composite of the bottom of the excavation will be taken to a commercial laboratory to verify these results. If at 4 ft bgs, field sampling indicates chloride levels and hydrocarbon levels are above 1,000 mg/kg, a 20-mil reinforced poly liner will be installed at the base of the excavation and properly seated. The site will be excavated horizontally until field testing indicates that the walls of the excavation will be below 1,000 mg/kg for chlorides and for hydrocarbons. Wall samples will be taken to a commercial laboratory to verify that chloride and a combined GRO/DRO level are below 1,000 mg/kg.

All excavated soil will be disposed of at a NMOCD approved facility. The excavation in the pasture will be backfilled with clean, imported soil. The excavation in the lease road will be backfilled with clean, imported soil and then capped with clean, imported caliche to provide a stable driving surface. Once the site is backfilled, the pasture area will be seeded with a blend of native vegetation. Vegetation acts as 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 have been completed, Linn will submit a request for 'remediation termination' or similar closure status of the regulatory file.

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.

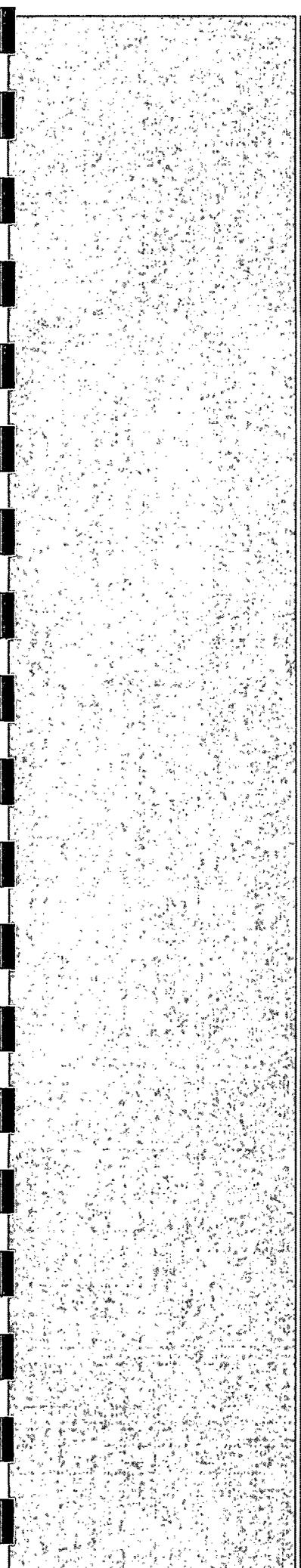
Sincerely,



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 – Vertical Sampling Lab
- Appendix D – Photo Documentation

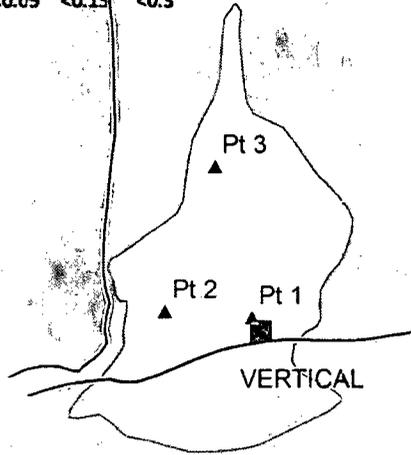


# Figures

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

# Initial Sampling Data

| Point 1 |       |       |     |     |       |       |       |       |      |  |
|---------|-------|-------|-----|-----|-------|-------|-------|-------|------|--|
| Depth   | CI-   | PID   | GRO | DRO | B     | T     | E     | X     | BTEX |  |
| SS      | 10900 | 0.4   | <10 | 110 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |  |
| 6"      | 2502  | 7.7   |     |     |       |       |       |       |      |  |
| 1'      | 1535  | 93    |     |     |       |       |       |       |      |  |
| 1.5'    | 1219  | 25.5  |     |     |       |       |       |       |      |  |
| 2'      | 3395  | 7.7   |     |     |       |       |       |       |      |  |
| 2.5'    | 3930  | 105.7 |     |     |       |       |       |       |      |  |
| 3'      | 3280  | 49.7  | <10 | <10 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |  |
| 3.5'    | 304   | 3.9   | <10 | <10 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |  |
| 4'      | 160   | 3.8   | <10 | <10 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |  |



| Point 2 |       |      |     |     |       |       |       |       |      |  |
|---------|-------|------|-----|-----|-------|-------|-------|-------|------|--|
| Depth   | CI    | PID  | GRO | DRO | B     | T     | E     | X     | BTEX |  |
| SS      | 10500 | 0.6  | <10 | 145 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |  |
| 6"      | 2218  | 10.2 |     |     |       |       |       |       |      |  |
| 1'      | 2911  | 11.9 |     |     |       |       |       |       |      |  |
| 1.5'    | 3165  | 5.8  |     |     |       |       |       |       |      |  |
| 2'      | 7482  | 13.6 |     |     |       |       |       |       |      |  |
| 2.5'    | 7044  | 96.9 |     |     |       |       |       |       |      |  |
| 3'      | 5469  | 5.1  |     |     |       |       |       |       |      |  |
| 3.5'    | 3109  | 18.6 |     |     |       |       |       |       |      |  |
| 4'      | 1939  | 17.5 |     |     |       |       |       |       |      |  |
| 4.5'    | 1660  | 13.6 |     |     |       |       |       |       |      |  |
| 5'      | 2140  | 7.4  |     |     |       |       |       |       |      |  |
| 5.5'    | 2437  | 5.2  |     |     |       |       |       |       |      |  |
| 6'      | 2065  | 3.4  |     |     |       |       |       |       |      |  |
| 6.5'    | 592   | 7.8  | <10 | <10 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |  |
| 7'      | 192   | 15.7 | <10 | <10 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |  |

| Point 3 |       |       |     |      |       |       |       |       |      |  |
|---------|-------|-------|-----|------|-------|-------|-------|-------|------|--|
| Depth   | CI    | PID   | GRO | DRO  | B     | T     | E     | X     | BTEX |  |
| SS      | 17400 | 1.2   | <50 | 4510 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |  |
| 6"      | 2362  | 36.7  |     |      |       |       |       |       |      |  |
| 1'      | 3099  | 115.2 |     |      |       |       |       |       |      |  |
| 1.5'    | 5532  | 6.1   |     |      |       |       |       |       |      |  |
| 2'      | 6164  | 62.3  |     |      |       |       |       |       |      |  |
| 2.5'    | 7451  | 4.2   |     |      |       |       |       |       |      |  |
| 3'      | 974   | 3.1   |     |      |       |       |       |       |      |  |
| 3.5'    | 336   | 1.4   | <10 | 18.2 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |  |
| 4'      | 240   | 13.5  | <10 | <10  | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |  |

## Legend

- ▲ SAMPLE POINTS
- VERTICAL
- SURFACE PIPELINE
- STAIN (2115 sq ft)

CI- FIELD DATA  
CI- LAB DATA

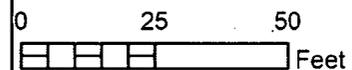
Landowner = BLM

DGW = None



**LINN H.E.**  
**WEST B #45**  
**(2RP-1862)**  
LEGALS: UL/N Sec. 9  
T17S - R31E  
EDDY COUNTY, NM

Figure 1



GPS date: 9/9/13  
Drawing date: 10/11/13  
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

**RECEIVED**  
AUG 22 2013  
NMOCD ARTESIA

Form C-141  
Revised October 10, 2003

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

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

**Release Notification and Corrective Action**

*N.J.M.W.* 1323831822

OPERATOR

Initial Report  Final Report

|                                         |                             |
|-----------------------------------------|-----------------------------|
| Name of Company: Linn Operating 269324  | Contact: Brian Wall         |
| Address: 2130 W. Bender Hobbs, NM 88240 | Telephone No.: 575-738-1739 |
| Facility Name: West B# 45               | Facility Type: Oil Producer |
| Surface Owner: Federal                  | Mineral Owner:              |
| API No.: 3001526099                     |                             |

**LOCATION OF RELEASE**

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| N           | 09      | 17S      | 31E   | 660           | South            | 1980          | West           | Eddy   |

Latitude: 32.84369 Longitude: -103.87608

**NATURE OF RELEASE**

|                                                                                                                                                                                              |                                                 |                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| Type of Release: Produced Water                                                                                                                                                              | Volume of Release: Gall                         | Volume Recovered: 0                            |
| Source of Release: Poly Pipelining                                                                                                                                                           | Date and Hour of Occurrence: 08/18/2013 10:39am | Date and Hour of Discovery: 08/18/2013 10:30am |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required                                                     | IF YES: To Whom?<br>Mike Burton - BLM           |                                                |
| By Whom? Brian Wall                                                                                                                                                                          | Date and Hour: 08/19/2013 2:00pm                |                                                |
| Was a Watercourse Reached?<br><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: A small pin hole in flowline developed resulting in spraying water mist. Shut in well head to stop the spraying. Possible line fatigue. |                                                 |                                                |
| Describe Area Affected and Cleanup Action Taken: 15' x 10' area                                                                                                                              |                                                 |                                                |

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>Brian Wall</i>         | <b>OIL CONSERVATION DIVISION</b>                                                                          |                                    |
| Printed Name: Brian Wall             | Approved by District Supervisor Signed By: <i>Mike Burton</i>                                             |                                    |
| Title: Construction Foreman II       | Approval Date: <b>AUG 26 2013</b>                                                                         | Expiration Date:                   |
| E-mail Address: bwall@linnenergy.com | Conditions of Approval:                                                                                   | Attached: <input type="checkbox"/> |
| Date: 08/20/2013 Phone: 806-367-0645 | Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION PROPOSAL NO LATER THAN: |                                    |

\* Attach Additional Sheets If Necessary.

2RP = 1862  
September 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 16, 2013

HACK CONDER  
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC  
419 W. CAIN  
HOBBS, NM 88240

RE: H. E. WEST B #45

Enclosed are the results of analyses for samples received by the laboratory on 09/12/13 8:45.

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 [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://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  
 HACK CONDER  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

|                   |                  |                     |               |
|-------------------|------------------|---------------------|---------------|
| Received:         | 09/12/2013       | Sampling Date:      | 09/09/2013    |
| Reported:         | 09/16/2013       | Sampling Type:      | Soil          |
| Project Name:     | H. E. WEST B #45 | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN       | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN        |                     |               |

**Sample ID: PT. 1 @ SURFACE (H302206-01)**

| 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           | 09/13/2013 | ND              | 2.05 | 103        | 2.00          | 0.141 |           |  |
| Toluene*       | <0.050 | 0.050           | 09/13/2013 | ND              | 2.19 | 110        | 2.00          | 1.10  |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 09/13/2013 | ND              | 2.30 | 115        | 2.00          | 1.19  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 09/13/2013 | ND              | 6.96 | 116        | 6.00          | 1.34  |           |  |
| Total BTEX     | <0.300 | 0.300           | 09/13/2013 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 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             | 10900  | 16.0            | 09/16/2013 | 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            | 09/12/2013 | ND              | 202 | 101        | 200           | 1.28  |           |  |
| DRO >C10-C28 | 110    | 10.0            | 09/12/2013 | ND              | 198 | 98.9       | 200           | 0.838 |           |  |

Surrogate: 1-Chlorooctane 82.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.1 % 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  
 HACK CONDER  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

|                   |                  |                     |               |
|-------------------|------------------|---------------------|---------------|
| Received:         | 09/12/2013       | Sampling Date:      | 09/10/2013    |
| Reported:         | 09/16/2013       | Sampling Type:      | Soil          |
| Project Name:     | H. E. WEST B #45 | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN       | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN        |                     |               |

**Sample ID: PT. 1 @ 3' (H302206-02)**

| 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           | 09/13/2013 | ND              | 2.05 | 103        | 2.00          | 0.141 |           |
| Toluene*       | <0.050 | 0.050           | 09/13/2013 | ND              | 2.19 | 110        | 2.00          | 1.10  |           |
| Ethylbenzene*  | <0.050 | 0.050           | 09/13/2013 | ND              | 2.30 | 115        | 2.00          | 1.19  |           |
| Total Xylenes* | <0.150 | 0.150           | 09/13/2013 | ND              | 6.96 | 116        | 6.00          | 1.34  |           |
| Total BTEX     | <0.300 | 0.300           | 09/13/2013 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 89.4-126

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 3280   | 16.0            | 09/16/2013 | 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            | 09/12/2013 | ND              | 202 | 101        | 200           | 1.28  |           |
| DRO >C10-C28 | <10.0  | 10.0            | 09/12/2013 | ND              | 198 | 98.9       | 200           | 0.838 |           |

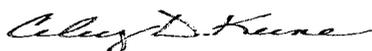
Surrogate: 1-Chlorooctane 89.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.9 % 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:         | 09/12/2013       | Sampling Date:      | 09/09/2013    |
| Reported:         | 09/16/2013       | Sampling Type:      | Soil          |
| Project Name:     | H. E. WEST B #45 | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN       | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN        |                     |               |

**Sample ID: PT. 2 @ SURFACE (H302206-03)**

| <b>BTEX 8021B</b> |        | <b>mg/kg</b>    |            | <b>Analyzed By: MS</b> |      |            |               |       |           |  |
|-------------------|--------|-----------------|------------|------------------------|------|------------|---------------|-------|-----------|--|
| Analyte           | Result | Reporting Limit | Analyzed   | Method Blank           | BS   | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*          | <0.050 | 0.050           | 09/13/2013 | ND                     | 2.05 | 103        | 2.00          | 0.141 |           |  |
| Toluene*          | <0.050 | 0.050           | 09/13/2013 | ND                     | 2.19 | 110        | 2.00          | 1.10  |           |  |
| Ethylbenzene*     | <0.050 | 0.050           | 09/13/2013 | ND                     | 2.30 | 115        | 2.00          | 1.19  |           |  |
| Total Xylenes*    | <0.150 | 0.150           | 09/13/2013 | ND                     | 6.96 | 116        | 6.00          | 1.34  |           |  |
| Total BTEX        | <0.300 | 0.300           | 09/13/2013 | ND                     |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 89.4-126

| <b>Chloride, SM4500Cl-B</b> |              | <b>mg/kg</b>    |            | <b>Analyzed By: AP</b> |     |            |               |      |           |  |
|-----------------------------|--------------|-----------------|------------|------------------------|-----|------------|---------------|------|-----------|--|
| Analyte                     | Result       | Reporting Limit | Analyzed   | Method Blank           | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| <b>Chloride</b>             | <b>10500</b> | 16.0            | 09/16/2013 | ND                     | 400 | 100        | 400           | 3.92 |           |  |

| <b>TPH 8015M</b>       |            | <b>mg/kg</b>    |            | <b>Analyzed By: MS</b> |     |            |               |       |           |  |
|------------------------|------------|-----------------|------------|------------------------|-----|------------|---------------|-------|-----------|--|
| Analyte                | Result     | Reporting Limit | Analyzed   | Method Blank           | BS  | % Recovery | True Value QC | RPD   | Qualifier |  |
| GRO C6-C10             | <10.0      | 10.0            | 09/12/2013 | ND                     | 202 | 101        | 200           | 1.28  |           |  |
| <b>DRO &gt;C10-C28</b> | <b>145</b> | 10.0            | 09/12/2013 | ND                     | 198 | 98.9       | 200           | 0.838 |           |  |

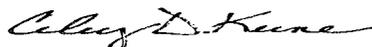
Surrogate: 1-Chlorooctane 97.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 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:         | 09/12/2013       | Sampling Date:      | 09/10/2013    |
| Reported:         | 09/16/2013       | Sampling Type:      | Soil          |
| Project Name:     | H. E. WEST B #45 | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN       | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN        |                     |               |

**Sample ID: PT. 2 @ 6.5' (H302206-04)**

| 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           | 09/13/2013 | ND              | 2.05 | 103        | 2.00          | 0.141 |           |  |
| Toluene*       | <0.050 | 0.050           | 09/13/2013 | ND              | 2.19 | 110        | 2.00          | 1.10  |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 09/13/2013 | ND              | 2.30 | 115        | 2.00          | 1.19  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 09/13/2013 | ND              | 6.96 | 116        | 6.00          | 1.34  |           |  |
| Total BTEX     | <0.300 | 0.300           | 09/13/2013 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 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             | 592    | 16.0            | 09/16/2013 | 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            | 09/12/2013 | ND              | 200 | 100        | 200           | 4.71 |           |  |
| DRO >C10-C28 | <10.0  | 10.0            | 09/12/2013 | ND              | 192 | 96.1       | 200           | 3.84 |           |  |

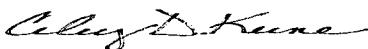
Surrogate: 1-Chlorooctane 89.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.5 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

|                   |                  |                     |               |
|-------------------|------------------|---------------------|---------------|
| Received:         | 09/12/2013       | Sampling Date:      | 09/10/2013    |
| Reported:         | 09/16/2013       | Sampling Type:      | Soil          |
| Project Name:     | H. E. WEST B #45 | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN       | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN        |                     |               |

**Sample ID: PT. 2 @ 7' (H302206-05)**

| 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           | 09/13/2013 | ND              | 2.05 | 103        | 2.00          | 0.141 |           |  |
| Toluene*       | <0.050 | 0.050           | 09/13/2013 | ND              | 2.19 | 110        | 2.00          | 1.10  |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 09/13/2013 | ND              | 2.30 | 115        | 2.00          | 1.19  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 09/13/2013 | ND              | 6.96 | 116        | 6.00          | 1.34  |           |  |
| Total BTEX     | <0.300 | 0.300           | 09/13/2013 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 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             | 192    | 16.0            | 09/16/2013 | 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            | 09/12/2013 | ND              | 200 | 100        | 200           | 4.71 |           |  |
| DRO >C10-C28 | <10.0  | 10.0            | 09/12/2013 | ND              | 192 | 96.1       | 200           | 3.84 |           |  |

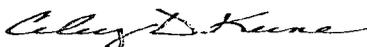
Surrogate: 1-Chlorooctane 87.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.5 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

|                   |                  |                     |               |
|-------------------|------------------|---------------------|---------------|
| Received:         | 09/12/2013       | Sampling Date:      | 09/09/2013    |
| Reported:         | 09/16/2013       | Sampling Type:      | Soil          |
| Project Name:     | H. E. WEST B #45 | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN       | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN        |                     |               |

**Sample ID: PT. 3 @ SURFACE (H302206-06)**

| 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           | 09/13/2013 | ND              | 2.05 | 103        | 2.00          | 0.141 |           |  |
| Toluene*       | <0.050 | 0.050           | 09/13/2013 | ND              | 2.19 | 110        | 2.00          | 1.10  |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 09/13/2013 | ND              | 2.30 | 115        | 2.00          | 1.19  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 09/13/2013 | ND              | 6.96 | 116        | 6.00          | 1.34  |           |  |
| Total BTEX     | <0.300 | 0.300           | 09/13/2013 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 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             | 17400  | 16.0            | 09/16/2013 | ND              | 400 | 100        | 400           | 3.92 |           |  |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  | S-06 |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |      |
| GRO C6-C10   | <50.0  | 50.0            | 09/13/2013 | ND              | 200 | 100        | 200           | 4.71 |           |  |      |
| DRO >C10-C28 | 4510   | 50.0            | 09/13/2013 | ND              | 192 | 96.1       | 200           | 3.84 |           |  |      |

Surrogate: 1-Chlorooctane 72.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 234 % 63.6-154

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

|                   |                  |                     |               |
|-------------------|------------------|---------------------|---------------|
| Received:         | 09/12/2013       | Sampling Date:      | 09/10/2013    |
| Reported:         | 09/16/2013       | Sampling Type:      | Soil          |
| Project Name:     | H. E. WEST B #45 | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN       | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN        |                     |               |

**Sample ID: PT. 3 @ 3.5' (H302206-07)**

| 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           | 09/13/2013 | ND              | 2.05 | 103        | 2.00          | 0.141 |           |  |
| Toluene*       | <0.050 | 0.050           | 09/13/2013 | ND              | 2.19 | 110        | 2.00          | 1.10  |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 09/13/2013 | ND              | 2.30 | 115        | 2.00          | 1.19  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 09/13/2013 | ND              | 6.96 | 116        | 6.00          | 1.34  |           |  |
| Total BTEX     | <0.300 | 0.300           | 09/13/2013 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PIC) 109 % 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             | <b>336</b> | 16.0            | 09/16/2013 | 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            | 09/13/2013 | ND              | 200 | 100        | 200           | 4.71 |           |  |
| <b>DRO &gt;C10-C28</b> | <b>18.2</b> | 10.0            | 09/13/2013 | ND              | 192 | 96.1       | 200           | 3.84 |           |  |

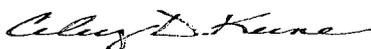
Surrogate: 1-Chlorooctane 75.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.0 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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

|                   |                  |                     |               |
|-------------------|------------------|---------------------|---------------|
| Received:         | 09/12/2013       | Sampling Date:      | 09/10/2013    |
| Reported:         | 09/16/2013       | Sampling Type:      | Soil          |
| Project Name:     | H. E. WEST B #45 | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN       | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN        |                     |               |

**Sample ID: PT. 3 @ 4' (H302206-08)**

| 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           | 09/13/2013 | ND              | 2.05 | 103        | 2.00          | 0.141 |           |  |
| Toluene*       | <0.050 | 0.050           | 09/13/2013 | ND              | 2.19 | 110        | 2.00          | 1.10  |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 09/13/2013 | ND              | 2.30 | 115        | 2.00          | 1.19  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 09/13/2013 | ND              | 6.96 | 116        | 6.00          | 1.34  |           |  |
| Total BTEX     | <0.300 | 0.300           | 09/13/2013 | ND              |      |            |               |       |           |  |

*Surrogate: 4-Bromofluorobenzene (PII) 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 |  |
| <b>Chloride</b>      | <b>240</b> | 16.0            | 09/16/2013 | ND              | 416 | 104        | 400           | 3.77 |           |  |

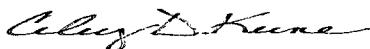
| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |  |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| GRO C6-C10   | <10.0  | 10.0            | 09/13/2013 | ND              | 200 | 100        | 200           | 4.71 |           |  |
| DRO >C10-C28 | <10.0  | 10.0            | 09/13/2013 | ND              | 192 | 96.1       | 200           | 3.84 |           |  |

*Surrogate: 1-Chlorooctane 83.6 % 65.2-140*
*Surrogate: 1-Chlorooctadecane 98.6 % 63.6-154*

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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.
- 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

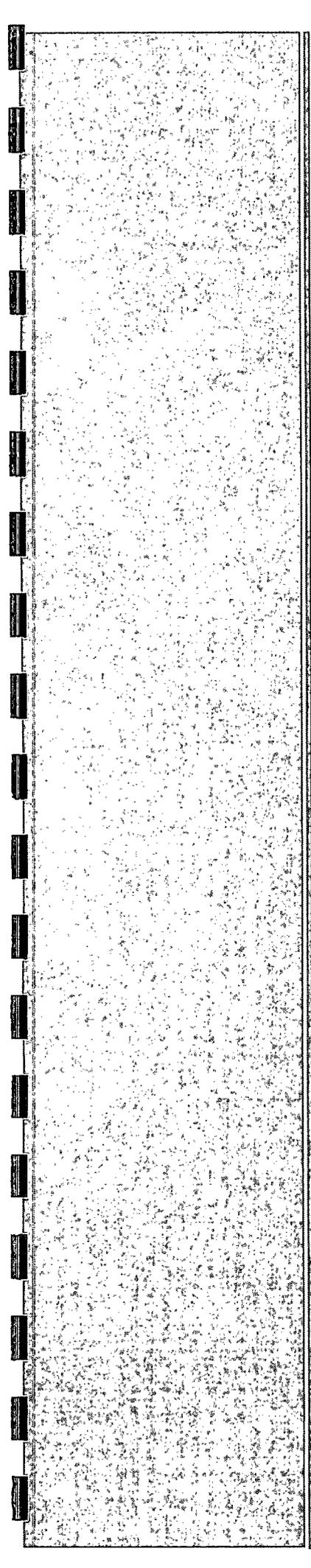
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Celey D. Keene, Lab Director/Quality Manager





# Appendix C

## Vertical Sampling Lab

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

October 11, 2013

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: H. E. WEST B #45

Enclosed are the results of analyses for samples received by the laboratory on 10/07/13 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://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:         | 10/07/2013       | Sampling Date:      | 10/04/2013    |
| Reported:         | 10/11/2013       | Sampling Type:      | Soil          |
| Project Name:     | H. E. WEST B #45 | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN       | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN        |                     |               |

**Sample ID: POINT 1 @ 3.5' (H302426-01)**

| 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           | 10/08/2013 | ND              | 1.90 | 94.8       | 2.00          | 0.414  |           |  |
| Toluene*       | <0.050 | 0.050           | 10/08/2013 | ND              | 1.90 | 94.8       | 2.00          | 0.152  |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/08/2013 | ND              | 1.93 | 96.5       | 2.00          | 0.113  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/08/2013 | ND              | 5.83 | 97.2       | 6.00          | 0.0192 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/08/2013 | ND              |      |            |               |        |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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 |  |
| <b>Chloride</b>      | <b>304</b> | 16.0            | 10/08/2013 | 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            | 10/08/2013 | ND              | 201 | 101        | 200           | 0.560 |           |  |
| DRO >C10-C28 | <10.0  | 10.0            | 10/08/2013 | ND              | 211 | 105        | 200           | 8.27  |           |  |

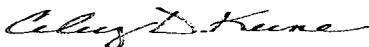
Surrogate: 1-Chlorooctane 92.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.5 % 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:         | 10/07/2013       | Sampling Date:      | 10/04/2013    |
| Reported:         | 10/11/2013       | Sampling Type:      | Soil          |
| Project Name:     | H. E. WEST B #45 | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN       | Sample Received By: | Jodi Henson   |
| Project Location: | NOT GIVEN        |                     |               |

**Sample ID: POINT 1 @ 4' (H302426-02)**

| 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           | 10/08/2013 | ND              | 1.90 | 94.8       | 2.00          | 0.414  |           |
| Toluene*       | <0.050 | 0.050           | 10/08/2013 | ND              | 1.90 | 94.8       | 2.00          | 0.152  |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/08/2013 | ND              | 1.93 | 96.5       | 2.00          | 0.113  |           |
| Total Xylenes* | <0.150 | 0.150           | 10/08/2013 | ND              | 5.83 | 97.2       | 6.00          | 0.0192 |           |
| Total BTEX     | <0.300 | 0.300           | 10/08/2013 | ND              |      |            |               |        |           |

*Surrogate: 4-Bromofluorobenzene (PIL) 125 % 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 |
| <b>Chloride</b>      | <b>160</b> | 16.0            | 10/08/2013 | ND              | 400 | 100        | 400           | 3.92 |           |

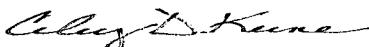
| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 10/08/2013 | ND              | 201 | 101        | 200           | 0.560 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 10/08/2013 | ND              | 211 | 105        | 200           | 8.27  |           |

*Surrogate: 1-Chlorooctane 97.3 % 65.2-140*
*Surrogate: 1-Chlorooctadecane 94.7 % 63.6-154*

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- 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



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

|                                          |                       |                   |              |             |            |                         |     |        |        |            |          |        |                |                 |          |          |          |                 |  |  |  |  |  |  |  |             |  |            |  |
|------------------------------------------|-----------------------|-------------------|--------------|-------------|------------|-------------------------|-----|--------|--------|------------|----------|--------|----------------|-----------------|----------|----------|----------|-----------------|--|--|--|--|--|--|--|-------------|--|------------|--|
| Company Name: <u>Linn Energy</u>         |                       | <b>BILL TO</b>    |              |             |            | <b>ANALYSIS REQUEST</b> |     |        |        |            |          |        |                |                 |          |          |          |                 |  |  |  |  |  |  |  |             |  |            |  |
| Project Manager: <u>Rick Rickman</u>     |                       | P.O. #:           |              |             |            |                         |     |        |        |            |          |        |                |                 |          |          |          |                 |  |  |  |  |  |  |  |             |  |            |  |
| Address:                                 |                       | Company:          |              |             |            |                         |     |        |        |            |          |        |                |                 |          |          |          |                 |  |  |  |  |  |  |  |             |  |            |  |
| City:                                    | State:                | Zip:              | Attn:        |             |            |                         |     |        |        |            |          |        |                |                 |          |          |          |                 |  |  |  |  |  |  |  |             |  |            |  |
| Phone #:                                 | Fax #:                |                   | Address:     |             |            |                         |     |        |        |            |          |        |                |                 |          |          |          |                 |  |  |  |  |  |  |  |             |  |            |  |
| Project #:                               | Project Owner:        |                   | City:        |             |            |                         |     |        |        |            |          |        |                |                 |          |          |          |                 |  |  |  |  |  |  |  |             |  |            |  |
| Project Name:                            |                       | State:            |              | Zip:        |            |                         |     |        |        |            |          |        |                |                 |          |          |          |                 |  |  |  |  |  |  |  |             |  |            |  |
| Project Location: <u>H.E. West B #45</u> |                       | Phone #:          |              |             |            |                         |     |        |        |            |          |        |                |                 |          |          |          |                 |  |  |  |  |  |  |  |             |  |            |  |
| Sampler Name: <u>Chris Flores</u>        |                       | Fax #:            |              |             |            |                         |     |        |        |            |          |        |                |                 |          |          |          |                 |  |  |  |  |  |  |  |             |  |            |  |
| FOR LAB USE ONLY                         |                       |                   |              |             |            |                         |     |        |        |            |          |        |                |                 |          |          |          |                 |  |  |  |  |  |  |  |             |  |            |  |
| Lab I.D.                                 | Sample I.D.           | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX      |            |                         |     |        |        |            |          |        |                |                 |          | PRESERV. |          | SAMPLING        |  |  |  |  |  |  |  |             |  |            |  |
|                                          |                       |                   |              | GROUNDWATER | WASTEWATER | SOIL                    | OIL | SLUDGE | OTHER: | ACID/BASE: | ICE/COOL | OTHER: | DATE           | TIME            |          |          |          |                 |  |  |  |  |  |  |  |             |  |            |  |
| <u>H302426</u>                           |                       |                   |              |             |            |                         |     |        |        |            |          |        |                |                 |          |          |          |                 |  |  |  |  |  |  |  |             |  |            |  |
| <u>1</u>                                 | <u>Point 1 @ 3.5'</u> | <u>G</u>          | <u>✓</u>     |             |            | <u>✓</u>                |     |        |        |            |          |        | <u>10-4-13</u> | <u>10:10 AM</u> | <u>X</u> | <u>X</u> | <u>X</u> | <u>Chloride</u> |  |  |  |  |  |  |  | <u>BTEX</u> |  | <u>TPH</u> |  |
| <u>2</u>                                 | <u>Point 1 @ 4'</u>   | <u>G</u>          | <u>✓</u>     |             |            | <u>✓</u>                |     |        |        |            |          |        | <u>10-4-13</u> | <u>10:15 AM</u> | <u>X</u> | <u>X</u> | <u>X</u> |                 |  |  |  |  |  |  |  |             |  |            |  |

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|                                     |                                                                                    |                                 |                                                                         |                |
|-------------------------------------|------------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------|----------------|
| Relinquished By: <u>[Signature]</u> | Date: <u>10-7-2013</u>                                                             | Received By: <u>Jodi Benson</u> | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No  | Add'l Phone #: |
|                                     | Time: <u>4:35</u>                                                                  |                                 | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No    | Add'l Fax #:   |
| Relinquished By:                    | Date:                                                                              | Received By:                    | REMARKS:<br><u>1 Weinheimer</u><br><u>J Kamplain</u><br><u>C Flores</u> |                |
|                                     | Time:                                                                              |                                 |                                                                         |                |
| Delivered By: (Circle One)          | Sample Condition                                                                   | CHECKED BY:                     |                                                                         |                |
| Sampler - UPS - Bus - Other:        | Cool Intact<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <u>[Signature]</u>              |                                                                         |                |

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

# Appendix D

## Photo Documentation

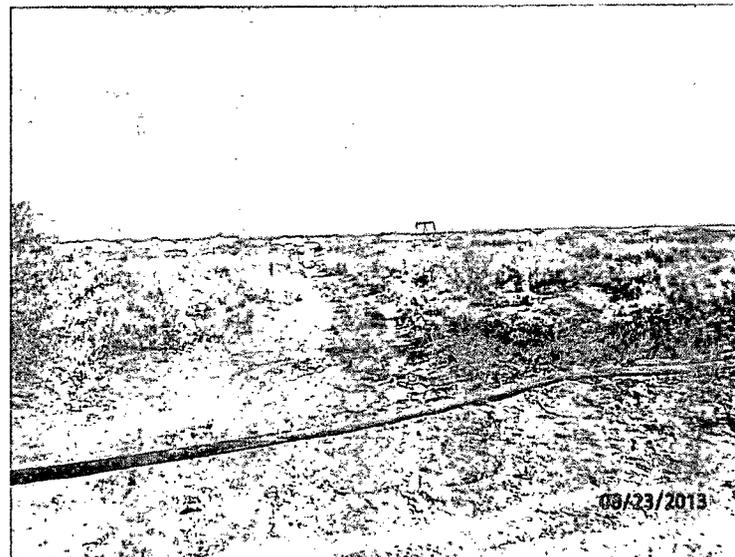
**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

# Linn H.E. West B #45

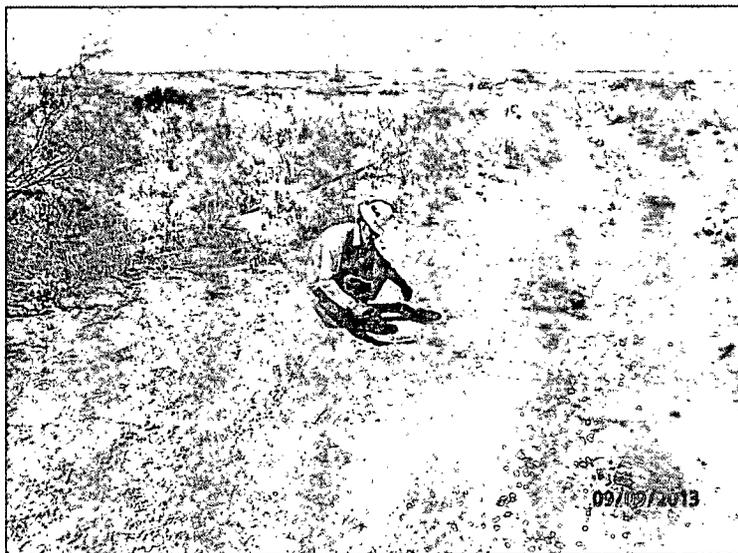
Unit Letter N, Section 9, T17S, R31E



Initial release area, facing south 8/23/13



Initial release area, facing north 8/23/13



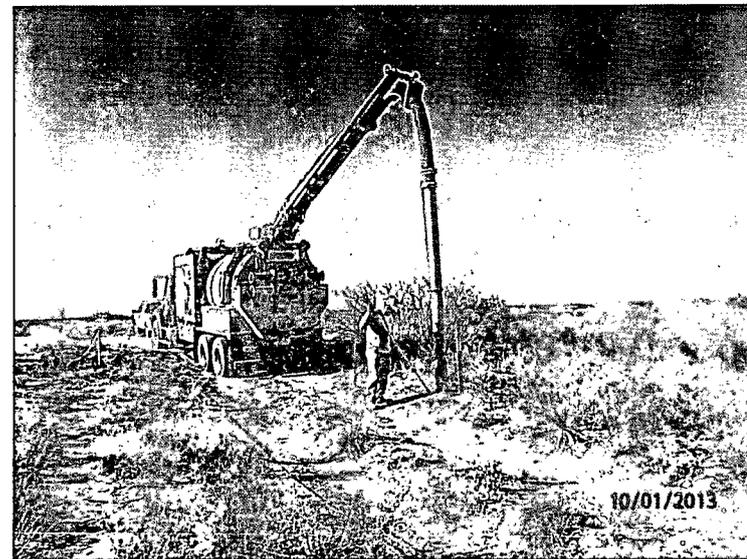
Collecting surface sample, facing north 9/9/13



Field testing soil sample, facing southwest 9/9/13



Hand auguring for depth, facing north 9/9/13



Line spot using hydrovac, facing north 10/1/13



Installing vertical at Pt. 1, facing southeast 10/4/13

**[mburton@blm.gov](mailto:mburton@blm.gov)**

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On Tue, Oct 29, 2013 at 8:59 AM, Lara Weinheimer <[lweinheimer@rice-ecs.com](mailto:lweinheimer@rice-ecs.com)> wrote:

Mike, attached is the Corrective Action Plan for the Linn H.E. West B #45 (2RP-1862). 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

**From:** [Burton, Michael](#)  
**To:** [Lara Weinheimer](#)  
**Cc:** [Mike Bratcher](#)  
**Subject:** Re: Corrective Action Plan for the Linn H.E. West B #45 (2RP-1862)  
**Date:** Tuesday, October 29, 2013 2:48:26 PM

---

Lara,  
This CAP is approved. Thanks

**Mike Burton**  
**BLM-CFO**  
**Environmental Protection Specialist**  
**575-234-2226 office**  
**575-361-3574 cell**  
**[mburton@blm.gov](mailto:mburton@blm.gov)**

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On Tue, Oct 29, 2013 at 8:59 AM, Lara Weinheimer <[lweinheimer@rice-ecs.com](mailto:lweinheimer@rice-ecs.com)> wrote:

Mike, attached is the Corrective Action Plan for the Linn H.E. West B #45 (2RP-1862). 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

## **Bratcher, Mike, EMNRD**

---

**From:** Jacob Kamplain <jkamplain@rice-ecs.com>  
**Sent:** Wednesday, October 30, 2013 8:19 AM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Warren, JeanMarie, EMNRD  
**Subject:** FW: Corrective Action Plan for the Linn H.E. West B #45 (2RP-1862)

Mr. Bratcher here is BLM's CAP approval for the Linn West B #45. Let Me know if you Have any questions. Thanks.

---

**From:** Lara Weinheimer [<mailto:lweinheimer@rice-ecs.com>]  
**Sent:** Tuesday, October 29, 2013 3:33 PM  
**To:** 'Jacob Kamplain'; 'Hack Conder'; 'Wall, Fred'  
**Subject:** FW: Corrective Action Plan for the Linn H.E. West B #45 (2RP-1862)

---

**From:** Burton, Michael [<mailto:mburton@blm.gov>]  
**Sent:** Tuesday, October 29, 2013 2:48 PM  
**To:** Lara Weinheimer  
**Cc:** Mike Bratcher  
**Subject:** Re: Corrective Action Plan for the Linn H.E. West B #45 (2RP-1862)

Lara,  
This CAP is approved. Thanks

**Mike Burton**  
**BLM-CFO**  
**Environmental Protection Specialist**  
**575-234-2226 office**  
**575-361-3574 cell**  
**[mburton@blm.gov](mailto:mburton@blm.gov)**

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On Tue, Oct 29, 2013 at 8:59 AM, Lara Weinheimer <[lweinheimer@rice-ecs.com](mailto:lweinheimer@rice-ecs.com)> wrote:

Mike, attached is the Corrective Action Plan for the Linn H.E. West B #45 (2RP-1862). 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

## Bratcher, Mike, EMNRD

---

**From:** Bratcher, Mike, EMNRD  
**Sent:** Friday, November 15, 2013 3:10 PM  
**To:** 'Jacob Kamplain'; Burton, Michael (mburton@blm.gov); Lara Weinheimer (lweinheimer@rice-ecs.com); bwall@lennenergy.com  
**Cc:** Warren, JeanMarie, EMNRD  
**Subject:** RE: Corrective Action Plan for the Linn H.E. West B #45 (2RP-1862)

OCD concurs with BLM approval of the remediation proposal for 2RP-1862 (H.E. West B 45)

Mike Bratcher  
NMOCD District 2  
811 S. First Street  
Artesia, NM 88210  
O: 575-748-1283 X108  
C: 575-626-0857  
F: 575-748-9720

---

**From:** Jacob Kamplain [<mailto:jkamplain@rice-ecs.com>]  
**Sent:** Wednesday, October 30, 2013 8:19 AM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Warren, JeanMarie, EMNRD  
**Subject:** FW: Corrective Action Plan for the Linn H.E. West B #45 (2RP-1862)

Mr. Bratcher here is BLM's CAP approval for the Linn West B #45. Let Me know if you Have any questions. Thanks.

---

**From:** Lara Weinheimer [<mailto:lweinheimer@rice-ecs.com>]  
**Sent:** Tuesday, October 29, 2013 3:33 PM  
**To:** 'Jacob Kamplain'; 'Hack Conder'; 'Wall, Fred'  
**Subject:** FW: Corrective Action Plan for the Linn H.E. West B #45 (2RP-1862)

---

**From:** Burton, Michael [<mailto:mburton@blm.gov>]  
**Sent:** Tuesday, October 29, 2013 2:48 PM  
**To:** Lara Weinheimer  
**Cc:** Mike Bratcher  
**Subject:** Re: Corrective Action Plan for the Linn H.E. West B #45 (2RP-1862)

Lara,  
This CAP is approved. Thanks

**Mike Burton**  
**BLM-CFO**  
**Environmental Protection Specialist**  
**575-234-2226 office**  
**575-361-3574 cell**

## Bratcher, Mike, EMNRD

---

**From:** Jacob Kamplain <jkamplain@rice-ecs.com>  
**Sent:** Tuesday, November 05, 2013 11:38 AM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Warren, JeanMarie, EMNRD  
**Subject:** Pending CAP approvals

**Follow Up Flag:** Follow up  
**Flag Status:** Completed

MR. Bratcher here is a list of site that still need CAP approvals from NMOCD, we have received CAP approvals from BLM on these sites. I would like to begin work on the McClay Federal #7 and the McClay Federal #7 TB on Thursday 11/7/13 pending CAP approval. Please let me know if you have any questions, otherwise I will await your approval. Thanks

1. West B Fed #41 (2RP-1863)– NMOCD received CAP 10-29-13
2. West B #45 (2RP-1862) –NMOCD received CAP 10-29-13
3. McClay Federal #7 TB (2RP-1914) NMOCD received CAP 10-1-13
4. McClay Federal #7 (2RP-1959) –NMOCD received CAP 10-29-13



Jacob Kamplain  
Project Leader  
419 W. Cain  
Hobbs, NM 88240  
575-942-8221