



LINN ENERGY

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

H.E. West B #51
(2RP-2441)

Termination Request

API No. 30-015-27110

Release Date: July 23rd, 2014

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

February 24, 2015

Mike Bratcher

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

**RE: Termination Request
Linn H.E. West B #51 (2RP-2441)
UL/G sec. 10 T17S R31E
API No. 30-015-27110**

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 5.7 miles west of Maljamar, New Mexico. The initial C-141 states that the release is located at UL/G, but GPS mapping shows that the release is located in UL/C&D sec. 10 T17S R31E. This site is located in an area of no known groundwater.

On July 23rd, 2014, Linn discovered a release from a fiberglass line that had failed. The line was isolated and repaired. A total of 10 barrels of produced water leaked over 1,636 square feet of pasture land. None of this fluid was recovered. NMOCD and BLM were notified of the release on July 24th, 2014, and an initial C-141 was sent to NMOCD for their approval (Appendix A).

RECS personnel were on site beginning on July 28th, 2014 to assess the release. Three points within the release were field sampled at the surface and with depth (Figure 1). Representative samples from the points were taken to a commercial laboratory for analysis (Appendix B). Based on the laboratory analysis, Point 1 returned chloride, Gasoline Range Organics (GRO), Diesel Range Organics (DRO) and BTEX readings below regulatory standards at 3 ft bgs. Point 2 returned laboratory chloride, GRO, DRO and BTEX readings below regulatory standards at 2 ft bgs, and Point 3 returned laboratory chloride, GRO, DRO and BTEX readings below regulatory standards at 5 ft bgs.

Based on the laboratory sampling data, a Corrective Action Plan (CAP) was submitted to NMOCD and BLM on August 14th, 2014. NMOCD and BLM approved the CAP that same day. The CAP stated that the release would be excavated in three parts. The area around Point 1 would be excavated to 3 ft bgs, the area around Point 2 would be excavated to 2 ft bgs and the area around Point 3 would be excavated to 5 ft bgs (Figure 2). Once the excavations were completed, grab samples from the outer walls and bottoms of each excavation would be taken

and sent to a commercial laboratory to confirm that chloride, GRO, DRO and BTEX readings were all below regulatory standards.

The excavated soil would be taken to the adjacent H.E. West B #51 lease pad and direct buried (Figure 3). Caliche would be scraped from the pad and piled off to the side. A repository would be excavated to a volume which would encompass the excavated soil from the release, including an additional 4 ft cap of clean top soil (Figure 4). The repository would be lined in entirety with a 20-mil reinforced poly liner. The excavated soil from the release would then be placed in the lined repository, and the top of the repository will be capped with a 20-mil reinforced poly liner. Four feet of clean top soil would be placed over the capped repository, and the scraped caliche would be backfilled over the top soil.

The top soil removed from the lease pad to create the repository would be used to backfill the excavations at the release site and to contour the site to the surrounding area. A sample of the top soil removed from the lease pad would be taken to a commercial laboratory to confirm that chloride, GRO and DRO readings were all below regulatory standards. After the site was backfilled, the disturbed areas would be seeded with a blend of native vegetation.

Corrective actions began at the site on September 4th, 2014. A total of 36 cubic yards of clean caliche was imported to the site to construct two roads to facilitate remediation activities. The first road was to the release site, and the second road was to the direct bury site. Once the remediation activities were completed, the two roads were removed and used to patch the lease pad.

The release area was excavated in three portions as stated in the approved CAP. The area around Point 1 was excavated to 3 ft bgs, the area around Point 2 was excavated to 2 ft bgs and the area around Point 3 was excavated to 5 ft bgs (Figure 5). The excavations remained approximately 5 ft from the active fiberglass line for safety considerations. Once the excavations were completed, grab samples from the outer walls and composite bottom samples of each excavation were taken and field tested for chlorides and organic vapors. The samples were then sent to a commercial laboratory to confirm that chloride, GRO, DRO and BTEX readings were all below regulatory standards (Appendix C). All wall and bottom composite samples for the three excavations returned laboratory chloride readings below regulatory standards. GRO, DRO and BTEX readings returned results of non-detect, except for the DRO reading for the excavation at 3 ft bgs, which returned a DRO reading of 15 mg/kg.

The excavated soil was taken to the adjacent H.E. West B #51 lease pad for direct burial. The caliche was scraped from the lease pad and piled off to the side. A repository measuring 38 ft x 38 ft x 8 ft deep was excavated and lined in entirety with a 20-mil reinforced poly liner. The excavated soil from the release was placed in the lined repository, and the top of the repository was capped with a 20-mil reinforced poly liner. The top soil removed from the lease pad to create the repository was used to backfill the excavations at the release site and to contour the site to the surrounding area. A sample of the top soil removed from the lease pad was taken to a commercial laboratory and returned a chloride reading of 48 mg/kg.

Approximately four feet of the repository top soil was placed over the capped repository, and the scraped caliche was backfilled over the top soil. Another 72 cubic yards of clean caliche was imported to the site to complete the backfill over the repository and to level the area to the surrounding area.

On October 31st, 2014, soil amendments were added to the disturbed area from the release and the disturbed area adjacent to the lease pad. The areas were then seeded with a 50/50 mix of BLM #2 and BLM #4.

Photo documentation of the field activities can be found in Appendix D.

Given that Linn has remediated the site as stated in the NMOCD and BLM approved CAP, Linn respectfully requests 'remediation termination' and site closure. A final C-141 can be found in Appendix E.

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

Sincerely,



Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

Attachments:

- Figure 1 – Initial Sampling Map
- Figure 2 – Proposed Corrective Actions
- Figure 3 – Location to Site for Direct Bury
- Figure 4 – Direct Bury Under Lease Pad
- Figure 5 – Excavation Data
- Appendix A – Initial C-141
- Appendix B – Initial Sampling Labs
- Appendix C – Corrective Action Labs
- Appendix D – Photo Documentation
- Appendix E – Final C-141

Figures

Initial Sampling Map

Pt. 1

| | Cl- | PID | GRO | DRO | B | T | E | X | BTEX |
|---------|------|-------|------|-------|-------|-------|-------|-------|------|
| Surface | 1880 | 915 | 2840 | 20000 | 6.44 | 25.8 | 44 | 75.2 | 151 |
| 0.5' | 3411 | 335 | | | | | | | |
| 1' | 2320 | 44.9 | <10 | 88.1 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |
| 2' | 3038 | 115.7 | | | | | | | |
| 3' | 368 | 17.4 | <10 | <10 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |
| 4' | 80 | 52.1 | <10 | 40.6 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |

Pt. 2

| | Cl- | PID | GRO | DRO | B | T | E | X | BTEX |
|---------|------|------|-----|------|-------|-------|-------|-------|-------|
| Surface | 1340 | 41 | <50 | 2340 | <0.05 | 0.104 | 0.135 | 0.29 | 0.529 |
| 0.5' | 2080 | 69 | <10 | 58.1 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |
| 1' | 2309 | 17.8 | | | | | | | |
| 2' | 64 | 11.3 | <10 | 54 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |
| 3' | 64 | 42.5 | <10 | 48.8 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |



Pt. 3

| | Cl- | PID | GRO | DRO | B | T | E | X | BTEX |
|---------|------|-------|-----|------|-------|-------|-------|-------|------|
| Surface | 3360 | 396 | 837 | 8600 | 0.837 | 5.93 | 20 | 44.3 | 71 |
| 0.5' | 3018 | 240.5 | | | | | | | |
| 1' | 2960 | 97.3 | | | | | | | |
| 2' | 3273 | 126.9 | | | | | | | |
| 3' | 3462 | 19.4 | | | | | | | |
| 4' | 5760 | 68.5 | <10 | 30.8 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |
| 5' | 240 | 20.4 | <10 | <10 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |
| 6' | 224 | 54.8 | <10 | <10 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |

CI- FIELD DATA
CI- LAB DATA

Legend

- ▲ SAMPLE POINT
- + SOURCE
- SURFACE PIPELINE
- STAIN- 1,636 SQ FT

Landowner: BLM
DGW: None

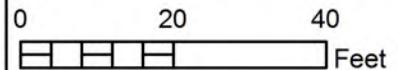
Source: Esri, DigitalGlobe, GeoEye, CNES/Airbus DS, USDA, USGS, swisstopo, and the GIS User Community



**LINN H.E.
WEST B #51**

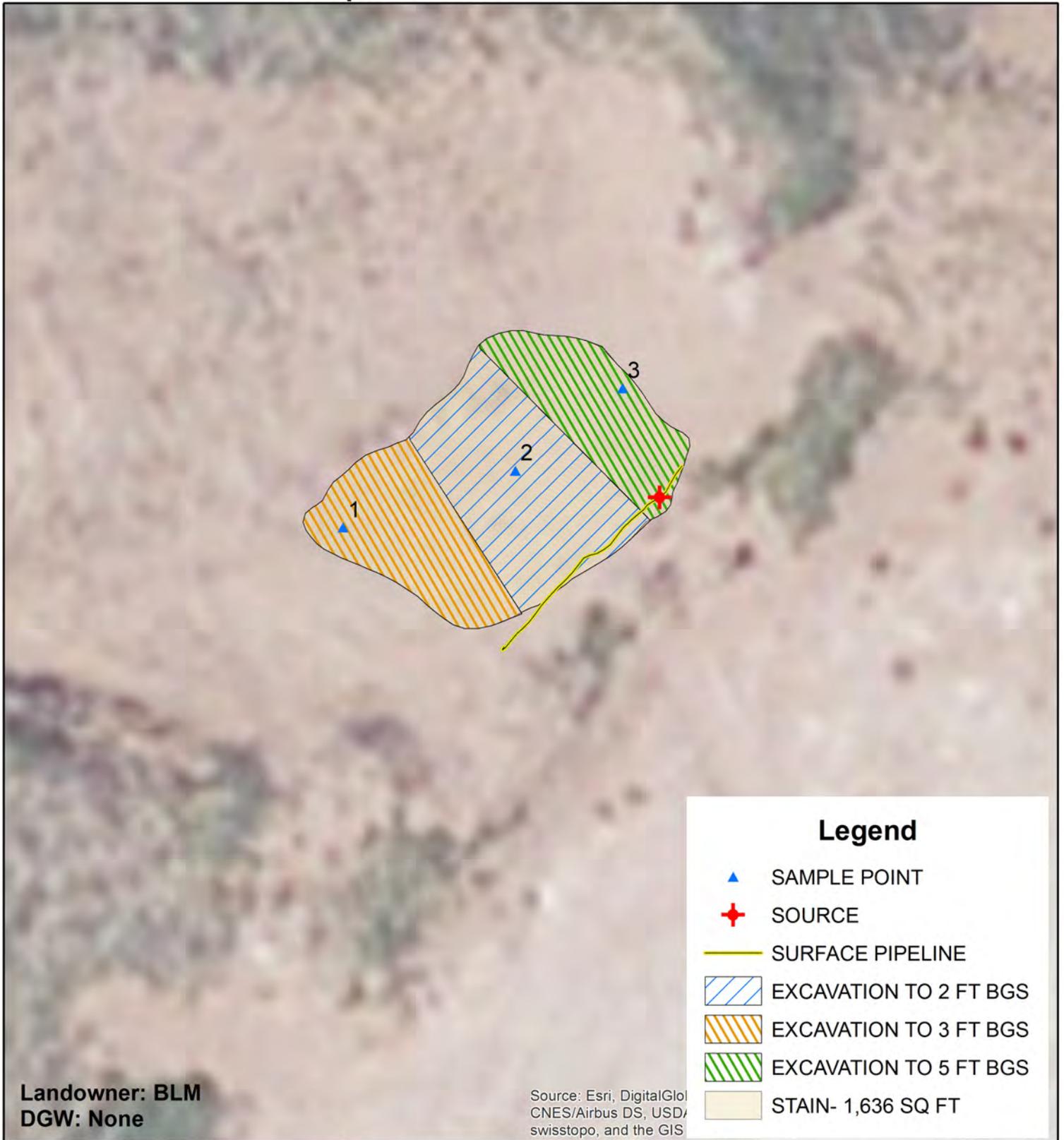
UL C & D SECTION 10
T-17-S R-31-E
EDDY COUNTY, NM

Figure 1



GPS date: 7/25/14 AR
Drawing date: 8/7/14
Drafted by: T. Grieco/L. Weinheimer

Proposed Corrective Actions



Legend

- ▲ SAMPLE POINT
- ★ SOURCE
- SURFACE PIPELINE
- EXCAVATION TO 2 FT BGS
- EXCAVATION TO 3 FT BGS
- EXCAVATION TO 5 FT BGS
- STAIN- 1,636 SQ FT

Landowner: BLM
 DGW: None

Source: Esri, DigitalGlobe, CNES/Airbus DS, USDA, swisstopo, and the GIS

RECS
 RICE ENVIRONMENTAL
 CONSULTING & SAFETY

**LINN H.E.
 WEST B #51**

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 EDDY COUNTY, NM

Figure 2

0 10 20
 Feet

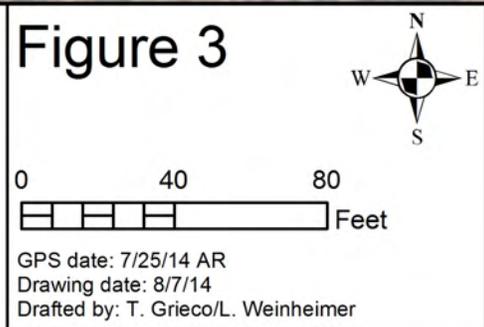
GPS date: 7/25/14 AR
 Drawing date: 8/7/14
 Drafted by: T. Grieco/L. Weinheimer

Location to Site for Direct Bury



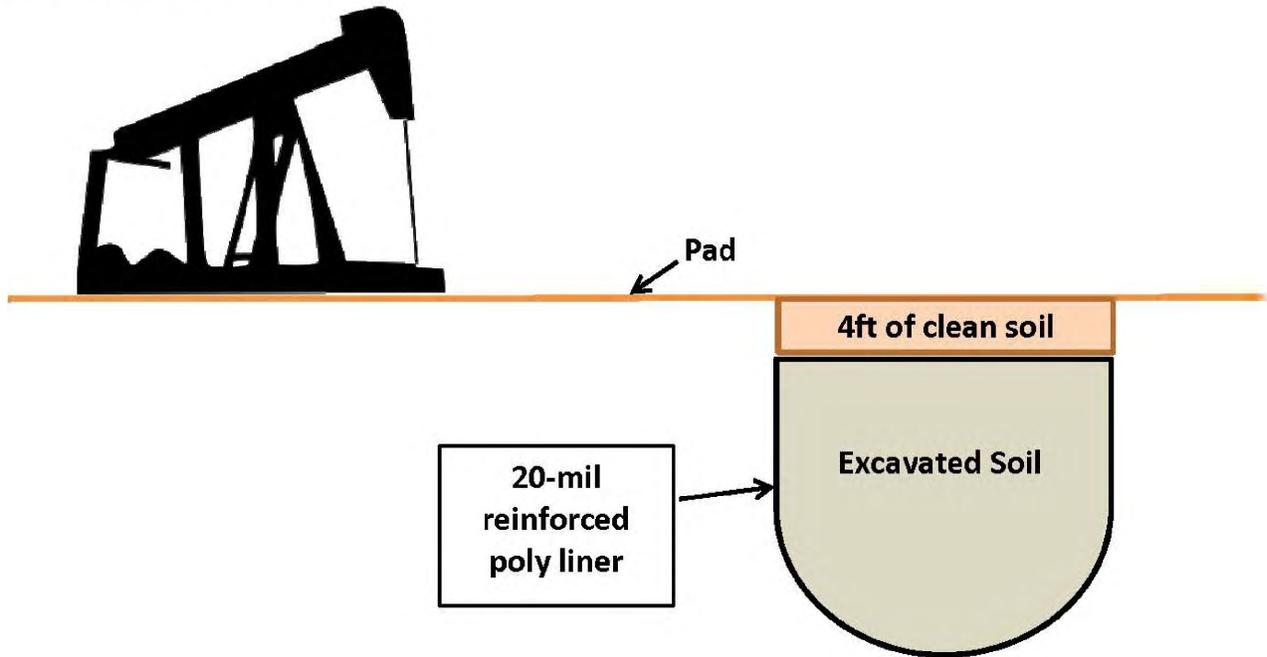
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EDDY COUNTY, NM



Direct Bury Under Lease Pad

Linn H.E. West B #51



***LINN H.E.
WEST B #51***

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T-17-S R-31-E
EDDY COUNTY, NM

Figure 4



Drawing date: 8/7/14
Drafted by: L. Weinheimer

Excavation Data

2 ft Excavation

| Wall Samples | Cl- | PID | GRO | DRO | B | T | E | X | BTEX |
|--------------|-----|-----|-----|-----|-------|-------|-------|-------|------|
| East Wall | 32 | 3.6 | <10 | <10 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |
| West Wall | <16 | 3.2 | <10 | <10 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |

Bottom Sample

| | | | | | | | | | |
|-------------------|-----|-----|-----|----|-------|-------|-------|-------|------|
| 3 point composite | 176 | 2.7 | <10 | 78 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |
|-------------------|-----|-----|-----|----|-------|-------|-------|-------|------|

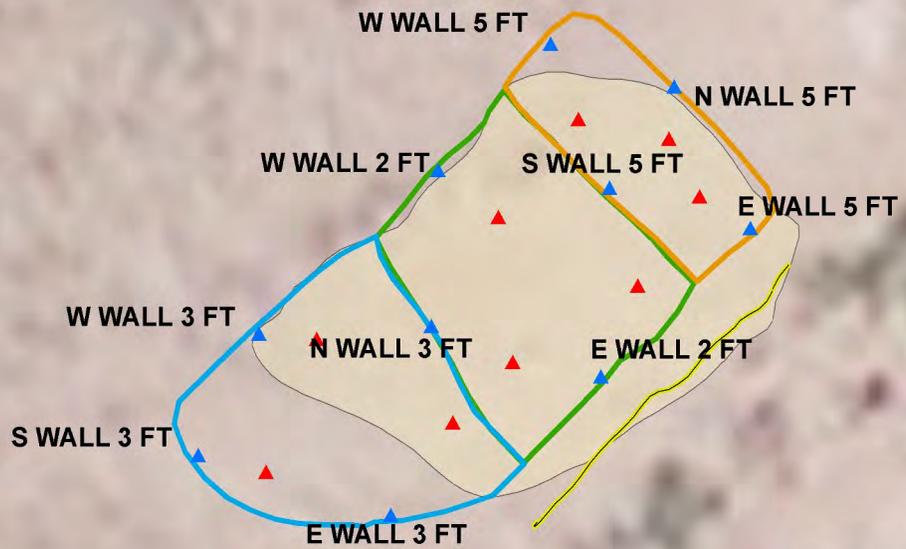
3 ft Excavation

| Wall Samples | Cl- | PID | GRO | DRO | B | T | E | X | BTEX |
|--------------|-----|-----|-----|-----|-------|-------|-------|-------|------|
| North Wall | 96 | | <10 | <10 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |
| South Wall | <16 | | <10 | <10 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |
| East Wall | 160 | 3.7 | <10 | <10 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |
| West Wall | <16 | 4.1 | <10 | <10 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |

Bottom Sample

| | | | | | | | | | |
|-------------------|-----|-----|-----|----|-------|-------|-------|-------|------|
| 3 point composite | 160 | 2.1 | <10 | 15 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |
|-------------------|-----|-----|-----|----|-------|-------|-------|-------|------|

| | |
|-------------------|-----|
| Backfill topsoil | Cl- |
| 5 point composite | 48 |



5 ft Excavation

| Wall Samples | Cl- | PID | GRO | DRO | B | T | E | X | BTEX |
|--------------|-----|-----|-----|-----|-------|-------|-------|-------|------|
| North Wall | 48 | 2.4 | <10 | <10 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |
| South Wall | 320 | 3.5 | <10 | <10 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |
| East Wall | <16 | 1.9 | <10 | <10 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |
| West Wall | 192 | 3.2 | <10 | <10 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |

Bottom Sample

| | | | | | | | | | |
|-------------------|----|--|-----|-----|-------|-------|-------|-------|------|
| 3 point composite | 64 | | <10 | <10 | <0.05 | <0.05 | <0.05 | <0.15 | <0.3 |
|-------------------|----|--|-----|-----|-------|-------|-------|-------|------|

Legend

- ▲ BOTTOM COMPOSITE SAMPLES
- ▲ FINAL WALL SAMPLES
- SURFACE PIPELINE
- EXCAVATION @ 3 FT
- EXCAVATION @ 5 FT
- EXCAVATION @ 2 FT
- STAIN- 1,636 SQ FT

Cl- FIELD DATA

Cl- LAB DATA

Landowner: BLM
DGW: None

Source: Esri, D
USDA, USGS,
User Communi



LINN H.E.
WEST B #51
NMOCD Case # 2RP-2441

UL C & D SECTION 10
T-17-S R-31-E
EDDY COUNTY, NM

Figure 5



0 10 20
Feet

GPS date: 9/30/14 KS
Drawing date: 10/2/14
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

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

OPERATOR Initial Report Final Report

| | |
|---|-----------------------------|
| Name of Company: Linn Operating | Contact: Brian Wall |
| Address: 2130 W. Bender Hobbs, NM 88240 | Telephone No.: 575-738-1739 |
| Facility Name: H.E. West B #51 | Facility Type: Oil Producer |

| | | |
|------------------------|----------------|-----------------------|
| Surface Owner: Federal | Mineral Owner: | API No.: 30-015-27110 |
|------------------------|----------------|-----------------------|

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| G | 10 | 17S | 31E | 1337 | North | 1363 | West | Eddy |

Latitude: 32.8526523684112 **Longitude:** -103.861754389473

NATURE OF RELEASE

| | | |
|--|---|--|
| Type of Release: Produced Water | Volume of Release: 10 bbls | Volume Recovered: 0 |
| Source of Release: Fiberglass pipeline | Date and Hour of Occurrence: 07/23/2014 | Date and Hour of Discovery: 07/23/2014 3:00pm |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Jeff Robertson- BLM / Mike Bratcher NMOCD | |
| By Whom? Brian Wall | Date and Hour 07/24/2014 0750 | |
| 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.*: Fiberglass line was exposed due to erosion caused by wind and rain. The line then failed due to the lack of structural support in the area exposed. The line was isolated and the leak stopped. No recovered fluid due to absorption in the sandy location.

Describe Area Affected and Cleanup Action Taken.* : The affected area is 30ft X 30ft.
Directions to Site: From intersection NM 360 and Eddy County 250 north on 250 for 1.2 mi, turn right to dirt road and follow for 1 mi to Y, stay left and follow road for .5 mi turn right and follow road for 2 mi, turn right follow road for .1 mi, left for .1 mi. location is on left side.

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: Brian Wall | Approved by District Supervisor:  | | |
| Title: Construction Foreman II | Approval Date: 8/14/14 | Expiration Date: N/A | |
| E-mail Address: bwall@linenergy.com Date: 07/24/2014 Phone: 806-367-0645 | Conditions of Approval: Remediation per OCD | | Attached <input type="checkbox"/> |

* Attach Additional Sheets If Necessary

Rules and Guidelines.
Submit Remediation
Proposal no later than:
9/14/2014

Appendix B

Initial Sampling Labs

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



August 04, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: H. E. WEST B #51

Enclosed are the results of analyses for samples received by the laboratory on 07/28/14 16:00.

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

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

| | | | |
|-------------------|------------------|---------------------|---------------|
| Received: | 07/28/2014 | Sampling Date: | 07/28/2014 |
| Reported: | 08/04/2014 | Sampling Type: | Soil |
| Project Name: | H. E. WEST B #51 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: POINT 3 @ 4' (H402307-01)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | S-04 | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2014 | ND | 1.75 | 87.3 | 2.00 | 2.83 | |
| Toluene* | <0.050 | 0.050 | 07/31/2014 | ND | 1.78 | 89.1 | 2.00 | 5.77 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2014 | ND | 1.77 | 88.6 | 2.00 | 4.92 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2014 | ND | 5.38 | 89.6 | 6.00 | 5.16 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 87.6 % 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 | 5760 | 16.0 | 08/01/2014 | ND | 400 | 100 | 400 | 7.69 | |

| 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 | 07/30/2014 | ND | 189 | 94.6 | 200 | 10.2 | |
| DRO >C10-C28 | 30.8 | 10.0 | 07/30/2014 | ND | 211 | 106 | 200 | 16.6 | |

Surrogate: 1-Chlorooctane 76.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.3 % 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
 LAURA FLORES
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

| | | | |
|-------------------|------------------|---------------------|---------------|
| Received: | 07/28/2014 | Sampling Date: | 07/28/2014 |
| Reported: | 08/04/2014 | Sampling Type: | Soil |
| Project Name: | H. E. WEST B #51 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: POINT 3 @ 5' (H402307-02)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | S-04 | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2014 | ND | 1.75 | 87.3 | 2.00 | 2.83 | |
| Toluene* | <0.050 | 0.050 | 07/31/2014 | ND | 1.78 | 89.1 | 2.00 | 5.77 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2014 | ND | 1.77 | 88.6 | 2.00 | 4.92 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2014 | ND | 5.38 | 89.6 | 6.00 | 5.16 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 86.5 % 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 | 240 | 16.0 | 08/01/2014 | ND | 400 | 100 | 400 | 7.69 | |

| 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 | 07/29/2014 | ND | 189 | 94.6 | 200 | 10.2 | |
| DRO >C10-C28 | <10.0 | 10.0 | 07/29/2014 | ND | 211 | 106 | 200 | 16.6 | |

Surrogate: 1-Chlorooctane 71.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 80.0 % 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
 LAURA FLORES
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

| | | | |
|-------------------|------------------|---------------------|---------------|
| Received: | 07/28/2014 | Sampling Date: | 07/28/2014 |
| Reported: | 08/04/2014 | Sampling Type: | Soil |
| Project Name: | H. E. WEST B #51 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: POINT 3 @ 6' (H402307-03)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | S-04 | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 07/31/2014 | ND | 1.75 | 87.3 | 2.00 | 2.83 | |
| Toluene* | <0.050 | 0.050 | 07/31/2014 | ND | 1.78 | 89.1 | 2.00 | 5.77 | |
| Ethylbenzene* | <0.050 | 0.050 | 07/31/2014 | ND | 1.77 | 88.6 | 2.00 | 4.92 | |
| Total Xylenes* | <0.150 | 0.150 | 07/31/2014 | ND | 5.38 | 89.6 | 6.00 | 5.16 | |
| Total BTEX | <0.300 | 0.300 | 07/31/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 86.6 % 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 | 224 | 16.0 | 08/01/2014 | ND | 400 | 100 | 400 | 7.69 | |

| 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 | 07/30/2014 | ND | 189 | 94.6 | 200 | 10.2 | |
| DRO >C10-C28 | <10.0 | 10.0 | 07/30/2014 | ND | 211 | 106 | 200 | 16.6 | |

Surrogate: 1-Chlorooctane 67.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 75.2 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- A-01 Surrogate recovery marginally low. Target analytes within 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



August 06, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: WEST B #51

Enclosed are the results of analyses for samples received by the laboratory on 07/29/14 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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
 LAURA FLORES
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

| | | | |
|-------------------|------------|---------------------|---------------|
| Received: | 07/29/2014 | Sampling Date: | 07/25/2014 |
| Reported: | 08/06/2014 | Sampling Type: | Soil |
| Project Name: | WEST B #51 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Kathy Perez |
| Project Location: | LINN | | |

Sample ID: PT. 1 SS (H402322-01)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|-----------------------|-------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 6.44 | 2.00 | 08/01/2014 | ND | 1.89 | 94.7 | 2.00 | 6.63 | |
| Toluene* | 25.8 | 2.00 | 08/01/2014 | ND | 1.89 | 94.5 | 2.00 | 5.95 | |
| Ethylbenzene* | 44.0 | 2.00 | 08/01/2014 | ND | 1.83 | 91.7 | 2.00 | 6.35 | |
| Total Xylenes* | 75.2 | 6.00 | 08/01/2014 | ND | 5.63 | 93.8 | 6.00 | 6.25 | |
| Total BTEX | 151 | 12.0 | 08/01/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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 | 1880 | 16.0 | 08/01/2014 | ND | 416 | 104 | 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 | 2840 | 500 | 07/30/2014 | ND | 177 | 88.6 | 200 | 4.94 | | |
| DRO >C10-C28 | 20000 | 500 | 07/30/2014 | ND | 186 | 93.2 | 200 | 4.87 | | |

Surrogate: 1-Chlorooctane 155 % 65.2-140

Surrogate: 1-Chlorooctadecane 606 % 63.6-154

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

| | | | |
|-------------------|------------|---------------------|---------------|
| Received: | 07/29/2014 | Sampling Date: | 07/25/2014 |
| Reported: | 08/06/2014 | Sampling Type: | Soil |
| Project Name: | WEST B #51 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Kathy Perez |
| Project Location: | LINN | | |

Sample ID: PT. 1 1' (H402322-02)

| 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 | 08/01/2014 | ND | 1.89 | 94.7 | 2.00 | 6.63 | |
| Toluene* | <0.050 | 0.050 | 08/01/2014 | ND | 1.89 | 94.5 | 2.00 | 5.95 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/01/2014 | ND | 1.83 | 91.7 | 2.00 | 6.35 | |
| Total Xylenes* | <0.150 | 0.150 | 08/01/2014 | ND | 5.63 | 93.8 | 6.00 | 6.25 | |
| Total BTEX | <0.300 | 0.300 | 08/01/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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 | 2320 | 16.0 | 08/01/2014 | ND | 416 | 104 | 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 | 07/30/2014 | ND | 177 | 88.6 | 200 | 4.94 | |
| DRO >C10-C28 | 88.1 | 10.0 | 07/30/2014 | ND | 186 | 93.2 | 200 | 4.87 | |

Surrogate: 1-Chlorooctane 84.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.5 % 63.6-154

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 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 07/29/2014
 Reported: 08/06/2014
 Project Name: WEST B #51
 Project Number: NONE GIVEN
 Project Location: LINN

 Sampling Date: 07/25/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: PT. 1 3' (H402322-03)

| 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 | 08/01/2014 | ND | 1.89 | 94.7 | 2.00 | 6.63 | | |
| Toluene* | <0.050 | 0.050 | 08/01/2014 | ND | 1.89 | 94.5 | 2.00 | 5.95 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/01/2014 | ND | 1.83 | 91.7 | 2.00 | 6.35 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/01/2014 | ND | 5.63 | 93.8 | 6.00 | 6.25 | | |
| Total BTEX | <0.300 | 0.300 | 08/01/2014 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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 | 368 | 16.0 | 08/01/2014 | ND | 416 | 104 | 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 | 07/31/2014 | ND | 155 | 77.3 | 200 | 7.73 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 07/31/2014 | ND | 167 | 83.6 | 200 | 6.45 | | |

Surrogate: 1-Chlorooctane 79.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.5 % 63.6-154

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

 Received: 07/29/2014
 Reported: 08/06/2014
 Project Name: WEST B #51
 Project Number: NONE GIVEN
 Project Location: LINN

 Sampling Date: 07/25/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: PT. 1 4' (H402322-04)

| 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 | 08/01/2014 | ND | 1.89 | 94.7 | 2.00 | 6.63 | | |
| Toluene* | <0.050 | 0.050 | 08/01/2014 | ND | 1.89 | 94.5 | 2.00 | 5.95 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/01/2014 | ND | 1.83 | 91.7 | 2.00 | 6.35 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/01/2014 | ND | 5.63 | 93.8 | 6.00 | 6.25 | | |
| Total BTEX | <0.300 | 0.300 | 08/01/2014 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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 | 80.0 | 16.0 | 08/01/2014 | 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 | 07/31/2014 | ND | 155 | 77.3 | 200 | 7.73 | | |
| DRO >C10-C28 | 40.6 | 10.0 | 07/31/2014 | ND | 167 | 83.6 | 200 | 6.45 | | |

Surrogate: 1-Chlorooctane 81.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.6 % 63.6-154

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

| | | | |
|-------------------|------------|---------------------|---------------|
| Received: | 07/29/2014 | Sampling Date: | 07/25/2014 |
| Reported: | 08/06/2014 | Sampling Type: | Soil |
| Project Name: | WEST B #51 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Kathy Perez |
| Project Location: | LINN | | |

Sample ID: PT. 2 SS (H402322-05)

| 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 | 08/01/2014 | ND | 1.89 | 94.7 | 2.00 | 6.63 | |
| Toluene* | 0.104 | 0.050 | 08/01/2014 | ND | 1.89 | 94.5 | 2.00 | 5.95 | |
| Ethylbenzene* | 0.135 | 0.050 | 08/01/2014 | ND | 1.83 | 91.7 | 2.00 | 6.35 | |
| Total Xylenes* | 0.290 | 0.150 | 08/01/2014 | ND | 5.63 | 93.8 | 6.00 | 6.25 | |
| Total BTEX | 0.529 | 0.300 | 08/01/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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 | 1340 | 16.0 | 08/01/2014 | 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 | <50.0 | 50.0 | 07/31/2014 | ND | 155 | 77.3 | 200 | 7.73 | |
| DRO >C10-C28 | 2340 | 50.0 | 07/31/2014 | ND | 167 | 83.6 | 200 | 6.45 | |

Surrogate: 1-Chlorooctane 76.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 130 % 63.6-154

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

 Received: 07/29/2014
 Reported: 08/06/2014
 Project Name: WEST B #51
 Project Number: NONE GIVEN
 Project Location: LINN

 Sampling Date: 07/25/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: PT. 2 6" (H402322-06)

| 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 | 08/01/2014 | ND | 1.89 | 94.7 | 2.00 | 6.63 | | |
| Toluene* | <0.050 | 0.050 | 08/01/2014 | ND | 1.89 | 94.5 | 2.00 | 5.95 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/01/2014 | ND | 1.83 | 91.7 | 2.00 | 6.35 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/01/2014 | ND | 5.63 | 93.8 | 6.00 | 6.25 | | |
| Total BTEX | <0.300 | 0.300 | 08/01/2014 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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 | 2080 | 16.0 | 08/01/2014 | 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 | 07/31/2014 | ND | 155 | 77.3 | 200 | 7.73 | | |
| DRO >C10-C28 | 58.1 | 10.0 | 07/31/2014 | ND | 167 | 83.6 | 200 | 6.45 | | |

Surrogate: 1-Chlorooctane 81.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.4 % 63.6-154

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 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 07/29/2014
 Reported: 08/06/2014
 Project Name: WEST B #51
 Project Number: NONE GIVEN
 Project Location: LINN

 Sampling Date: 07/25/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: PT. 2 2' (H402322-07)

| 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 | 08/01/2014 | ND | 1.89 | 94.7 | 2.00 | 6.63 | | |
| Toluene* | <0.050 | 0.050 | 08/01/2014 | ND | 1.89 | 94.5 | 2.00 | 5.95 | | |
| Ethylbenzene* | <0.050 | 0.050 | 08/01/2014 | ND | 1.83 | 91.7 | 2.00 | 6.35 | | |
| Total Xylenes* | <0.150 | 0.150 | 08/01/2014 | ND | 5.63 | 93.8 | 6.00 | 6.25 | | |
| Total BTEX | <0.300 | 0.300 | 08/01/2014 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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 | 64.0 | 16.0 | 08/01/2014 | 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 | 07/31/2014 | ND | 155 | 77.3 | 200 | 7.73 | | |
| DRO >C10-C28 | 54.0 | 10.0 | 07/31/2014 | ND | 167 | 83.6 | 200 | 6.45 | | |

Surrogate: 1-Chlorooctane 82.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.5 % 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
 LAURA FLORES
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 07/29/2014
 Reported: 08/06/2014
 Project Name: WEST B #51
 Project Number: NONE GIVEN
 Project Location: LINN

 Sampling Date: 07/25/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: PT. 2 3' (H402322-08)

| 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 | 08/01/2014 | ND | 1.89 | 94.7 | 2.00 | 6.63 | |
| Toluene* | <0.050 | 0.050 | 08/01/2014 | ND | 1.89 | 94.5 | 2.00 | 5.95 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/01/2014 | ND | 1.83 | 91.7 | 2.00 | 6.35 | |
| Total Xylenes* | <0.150 | 0.150 | 08/01/2014 | ND | 5.63 | 93.8 | 6.00 | 6.25 | |
| Total BTEX | <0.300 | 0.300 | 08/01/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 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 | 64.0 | 16.0 | 08/01/2014 | 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 | 07/31/2014 | ND | 155 | 77.3 | 200 | 7.73 | |
| DRO >C10-C28 | 48.8 | 10.0 | 07/31/2014 | ND | 167 | 83.6 | 200 | 6.45 | |

Surrogate: 1-Chlorooctane 82.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.3 % 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
 LAURA FLORES
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

| | | | |
|-------------------|------------|---------------------|---------------|
| Received: | 07/29/2014 | Sampling Date: | 07/25/2014 |
| Reported: | 08/06/2014 | Sampling Type: | Soil |
| Project Name: | WEST B #51 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Kathy Perez |
| Project Location: | LINN | | |

Sample ID: PT. 3 SS (H402322-09)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | S-04 | |
|-----------------------|--------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 0.837 | 0.500 | 08/01/2014 | ND | 1.89 | 94.7 | 2.00 | 6.63 | |
| Toluene* | 5.93 | 0.500 | 08/01/2014 | ND | 1.89 | 94.5 | 2.00 | 5.95 | |
| Ethylbenzene* | 20.0 | 0.500 | 08/01/2014 | ND | 1.83 | 91.7 | 2.00 | 6.35 | |
| Total Xylenes* | 44.3 | 1.50 | 08/01/2014 | ND | 5.63 | 93.8 | 6.00 | 6.25 | |
| Total BTEX | 71.0 | 3.00 | 08/01/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 158 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | S-06 | |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 3360 | 16.0 | 08/01/2014 | 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 | 837 | 200 | 08/02/2014 | ND | 179 | 89.3 | 200 | 10.2 | |
| DRO >C10-C28 | 8600 | 200 | 08/02/2014 | ND | 181 | 90.3 | 200 | 10.8 | |

Surrogate: 1-Chlorooctane 218 % 65.2-140

Surrogate: 1-Chlorooctadecane 268 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 07/29/2014
 Reported: 08/06/2014
 Project Name: WEST B #51
 Project Number: NONE GIVEN
 Project Location: LINN

 Sampling Date: 07/25/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: PT. 3 4' (H402322-10)

| 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 | 08/01/2014 | ND | 1.89 | 94.7 | 2.00 | 6.63 | |
| Toluene* | <0.050 | 0.050 | 08/01/2014 | ND | 1.89 | 94.5 | 2.00 | 5.95 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/01/2014 | ND | 1.83 | 91.7 | 2.00 | 6.35 | |
| Total Xylenes* | <0.150 | 0.150 | 08/01/2014 | ND | 5.63 | 93.8 | 6.00 | 6.25 | |
| Total BTEX | <0.300 | 0.300 | 08/01/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 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 | 3760 | 16.0 | 08/01/2014 | 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 | 08/02/2014 | ND | 179 | 89.3 | 200 | 10.2 | |
| DRO >C10-C28 | 73.6 | 10.0 | 08/02/2014 | ND | 181 | 90.3 | 200 | 10.8 | |

Surrogate: 1-Chlorooctane 95.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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* = Accredited Analyte

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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.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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 SM450Cl-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

Appendix C

Corrective Action Labs

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



October 02, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: H. E. WEST B #51

Enclosed are the results of analyses for samples received by the laboratory on 09/30/14 16:17.

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

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 09/30/2014 | Sampling Date: | 09/30/2014 |
| Reported: | 10/02/2014 | Sampling Type: | Soil |
| Project Name: | H. E. WEST B #51 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Celey D. Keene |
| Project Location: | NOT GIVEN | | |

Sample ID: EAST WALL 2' (H402986-01)

| 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 | 10/01/2014 | ND | 1.50 | 75.1 | 2.00 | 0.577 | | |
| Toluene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.45 | 72.6 | 2.00 | 2.03 | | |
| Ethylbenzene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.36 | 68.2 | 2.00 | 1.90 | | |
| Total Xylenes* | <0.150 | 0.150 | 10/01/2014 | ND | 4.05 | 67.5 | 6.00 | 1.60 | | |
| Total BTEX | <0.300 | 0.300 | 10/01/2014 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 32.0 | 16.0 | 10/01/2014 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <10.0 | 10.0 | 10/01/2014 | ND | 192 | 96.2 | 200 | 3.58 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/01/2014 | ND | 206 | 103 | 200 | 2.67 | | |

Surrogate: 1-Chlorooctane 98.0 % 47.2-157
Surrogate: 1-Chlorooctadecane 109 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 09/30/2014 | Sampling Date: | 09/30/2014 |
| Reported: | 10/02/2014 | Sampling Type: | Soil |
| Project Name: | H. E. WEST B #51 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Celey D. Keene |
| Project Location: | NOT GIVEN | | |

Sample ID: WEST WALL 2' (H402986-02)

| 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 | 10/01/2014 | ND | 1.50 | 75.1 | 2.00 | 0.577 | | |
| Toluene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.45 | 72.6 | 2.00 | 2.03 | | |
| Ethylbenzene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.36 | 68.2 | 2.00 | 1.90 | | |
| Total Xylenes* | <0.150 | 0.150 | 10/01/2014 | ND | 4.05 | 67.5 | 6.00 | 1.60 | | |
| Total BTEX | <0.300 | 0.300 | 10/01/2014 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 61-154

| 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 | 10/01/2014 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <10.0 | 10.0 | 10/01/2014 | ND | 192 | 96.2 | 200 | 3.58 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/01/2014 | ND | 206 | 103 | 200 | 2.67 | | |

Surrogate: 1-Chlorooctane 97.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 109 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 09/30/2014 | Sampling Date: | 09/30/2014 |
| Reported: | 10/02/2014 | Sampling Type: | Soil |
| Project Name: | H. E. WEST B #51 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Celey D. Keene |
| Project Location: | NOT GIVEN | | |

Sample ID: 3 PT COMP 2' (H402986-03)

| 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 | 10/01/2014 | ND | 1.50 | 75.1 | 2.00 | 0.577 | | |
| Toluene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.45 | 72.6 | 2.00 | 2.03 | | |
| Ethylbenzene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.36 | 68.2 | 2.00 | 1.90 | | |
| Total Xylenes* | <0.150 | 0.150 | 10/01/2014 | ND | 4.05 | 67.5 | 6.00 | 1.60 | | |
| Total BTEX | <0.300 | 0.300 | 10/01/2014 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 100 % 61-154

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 176 | 16.0 | 10/01/2014 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | | |
|------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <10.0 | 10.0 | 10/01/2014 | ND | 192 | 96.2 | 200 | 3.58 | | |
| DRO >C10-C28 | 78.0 | 10.0 | 10/01/2014 | ND | 206 | 103 | 200 | 2.67 | | |

Surrogate: 1-Chlorooctane 98.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 113 % 52.1-176

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*=Accredited Analyte

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

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 09/30/2014 | Sampling Date: | 09/30/2014 |
| Reported: | 10/02/2014 | Sampling Type: | Soil |
| Project Name: | H. E. WEST B #51 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Celey D. Keene |
| Project Location: | NOT GIVEN | | |

Sample ID: NORTH WALL 3' (H402986-04)

| 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 | 10/01/2014 | ND | 1.50 | 75.1 | 2.00 | 0.577 | | |
| Toluene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.45 | 72.6 | 2.00 | 2.03 | | |
| Ethylbenzene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.36 | 68.2 | 2.00 | 1.90 | | |
| Total Xylenes* | <0.150 | 0.150 | 10/01/2014 | ND | 4.05 | 67.5 | 6.00 | 1.60 | | |
| Total BTEX | <0.300 | 0.300 | 10/01/2014 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 61-154

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 96.0 | 16.0 | 10/01/2014 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <10.0 | 10.0 | 10/01/2014 | ND | 192 | 96.2 | 200 | 3.58 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/01/2014 | ND | 206 | 103 | 200 | 2.67 | | |

Surrogate: 1-Chlorooctane 95.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 105 % 52.1-176

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

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 09/30/2014 | Sampling Date: | 09/30/2014 |
| Reported: | 10/02/2014 | Sampling Type: | Soil |
| Project Name: | H. E. WEST B #51 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Celey D. Keene |
| Project Location: | NOT GIVEN | | |

Sample ID: SOUTH WALL 3' (H402986-05)

| 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 | 10/01/2014 | ND | 1.50 | 75.1 | 2.00 | 0.577 | | |
| Toluene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.45 | 72.6 | 2.00 | 2.03 | | |
| Ethylbenzene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.36 | 68.2 | 2.00 | 1.90 | | |
| Total Xylenes* | <0.150 | 0.150 | 10/01/2014 | ND | 4.05 | 67.5 | 6.00 | 1.60 | | |
| Total BTEX | <0.300 | 0.300 | 10/01/2014 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 100 % 61-154

| 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 | 10/01/2014 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <10.0 | 10.0 | 10/01/2014 | ND | 192 | 96.2 | 200 | 3.58 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/01/2014 | ND | 206 | 103 | 200 | 2.67 | | |

Surrogate: 1-Chlorooctane 92.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 102 % 52.1-176

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

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 09/30/2014 | Sampling Date: | 09/30/2014 |
| Reported: | 10/02/2014 | Sampling Type: | Soil |
| Project Name: | H. E. WEST B #51 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Celey D. Keene |
| Project Location: | NOT GIVEN | | |

Sample ID: EAST WALL 3' (H402986-06)

| 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 | 10/01/2014 | ND | 1.50 | 75.1 | 2.00 | 0.577 | | |
| Toluene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.45 | 72.6 | 2.00 | 2.03 | | |
| Ethylbenzene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.36 | 68.2 | 2.00 | 1.90 | | |
| Total Xylenes* | <0.150 | 0.150 | 10/01/2014 | ND | 4.05 | 67.5 | 6.00 | 1.60 | | |
| Total BTEX | <0.300 | 0.300 | 10/01/2014 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 61-154

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 160 | 16.0 | 10/01/2014 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <10.0 | 10.0 | 10/01/2014 | ND | 192 | 96.2 | 200 | 3.58 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/01/2014 | ND | 206 | 103 | 200 | 2.67 | | |

Surrogate: 1-Chlorooctane 96.5 % 47.2-157
Surrogate: 1-Chlorooctadecane 108 % 52.1-176

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

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 09/30/2014 | Sampling Date: | 09/30/2014 |
| Reported: | 10/02/2014 | Sampling Type: | Soil |
| Project Name: | H. E. WEST B #51 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Celey D. Keene |
| Project Location: | NOT GIVEN | | |

Sample ID: WEST WALL 3' (H402986-07)

| 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 | 10/01/2014 | ND | 1.50 | 75.1 | 2.00 | 0.577 | |
| Toluene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.45 | 72.6 | 2.00 | 2.03 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.36 | 68.2 | 2.00 | 1.90 | |
| Total Xylenes* | <0.150 | 0.150 | 10/01/2014 | ND | 4.05 | 67.5 | 6.00 | 1.60 | |
| Total BTEX | <0.300 | 0.300 | 10/01/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 61-154

| Chloride, SM4500CI-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 | 10/01/2014 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/01/2014 | ND | 192 | 96.2 | 200 | 3.58 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/01/2014 | ND | 206 | 103 | 200 | 2.67 | |

Surrogate: 1-Chlorooctane 93.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 103 % 52.1-176

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 HOBBS NM, 88240
 Fax To: (575) 397-1471

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 09/30/2014 | Sampling Date: | 09/30/2014 |
| Reported: | 10/02/2014 | Sampling Type: | Soil |
| Project Name: | H. E. WEST B #51 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Celey D. Keene |
| Project Location: | NOT GIVEN | | |

Sample ID: 3 PT COMPOSITE 3' (H402986-08)

| 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 | 10/01/2014 | ND | 1.50 | 75.1 | 2.00 | 0.577 | |
| Toluene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.45 | 72.6 | 2.00 | 2.03 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.36 | 68.2 | 2.00 | 1.90 | |
| Total Xylenes* | <0.150 | 0.150 | 10/01/2014 | ND | 4.05 | 67.5 | 6.00 | 1.60 | |
| Total BTEX | <0.300 | 0.300 | 10/01/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 61-154

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 10/01/2014 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/01/2014 | ND | 192 | 96.2 | 200 | 3.58 | |
| DRO >C10-C28 | 15.0 | 10.0 | 10/01/2014 | ND | 206 | 103 | 200 | 2.67 | |

Surrogate: 1-Chlorooctane 96.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 104 % 52.1-176

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

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 09/30/2014 | Sampling Date: | 09/30/2014 |
| Reported: | 10/02/2014 | Sampling Type: | Soil |
| Project Name: | H. E. WEST B #51 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Celey D. Keene |
| Project Location: | NOT GIVEN | | |

Sample ID: NORTH WALL 5' (H402986-09)

| 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 | 10/01/2014 | ND | 1.50 | 75.1 | 2.00 | 0.577 | | |
| Toluene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.45 | 72.6 | 2.00 | 2.03 | | |
| Ethylbenzene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.36 | 68.2 | 2.00 | 1.90 | | |
| Total Xylenes* | <0.150 | 0.150 | 10/01/2014 | ND | 4.05 | 67.5 | 6.00 | 1.60 | | |
| Total BTEX | <0.300 | 0.300 | 10/01/2014 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 61-154

| 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 | 10/01/2014 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <10.0 | 10.0 | 10/01/2014 | ND | 192 | 96.2 | 200 | 3.58 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/01/2014 | ND | 206 | 103 | 200 | 2.67 | | |

Surrogate: 1-Chlorooctane 94.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 103 % 52.1-176

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 HOBBS NM, 88240
 Fax To: (575) 397-1471

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 09/30/2014 | Sampling Date: | 09/30/2014 |
| Reported: | 10/02/2014 | Sampling Type: | Soil |
| Project Name: | H. E. WEST B #51 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Celey D. Keene |
| Project Location: | NOT GIVEN | | |

Sample ID: SOUTH WALL 5' (H402986-10)

| 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 | 10/01/2014 | ND | 1.50 | 75.1 | 2.00 | 0.577 | | |
| Toluene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.45 | 72.6 | 2.00 | 2.03 | | |
| Ethylbenzene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.36 | 68.2 | 2.00 | 1.90 | | |
| Total Xylenes* | <0.150 | 0.150 | 10/01/2014 | ND | 4.05 | 67.5 | 6.00 | 1.60 | | |
| Total BTEX | <0.300 | 0.300 | 10/01/2014 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 61-154

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 320 | 16.0 | 10/01/2014 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <10.0 | 10.0 | 10/01/2014 | ND | 192 | 96.2 | 200 | 3.58 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/01/2014 | ND | 206 | 103 | 200 | 2.67 | | |

Surrogate: 1-Chlorooctane 98.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 106 % 52.1-176

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 HOBBS NM, 88240
 Fax To: (575) 397-1471

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 09/30/2014 | Sampling Date: | 09/30/2014 |
| Reported: | 10/02/2014 | Sampling Type: | Soil |
| Project Name: | H. E. WEST B #51 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Celey D. Keene |
| Project Location: | NOT GIVEN | | |

Sample ID: EAST WALL 5' (H402986-11)

| 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 | 10/01/2014 | ND | 1.50 | 75.1 | 2.00 | 0.577 | | |
| Toluene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.45 | 72.6 | 2.00 | 2.03 | | |
| Ethylbenzene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.36 | 68.2 | 2.00 | 1.90 | | |
| Total Xylenes* | <0.150 | 0.150 | 10/01/2014 | ND | 4.05 | 67.5 | 6.00 | 1.60 | | |
| Total BTEX | <0.300 | 0.300 | 10/01/2014 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 61-154

| 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 | 10/01/2014 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <10.0 | 10.0 | 10/01/2014 | ND | 192 | 96.2 | 200 | 3.58 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/01/2014 | ND | 206 | 103 | 200 | 2.67 | | |

Surrogate: 1-Chlorooctane 87.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 97.8 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 09/30/2014 | Sampling Date: | 09/30/2014 |
| Reported: | 10/02/2014 | Sampling Type: | Soil |
| Project Name: | H. E. WEST B #51 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Celey D. Keene |
| Project Location: | NOT GIVEN | | |

Sample ID: WEST WALL 5' (H402986-12)

| 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 | 10/01/2014 | ND | 1.50 | 75.1 | 2.00 | 0.577 | |
| Toluene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.45 | 72.6 | 2.00 | 2.03 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.36 | 68.2 | 2.00 | 1.90 | |
| Total Xylenes* | <0.150 | 0.150 | 10/01/2014 | ND | 4.05 | 67.5 | 6.00 | 1.60 | |
| Total BTEX | <0.300 | 0.300 | 10/01/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 61-154

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 192 | 16.0 | 10/01/2014 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/01/2014 | ND | 192 | 96.2 | 200 | 3.58 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/01/2014 | ND | 206 | 103 | 200 | 2.67 | |

Surrogate: 1-Chlorooctane 89.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 96.3 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 09/30/2014 | Sampling Date: | 09/30/2014 |
| Reported: | 10/02/2014 | Sampling Type: | Soil |
| Project Name: | H. E. WEST B #51 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Celey D. Keene |
| Project Location: | NOT GIVEN | | |

Sample ID: 3 POINT COMP 5' (H402986-13)

| 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 | 10/01/2014 | ND | 1.50 | 75.1 | 2.00 | 0.577 | |
| Toluene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.45 | 72.6 | 2.00 | 2.03 | |
| Ethylbenzene* | <0.050 | 0.050 | 10/01/2014 | ND | 1.36 | 68.2 | 2.00 | 1.90 | |
| Total Xylenes* | <0.150 | 0.150 | 10/01/2014 | ND | 4.05 | 67.5 | 6.00 | 1.60 | |
| Total BTEX | <0.300 | 0.300 | 10/01/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 61-154

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 10/01/2014 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | mg/kg | | Analyzed By: ms | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 10/01/2014 | ND | 192 | 96.2 | 200 | 3.58 | |
| DRO >C10-C28 | <10.0 | 10.0 | 10/01/2014 | ND | 206 | 103 | 200 | 2.67 | |

Surrogate: 1-Chlorooctane 91.6 % 47.2-157
Surrogate: 1-Chlorooctadecane 99.9 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

10/2

| Company Name: RECS | | BILL TO | | | | ANALYSIS REQUEST | | | | | | | | | | | | | | | | | | | |
|--|----------------------|------------------------------|-------------|------------|------|------------------|--|--|---|--|---------|------|---|---|---|-----|--------|--------|------------|------------|--------|------|------|-----|-----|
| Project Manager: Laura Flores, Jacob Kampman | | P.O. #: | | | | | | | | | | | | | | | | | | | | | | | |
| Address: | | Company: | | | | | | | | | | | | | | | | | | | | | | | |
| City: | State: | Zip: | Attn: | | | | | | | | | | | | | | | | | | | | | | |
| Phone #: | Fax #: | | Address: | | | | | | | | | | | | | | | | | | | | | | |
| Project #: | Project Owner: | | City: | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: | | | State: | | Zip: | | | | | | | | | | | | | | | | | | | | |
| Project Location: M.E. West B #51 | | | Phone #: | | | | | | | | | | | | | | | | | | | | | | |
| Sampler Name: Kyle Schmidt | | | Fax #: | | | | | | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lab I.D. | Sample I.D. | (GRAB OR (COMP. # CONTAINERS | GROUNDWATER | WASTEWATER | SOIL | | | | | | | | | | | OIL | SLUDGE | OTHER: | ACID/BASE: | ICE / COOL | OTHER: | DATE | TIME | CI' | TPH |
| #402986-01 | East Wall 2' | G 1 | | X | | | | | X | | 9-30-14 | 1:10 | X | X | X | | | | | | | | | | |
| 02 | West wall 2' | G 1 | | X | | | | | X | | } | 1:15 | X | X | X | | | | | | | | | | |
| 03 | 3 point composite 2' | C 1 | | X | | | | | X | | | 1:20 | X | X | X | | | | | | | | | | |
| 04 | North wall 3' | G 1 | | X | | | | | X | | | 1:25 | X | X | X | | | | | | | | | | |
| 05 | South wall 3' | G 1 | | X | | | | | X | | | 1:30 | X | X | X | | | | | | | | | | |
| 06 | East wall 3' | G 1 | | X | | | | | X | | | 1:35 | X | X | X | | | | | | | | | | |
| 07 | West wall 3' | G 1 | | X | | | | | X | | | 1:40 | X | X | X | | | | | | | | | | |
| 08 | 3 point composite 3' | C 1 | | X | | | | | X | | | 1:45 | X | X | X | | | | | | | | | | |
| 09 | North wall 5' | G 1 | | X | | | | | X | | | 1:50 | X | X | X | | | | | | | | | | |
| 10 | South wall 5' | G 1 | | X | | | | | X | | | 1:55 | X | X | X | | | | | | | | | | |

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| | | | | |
|-------------------------------|---|--------------------------|--|----------------|
| Relinquished By: Kyle Schmidt | Date: 9-30-14 Time: 4:17p | Received By: [Signature] | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | Add'l Phone #: |
| Relinquished By: | Date: | Received By: | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | Add'l Fax #: |
| Delivered By: (Circle One) | Sample Condition | CHECKED BY: (Initials) | REMARKS: All plz RUSH!! | |
| Sampler - UPS - Bus - Other: | Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No | 4.4°C | | |

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 #54



October 28, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: H. E. WEST B #51

Enclosed are the results of analyses for samples received by the laboratory on 10/27/14 16:15.

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

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

| | | | |
|-------------------|------------------|---------------------|---------------|
| Received: | 10/27/2014 | Sampling Date: | 10/27/2014 |
| Reported: | 10/28/2014 | Sampling Type: | Soil |
| Project Name: | H. E. WEST B #51 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: 5 PT. COMP BACKFILL TOPSOIL (H403300-01)

| 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 | 10/28/2014 | ND | 400 | 100 | 400 | 0.00 | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

| | |
|-----|--|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |



Celey D. Keene, Lab Director/Quality Manager

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 #51
Unit Letter C&D, Section 10, T17S, R31E



Source of release, facing southeast 7/28/14



Initial release area, facing southeast 7/28/14



Initial release area, facing southwest 7/28/14



Initial release area, facing northwest 7/28/14



2013-02-01

Importing caliche, facing southwest

9/4/14



2013-02-01

Constructing caliche road to facilitate excavation activities, facing southwest

9/4/14



2013-02-01

Caliche road completed, facing south

9/4/14



2014/09/10

Excavating to 2 ft, facing southeast

9/10/14



Excavating to 5 ft, facing southwest 9/16/14



Excavating to 3 ft, facing southwest 9/17/14



Excavating to 8 ft for direct bury, facing northwest 9/22/14



Continuing to excavate to 8 ft for direct bury, facing northeast 9/23/14



Excavation of release completed, facing northwest
9/24/14



Importing soil from direct bury for backfill, facing east
9/24/14



Completed 8 ft excavation, facing southwest
9/24/14



Installing 20-mil liner in 8 ft excavation, facing southeast
10/23/14



Direct burying contaminated soil from release, facing west
10/23/14



Direct bury of soil completed, facing northeast 10/27/14



Backfilling direct bury with the removed caliche, facing southwest
10/27/14



Importing caliche, facing northwest
10/28/14



2014-10-28

Backfilling direct bury with the imported caliche,
facing northeast 10/28/14



2014-10-28

Direct bury completed, facing northeast 10/28/14



2014-10-29

Backfilling release area, facing southwest 10/29/14



2014-10-29

Release area backfilled, facing northeast 10/29/14



Release area backfilled, facing northwest 10/29/14



Spreading soil amendments over release area, facing west 10/31/14



Disking in soil amendments over release area, facing northeast 10/31/14



Spreading soil amendments over direct bury area, facing west 10/31/14



Disking soil amendments over direct bury area, facing west 10/31/14



Seeding release area, facing northwest 10/31/14



Seeding removed caliche road, facing east 10/31/14



Seeding direct bury area, facing southeast 10/31/14



Disking in seed over direct bury area, facing southwest
10/31/14



Disking in seed over release area and removed caliche road, facing southeast
10/31/14



Direct bury area completed, facing west
10/31/14



Site completed, facing southwest
10/31/14



Release area completed, facing southeast 10/31/14



Removed caliche road completed, facing southeast
10/31/14

Appendix E

Final C-141

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

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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

OPERATOR

Initial Report Final Report

| | |
|---|----------------------------|
| Name of Company Linn Operating | Contact |
| Address 2130 W. Bender, Hobbs, NM 88240 | Telephone No. |
| Facility Name H.E. West B #51 | Facility Type Oil Producer |

| | | |
|-----------------------|---------------|----------------------|
| Surface Owner Federal | Mineral Owner | API No. 30-015-27110 |
|-----------------------|---------------|----------------------|

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| G | 10 | 17S | 31E | 1337 | North | 1363 | West | Eddy |

Latitude 32.8526523684112 Longitude -103.861754389473

NATURE OF RELEASE

| | | |
|--|--|---|
| Type of Release Produced Water | Volume of Release 10 bbls | Volume Recovered 0 |
| Source of Release Fiberglass pipeline | Date and Hour of Occurrence 07/23/2014 | Date and Hour of Discovery 07/23/2014 3:00 pm |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Jeff Robertson – BLM/Mike Bratcher – NMOCD | |
| By Whom? Brian Wall | Date and Hour 07/24/2014 0750 | |
| 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.* Fiberglass line was exposed due to erosion caused by wind and rain. The line then failed due to the lack of structural support in the area exposed. The line was isolated and the leak stopped. No recovered fluid due to absorption in the sandy location.

Describe Area Affected and Cleanup Action Taken.* The release affected 1,636 square feet of pasture land. RECS personnel were on site beginning on July 28th, 2014 to assess the release. Three points within the release were field sampled at the surface and with depth. Representative samples from the points were taken to a commercial laboratory for analysis. Based on the laboratory sampling data, a CAP was submitted to NMOCD and BLM on August 14th, 2014. NMOCD and BLM approved the CAP that same day. Corrective actions began at the site on September 4th, 2014. The release area was excavated in three portions as stated in the approved CAP. The area around Point 1 was excavated to 3 ft bgs, the area around Point 2 was excavated to 2 ft bgs and the area around Point 3 was excavated to 5 ft bgs. Once the excavations were completed, grab samples from the outer walls and composite bottom samples of each excavation were taken to a commercial laboratory for analyses. The excavated soil was taken to the adjacent H.E. West B #51 lease pad for direct burial. The caliche was scraped from the lease pad and piled off to the side. A repository measuring 38 ft x 38 ft x 8 ft deep was excavated and lined in entirety with a 20-mil reinforced poly liner. The excavated soil from the release was placed in the lined repository, and the top of the repository was capped with a 20-mil reinforced poly liner. The top soil removed from the lease pad to create the repository was used to backfill the excavations at the release site and to contour the site to the surrounding area. A sample of the top soil removed from the lease pad was taken to a commercial laboratory and returned a chloride reading of 48 mg/kg. Approximately four feet of the repository top soil was placed over the capped repository, and the scraped caliche was backfilled over the top soil. 72 cubic yards of clean caliche was imported to the site to complete the backfill over the repository and to level the area to the surrounding area. On October 31st, 2014, soil amendments were added to the disturbed area from the release and the disturbed area adjacent to the lease pad. The areas were then seeded with a 50/50 mix of BLM #2 and BLM #4.

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: E.L. Gonzales | Approved by Environmental Specialist: | |
| Title: Production Supervisor | Approval Date: | Expiration Date: |
| E-mail Address: elgonzales@linnenrgy.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: 02/25/2015 | Phone: 505-504-8002 | |

* Attach Additional Sheets If Necessary