

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
St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
HOBBS OGD
Energy Minerals and Natural Resources

Form C-141
Revised October 10, 2003

JUL 17 2014
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

RELEASED
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: MGU #53 | Facility Type: Injection |

| | | |
|------------------------|----------------|---------------------|
| Surface Owner: Private | Mineral Owner: | API No.: 3002500497 |
|------------------------|----------------|---------------------|

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| E | 10 | 17S | 32E | 1980 | North | 610 | West | Lea |

Latitude: 35.8509186628474 Longitude: -103.760937452841

NATURE OF RELEASE

| | | |
|--|---|--|
| Type of Release: Produced Water | Volume of Release: 4 | Volume Recovered: 0 |
| Source of Release: Fiberglass Line | Date and Hour of Occurrence: 12/26/13-0800 | Date and Hour of Discovery: 12/26/13-0800 |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? M-Burton - BLM, Geoffrey Leking - NMOCD | |
| By Whom? Theresa McCracken | Date and Hour 12/30/2013-1137 | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |

Watercourse was Impacted, Describe Fully.*:

Describe Cause of Problem and Remedial Action Taken.*: Fiberglass line developed a hole next to the junction box for the well.

Describe Area Affected and Cleanup Action Taken.*: Release was confined to the pad. Grossly impacted soils were removed and disposed of off-site. A liner was installed in the excavation and backfilled. See remediation report for further details.

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

| | | |
|---|--|---|
| Signature: <i>Fred B Wall</i> | OIL CONSERVATION DIVISION | |
| Printed Name: Brian Wall | Approved by District Supervisor: <i>Environmental Specialists</i> | |
| Title: Construction Foreman II | Approval Date: <i>7-17-14</i> | Expiration Date: _____ |
| Mail Address: bwall@linenergy.com July 7, 2014 Phone: 806-367-0645 | Conditions of Approval: _____ | Attached <input type="checkbox"/> <i>7-14-3151</i> |

Attach Additional Sheets If Necessary

JUL 17 2014

OGD 269324
ATO 141983553
PTO 1418944384



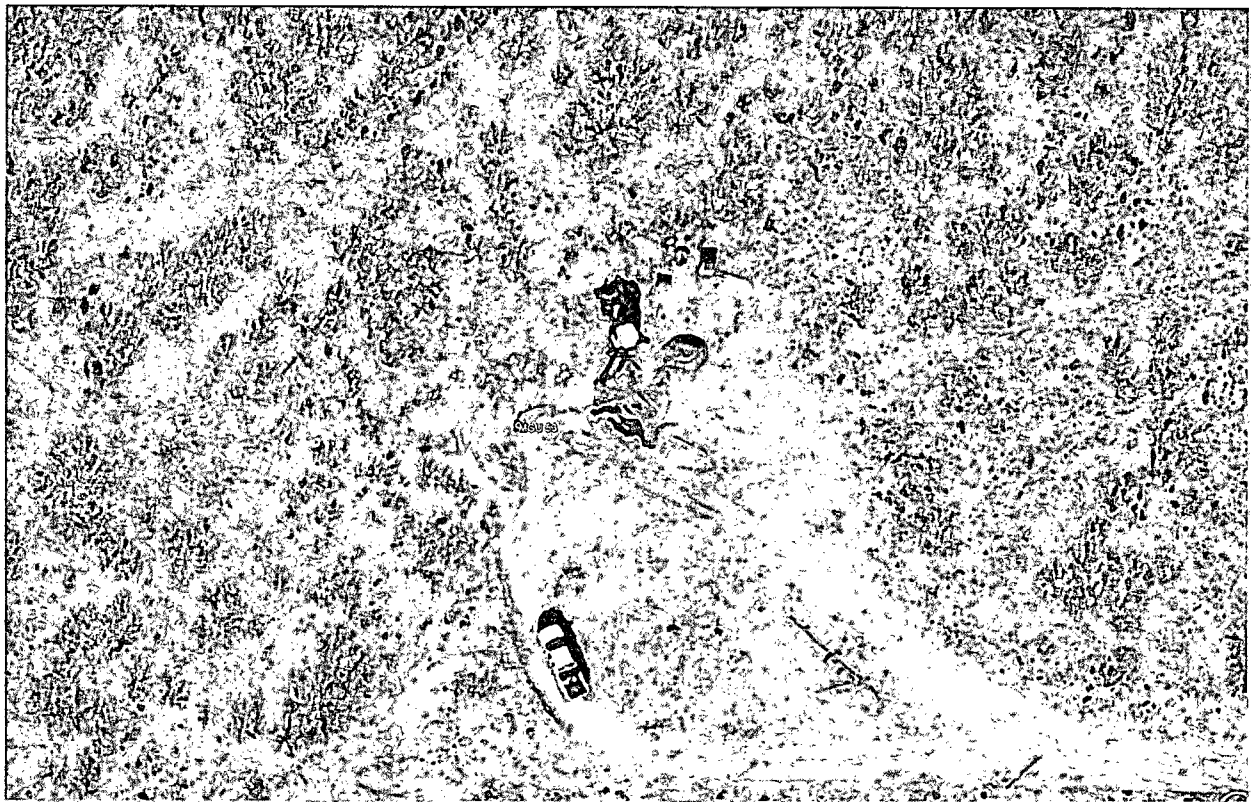
HOBBS OCD

JUL 17 2014

RECEIVED

Report

LINN Energy – MGU 53 Corrective Action



Prepared For: LINN Energy
2130 W. Bender
Hobbs, NM 88240

Prepared By: Etech Environmental & Safety Solutions, Inc.
Date Prepared: July 7, 2014
Project Number: 253-4583-002

General Information

This section provides general information about the operator and the site where the spill occurred.

Date: July 7, 2014

Client: LINN Energy

Site Name: Maljamar Grayburg Unit (MGU) 53

County: Lea

State: NM

Site Coordinates Latitude: 32.850918668474°
Longitude: -103.760937452841°

Property Owner: Private

State Report No.: 7-14-3151

Release Description and Assessment

The information below is related to the spill (Date, Type, Cause and Quantity) and the area impacted.

Date of Spill(s): 08/14/13 & 12/26/13

Type of Spill: ☐ Oil ☒ Produced Water ☐ Condensate ☐ Other (Specify):

Cause of Spill: ☐ Equipment Failure ☐ Valve Failure ☒ Line Leak ☐ Leaking Tank ☐ Tank Overfill
☐ Other (List):

Other Contributing Factors or Comments:

Quantity Spilled: 11 bbls. **Quantity Recovered:** 9 bbls. **Total Released:** 2 bbls.

Method of Recovery: ☒ Vacuum Truck ☐ Other (Specify):

OCD Notified: ☒ Yes ☐ No

C-141 Completed and Submitted: ☒ Yes ☐ No

Spill Area Impacted: ☐ Inside Firewall ☒ On Production Pad ☐ In Pasture ☐ In Cultivated Land
☐ Other (List):

Total Square Footage Impacted: 3,000 **Estimated Depth:** 1-5' **Volume (Cu. Yds):** ~575

Other Comments:

Remediation Activity Summary

The following summarizes the activities used to remediate the spill.

On August 14, 2013 LINN Energy notified the Bureau of Land Management (BLM) and the New Mexico Oil Conservation Division (NMOCD) of a release that had occurred at the MGU 53 from a leak that had developed in an injection line connecting to the valve box located on the site. Following completion of repairs, an initial assessment was performed on the site by others. Samples were collected and determined there were impacts on the pad area of chlorides ranging from 496 to 22,400 mg/kg. While in the process of preparing to initiate corrective actions, a second release occurred on December 26, 2013 at the same site from the failure of a fitting near the valve box.

On February 17, 2014 a corrective action plan (CAP) was developed and submitted to and approved by the NMOCD and BLM. The CAP called for the excavation and disposal of soils impacted with chlorides greater than 500 mg/kg and total petroleum hydrocarbons greater than 1,000 mg/kg. Upon reaching corrective action levels, the excavation would be backfilled to surface with clean fill. A copy of the assessment map and corrective action plan are attached.

Excavation of the area began in March of 2014. Utilizing field screening while excavating, the excavated area resulted in a rough bowl-shaped excavation approximately 60 feet in diameter with a maximum depth of 4 feet in the center. Two injection lines; one running east to west to the well, and one running southeast to northwest to the valve box were uncovered which hampered excavation of the center of the impacted area. On March 14, 2014

a sampling event was conducted of the area. The analytical results indicated the majority of the areas outside of the center of the excavation cleared with the exception of portion which though close, were slightly elevated.

Additional excavation was performed in the outer areas. In addition, a delineation trench was advanced to 14 feet in the center of the excavation. On May 15, 2014 a second sampling event was conducted. The analytical results indicated the areas outside of the center portion of the excavation were below corrective action levels. The sample collected at the bottom of the delineation retrench in the center of the excavation indicated the chloride levels were at 2,280 mg/kg and would require the use of a drilling rig to complete the vertical delineation.

With the concurrence of BLM and NMOCD, a liner was installed in the bottom of the excavation. Portions of the areas outside of the center of the excavation were backfilled to assist in creating a smaller confined area in the event a new release occurred. The liner was installed underneath the injection lines and sealed against the valve box. As the line was brought up the sides, it was seated back into the sidewalls. The lined area was then backfilled with clean fill and compacted.

On May 28, a soil boring was advanced through the center of the excavation area. Samples were screened on site in 1 foot internals, and then jarred in certified clean glass jars. Once the screening data determined the samples for the boring were clear for a minimum of 10 feet, the boring was terminated then plugged to surface with concrete. Samples were selected from 5 foot intervals and subject to laboratory analyses. The analytical results determined the vertical extent of the impact extended to 19-20 feet below ground level.

Analytical Summary

Results of analyses following remediation activities are as follows:

| Summary of Remediation Sampling Analytical Results | | | | | | | | | | | |
|---|------------------|--------|------------|-------------|-----------|-------|-------|-------|--------|--------|--------|
| Total Petroleum Hydrocarbons - [TPH (mg/kg)], Benzene, Toluene, Ethylbenzene, Xylene [BTEX mg/kg]], and Chlorides [Chl (mg/kg)] | | | | | | | | | | | |
| Date | Sample I.D. | Depth | GRO C6-C10 | DRO C10-C28 | Total TPH | B | T | E | X | Total | Chl |
| 08/16/13 | PT. 1 | 0-6" | | | | | | | | | 22,400 |
| 08/16/13 | PT. 1 | 1' | | | | | | | | | 4,560 |
| 08/16/13 | PT. 2. | 0-6" | | | | | | | | | 9,200 |
| 08/16/13 | PT. 2 | 1' | | | | | | | | | 10,800 |
| 08/16/13 | PT. 3 | 0-6" | | | | | | | | | 496 |
| 08/16/13 | PT. 3 | 1' | | | | | | | | | 4,560 |
| 03/14/14 | SP1 Bottom | 4' | <10.0 | <10.0 | <10.0 | <0.50 | <0.50 | <0.50 | <0.150 | <0.300 | 2,440 |
| 03/14/14 | SP 1 N. Wall | 2' | <10.0 | <10.0 | <10.0 | <0.50 | <0.50 | <0.50 | <0.150 | <0.300 | 432 |
| 03/14/14 | SP 1 W. Wall | 2' | <10.0 | <10.0 | <10.0 | <0.50 | <0.50 | <0.50 | <0.150 | <0.300 | 848 |
| 03/14/14 | SP 1 E. Wall | 2' | <10.0 | <10.0 | <10.0 | <0.50 | <0.50 | <0.50 | <0.150 | <0.300 | 400 |
| 03/14/14 | SP 2 Bottom | 4' | <10.0 | <10.0 | <10.0 | <0.50 | <0.50 | <0.50 | <0.150 | <0.300 | 2,720 |
| 03/14/14 | SP 2 S. Wall | 2' | <10.0 | <28.7 | 28.7 | <0.50 | <0.50 | <0.50 | <0.150 | <0.300 | 560 |
| 03/14/14 | SP2 W. Wall | 2' | <10.0 | <10.0 | <10.0 | <0.50 | <0.50 | <0.50 | <0.150 | <0.300 | 512 |
| 03/14/14 | SP 2 E. Wall | 2' | <10.0 | 11.0 | 11.0 | <0.50 | <0.50 | <0.50 | <0.150 | <0.300 | 560 |
| 05/13/14 | SP1 N. Wall | 2' | <10.0 | <10.0 | <10.0 | <0.50 | <0.50 | <0.50 | <0.150 | <0.300 | 208 |
| 05/13/14 | SP 2 Bottom | 14' | <10.0 | <10.0 | <10.0 | <0.50 | <0.50 | <0.50 | <0.150 | <0.300 | 2,280 |
| 05/13/14 | SP2 E. Wall | 2' | <10.0 | <10.0 | <10.0 | <0.50 | <0.50 | <0.50 | <0.150 | <0.300 | >16.0 |
| 05/13/14 | SP 2 W. Wall | 2' | <10.0 | <10.0 | <10.0 | <0.50 | <0.50 | <0.50 | <0.150 | <0.300 | 64.0 |
| 05/13/14 | SP 3 S. Wall | 2' | <10.0 | <10.0 | <10.0 | <0.50 | <0.50 | <0.50 | <0.150 | <0.300 | 160 |
| 06/03/14 | Soil Boring (SB) | 09-10' | | | | | | | | | 2,000 |
| 06/03/14 | Soil Boring (SB) | 14-15' | | | | | | | | | 560 |
| 06/03/14 | Soil Boring (SB) | 19-20' | | | | | | | | | 448 |
| 06/03/14 | Soil Boring (SB) | 24-25' | | | | | | | | | 224 |
| 06/03/14 | Soil Boring (SB) | 29-30' | | | | | | | | | 112 |
| 06/03/14 | Soil Boring (SB) | 34-35' | | | | | | | | | 80.0 |

* Values in red indicate levels above corrective action levels.

A review of the analytical data coupled with the installation of the liner has determined the remediation to the site is complete. Copies of analytical reports and photographs are attached.

Prepared by:

A handwritten signature in black ink, appearing to read "Paul Holmes". The signature is fluid and cursive, with the first name "Paul" and last name "Holmes" clearly distinguishable.

Project Manager
Etech Environmental & Safety Solutions, Inc.



Photo 1: View of site following release and after lines had been repaired.

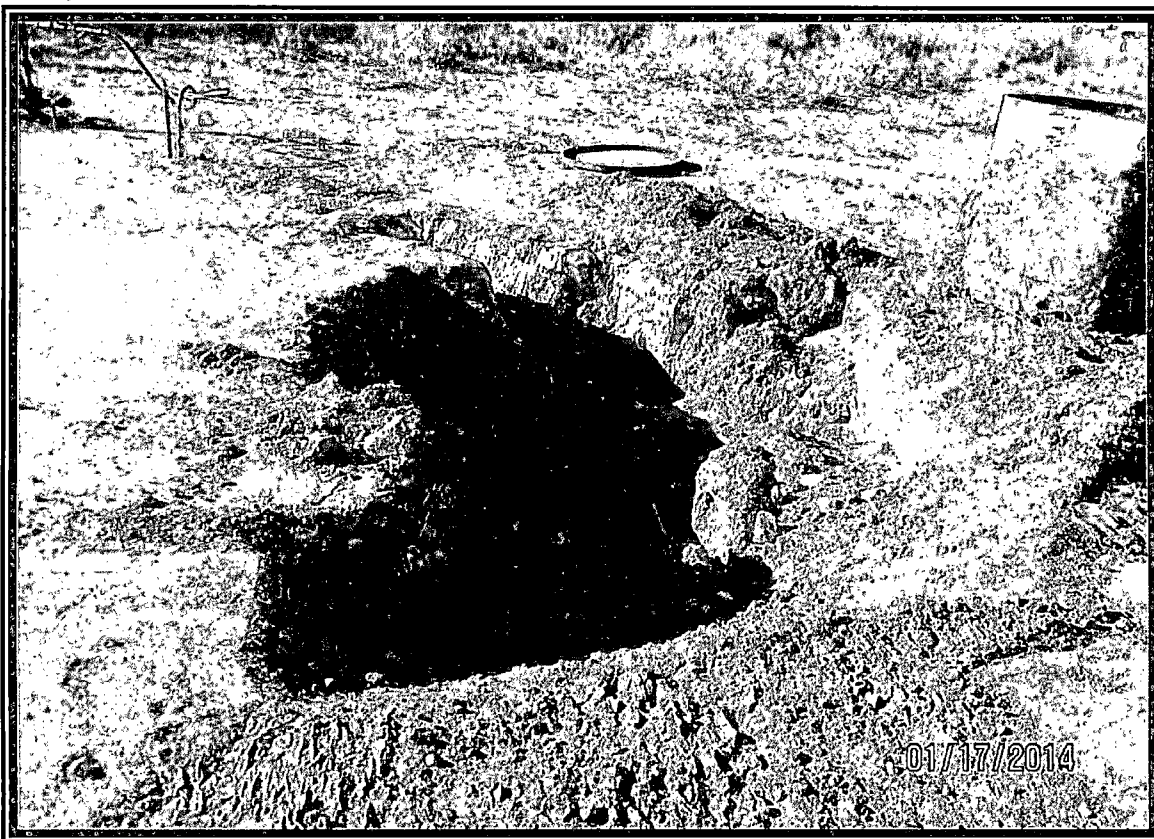


Photo 2: View of line repair area.

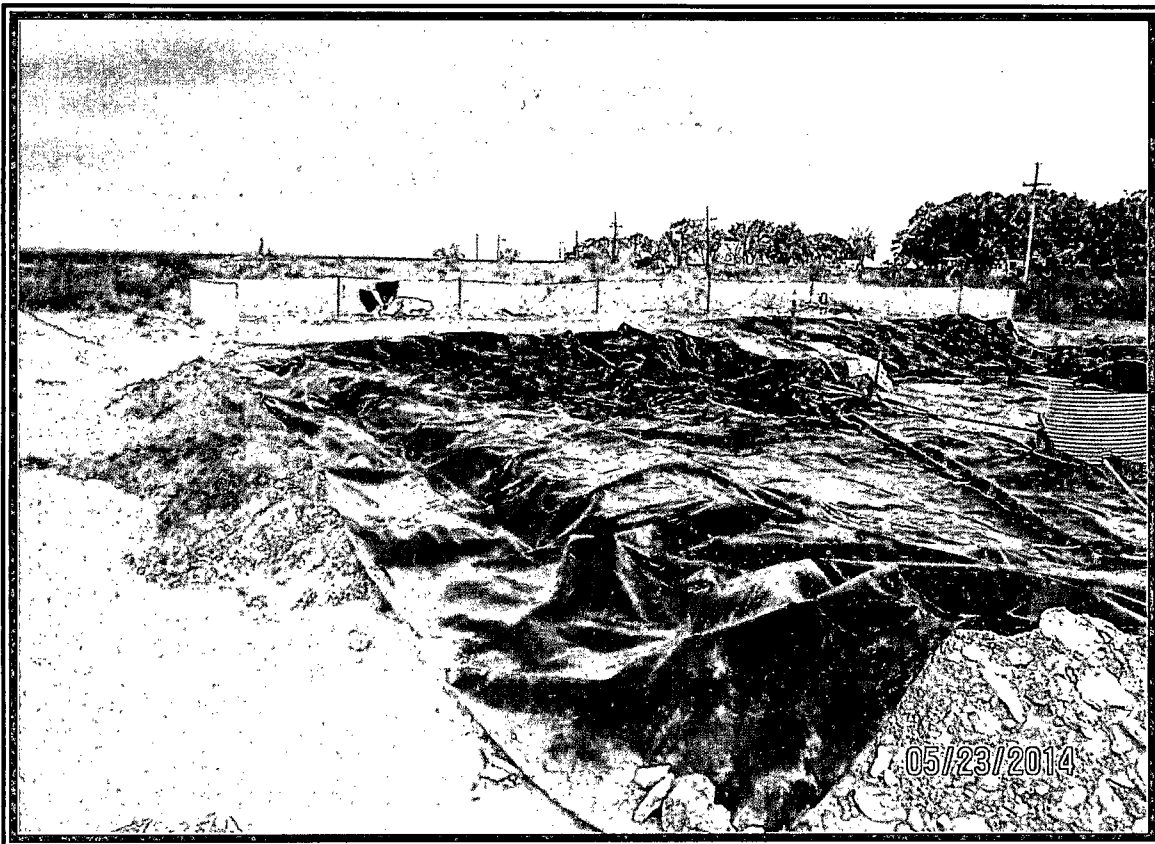


Photo 3: View of liner installation.

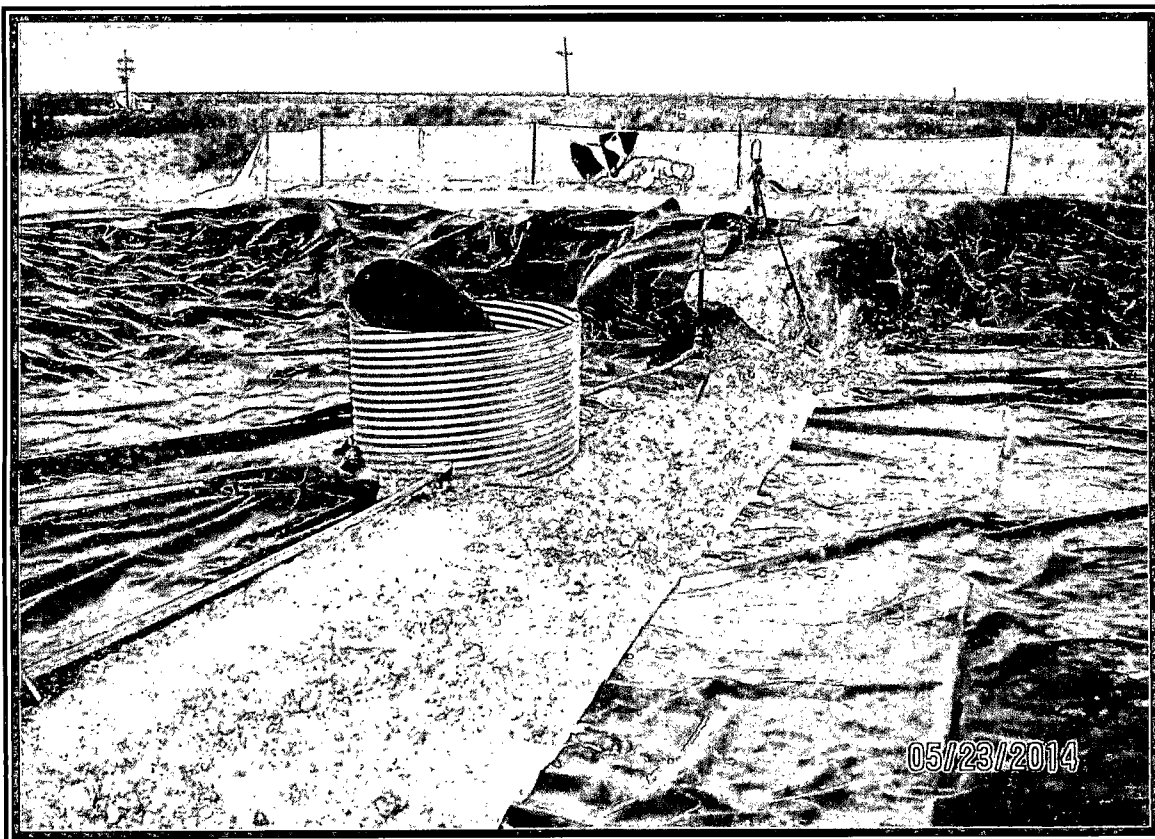


Photo 4: View of liner installation progress. Liner was installed in three sections.

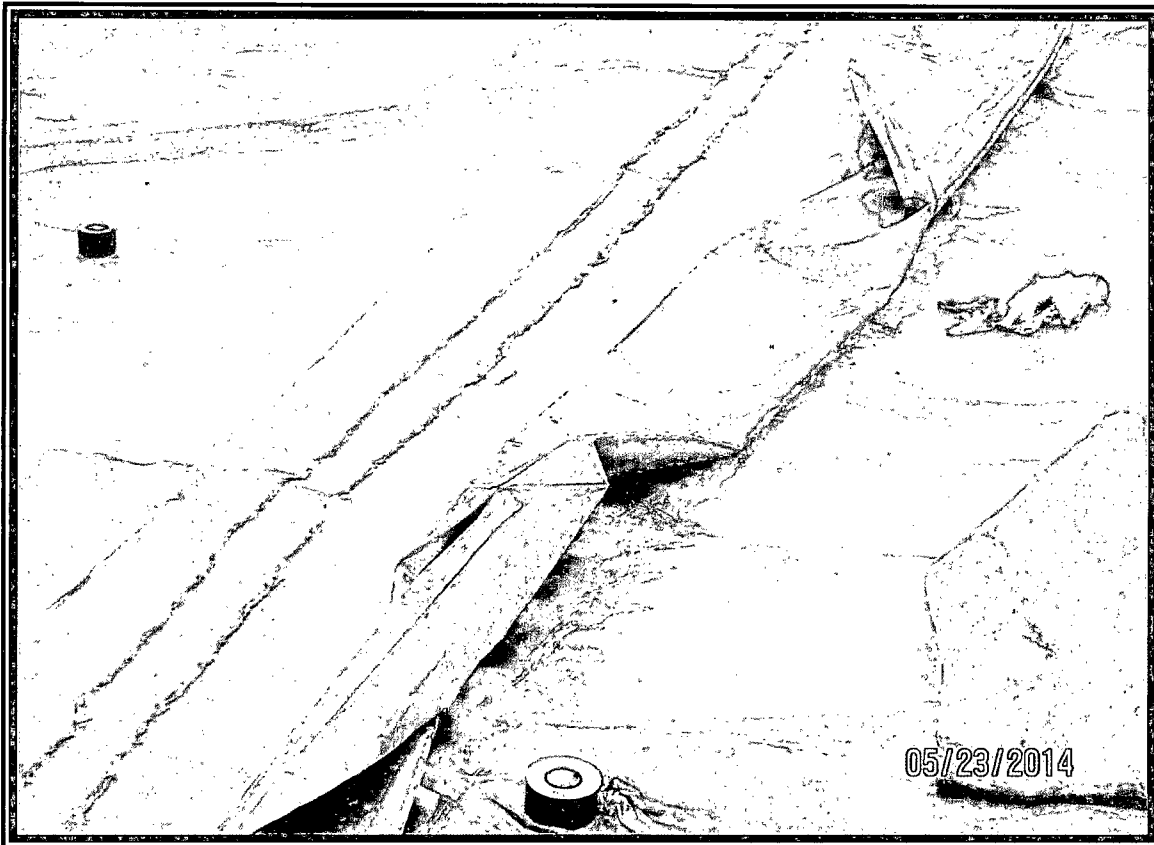


Photo 5: View of liner seam before overlapping and sealing. Two beads of flexible urethane adhesive are between the two layers. Then an out layer of industrial, waterproof adhesive tape is used to seal the edges.



Photo 6: View of finished seam. Note the pipe penetrations are sealed as well.

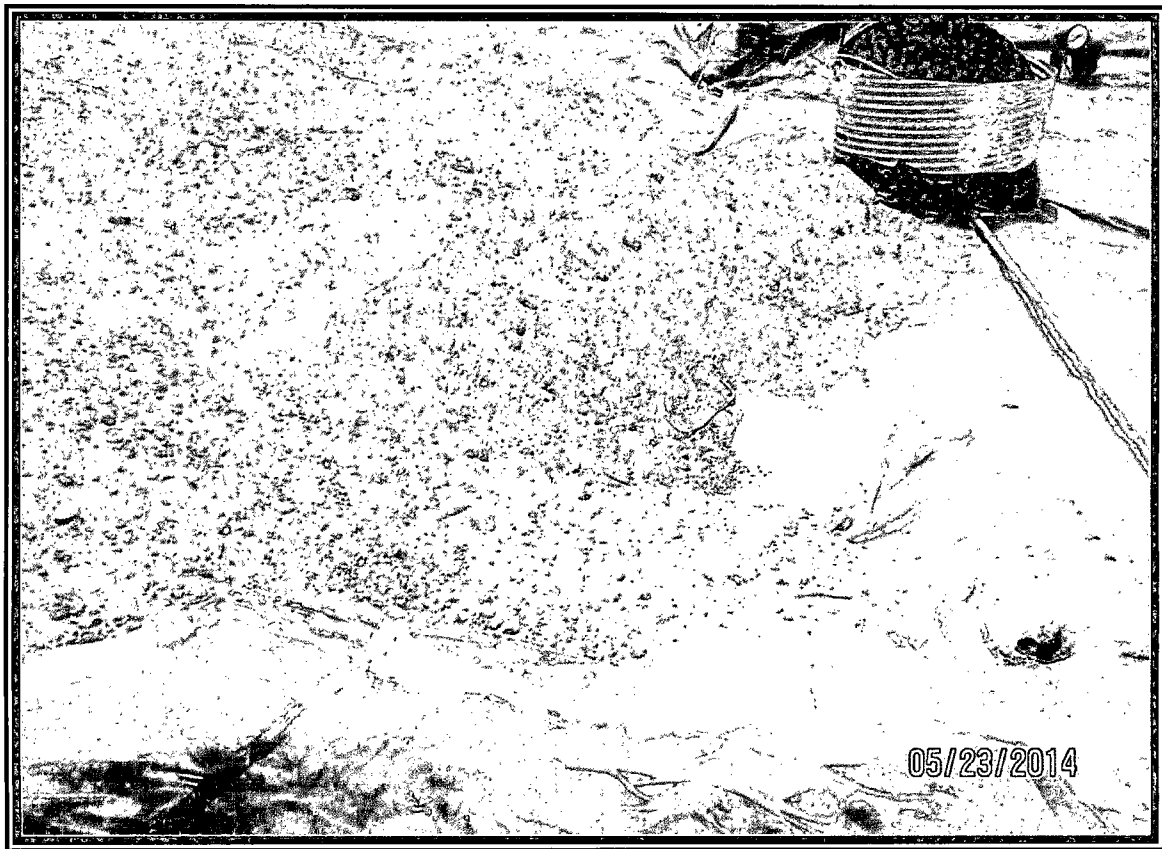


Photo 7: Lined area in the process of being backfilled.

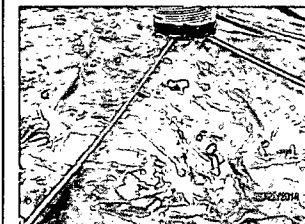
Assessment Map & Corrective Action Plan



**Figure 1
Site Map**

MGU 53
Lat: 32.850918668474°
Long: -103.7609374528
Lea County, NM

Project Number
253-4583-002



Prepared For:

LINN Energy
2130 W. Bender Blvd.
Hobbs, NM 88240

Prepared By:

*Etech Environmental and
Safety Solutions, Inc.*
P.O. Box 8469
Midland, TX 79708





Electronic Correspondence

February 17 2014

Mr. Geoffrey Leking
State of New Mexico
Oil Conservation Division
1625 N. French Dr,
Hobbs, New Mexico 88240
geoffreyr.leking@state.nm.us

Re: Corrective Action Plan
LINN Energy, Maljamar Grayburg Unit 53
API No.: 30-025-00497
Legal: E-10-17S-32E, 1980 FNL & 610 FWL, Lea Co., NM
GPS: N32.8509186628474, W103.760937452841
Depth to Groundwater: 75 feet

Dear Geoff:

Etech Environmental & Safety Solutions, Inc. (Etech) is pleased to submit the following corrective action plan on the aforementioned site for your review and approval.

Scope of Work

The scope of this project is for the remediation of a produced water/hydrocarbon impact. Completion of remediation will involve the following actions:

1. Placement of a one-call for utility location.
2. Excavation of impacted soils until the chloride levels are less than 500 mg/kg and/or hydrocarbon levels of less than 1,000 mg/kg are reached. The impacted area will be excavated to a depth where acceptable chloride and, or TPH levels are met, or to the existing liner put in place at the completion of the original spill. During the course of excavation soil samples will be screened on site to determine the progress of the remediation. Screening is achieved using a YSI chloride meter with a tolerance of +/- 6% which is the same tolerance as laboratory titration methods.
3. Where pad areas or interior areas of tank batteries are excavated as reasonably feasible to remove the grossly impacted soil, they will be backfilled to within 6 inches of surface then backfilled to grade with compacted caliche. Any firewalls or containment berms removed during remediation will be reinstalled.

Notifications and Special Conditions

1. The OCD and BLM will be notified prior to the commencement of on-site operations.
2. The OCD and BLM will be notified prior to each sampling event to allow the opportunity to witness the sampling events. Splits will be made available if requested.
3. The OCD and BLM (if applicable) will be notified when the site is closed for final inspection prior to seeding.
4. A final report documenting the closure of the site will be submitted along with a final C-141.

Thank you for your assistance on this matter. Should you have any questions, require additional information, or have any additional stipulations for this site, please contact Mr. Brian Wall at (575) 738-1739 (Office) or via email at bwall@linenergy.com or myself at (432) 563-2200 (office) or via email at kit@etechnv.com.

Respectfully:

A handwritten signature in black ink, appearing to read 'Kit Prichard', with a stylized, cursive script.

Kit Prichard
Environmental Professional

cc: Mike Burton, BLM Carlsbad District Office

Analytical Results

June 10, 2014

FRED HOLMES

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: MGU #53

Enclosed are the results of analyses for samples received by the laboratory on 06/05/14 14:20.

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.

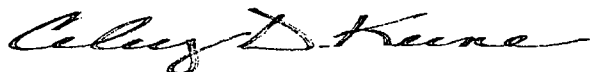
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|------------------------------|
| 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:

ETECH Environmental & Safety Solutions, Inc.
 FRED HOLMES
 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

Received: 06/05/2014
 Reported: 06/10/2014
 Project Name: MGU #53
 Project Number: 253-4583-002
 Project Location: MALJAMAR

Sampling Date: 06/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: 09-10' (H401716-01)

| Chloride, SM4500CI-B | | | mg/kg | | Analyzed By: AP | | | | |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2000 | 16.0 | 06/10/2014 | ND | 416 | 104 | 400 | 0.00 | |

Sample ID: 14-15' (H401716-02)

| Chloride, SM4500CI-B | | | mg/kg | | Analyzed By: AP | | | | |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 560 | 16.0 | 06/10/2014 | ND | 416 | 104 | 400 | 0.00 | |

Sample ID: 19-20' (H401716-03)

| Chloride, SM4500CI-B | | | mg/kg | | Analyzed By: AP | | | | |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 448 | 16.0 | 06/10/2014 | ND | 416 | 104 | 400 | 0.00 | |

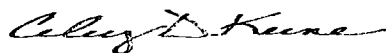
Sample ID: 24-25' (H401716-04)

| Chloride, SM4500CI-B | | | mg/kg | | Analyzed By: AP | | | | |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 224 | 16.0 | 06/10/2014 | ND | 416 | 104 | 400 | 0.00 | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 ETECH Environmental & Safety Solutions, Inc.
 FRED HOLMES
 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

 Received: 06/05/2014
 Reported: 06/10/2014
 Project Name: MGU #53
 Project Number: 253-4583-002
 Project Location: MALJAMAR

 Sampling Date: 06/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: 29-30' (H401716-05)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 112 | 16.0 | 06/10/2014 | ND | 416 | 104 | 400 | 0.00 | |

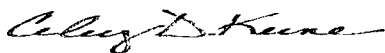
Sample ID: 34-35' (H401716-06)

| 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 | 06/10/2014 | ND | 416 | 104 | 400 | 0.00 | |

Cardinal Laboratories

* = Accredited Analyte

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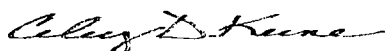
Celey D. Keene, Lab Director/Quality Manager

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 |

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 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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Page 5 of 5

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

May 19, 2014

KIT PRICHARD

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: MGU #53

Enclosed are the results of analyses for samples received by the laboratory on 05/13/14 16:10.

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.

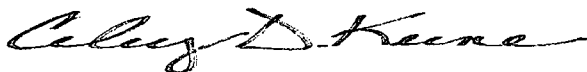
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

| | |
|------------------|------------------------------|
| 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:

ETECH Environmental & Safety Solutions, Inc.
 KIT PRICHARD
 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

Received: 05/13/2014
 Reported: 05/19/2014
 Project Name: MGU #53
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 05/13/2014
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 1 NORTH 2' (H401452-01)

| BTEx 8260B | | mg/kg | | Analyzed By: ms | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/15/2014 | ND | 1.85 | 92.4 | 2.00 | 5.18 | | |
| Toluene* | <0.050 | 0.050 | 05/15/2014 | ND | 1.73 | 86.5 | 2.00 | 7.75 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/15/2014 | ND | 1.61 | 80.7 | 2.00 | 8.03 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/15/2014 | ND | 4.93 | 82.2 | 6.00 | 6.38 | | |
| Total BTEx | <0.300 | 0.300 | 05/15/2014 | ND | | | | | | |

Surrogate: Dibromofluoromethane 97.4 % 61.3-142
Surrogate: Toluene-d8 101 % 71.3-129
Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 208 | 16.0 | 05/14/2014 | ND | 400 | 100 | 400 | 3.92 | | |

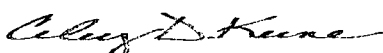
| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 05/17/2014 | ND | 216 | 108 | 200 | 11.3 | |
| DRO >C10-C28 | <10.0 | 10.0 | 05/17/2014 | ND | 238 | 119 | 200 | 12.0 | |

Surrogate: 1-Chlorooctane 107 % 65.2-140
Surrogate: 1-Chlorooctadecane 104 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
KIT PRICHARD
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received: 05/13/2014
Reported: 05/19/2014
Project Name: MGU #53
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/13/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP 2 BOTTOM 14' (H401452-02)

| BTEX 8260B | | | mg/kg | | Analyzed By: ms | | | | |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/15/2014 | ND | 1.85 | 92.4 | 2.00 | 5.18 | |
| Toluene* | <0.050 | 0.050 | 05/15/2014 | ND | 1.73 | 86.5 | 2.00 | 7.75 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/15/2014 | ND | 1.61 | 80.7 | 2.00 | 8.03 | |
| Total Xylenes* | <0.150 | 0.150 | 05/15/2014 | ND | 4.93 | 82.2 | 6.00 | 6.38 | |
| Total BTEX | <0.300 | 0.300 | 05/15/2014 | ND | | | | | |

Surrogate: Dibromofluoromethane 98.1 % 61.3-142
Surrogate: Toluene-d8 101 % 71.3-129
Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: AP | | | | |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2280 | 16.0 | 05/14/2014 | ND | 400 | 100 | 400 | 3.92 | |

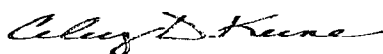
| TPH 8015M | | | mg/kg | | Analyzed By: MS | | | | |
|--------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 05/17/2014 | ND | 216 | 108 | 200 | 11.3 | |
| DRO >C10-C28 | <10.0 | 10.0 | 05/17/2014 | ND | 238 | 119 | 200 | 12.0 | |

Surrogate: 1-Chlorooctane 119 % 65.2-140
Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
KIT PRICHARD
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received: 05/13/2014
Reported: 05/19/2014
Project Name: MGU #53
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/13/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP 2 EAST 2' (H401452-03)

| BTEX 8260B | | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/16/2014 | ND | 2.08 | 104 | 2.00 | 2.35 | | |
| Toluene* | <0.050 | 0.050 | 05/16/2014 | ND | 1.94 | 97.1 | 2.00 | 2.99 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/16/2014 | ND | 1.81 | 90.6 | 2.00 | 1.22 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/16/2014 | ND | 5.49 | 91.5 | 6.00 | 1.16 | | |
| Total BTEX | <0.300 | 0.300 | 05/16/2014 | ND | | | | | | |

Surrogate: Dibromofluoromethane 99.0 % 61.3-142
Surrogate: Toluene-d8 102 % 71.3-129
Surrogate: 4-Bromofluorobenzene 99.1 % 65.7-141

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | <16.0 | 16.0 | 05/14/2014 | ND | 400 | 100 | 400 | 3.92 | | |

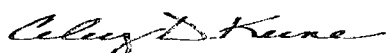
| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 05/17/2014 | ND | 216 | 108 | 200 | 11.3 | |
| DRO >C10-C28 | <10.0 | 10.0 | 05/17/2014 | ND | 238 | 119 | 200 | 12.0 | |

Surrogate: 1-Chlorooctane 113 % 65.2-140
Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
KIT PRICHARD
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received: 05/13/2014
Reported: 05/19/2014
Project Name: MGU #53
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/13/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP 2 WEST 2' (H401452-04)

| BTEX 8260B | | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 05/16/2014 | ND | 2.08 | 104 | 2.00 | 2.35 | | |
| Toluene* | <0.050 | 0.050 | 05/16/2014 | ND | 1.94 | 97.1 | 2.00 | 2.99 | | |
| Ethylbenzene* | <0.050 | 0.050 | 05/16/2014 | ND | 1.81 | 90.6 | 2.00 | 1.22 | | |
| Total Xylenes* | <0.150 | 0.150 | 05/16/2014 | ND | 5.49 | 91.5 | 6.00 | 1.16 | | |
| Total BTEX | <0.300 | 0.300 | 05/16/2014 | ND | | | | | | |

Surrogate: Dibromofluoromethane 99.2 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 99.2 % 65.7-141

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 05/14/2014 | 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 | 05/17/2014 | ND | 216 | 108 | 200 | 11.3 | |
| DRO >C10-C28 | <10.0 | 10.0 | 05/17/2014 | ND | 238 | 119 | 200 | 12.0 | |

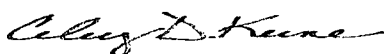
Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
KIT PRICHARD
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received: 05/13/2014
Reported: 05/19/2014
Project Name: MGU #53
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/13/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP 3 SOUTH 2' (H401452-05)

| BTEX 8260B | | mg/kg | | Analyzed By: ms | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 05/16/2014 | ND | 2.08 | 104 | 2.00 | 2.35 | |
| Toluene* | <0.050 | 0.050 | 05/16/2014 | ND | 1.94 | 97.1 | 2.00 | 2.99 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/16/2014 | ND | 1.81 | 90.6 | 2.00 | 1.22 | |
| Total Xylenes* | <0.150 | 0.150 | 05/16/2014 | ND | 5.49 | 91.5 | 6.00 | 1.16 | |
| Total BTEX | <0.300 | 0.300 | 05/16/2014 | ND | | | | | |

Surrogate: Dibromofluoromethane 97.0 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 99.1 % 65.7-141

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 05/14/2014 | 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 | 05/17/2014 | ND | 216 | 108 | 200 | 11.3 | |
| DRO >C10-C28 | <10.0 | 10.0 | 05/17/2014 | ND | 238 | 119 | 200 | 12.0 | |

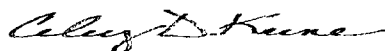
Surrogate: 1-Chlorooctane 105 % 65.2-140

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

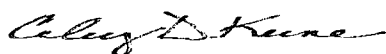
| | |
|-----|--|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received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

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* = Accredited Analyte

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¹ 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.



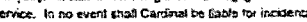
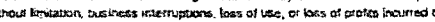


Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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| | | | | |
|--|----------------------|--|--|----------------|
| Relinquished By:  | Date: <u>3-13-14</u> | Received By:  | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | Add'l Phone #: |
| | Time: <u>1610</u> | | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | Add'l Fax #: |
| Relinquished By: | Date: | Received By: | REMARKS: <u>Samples taken & brought directly to lab.</u>  | |
| | Time: | | | |
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: | <u>24.40</u> | Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No | CHECKED BY (Initials)  | |

March 17, 2014

KIT PRICHARD

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: MGU #53

Enclosed are the results of analyses for samples received by the laboratory on 03/14/14 17:30.

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:

ETECH Environmental & Safety Solutions, Inc.
 KIT PRICHARD
 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

Received: 03/14/2014
 Reported: 03/17/2014
 Project Name: MGU #53
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 03/14/2014
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Celey D. Keene

Sample ID: SP 1 BOTTOM 4' (H400790-01)

| 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 | 03/17/2014 | ND | 2.32 | 116 | 2.00 | 2.90 | |
| Toluene* | <0.050 | 0.050 | 03/17/2014 | ND | 2.21 | 110 | 2.00 | 2.66 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/17/2014 | ND | 2.16 | 108 | 2.00 | 2.78 | |
| Total Xylenes* | <0.150 | 0.150 | 03/17/2014 | ND | 6.27 | 104 | 6.00 | 2.30 | |
| Total BTEX | <0.300 | 0.300 | 03/17/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 89.4-126
 Surrogate: Bromide, SM4500Cl-B

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: AP | | | | |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 2440 | 16.0 | 03/17/2014 | ND | 448 | 112 | 400 | 7.41 | |

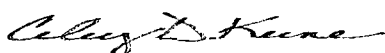
| TPH 8015M | | | mg/kg | | Analyzed By: ms | | | | |
|--------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 03/17/2014 | ND | 218 | 109 | 200 | 1.74 | |
| DRO >C10-C28 | <10.0 | 10.0 | 03/17/2014 | ND | 204 | 102 | 200 | 3.74 | |

Surrogate: 1-Chlorooctane 76.9 % 65.2-140
 Surrogate: 1-Chlorooctadecane 74.3 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 ETECH Environmental & Safety Solutions, Inc.
 KIT PRICHARD
 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

 Received: 03/14/2014
 Reported: 03/17/2014
 Project Name: MGU #53
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/14/2014
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Celey D. Keene

Sample ID: SP 1 N. WALL 2' (H400790-02)

| 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 | 03/17/2014 | ND | 2.32 | 116 | 2.00 | 2.90 | | |
| Toluene* | <0.050 | 0.050 | 03/17/2014 | ND | 2.21 | 110 | 2.00 | 2.66 | | |
| Ethylbenzene* | <0.050 | 0.050 | 03/17/2014 | ND | 2.16 | 108 | 2.00 | 2.78 | | |
| Total Xylenes* | <0.150 | 0.150 | 03/17/2014 | ND | 6.27 | 104 | 6.00 | 2.30 | | |
| Total BTEx | <0.300 | 0.300 | 03/17/2014 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 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 | 432 | 16.0 | 03/17/2014 | ND | 448 | 112 | 400 | 7.41 | | | |

| 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 | 03/17/2014 | ND | 218 | 109 | 200 | 1.74 | | | |
| DRO >C10-C28 | <10.0 | 10.0 | 03/17/2014 | ND | 204 | 102 | 200 | 3.74 | | | |

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
KIT PRICHARD
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received: 03/14/2014
Reported: 03/17/2014
Project Name: MGU #53
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/14/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: SP 1 W. WALL 2' (H400790-03)

| 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 | 03/17/2014 | ND | 2.32 | 116 | 2.00 | 2.90 | |
| Toluene* | <0.050 | 0.050 | 03/17/2014 | ND | 2.21 | 110 | 2.00 | 2.66 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/17/2014 | ND | 2.16 | 108 | 2.00 | 2.78 | |
| Total Xylenes* | <0.150 | 0.150 | 03/17/2014 | ND | 6.27 | 104 | 6.00 | 2.30 | |
| Total BTEX | <0.300 | 0.300 | 03/17/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 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 | 848 | 16.0 | 03/17/2014 | ND | 448 | 112 | 400 | 7.41 | |

| 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 | 03/17/2014 | ND | 218 | 109 | 200 | 1.74 | |
| DRO >C10-C28 | <10.0 | 10.0 | 03/17/2014 | ND | 204 | 102 | 200 | 3.74 | |

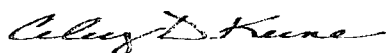
Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
KIT PRICHARD
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received: 03/14/2014
Reported: 03/17/2014
Project Name: MGU #53
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/14/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: SP 1 E. WALL 2' (H400790-04)

| BTX 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 | 03/17/2014 | ND | 2.32 | 116 | 2.00 | 2.90 | |
| Toluene* | <0.050 | 0.050 | 03/17/2014 | ND | 2.21 | 110 | 2.00 | 2.66 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/17/2014 | ND | 2.16 | 108 | 2.00 | 2.78 | |
| Total Xylenes* | <0.150 | 0.150 | 03/17/2014 | ND | 6.27 | 104 | 6.00 | 2.30 | |
| Total BTX | <0.300 | 0.300 | 03/17/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 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 | 400 | 16.0 | 03/17/2014 | 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 | 03/17/2014 | ND | 218 | 109 | 200 | 1.74 | |
| DRO >C10-C28 | <10.0 | 10.0 | 03/17/2014 | ND | 204 | 102 | 200 | 3.74 | |

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
KIT PRICHARD
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received: 03/14/2014
Reported: 03/17/2014
Project Name: MGU #53
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/14/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: SP 2 BOTTOM 4' (H400790-05)

| 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 | 03/17/2014 | ND | 2.32 | 116 | 2.00 | 2.90 | |
| Toluene* | <0.050 | 0.050 | 03/17/2014 | ND | 2.21 | 110 | 2.00 | 2.66 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/17/2014 | ND | 2.16 | 108 | 2.00 | 2.78 | |
| Total Xylenes* | <0.150 | 0.150 | 03/17/2014 | ND | 6.27 | 104 | 6.00 | 2.30 | |
| Total BTEX | <0.300 | 0.300 | 03/17/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 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 | 2720 | 16.0 | 03/17/2014 | 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 | 03/17/2014 | ND | 218 | 109 | 200 | 1.74 | |
| DRO >C10-C28 | <10.0 | 10.0 | 03/17/2014 | ND | 204 | 102 | 200 | 3.74 | |

Surrogate: 1-Chlorooctane 104 % 65.2-140
Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
KIT PRICHARD
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received: 03/14/2014
Reported: 03/17/2014
Project Name: MGU #53
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/14/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: SP 2 S. WALL 2' (H400790-06)

| 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 | 03/17/2014 | ND | 2.32 | 116 | 2.00 | 2.90 | |
| Toluene* | <0.050 | 0.050 | 03/17/2014 | ND | 2.21 | 110 | 2.00 | 2.66 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/17/2014 | ND | 2.16 | 108 | 2.00 | 2.78 | |
| Total Xylenes* | <0.150 | 0.150 | 03/17/2014 | ND | 6.27 | 104 | 6.00 | 2.30 | |
| Total BTEx | <0.300 | 0.300 | 03/17/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 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 | 560 | 16.0 | 03/17/2014 | 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 | 03/17/2014 | ND | 218 | 109 | 200 | 1.74 | |
| DRO >C10-C28 | 28.7 | 10.0 | 03/17/2014 | ND | 204 | 102 | 200 | 3.74 | |

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
KIT PRICHARD
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received: 03/14/2014
Reported: 03/17/2014
Project Name: MGU #53
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/14/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: SP 2 W. WALL 2' (H400790-07)

| 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 | 03/17/2014 | ND | 2.32 | 116 | 2.00 | 2.90 | |
| Toluene* | <0.050 | 0.050 | 03/17/2014 | ND | 2.21 | 110 | 2.00 | 2.66 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/17/2014 | ND | 2.16 | 108 | 2.00 | 2.78 | |
| Total Xylenes* | <0.150 | 0.150 | 03/17/2014 | ND | 6.27 | 104 | 6.00 | 2.30 | |
| Total BTEX | <0.300 | 0.300 | 03/17/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 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 | 512 | 16.0 | 03/17/2014 | 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 | 03/17/2014 | ND | 218 | 109 | 200 | 1.74 | |
| DRO >C10-C28 | <10.0 | 10.0 | 03/17/2014 | ND | 204 | 102 | 200 | 3.74 | |

Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
KIT PRICHARD
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received: 03/14/2014
Reported: 03/17/2014
Project Name: MGU #53
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/14/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: SP 2 E. WALL 2' (H400790-08)

| 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 | 03/17/2014 | ND | 2.32 | 116 | 2.00 | 2.90 | |
| Toluene* | <0.050 | 0.050 | 03/17/2014 | ND | 2.21 | 110 | 2.00 | 2.66 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/17/2014 | ND | 2.16 | 108 | 2.00 | 2.78 | |
| Total Xylenes* | <0.150 | 0.150 | 03/17/2014 | ND | 6.27 | 104 | 6.00 | 2.30 | |
| Total BTEx | <0.300 | 0.300 | 03/17/2014 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 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 | 560 | 16.0 | 03/17/2014 | 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 | 03/17/2014 | ND | 218 | 109 | 200 | 1.74 | |
| DRO >C10-C28 | 11.0 | 10.0 | 03/17/2014 | ND | 204 | 102 | 200 | 3.74 | |

Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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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 |

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-----------------------|------------------|--------------|--|------------|----------|-----|---------|--------|------------|------------|--------|----------------|-------------|----------|----------|----------|--|--|--|--|--|--|--|
| Company Name: <u>Etesch</u> | | BILL TO | | ANALYSIS REQUEST | | | | | | | | | | | | | | | | | | | | |
| Project Manager: <u>Kit Pritchard</u> | | P.O. #: | | <div style="display: flex; flex-direction: column; align-items: center;"> <div>chlorides</div> <div>BTEX</div> <div>TPH</div> </div> | | | | | | | | | | | | | | | | | | | | |
| Address: | | Company: | | | | | | | | | | | | | | | | | | | | | | |
| City: | State: | Zip: | Attn: | | | | | | | | | | | | | | | | | | | | | |
| Phone #: | Fax #: | Address: | | | | | | | | | | | | | | | | | | | | | | |
| Project #: | Project Owner: | | City: | | | | | | | | | | | | | | | | | | | | | |
| Project Name: <u>M Gu 53</u> | | | State: Zip: | | | | | | | | | | | | | | | | | | | | | |
| Project Location: <u>Eddy County</u> | | | Phone #: | | | | | | | | | | | | | | | | | | | | | |
| Sampler Name: <u>Terry Osborn</u> | | | Fax #: | | | | | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | | | | | | | | | | | | | | | | | | | | | |
| Lab I.D. | Sample I.D. | (GRAB OR C) OMP. | # CONTAINERS | MATRIX | | | | PRESERV | | SAMPLING | | | | | | | | | | | | | | |
| | | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER: | ACID/BASE: | ICE / COOL | OTHER: | DATE | TIME | | | | | | | | | | |
| <u>H400790-</u> | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>01</u> | <u>SP1 Bottom 4'</u> | | <u>1</u> | | | <u>✓</u> | | | | | | | <u>3-14-14</u> | <u>4:00</u> | <u>✓</u> | <u>✓</u> | <u>✓</u> | | | | | | | |
| <u>02</u> | <u>SP1 N. wall 2'</u> | | | | | | | | | | | | | | | | | | | | | | | |
| <u>03</u> | <u>SP1 W. wall 2'</u> | | | | | | | | | | | | | | | | | | | | | | | |
| <u>04</u> | <u>SP1 E. wall 2'</u> | | | | | | | | | | | | | | | | | | | | | | | |
| <u>05</u> | <u>SP2 Bottom 4'</u> | | | | | | | | | | | | | | | | | | | | | | | |
| <u>06</u> | <u>SP2 S. wall 2'</u> | | | | | | | | | | | | | | | | | | | | | | | |
| <u>07</u> | <u>SP2 W. wall 2'</u> | | | | | | | | | | | | | | | | | | | | | | | |
| <u>08</u> | <u>SP2 E. wall 2'</u> | | | | | | | | | | | | | <u>4:15</u> | | | | | | | | | | |

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| | | | | |
|--------------------------------------|--|------------------------------|--|----------------|
| Relinquished By: <u>Terry Osborn</u> | Date: <u>3/14/14</u> | Received By: <u>Michelle</u> | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | Add'l Phone #: |
| | Time: <u>5:30p</u> | | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | Add'l Fax #: |
| Relinquished By: | Date: | Received By: | REMARKS: <u>Samples just taken & brought to lab.</u> | |
| | Time: | | <u>Pushed</u> | |
| Delivered By: (Circle One) | Sample Condition | CHECKED BY: (Initials) | | |
| Sampler - UPS - Bus - Other: | Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <u>cdh</u> | | |

August 26, 2013

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MALJAMAR GRAYBURG UNIT #53

Enclosed are the results of analyses for samples received by the laboratory on 08/20/13 8:35.

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

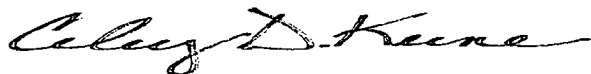
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 08/20/2013 | Sampling Date: | 08/16/2013 |
| Reported: | 08/26/2013 | Sampling Type: | Soil |
| Project Name: | MALJAMAR GRAYBURG UNIT #53 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: PT. 1 SURFACE (H301980-01)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 22400 | 16.0 | 08/22/2013 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: PT. 1 1' (H301980-02)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4560 | 16.0 | 08/22/2013 | ND | 416 | 104 | 400 | 3.92 | |

Sample ID: PT. 2 SURFACE (H301980-03)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 9200 | 16.0 | 08/22/2013 | ND | 416 | 104 | 400 | 3.92 | |

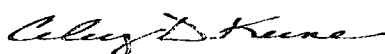
Sample ID: PT. 2 6" (H301980-04)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 10800 | 16.0 | 08/22/2013 | ND | 416 | 104 | 400 | 3.92 | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

| | | | |
|-------------------|----------------------------|---------------------|---------------|
| Received: | 08/20/2013 | Sampling Date: | 08/16/2013 |
| Reported: | 08/26/2013 | Sampling Type: | Soil |
| Project Name: | MALJAMAR GRAYBURG UNIT #53 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: PT. 3 SURFACE (H301980-05)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 496 | 16.0 | 08/22/2013 | ND | 416 | 104 | 400 | 3.92 | | |


Sample ID: PT. 3 1' (H301980-06)

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 4560 | 16.0 | 08/22/2013 | ND | 416 | 104 | 400 | 3.92 | | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

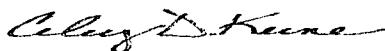
Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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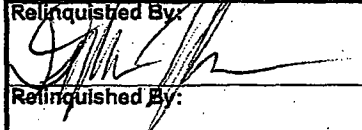

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| | | | | | | | | | | | | | | | | | | | |
|---|---------------|-----------------|--------------|----------------------|------------|-------|-----|-------------------------|--------|------------|------------|--------|---------|------|---|--|--|--|--|
| Company Name: <u>Lin Energy</u> | | | | BILL TO | | | | ANALYSIS REQUEST | | | | | | | | | | | |
| Project Manager: | | | | P.O. #: | | | | | | | | | | | | | | | |
| Address: | | | | Company: <u>RECS</u> | | | | | | | | | | | | | | | |
| City: | | State: | | Zip: | | Attn: | | | | | | | | | | | | | |
| Phone #: | | Fax #: | | Address: | | City: | | | | | | | | | | | | | |
| Project #: | | Project Owner: | | State: | | Zip: | | | | | | | | | | | | | |
| Project Name: | | Phone #: | | Fax #: | | | | | | | | | | | | | | | |
| Project Location: <u>Maljamar Grayburg Unit #53</u> | | | | | | | | | | | | | | | | | | | |
| Sampler Name: | | | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | | | | | | | | | | | | | | | | |
| Lab I.D. | Sample I.D. | GRAB OR (C)OMP. | # CONTAINERS | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER: | ACID/BASE: | ICE / COOL | OTHER: | DATE | TIME | | | | | |
| H301980 | | | | | | | | | | | | | | | | | | | |
| 1 | PT. 1 Surface | G | 1 | | | 1 | | | | 1 | | | 8/16/13 | 2:00 | ✓ | | | | |
| 2 | PT. 1 | G | 1 | | | 1 | | | | 1 | | | 8/16/13 | 2:10 | ✓ | | | | |
| 3 | PT. 2 Surface | G | 1 | | | 1 | | | | 1 | | | 8/16/13 | 2:15 | ✓ | | | | |
| 4 | PT. 2 | G | 1 | | | 1 | | | | 1 | | | 8/16/13 | 2:20 | ✓ | | | | |
| 5 | PT. 3 Surface | G | 1 | | | 1 | | | | 1 | | | 8/16/13 | 2:25 | ✓ | | | | |
| 6 | PT. 3 | G | 1 | | | 1 | | | | 1 | | | 8/16/13 | 2:35 | ✓ | | | | |

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| | | | | |
|--|----------------------|---|--|----------------|
| Relinquished By:  | Date: <u>8/20/13</u> | Received By: <u>Jodi Benson</u> | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | Add'l Phone #: |
| Time: <u>8:35</u> | | | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | Add'l Fax #: |
| Relinquished By: | Date: | Received By: | REMARKS: | |
| Time: | | | | |
| Delivered By: (Circle One) | | Sample Condition | CHECKED BY: | |
| Sampler - UPS - Bus - Other: | | Cool <input type="checkbox"/> Intact <input type="checkbox"/> |  | |
| | | Yes <input type="checkbox"/> No <input type="checkbox"/> | | |

Soil Boring Log

Page 1

Final C-141