

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

HOBBS OGD
Energy Minerals and Natural Resources

JUL 17 2014
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

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

RECEIVED
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 Specialist</i>	
Title: Construction Foreman II	Approval Date: <i>7-17-14</i>	Expiration Date: _____
Mail Address: bwall@linenergy.com Date: 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

ogrid 269324
ATO 141983553
P70 1418944384



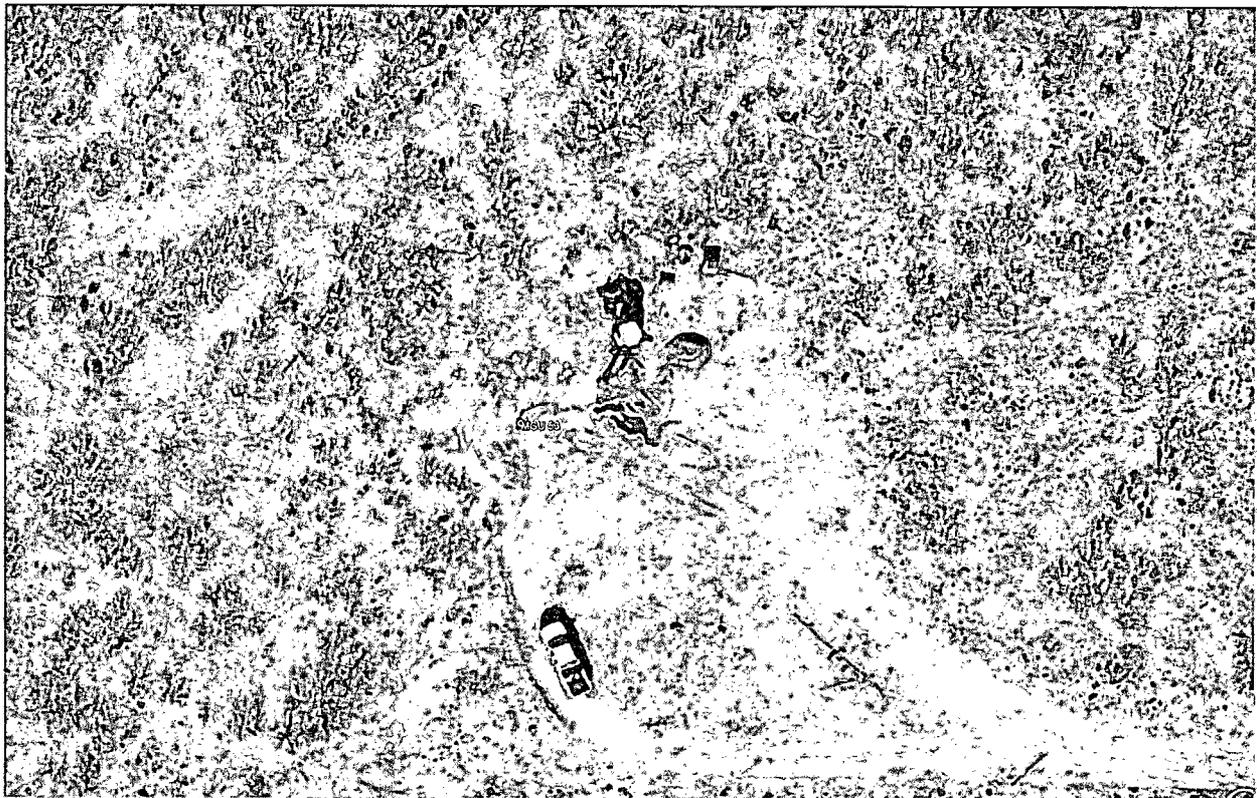
HOBBS OCD

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



Remediation Summary Report Form

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 written in a cursive style with a large, sweeping initial "P".

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.

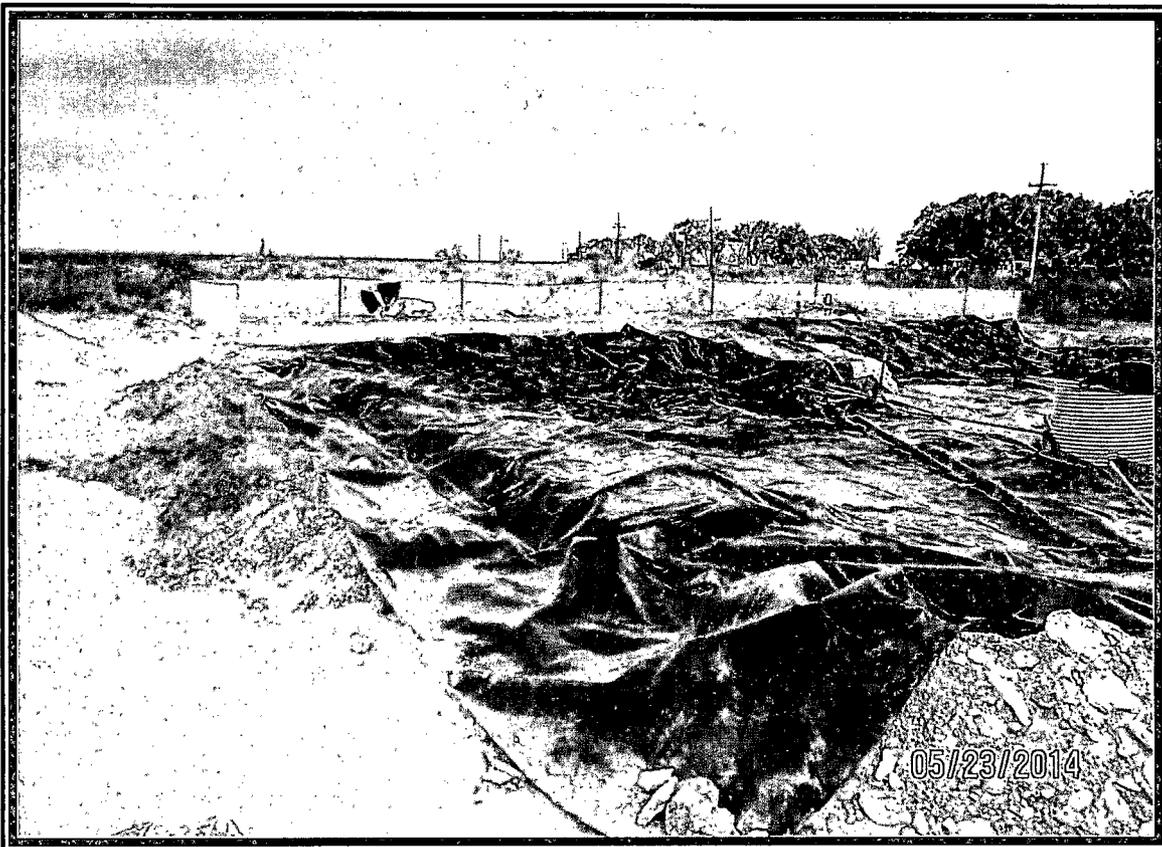


Photo 3: View of liner installation.

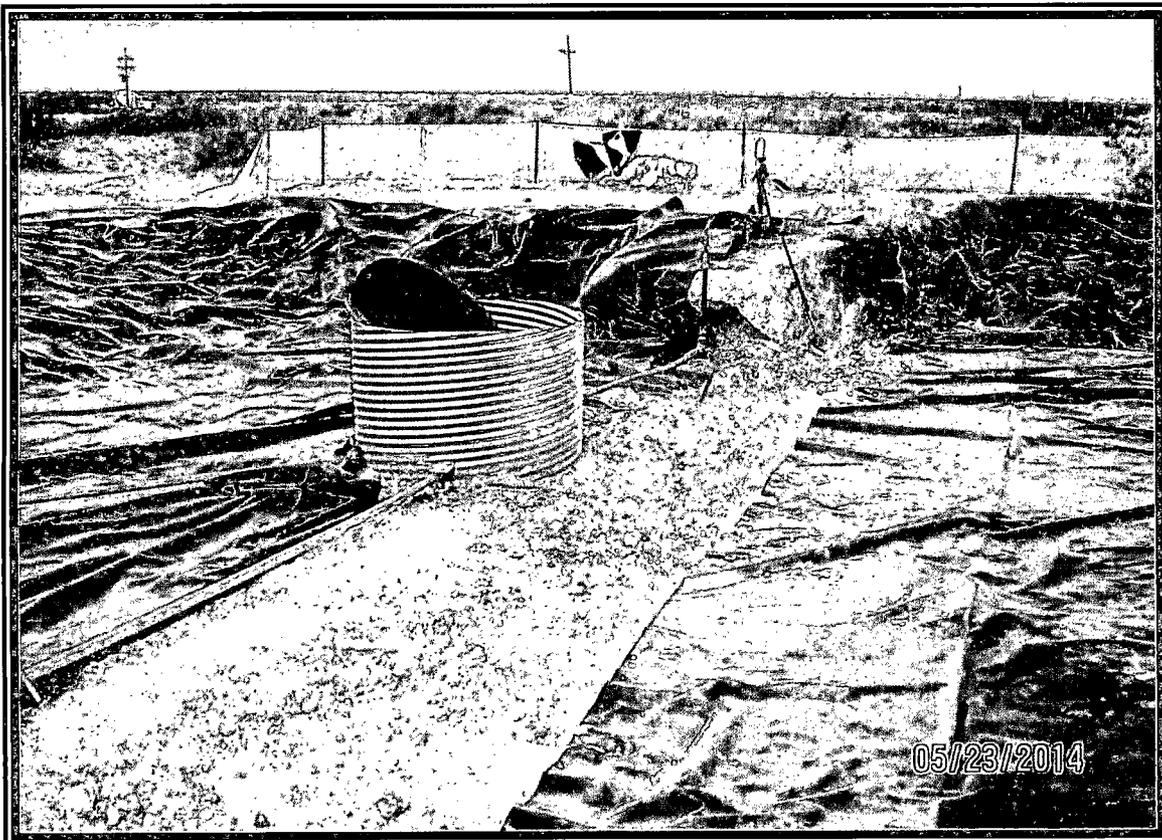


Photo 4: View of liner installation progress. Liner was installed in three sections.

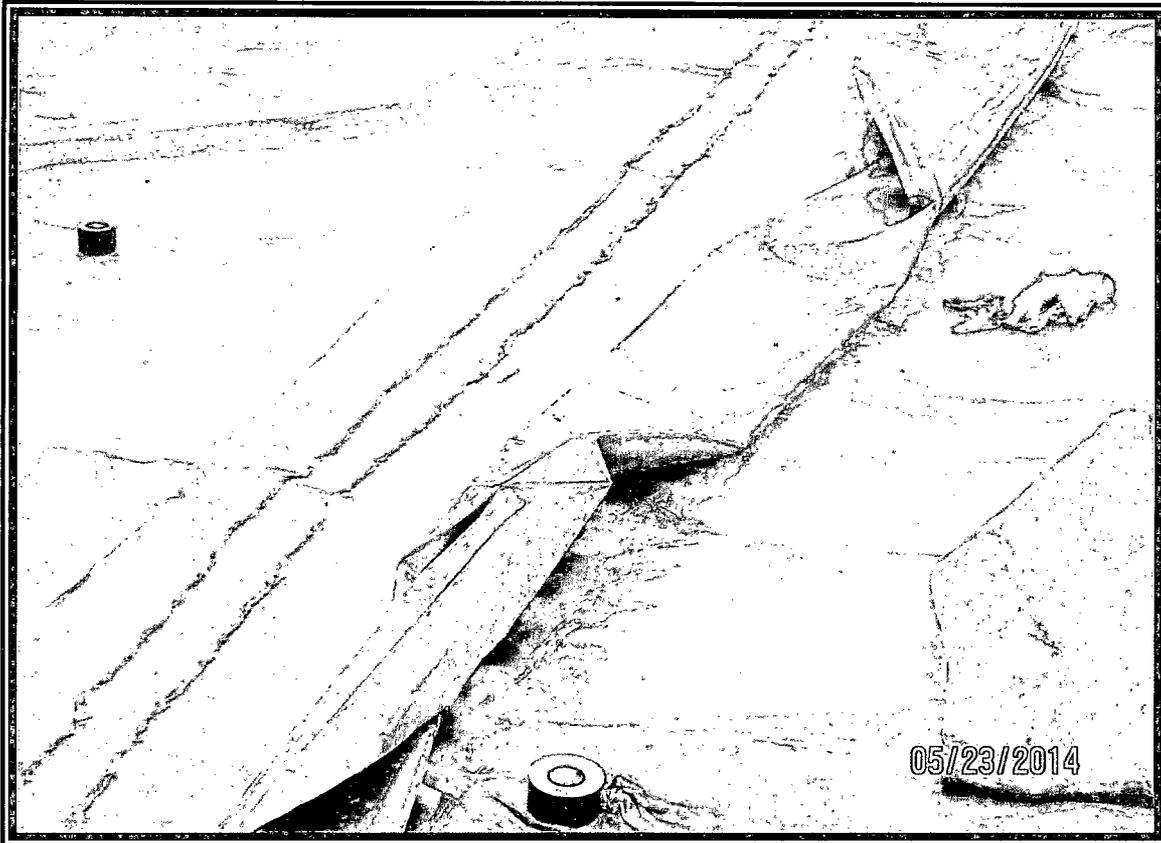


Photo 5: View of liner seam before overlapping and sealing. Two beads of flexible urethane adhesive are between the two layers. Then an out layer of industrial, waterproof adhesive tape is used to seal the edges.



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

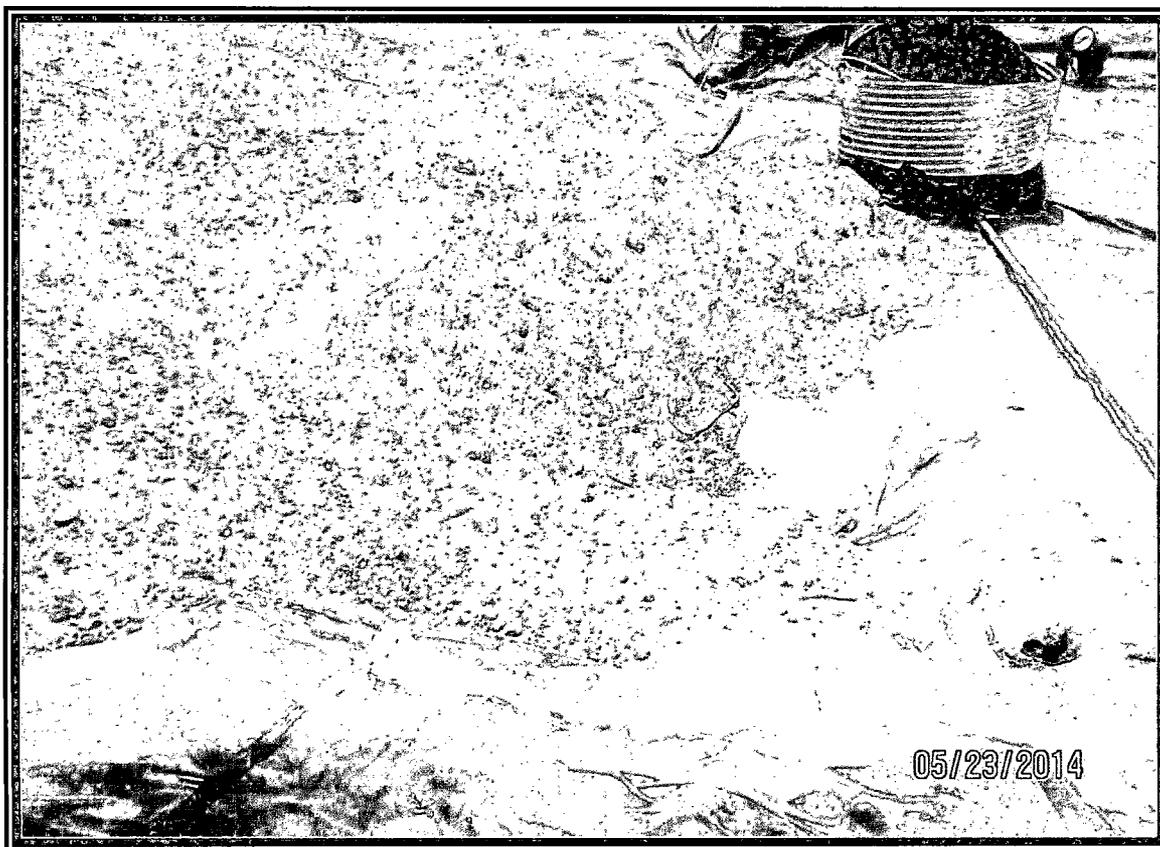


Photo 7: Lined area in the process of being backfilled.

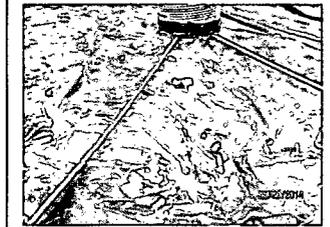
Assessment Map & Corrective Action Plan



**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:



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	Sampling Date:	06/03/2014
Reported:	06/10/2014	Sampling Type:	Soil
Project Name:	MGU #53	Sampling Condition:	Cool & Intact
Project Number:	253-4583-002	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

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		

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

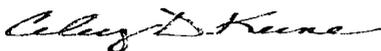
Notes and Definitions

- 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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 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

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

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	Sampling Date:	05/13/2014
Reported:	05/19/2014	Sampling Type:	Soil
Project Name:	MGU #53	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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						

Recovery: Dibromofluoromethane	98.1 %	61.3-142
Recovery: 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		

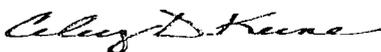
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3		
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0		

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

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*=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 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

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	Sampling Date:	05/13/2014
Reported:	05/19/2014	Sampling Type:	Soil
Project Name:	MGU #53	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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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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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Celey D. Keene, Lab Director/Quality Manager

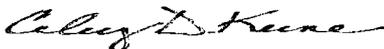
Notes and Definitions

- 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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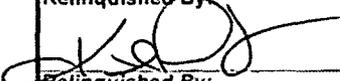
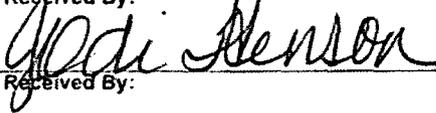
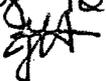
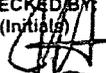
Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: ETECH		BILL TO				ANALYSIS REQUEST										
Project Manager: KIT RICHARD		P.O. #:														
Address:		Company:														
City: State: Zip:		Attn:														
Phone #: Fax #:		Address:														
Project #: Project Owner: LINA		City:														
Project Name: M6L 53		State: Zip:														
Project Location: LEA COUNTY		Phone #:														
Sampler Name: HSD		Fax #:														
FOR LAB USE ONLY		G/RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		CHLORIDES	PPH	BIEX
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE			
H401452																
1	SP1 NORTH 2'	6	1			/						5/13/14	1330	/	/	/
2	SP2 BOTTOM 14'	6	1			/						5/13/14	1300	/	/	/
3	SP2 EAST 2'	6	1			/						5/13/14	1430	/	/	/
4	SP2 WEST 2'	6	1			/						5/13/14	1400	/	/	/
5	SP3 SOUTH 2'	6	1			/						5/13/14	1500	/	/	/

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Relinquished By: 	Date: 5-13-14	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: 16:10	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Date:	Time:	REMARKS: Samples taken & brought directly to lab. 	
Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" 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	Sampling Date:	03/14/2014
Reported:	03/17/2014	Sampling Type:	Soil
Project Name:	MGU #53	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

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		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

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: 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, SM4500CI-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

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: 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)

BTEX 8021B			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					

Negative: 4-Bromofluorobenzene (PIC) 101 % 89.4-126

Chloride, SM4500CI-B			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			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

Cardinal Laboratories

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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
 Surrogate: 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	

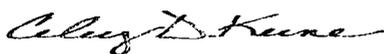
TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2014	ND	218	109	200	1.74	
DRO >C10-C28	28.7	10.0	03/17/2014	ND	204	102	200	3.74	

 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	Sampling Date:	03/14/2014
Reported:	03/17/2014	Sampling Type:	Soil
Project Name:	MGU #53	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

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

BTEX 8021B			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					

Negative: 4-Bromofluorobenzene (PIC) 101 % 89.4-126

Chloride, SM4500CI-B			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			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	Sampling Date:	03/14/2014
Reported:	03/17/2014	Sampling Type:	Soil
Project Name:	MGU #53	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

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 (PIC) 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	

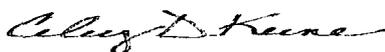
Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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* = 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

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, SM4500CI-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, SM4500CI-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, SM4500CI-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, SM4500CI-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		

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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		

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Celey D. Keene, Lab Director/Quality Manager

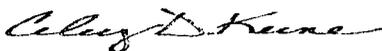
Notes and Definitions

- 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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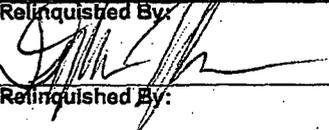
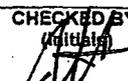
Celey D. Keene, Lab Director/Quality Manager

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:													
Project #:	Project Owner:		City:												
Project Name:	State:		Zip:												
Project Location: <u>Maljamar Grayburg Unit #53</u>		Phone #:													
Sampler Name:		Fax #:													
FOR LAB USE ONLY															
Lab I.D.	Sample I.D.	(G) GRAB OR (C) COMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING		C			
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL		OTHER:	DATE	TIME
<u>H301980</u>															
1	<u>PT. 1 Surface</u>	<u>G</u>	<u>1</u>			<u>1</u>				<u>1</u>				<u>8/16/13</u>	<u>2:00</u>
2	<u>PT. 1</u>	<u>G</u>	<u>1</u>			<u>1</u>				<u>1</u>				<u>8/16/13</u>	<u>2:10</u>
3	<u>PT. 2 Surface</u>	<u>G</u>	<u>1</u>			<u>1</u>				<u>1</u>				<u>8/16/13</u>	<u>2:15</u>
4	<u>PT. 2</u>	<u>G</u>	<u>1</u>			<u>1</u>				<u>1</u>				<u>8/16/13</u>	<u>2:20</u>
5	<u>PT. 3 Surface</u>	<u>G</u>	<u>1</u>			<u>1</u>				<u>1</u>				<u>8/16/13</u>	<u>2:25</u>
6	<u>PT. 3</u>	<u>G</u>	<u>1</u>			<u>1</u>				<u>1</u>			<u>8/16/13</u>	<u>2:35</u>	

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Relinquished By: 	Date: <u>8/20/13</u>	Received By: <u>Jodi Henson</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) Sampler - UPS - Bus - Other:	Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: 			

Soil Boring Log



BORING LOG

Drill Rig:

Date Drilled: May 28, 2014

Logged By:

Boring Dia: 6 Inches

Boring Number: MGU-53 Boring

M. Hagan

Sample	Blow Counts	Completion	Depth Feet	Lithology	Description
	132		5		Pit Fill-SAND and CALICHE: Light Redish Brown, 2.5YR 7/4, fine grained, moderately to well sorted, loose.
	268				
	224				
	64				
	172				
	144		10		SAND and SANDy CALICHE: Redish Brown, 5YR 5/4, fine grained, well sorted, subangular, friable. SANDy CALICHE: White, 5YR 8/1, fine grained SAND, subrounded, firm to soft. SANDy CALICHE: White, 5YR 8/1, fine grained SAND, subrounded, firm.
	944				
	1,576				
	1,468				
	1,016				
	592		15		CALICHE and SAND: Pinkish White, 5YR 8/2, firm and soft, calcareous. SAND: Light Redish Brown, 5YR 6/4, very fine to medium grained, moderately to poorly sorted, subangular, loose.
	292				
	420				
	460				
	420				
	460		20		
	500				
	312				
	312				
	312				
	284		25		
	224				
	200				
	172				
	148				
	172	30		SAND: Redish Yellow, 5YR 6/6, very fine to fine grained, moderately sorted, subangular to rounded. Traces of GRAVEL: Mottled Grey, large and medium pebble.	
	148				
	128				
	ND				
		45			

Completion Notes:

The boring was filled with concrete from its total depth of 50-feet below the ground's surface to the ground's surface.

Site:

MGU-53 Boring

Majamar, NM

Project No.:

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Final C-141