



Genera	Inform	ation
		. ~ •

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

Date: October 31, 2014 **Client:** LINN Energy

Site Name: 7 Rivers Queen Unit 60 County: Lea State: NM

Site Coordinates Latitude: 32.3482077157592

Longitude: -103.257434938142

Property Owner: Private **State Report No.:** 1RP-3213

Release Description and Assessment

The information	below is related to the spill (Date, Type, Cause and Quantity) and the area impacted.
Date of Spill:	8/4/14
Type of Spill:	
Cause of Spill:	☐ Equipment Failure ☐ Valve Failure ☐ Line Rupture ☐ Leaking Tank ☐ Tank Overfill
	Other (List):
Other Contributi	ng Factors or Comments:
Quantity Spilled	: 15/1 bbls. Quantity Recovered: 0/0 bbls. Total Released: 15/1 bbls.
Method of Reco	very: ☐ Vacuum Truck ☐ Other (Specify):
OCD Notified:	
Spill Area Impac	ted: ☐ Inside Firewall ☐ On Production Pad ☐ In Pasture ☐ In Cultivated Land
	Other (List):
Total Square Fo	otage Impacted: 8800 Estimated Depth: 1-6' Volume (Cu. Yds): 2000
Other Comments	s:

Remediation Activity Summary

The following summarizes the activities used to remediate the spill.

Impacted soils above regulatory threshold levels were manually and mechanically excavated from the spill area.

The affected area was excavated and hauled to Lealand for disposal. The bottom of the excavation still has elevated levels of chlorides ranging from 1800 to 5040 mg/kg. The presence of lines restricted further excavation due to safety concerns. Two (2) soils borings via hand auger were advanced within the bottom of the excavation to attempt to delineate the vertical extent of the impact. SP2 400 mg/kg at 12', SP3 272 mg/kg at 18'. An OCD approved calcium amendment was installed to the bottom of the excavation (gypsum) then backfilled with clean compacted material to within 1.5 - 2 feet of surface then the backfill was completed with compatible soil which is conducive to growing vegetation. Then the site was seeded with an approved BLM mix.

Analytical Summary

Results of analyses following remediation activities are as follows:

To	Summary of Remediation Sampling Analytical Results Total Petroleum Hydrocarbons - [TPH (mg/kg)] & Chlorides [Chl (mg/kg)]											
Sample #	Depth (ft)	Date	TPH C6-C10	TPH C10-C28	Total TPH		Chl					
SP2	12	9/8/14	NA	NA	NA		400					
SP3	18	9/8/14	NA	NA	NA		272					

^{*} ND = Non-Detect; concentration below

A review of the analytical data indicated the sample is within the Oil Conservation Division (OCD) regulatory threshold limits. Based upon this information it has been determined that remediation of the site is complete. Copies of analytical reports, seed tickets, photographs, BLM closure and final C-141 are attached.

Prepared by:

Kit Prichard

Etech Environmental & Safety Solutions, Inc.

mg/kg.



Spill area before excavation.



Spill area before excavation.



Spill area before excavation.



Spill area during excavation.



Site being seeded.



Site being seeded.



Electronic Correspondence

September 10, 2014

Dr. Tomas Oberding
State of New Mexico
Oil Conservation Division
1625 N. French Drive
Hobbs, NM 88240
tomas.oberding@state.nm.us

Re: Corrective Action Plan

LINN Energy, Seven Rivers Queen Unit 60

API No.: 30-025-28122

Legal: Unit L- Sec 35 – T22S – R36E, Lea Co., NM GPS: 32.3482077157592, -103.257434938142

Dear Tomas:

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 as far as practicable or until the chloride levels are less than 1,000 mg/kg and/or hydrocarbon levels of less than 5,000 mg/kg are reached. Please note: The delineation data was collected from the lowest point in the impacted area where it was evident liquids had pooled. The assessment map includes the delineation data and the sampling points (SP's) that will be used to determine that the excavation has reached remediation objectives.
- 3. 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.
- 4. Once the screening determines the remediation objectives have been reached, confirmation samples will be collected from the bottom of the excavation to confirm that remediation goals have been reached. If the excavation depth is greater than 2 feet vertical, side wall samples will be collected as well.
- 5. If the results of analysis determine that the chloride levels are above regulatory threshold levels, additional excavation will be performed until the remediation objectives are met. It should be noted that due to the depth of the impact from the delineation, there may be circumstance that arise where additional excavation is not practical. This includes reaching the limits of excavation with chlorides that are close to objective levels, safety

issues such as the close proximity of equipment, or other site specific issues. In this event, it will be likely to install a liner or a layer of gypsum at the bottom of the excavation before backfilling.

- 6. Backfilling of the excavated area(s) will be achieved by placing clean fill similar to the existing material from the site to within 2 foot of the surface. The last two feet will be backfilled with top soil of similar configuration to the surrounding area and contoured to match the existing grade.
- 7. Where pad areas or interior areas of tank batteries are excavated, 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.
- 8. The site will be seeded with a 50/50 mixture of BLM #2 and #4 seed. Seeding will take place when the seasonal conditions are conducive to maximizing the potential for seed germination. Actual seeding will be accomplished by broadcast or drilling; whichever is the most practical for the site.

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@linnenergy.com or myself at (432) 563-2200 (office) or via email at kit@etechenv.com.

Respectfully:

Kit Prichard

Environmental Professional

cc: Jeffery Robertson, BLM Carlsbad District Office



September 09, 2014

KIT PRICHARD

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: SRQU #60

Enclosed are the results of analyses for samples received by the laboratory on 09/08/14 16:30.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 09/08/2014

Reported: 09/09/2014
Project Name: SRQU #60
Project Number: 253-5377-000
Project Location: LEA COUNTY, NM

Sampling Date: 09/08/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 4' (H402785-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2014	ND	1.89	94.7	2.00	8.34	
Toluene*	<0.050	0.050	09/09/2014	ND	1.70	85.0	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/09/2014	ND	1.57	78.4	2.00	8.62	
Total Xylenes*	<0.150	0.150	09/09/2014	ND	4.86	81.0	6.00	7.43	
Total BTEX	<0.300	0.300	09/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/09/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2014	ND	168	84.0	200	4.11	
DRO >C10-C28	35.1	10.0	09/09/2014	ND	186	92.9	200	2.47	
Surrogate: 1-Chlorooctane	86.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.0	% 63.6-15	4						

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 whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 09/08/2014 Sampling Date: 09/08/2014

Reported: 09/09/2014 Sampling Type: Soil

Project Name: SRQU #60 Sampling Condition: Cool & Intact
Project Number: 253-5377-000 Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: SP 2 12' (H402785-02)

mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	09/09/2014	ND	1.89	94.7	2.00	8.34	
<0.050	0.050	09/09/2014	ND	1.70	85.0	2.00	8.25	
<0.050	0.050	09/09/2014	ND	1.57	78.4	2.00	8.62	
<0.150	0.150	09/09/2014	ND	4.86	81.0	6.00	7.43	
<0.300	0.300	09/09/2014	ND					
104 %	6 89.4-12	6						
mg/	kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
400	16.0	09/09/2014	ND	416	104	400	0.00	
mg/	kg	Analyze	d By: ms					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<50.0	50.0	09/09/2014	ND	168	84.0	200	4.11	
258	50.0	09/09/2014	ND	186	92.9	200	2.47	
_	Result <0.050 <0.050 <0.050 <0.150 <0.300 104 % mg/l Result 400 mg/l	Result Reporting Limit <0.050	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD < 0.050

Surrogate: 1-Chlorooctadecane 111 % 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 whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 09/08/2014 Sampling Date: 09/08/2014

Reported: 09/09/2014 Sampling Type: Soil

Project Name: SRQU #60 Sampling Condition: Cool & Intact Sample Received By: Project Number: 253-5377-000 Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: SP 3 18' (H402785-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2014	ND	1.89	94.7	2.00	8.34	
Toluene*	<0.050	0.050	09/09/2014	ND	1.70	85.0	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/09/2014	ND	1.57	78.4	2.00	8.62	
Total Xylenes*	<0.150	0.150	09/09/2014	ND	4.86	81.0	6.00	7.43	
Total BTEX	<0.300	0.300	09/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/09/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2014	ND	168	84.0	200	4.11	
DRO >C10-C28	10.0	10.0	09/09/2014	ND	186	92.9	200	2.47	
Surrogate: 1-Chlorooctane	93.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	101 9	% 63.6-15	4						

Surrogate: 1-Chlorooctadecane

Cardinal Laboratories *=Accredited Analyte

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (675) 393-2326 FAX (575) 393-2476

(9/9) 383-2320 [7/3] 3707 000	211.40	ANALYSIS REQUEST
Company Name: Etech	BIL	
	1.0	
	Company: Lina Exergy	
City: State:	Zip: Attn:	
Phone #: Fax #:	Address:	
Project #: 2 53 - 5377 - 0 00 Project Owner:	Owner: City:	
3	State: Zip:	
100 00	Phone #:	
1015	Fax#:	: 5
ŀ	MATRIX PRESERV. SAMPLING	
Lab I.D. Sample I.D.		Chlori TPh BTE
1 50) 4	Z	
3 503 18	V V 1 14.30	
	the said day the client	as for the
	The state of the second st	THE COLUMN

494

Sample Condition
Cool Intact
Ves Ves

Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished By:

Relinquished By:

Date: 8-14 Time: Date: Time:

Phone Result: Fax Result: REMARKS:

☐ Yes

□ No

Add'l Phone #: Add'l Fax #:

Rushli

completion of the applicable

30

Received By:

analyses. All claims including those for neg service. In no event shall Cardinal be liable



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<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

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

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

Release Notification and Corrective Action

Form C-141

Revised October 10, 2003

			OPERAT	OR		Initial	Report	☐ Final Report
Name of Company: Linn Operating			Contact: Bri					
Address: 2130 W. Bender Hobbs, NM 88240				No.: 575-738-17				
Facility Name: Seven Rivers Queen Unit # 60			Facility Typ	e: Oil Producer				
Surface Owner: Private	Mineral C)wner:				API No	.: 30-025-	-28122
	LOCA'	TION	OF REL	EASE				
	et from the		South Line	Feet from the	East/V	Vest Line	County	
L 34 22S 36E	2605		South	1280	'	West		Lea
Latitude: 32	2.34820771	157592	Longitude	: -103.25743493	38142			
	NATU	JRE (OF RELE					
Type of Release: Produced Water / Oil				Release: 15 bbls			Recovered:	
Source of Release: 2 7/8 Steel pipeline			08/04/2014		e:		Hour of Di 4 2:45pm	
Was Immediate Notice Given? ☐ Yes ☐ No	☐ Not Re	equired	If YES, To Jeff Robert	Whom? tson-BLM / Toma	as Ober	ding- NM (OCD	
By Whom? Brian Wall			Date and H	Iour 08/06/2014 (0700			
Was a Watercourse Reached? ☐ Yes ☑ No			If YES, Vo	olume Impacting t	he Wate	ercourse.		
If a Watercourse was Impacted, Describe Fully.*:								
1								
Describe Cause of Problem and Remedial Action Tak Airplane passing by spotted leak.	ten.*: Old 2	7/8 stee	l flow line has	s a pinn hole could	d not se	e leak from	well. Leak	is in sanddunes.
Describe Area Affected and Cleanup Action Taken.* Directions to site: Go south on 207 for one mile turn then turn right the go a 1/4 of a mile to well 60 then go	left onto del		asin road go s	six miles then turn	n left on	to pipeline	rightway fo	or 3 and a half miles
I hereby certify that the information given above is true regulations all operators are required to report and/or public health or the environment. The acceptance of a should their operations have failed to adequately inversion the environment. In addition, NMOCD acceptance federal, state, or local laws and/or regulations.	file certain r a C-141 repo stigate and r	elease r ort by th emediat	otifications and e NMOCD mate contaminati	nd perform correc arked as "Final Ro on that pose a thre	tive acti eport" d eat to gr	ions for rele loes not reli ound water	eases which eve the ope , surface w	h may endanger erator of liability vater, human health
Al-11				OIL CONS	SERV	ATION	DIVISI	<u>ON</u>
Signature:			Annroyed by	District Supervise	or.			
Printed Name: Brian Wall			ripproved by	District Superviso	oi.			
Title: Construction Foreman II			Approval Dat	te:		Expiration 1	Date:	
E-mail Address: bwall@linnenergy.com Date: 08/06/2014 Phone: 806-367-	0645		Conditions of	f Approval:			Attache	d 🗌

^{*} Attach Additional Sheets If Necessary



Electronic Correspondence

October 21, 2014

Dr. Tomas Oberding State of New Mexico Oil Conservation Division 1625 N. French Drive Hobbs, NM 88240 tomas.oberding@state.nm.us

Re: Corrective Action Plan Amendment

LINN Energy, 7 Rivers Queen Unit 60

Legal: Unit L, Section 35 T22S R36E, 2605 FSL & 1280 FWL, Lea County, NM

API #: 30-025-28122

Lat-Long: 32.3482077157592, -103.257434938142

Event No. (OCD): 1RP-3213

Dear Tomas:

Etech Environmental & Safety Solutions, Inc. (Etech) submits the following amended corrective action plan on the aforementioned site for your review and approval.

Current Project Status

- 1. The status of the remediation of the site to date is as follows:
- 2. The impacted area is approximately 110' long 90' wide 6' deep.
- 3. There are lines within the confines of the excavation that are suspended approx. 6' while the excavation is open.
- 4. All side walls of the excavation below the regulatory threshold levels of 1,000 mg/kg chlorides, 5000 mg/kg TPH.
- 5. The bottom of the excavation still has elevated levels of chlorides ranging from 1800 to 5040 mg/kg. A map showing the sample locations and analytical results along with a copy of the analysis is attached.
- 6. The presence of the lines has restricted further excavation due to safety concerns. Two (2) soils borings via hand auger were advanced within the bottom of the excavation to attempt to delineate the vertical extent of the impact. SP2 400 mg/kg at 12', SP3 272

mg/kg at 18' The results of the laboratory analysis of samples collected from the bottom of the soil borings are attached.



A photograph of the site is provided below:

Proposed Corrective Action

LINN is proposing an amendment to the corrective action to this site. The factors used to determine this corrective action include first the safety of all persons related to performing additional excavation within the site. In addition, based upon available data, groundwater in the area is believed to be in excess of 125 feet. The corrective actions evaluated for the site (based upon the above) are presented as follows:

- 1. Backfill with clean compacted fill material.
- 2. Apply a calcium amendment to the bottom of the excavation (gypsum) then backfill with clean compacted fill material to within 1.5 2 feet of surface then complete the backfill with compatible soil which is conducive to growing vegetation.

3. Installation of a 20 mil polyethylene liner in the bottom of the excavation, then backfill with clean compacted fill material to within 1.5 – 2 feet of surface then complete the backfill with compatible soil which is conducive to growing vegetation

After review of the above options, LINN believes, the best approach is Option 2, utilizing the application of a calcium amendment to the bottom of the excavation (gypsum) then backfill with clean compacted fill material to within 1.5-2 feet of surface then complete the backfill with compatible soil which is conducive to growing vegetation. Using gypsum will effectively ensure that any residual chlorides in the bottom of the excavation will not migrate further vertically and not cause any adverse impact to the reclamation of the site.

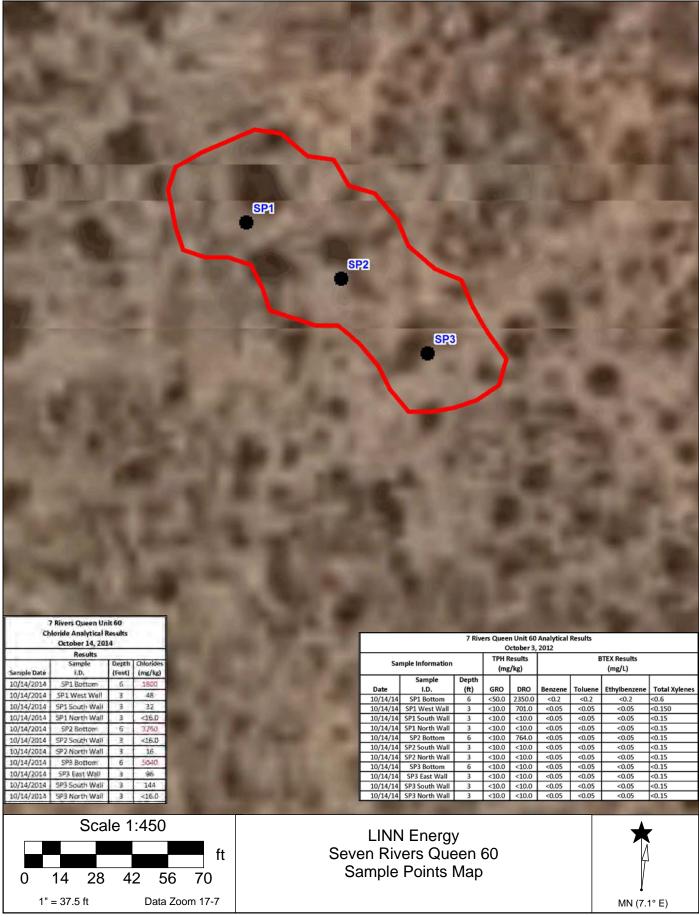
Thank you for your assistance on this matter. Also, attached is the initial C-141 for your reference. Should you have any questions, require additional information, or have any additional stipulations for this site, please contact Mr. Brian Wall at (575) 738-1739 (Office) or via email at bwall@linnenergy.com or myself at (432) 563-2200 (office) or via email at kit@etechenv.com.

Respectfully:

Kit Prichard

Environmental Professional





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October 15, 2014

KIT PRICHARD

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: SRQU #60

Enclosed are the results of analyses for samples received by the laboratory on 10/14/14 16:55.

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 accreditated 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)

Celey D. Keine

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



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 10/14/2014 Reported: 10/15/2014

Project Name: SRQU #60
Project Number: 253-5377-000
Project Location: LEA COUNTY, NM

Sampling Date: 10/14/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: SP 1 BOTTOM 6' (H403154-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/15/2014	ND	1.81	90.4	2.00	4.62	
Toluene*	<0.200	0.200	10/15/2014	ND	1.72	85.8	2.00	4.10	
Ethylbenzene*	<0.200	0.200	10/15/2014	ND	1.62	81.0	2.00	3.96	
Total Xylenes*	<0.600	0.600	10/15/2014	ND	4.78	79.7	6.00	4.71	
Total BTEX	<1.20	1.20	10/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	10/15/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	10/15/2014	ND	170	85.1	200	2.28	
DRO >C10-C28	2350	50.0	10/15/2014	ND	172	86.1	200	2.02	
Surrogate: 1-Chlorooctane	97.1	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	132 9	52.1-17	6						

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KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 10/14/2014 Sampling Date: 10/14/2014 Reported: Soil

10/15/2014 Sampling Type: Project Name: SRQU #60 Sampling Condition: Cool & Intact Sample Received By: Project Number: 253-5377-000 Kathy Perez

Project Location: LEA COUNTY, NM

Sample ID: SP 1 W. WALL 3' (H403154-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2014	ND	1.81	90.4	2.00	4.62	
Toluene*	<0.050	0.050	10/15/2014	ND	1.72	85.8	2.00	4.10	
Ethylbenzene*	<0.050	0.050	10/15/2014	ND	1.62	81.0	2.00	3.96	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.78	79.7	6.00	4.71	
Total BTEX	<0.300	0.300	10/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/15/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/15/2014	ND	170	85.1	200	2.28	
DRO >C10-C28	701	10.0	10/15/2014	ND	172	86.1	200	2.02	
Surrogate: 1-Chlorooctane	90.5		7						

110 % 52.1-176 Surrogate: 1-Chlorooctadecane

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Fax To: (432) 563-2213

Received: 10/14/2014 Sampling Date: 10/14/2014

Reported: 10/15/2014 Sampling Type: Soil

Project Name: SRQU #60 Sampling Condition: Cool & Intact
Project Number: 253-5377-000 Sample Received By: Kathy Perez

Project Location: LEA COUNTY, NM

Sample ID: SP 1 S. WALL 3' (H403154-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2014	ND	1.81	90.4	2.00	4.62	
Toluene*	< 0.050	0.050	10/15/2014	ND	1.72	85.8	2.00	4.10	
Ethylbenzene*	< 0.050	0.050	10/15/2014	ND	1.62	81.0	2.00	3.96	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.78	79.7	6.00	4.71	
Total BTEX	<0.300	0.300	10/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/15/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/15/2014	ND	170	85.1	200	2.28	
DRO >C10-C28	<10.0	10.0	10/15/2014	ND	172	86.1	200	2.02	
Surrogate: 1-Chlorooctane	86.7	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	100 9	52.1-17	6						

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Received: 10/14/2014 Sampling Date: 10/14/2014

Reported: 10/15/2014 Sampling Type: Soil

Project Name: SRQU #60 Sampling Condition: Cool & Intact
Project Number: 253-5377-000 Sample Received By: Kathy Perez

Sample ID: SP 1 N. WALL 3' (H403154-04)

LEA COUNTY, NM

Project Location:

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2014	ND	1.81	90.4	2.00	4.62	
Toluene*	<0.050	0.050	10/15/2014	ND	1.72	85.8	2.00	4.10	
Ethylbenzene*	<0.050	0.050	10/15/2014	ND	1.62	81.0	2.00	3.96	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.78	79.7	6.00	4.71	
Total BTEX	<0.300	0.300	10/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/15/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/15/2014	ND	170	85.1	200	2.28	
DRO >C10-C28	<10.0	10.0	10/15/2014	ND	172	86.1	200	2.02	
Surrogate: 1-Chlorooctane	84.0	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	95.1	% 52.1-17	6						

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Fax To: (432) 563-2213

Received: 10/14/2014 Sampling Date: 10/14/2014

Reported: 10/15/2014 Sampling Type: Soil

Project Name: SRQU #60 Sampling Condition: Cool & Intact Project Number: Sample Received By: 253-5377-000 Kathy Perez

Project Location: LEA COUNTY, NM

Sample ID: SP 2 BOTTOM 6' (H403154-05)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2014	ND	1.81	90.4	2.00	4.62	
Toluene*	<0.050	0.050	10/15/2014	ND	1.72	85.8	2.00	4.10	
Ethylbenzene*	<0.050	0.050	10/15/2014	ND	1.62	81.0	2.00	3.96	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.78	79.7	6.00	4.71	
Total BTEX	<0.300	0.300	10/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 61-154							
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	10/15/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/15/2014	ND	170	85.1	200	2.28	
DRO >C10-C28	764	10.0	10/15/2014	ND	172	86.1	200	2.02	
Surrogate: 1-Chlorooctane	92.9	% 47.2-15	7						

114 % 52.1-176 Surrogate: 1-Chlorooctadecane

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Fax To: (432) 563-2213

 Received:
 10/14/2014
 Sampling Date:
 10/14/2014

 Reported:
 10/15/2014
 Sampling Type:
 Soil

Project Name: SRQU #60 Sampling Condition: Cool & Intact
Project Number: 253-5377-000 Sample Received By: Kathy Perez

Project Location: LEA COUNTY, NM

Sample ID: SP 2 S. WALL 3' (H403154-06)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2014	ND	1.81	90.4	2.00	4.62	
Toluene*	<0.050	0.050	10/15/2014	ND	1.72	85.8	2.00	4.10	
Ethylbenzene*	<0.050	0.050	10/15/2014	ND	1.62	81.0	2.00	3.96	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.78	79.7	6.00	4.71	
Total BTEX	<0.300	0.300	10/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1 9	% 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/15/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/15/2014	ND	170	85.1	200	2.28	
DRO >C10-C28	<10.0	10.0	10/15/2014	ND	172	86.1	200	2.02	
Surrogate: 1-Chlorooctane	80.3 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	88.4 9	52.1-17	6						

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Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 10/14/2014 Sampling Date:

Reported:10/15/2014Sampling Type:SoilProject Name:SRQU #60Sampling Condition:Cool & IntactProject Number:253-5377-000Sample Received By:Kathy Perez

Project Location: LEA COUNTY, NM

Sample ID: SP2 N. WALL 3' (H403154-07)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2014	ND	1.81	90.4	2.00	4.62	
Toluene*	<0.050	0.050	10/15/2014	ND	1.72	85.8	2.00	4.10	
Ethylbenzene*	<0.050	0.050	10/15/2014	ND	1.62	81.0	2.00	3.96	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.78	79.7	6.00	4.71	
Total BTEX	<0.300	0.300	10/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/15/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/15/2014	ND	170	85.1	200	2.28	
DRO >C10-C28	<10.0	10.0	10/15/2014	ND	172	86.1	200	2.02	
Surrogate: 1-Chlorooctane	90.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	102 9	52.1-17	6						

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Fax To: (432) 563-2213

Received: 10/14/2014 Sampling Date: 10/14/2014 Reported: 10/15/2014 Sampling Type: Soil

Project Name: SRQU #60 Sampling Condition: Cool & Intact Sample Received By: Project Number: 253-5377-000 Kathy Perez

Project Location: LEA COUNTY, NM

Sample ID: SP 3 BOTTOM 6' (H403154-08)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2014	ND	1.81	90.4	2.00	4.62	
Toluene*	<0.050	0.050	10/15/2014	ND	1.72	85.8	2.00	4.10	
Ethylbenzene*	<0.050	0.050	10/15/2014	ND	1.62	81.0	2.00	3.96	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.78	79.7	6.00	4.71	
Total BTEX	<0.300	0.300	10/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 61-154	1						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	10/15/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/15/2014	ND	170	85.1	200	2.28	
DRO >C10-C28	<10.0	10.0	10/15/2014	ND	172	86.1	200	2.02	
Surrogate: 1-Chlorooctane	87.6	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	99 3	% 52 1-17	6						

Surrogate: 1-Chlorooctadecane 99.3 % 52.1-176

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Fax To: (432) 563-2213

Received: 10/14/2014 Sampling Date: 10/14/2014

Reported: 10/15/2014 Sampling Type: Soil
Project Name: SRQU #60 Sampling Condition: Cool

Project Name:SRQU #60Sampling Condition:Cool & IntactProject Number:253-5377-000Sample Received By:Kathy PerezProject Location:LEA COUNTY, NM

Sample ID: SP3 E. WALL 3' (H403154-09)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2014	ND	1.81	90.4	2.00	4.62	
Toluene*	< 0.050	0.050	10/15/2014	ND	1.72	85.8	2.00	4.10	
Ethylbenzene*	< 0.050	0.050	10/15/2014	ND	1.62	81.0	2.00	3.96	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.78	79.7	6.00	4.71	
Total BTEX	<0.300	0.300	10/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	61-154	!						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/15/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/15/2014	ND	170	85.1	200	2.28	
DRO >C10-C28	<10.0	10.0	10/15/2014	ND	172	86.1	200	2.02	
Surrogate: 1-Chlorooctane	89.5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	98.8	% 52.1-17	6						

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Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 10/14/2014 Sampling Date:

Reported:10/15/2014Sampling Type:SoilProject Name:SRQU #60Sampling Condition:Cool & IntactProject Number:253-5377-000Sample Received By:Kathy Perez

Project Location: LEA COUNTY, NM

Sample ID: SP3 S. WALL 3' (H403154-10)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2014	ND	1.81	90.4	2.00	4.62	
Toluene*	<0.050	0.050	10/15/2014	ND	1.72	85.8	2.00	4.10	
Ethylbenzene*	<0.050	0.050	10/15/2014	ND	1.62	81.0	2.00	3.96	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.78	79.7	6.00	4.71	
Total BTEX	<0.300	0.300	10/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/15/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/15/2014	ND	170	85.1	200	2.28	
DRO >C10-C28	<10.0	10.0	10/15/2014	ND	172	86.1	200	2.02	
Surrogate: 1-Chlorooctane	92.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	100 9	% 52.1-170	6						

Cardinal Laboratories *=Accredited Analyte

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ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

 Received:
 10/14/2014
 Sampling Date:
 10/14/2014

 Reported:
 10/15/2014
 Sampling Type:
 Soil

Reported:10/15/2014Sampling Type:SoilProject Name:SRQU #60Sampling Condition:Cool & IntactProject Number:253-5377-000Sample Received By:Kathy Perez

Project Location: LEA COUNTY, NM

Sample ID: SP 3 N. WALL 3' (H403154-11)

BTEX 8021B	mg/	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2014	ND	1.81	90.4	2.00	4.62	
Toluene*	< 0.050	0.050	10/15/2014	ND	1.72	85.8	2.00	4.10	
Ethylbenzene*	< 0.050	0.050	10/15/2014	ND	1.62	81.0	2.00	3.96	
Total Xylenes*	<0.150	0.150	10/15/2014	ND	4.78	79.7	6.00	4.71	
Total BTEX	<0.300	0.300	10/15/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/15/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/15/2014	ND	170	85.1	200	2.28	
DRO >C10-C28	<10.0	10.0	10/15/2014	ND	172	86.1	200	2.02	
Surrogate: 1-Chlorooctane	94.8	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	104 9	% 52.1-17	6						

Surrogate: 1-Chlorooctadecane 104 % 52.1-176

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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 whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager: Kit Prichure		P.O. #: 28-5377-000	
Address:		Company: Line Energy	
City: State:	Zip:	Attn:	
Phone #: Fax #:		Address:	
Project #: 253 - 5377 - 000 Projec	Project Owner:	City:	
Project Name: SRQU#60		State: Zip:	
Project Location: Europe, NIM	7	Phone #:	
Sampler Name: Terry Oxform.	77	Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
Sample	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	CL. TPH BTEX
Spi Botton 6	\	V 10-15-25H	V < / /
2 Sp1 W. Wall 3"	~		
3 Sp1 S, wall 3!			
S SP2 Botton 6			
6 502 Simil 3			
JSP2 N. wall3'			
Bottom			
· 10 503 E. Wall 3			
PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether bashed in contract or tort, yfull by finged manayers. All claims including those for negligence and any other cause whatsoever shall be deemed whether these made in writing and received by Cardinal's renice in no sweet shall Cardinal in labils for included any other cause whatsoever shall be deemed whatsoever in the cause of the cause whatsoever shall be deemed whether which are deemed whether the cause of	Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, whall be regigations and any other cause whateover in that the desental variets unless made in writing and received by C. the for increased or consensional discovery in the contract variety of the contract va	tort, shall be invited to the amount paid by the client for the ceived by Cardinal within 30 days after completion of the applicable	
Relinquished By: Time: Time:	Received By:	Phone Result: Fax Result: REMARKS:	sult:
Relinquished By: Date:	Received By:	0	Rush!
Delivered By: (Circle One)	<u></u>	CHI	
Sampler - UPS - Bus - Other:	Cool Intact Yes Yes	(Inflials)	



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

company Name:	E-fect Env	BILL TO	ANALYSIS REQUEST
Project Manager:		P.O. #: 253-5377-000	
Address:		Company: Lina Energy	
City:	State:	Zip: Attn:	
Phone #:	Fax#:	Address:	
Project #: 253	Project #: 253-5377-000 Project Owner:	ner: City:	
Project Name:	SR QU #60	State: Zip:	
Project Location:	" Eurice NM	Phone #:	
Sampler Name:	Terry Osborn	Fax#:	
FOR LAB USE ONLY		MATRIX	X
Lab I.D. 403 154	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	CL TPH BTE
=	Sp3 N. wall 31	10-4-24	< <
	4		
LEASE NOTE: Liability an	Damanas Cardinale liability and cliantic avolution assessed.		
LEASE NOTE: Liability an nalyses. All claims includin strice In no event shall Ca	d Damages. Cardinal's liability and client's exclusive remedy of those for negligence and any other cause whatsoever shall githose for negligence and any other cause whatsoever shall githat be liable for incidental or consequental damages, inclu-	LEASE NOTE: Liability and Damages. Condition's liability and client's exclusive remedy for any claim arising whether based in contract or toot, and be limited to the amount paid by the client for the projects. All claims including those for negligence and any other cause whithoever shall be deterred watered unless made in writing and recogned by Chadinal which 30 days after competion of the applicable service. In no event shall Caudinal be leable for incidental or consequented indinger, including without inhallon, business interruptions, lose of time, or their or profess in course by religious.	or the the applicable takes

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

(1)

Sample Condition
Cool Intact
Yes 1 Yes
No 1 No

CHECKED BY:

Relinquished By:

Time S

Phone Result: Fax Result: REMARKS:

☐ Yes

O No

Add'l Phone #: Add'l Fax #:

Rush!

Time:

Relinquished By:



September 09, 2014

KIT PRICHARD

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: SRQU #60

Enclosed are the results of analyses for samples received by the laboratory on 09/08/14 16:30.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 09/08/2014

Reported: 09/09/2014
Project Name: SRQU #60
Project Number: 253-5377-000
Project Location: LEA COUNTY, NM

Sampling Date: 09/08/2014

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 4' (H402785-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2014	ND	1.89	94.7	2.00	8.34	
Toluene*	<0.050	0.050	09/09/2014	ND	1.70	85.0	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/09/2014	ND	1.57	78.4	2.00	8.62	
Total Xylenes*	<0.150	0.150	09/09/2014	ND	4.86	81.0	6.00	7.43	
Total BTEX	<0.300	0.300	09/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/09/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2014	ND	168	84.0	200	4.11	
DRO >C10-C28	35.1	10.0	09/09/2014	ND	186	92.9	200	2.47	
Surrogate: 1-Chlorooctane	86.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.0	% 63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

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ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 09/08/2014 Sampling Date: 09/08/2014

Reported: 09/09/2014 Sampling Type: Soil

Project Name: SRQU #60 Sampling Condition: Cool & Intact
Project Number: 253-5377-000 Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: SP 2 12' (H402785-02)

mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	09/09/2014	ND	1.89	94.7	2.00	8.34	
<0.050	0.050	09/09/2014	ND	1.70	85.0	2.00	8.25	
<0.050	0.050	09/09/2014	ND	1.57	78.4	2.00	8.62	
<0.150	0.150	09/09/2014	ND	4.86	81.0	6.00	7.43	
<0.300	0.300	09/09/2014	ND					
104 %	6 89.4-12	6						
mg/	kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
400	16.0	09/09/2014	ND	416	104	400	0.00	
mg/	kg	Analyze	d By: ms					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<50.0	50.0	09/09/2014	ND	168	84.0	200	4.11	
258	50.0	09/09/2014	ND	186	92.9	200	2.47	
_	Result <0.050 <0.050 <0.050 <0.150 <0.300 104 % mg/l Result 400 mg/l	Result Reporting Limit <0.050	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD < 0.050

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 09/08/2014 Sampling Date: 09/08/2014

Reported: 09/09/2014 Sampling Type: Soil

Project Name: SRQU #60 Sampling Condition: Cool & Intact Sample Received By: Project Number: 253-5377-000 Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: SP 3 18' (H402785-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2014	ND	1.89	94.7	2.00	8.34	
Toluene*	<0.050	0.050	09/09/2014	ND	1.70	85.0	2.00	8.25	
Ethylbenzene*	<0.050	0.050	09/09/2014	ND	1.57	78.4	2.00	8.62	
Total Xylenes*	<0.150	0.150	09/09/2014	ND	4.86	81.0	6.00	7.43	
Total BTEX	<0.300	0.300	09/09/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/09/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2014	ND	168	84.0	200	4.11	
DRO >C10-C28	10.0	10.0	09/09/2014	ND	186	92.9	200	2.47	
Surrogate: 1-Chlorooctane	93.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	101 9	% 63.6-15	4						

Surrogate: 1-Chlorooctadecane

Cardinal Laboratories *=Accredited Analyte

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (675) 393-2326 FAX (575) 393-2476

(0/0) 020-2020 1 77 (0/0)	2011	ANALYSIS REQUEST
Company Name: Elech	BIL	
	1.0	
	Company: Lina Energy	
City: State:	Zip: Attn:	
Phone #: Fax #:	Address:	
Project #: 2 53 - 5377 - 000 Project Owner:	Owner: City:	
3	State: Zip:	
1 2a co	Phone #:	
Terry	Fax #:	2 5
	MATRIX PRESERV. SAMPLING	
Lab I.D. Sample I.D.		Chlare TPh BTE
1 60) 4,	V 9-8-17 12:00	
	_ <	20
3 Sp3 18	V V V V V V V V V V V V V V V V V V V	
	the state of the same and the same of the state of	client for the
	The state of the s	Public on the

494

Sample Condition
Cool Intact
Ves Ves

Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished By:

Relinquished By:

Date: 8-14 Time: Date: Time:

Phone Result: Fax Result: REMARKS:

☐ Yes

□ No

Add'l Phone #: Add'l Fax #:

Rushli

completion of the applicable

30

Received By:

analyses. All claims including those for neg service. In no event shall Cardinal be liable

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

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

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

Release Notification and Corrective Action

Form C-141

Revised October 10, 2003

			(OPERAT	OR							
Name of Con						Contact: Brian Wall						
Address: 213						Telephone No.: 575-738-1739						
Facility Name	e: Seven	Rivers Quee	n Unit#	50		Facility Typ	e: Oil Producer					
Surface Owne	er: Privat	e		Mineral O	wner:	:: API No.: 30-025-28122						
			ΓΙΟΝ	OF REL	EASE							
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/V	Vest Line	County		
L	34	22S	36E	2605		South	1280	7	West		Lea	
Latitude: 32.3482077157592 Longitude: -103.257434938142												
NATURE OF RELEASE												
Type of Releas							Release: 15 bbls			Recovered:		
Source of Rele	ease: 2 7/8	Steel pipeline	;			08/04/2014		e:		Hour of Di 4 2:45pm		
Was Immediate	e Notice G		Yes	No Not Re	equired	If YES, To Jeff Robert	Whom? son-BLM / Toma	as Ober	ding- NM (OCD		
By Whom? Bri	ian Wall					Date and H	Iour 08/06/2014 (0700				
Was a Waterco		hed?	Yes 🛛	No		If YES, Vo	olume Impacting the	he Wate	ercourse.			
If a Watercours	se was Imt	pacted. Descri										
		, ,										
	Describe Cause of Problem and Remedial Action Taken.*: Old 2 7/8 steel flow line has a pinn hole could not see leak from well. Leak is in sanddunes. Airplane passing by spotted leak.											
Describe Area Affected and Cleanup Action Taken.*: Directions to site: Go south on 207 for one mile turn left onto delaware basin road go six miles then turn left onto pipeline rightway for 3 and a half miles then turn right the go a 1/4 of a mile to well 60 then go north 600 ft.									or 3 and a half miles			
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.								h may endanger erator of liability vater, human health				
	nh.	//		OIL CONSERVATION DIVISION								
Signature:	2/28 2	1				Approved by	District Supervise	or:				
Printed Name:	Brian Wa	11				Approved by District Supervisor:						
Title: Construc	ction Foren	nan II				Approval Dat	e:		Expiration 1	Date:		
E-mail Address Date: 08/06/20			m hone: 806-	367-0645		Conditions of					d 🗌	

^{*} Attach Additional Sheets If Necessary

1897 CR 1018 Muleshoe, TX 79347

(800) 262-9892

Permit # TX00905

Bunks - BLM #3 150 #

Description		Pure Seed	Germ	Dormant	Hard Seed	Origin
Bristlegrass Plains, "	VNS" (Setaria vulpiseta)	10.08%	87.00%	1.00%	0.00%	TX
Grama, Sideoats "El curtipendula)	,	56.16%	94.00%	0.00%	0.00%	TX
Green Sprangletop, dubia)	24.93%	93.00%	0.00%	0.00%	TX	
Purity: 91.16%	Inert Matter: 8.58%	Other Cro	op Seed: 0	Weed Seed: 0.01%		

1897 CR 1018 Muleshoe, TX 79347

(800) 262-9892

Permit # TX00905

Bunks - BLM #3 150 #

Description		Pure Seed	Germ	Dormant	Hard Seed	Origin
Bristlegrass Plains, "	VNS" (Setaria vulpiseta)	10.08%	87.00%	1.00%	0.00%	TX
Grama, Sideoats "El curtipendula)	,	56.16%	94.00%	0.00%	0.00%	TX
Green Sprangletop, dubia)	24.93%	93.00%	0.00%	0.00%	TX	
Purity: 91.16%	Inert Matter: 8.58%	Other Cro	op Seed: 0	Weed Seed: 0.01%		

1897 CR 1018 Muleshoe, TX 79347

(800) 262-9892

Permit # TX00905

Bunks - BLM #3 150 #

Description		Pure Seed	Germ	Dormant	Hard Seed	Origin
Bristlegrass Plains, "	VNS" (Setaria vulpiseta)	10.08%	87.00%	1.00%	0.00%	TX
Grama, Sideoats "El curtipendula)	,	56.16%	94.00%	0.00%	0.00%	TX
Green Sprangletop, dubia)	24.93%	93.00%	0.00%	0.00%	TX	
Purity: 91.16%	Inert Matter: 8.58%	Other Cro	op Seed: 0	Weed Seed: 0.01%		

1897 CR 1018 Muleshoe, TX 79347

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Green Sprangletop, 'dubia)	24.93%	93.00%	0.00%	0.00%	TX	
Purity: 91.16%	Inert Matter: 8.58%	Other Cro	op Seed: 0	.24%	Weed Se	ed: 0.01%

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

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

Submit 1 Copy to appropriate District Office in accordance with 19,15,29 NMAC

Form C-141

Revised August 8, 2011

Release Notification and Corrective Action

						OPERA.	TOR	Init	ial Report	\bowtie	Final Report		
Name of Co	mpany: Ll	INN Energy			(Contact: Bri	an Wall						
Address; 21	30 W Ben	der Blvd H	lobbs, N	M	Т	elephone N	No.: 575-942-86	75					
Facility Nar	ne: 7 Rive	rs Queen Un	it 60				e: Oil producer						
Surface Ow	ner: Privat	e		Mineral C	Owner: P	rivate		APIN	o.: 30-025-2	28122			
				LOCA	ATION	OF REI	LEASE						
Unit Letter L	Section 34	Township 22S	Range 36E	Feet from the 2605	North/S	South Line outh	Feet from the 1280	East/West Line West	County	Lea)		
			Latit	ude: 32.348207				938142	1				
Type of Rele	ase: Produc	ed Water / Oi		NAT	UKE	Volume of	Release; 15bbls /	Volume	Recovered: 0	0/0			
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Steel flowline				Date and H 08/04/14	our of Occurrence	nce: Date and Hour of Discovery: 08/04/14 - 1425					
Was Immedia	ate Notice C		Yes [No Not Re	equired	If YES, To Jeff Robert		nas Oberding - NN	MOCD				
By Whom? B						Date and H	our: 08/06/14 - 0	700					
Was a Water	course Reac			370		If YES, Vo	lume Impacting t	he Watercourse.					
			Yes 🛛	No									
in the sand du	ines. An air	plane passing	by spotted	d the leak,									
exc safe ext exc	avation still ety concerns ent of the in avation (gy	has elevated s. Two (2) so apact. SP2 40 psum) then be	levels of o ils borings) mg/kg a ickfilled w	chlorides ranging via hand auger w t 12', SP3 272 mg rith clean compac	from 180 vere advan g/kg at 18 sted mater	0 to 5040 m nced within '. An OCD a ial to within	g/kg. The presenthe bottom of the pproved calcium 1.5 – 2 feet of su	uled to Lealand for ce of lines restric excavation to atte amendment was in face then the bac oproved BLM mix	ted further ex mpt to deline nstalled to the kfill was con	cavation the	on due to vertical m of the		
regulations al public health should their o	I operators or the envir operations had ment. In a	are required to conment. The ave failed to a ddition, NMO	report an acceptance dequately CD accep	d/or file certain r e of a C-141 report investigate and re	elease not ort by the emediate	tifications ar NMOCD ma contamination	nd perform correct arked as "Final Room that pose a three	nderstand that pur tive actions for re eport" does not re eat to ground water responsibility for o	leases which lieve the oper or, surface wa	may en ator of ter, hu	idanger Tiability man health		
Signatare.	7	2	1	/		OIL CONSERVATION DIVISION							
Printed Name	EL Gonza	iles			A	pproved by	District Supervise	or:					
Title: Product	ion Supervi	isor			A	pproval Dat	e:	Expiration	Date:				
E-mail Addre Date: 11/17/1				504-8002	C	onditions of	Approval:		Attached				
		ts If Necessa		201.0002						_			