

## Remediation Summary Report Form

### General Information

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

Date: October 17, 2012

Client: LINN Energy

Site Name: JL Keel B 30

County: Eddy

State: NM

Site Coordinates Latitude: N32.8551587°  
Longitude: W103.905249°

Property Owner: BLM

State Report No.: NU12008TG (BLM)

### Release Description and Assessment

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

Date of Spill: 10/21/11

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

Cause of Spill:  Equipment Failure  Valve Failure  Line Rupture  Leaking Tank  Tank Overfill  
 Other (List):

Other Contributing Factors or Comments:

Quantity Spilled: 72 bbls. Quantity Recovered: 10 bbls. Total Released: 62 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): Road

Total Square Footage Impacted: 8400 Estimated Depth: 1-5' Volume (Cu. Yds): 312

Other Comments:

### 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. In the bottom of the excavation a calcium amendment (gypsum) was added where the excavation had 2 points of elevated chloride levels ranging from 2760 mg/kg to 3000 mg/kg to ensure that any residual chlorides will not migrate and cause any adverse impact to the reclamation of the site.

Impacted soils were transported off-site for disposal at Lea Land Landfill. Once the impacted soils were removed to acceptable levels, the pasture and the road areas were backfilled with like materials and smoothed to grade. The pasture area was seeded with a BLM #2 & #4 mix. Water bars were installed to prevent wind and water erosion.

**Analytical Summary**

Results of analyses following remediation activities are as follows:

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
SP1 Bottom	6	3/22/12				2760
SP1 North Wall	3	3/22/12				16
SP1 South Wall	3	3/22/12				96
SP2 Bottom	5	3/22/12				32
SP2 North Wall	3	3/22/12				272
SP2 South Wall	3	3/22/12				16
SP3 Bottom	6	3/22/12				3000
SP3 North Wall	2.5	3/22/12				16
SP3 South Wall	3	3/22/12				176
SP4 Bottom	4	3/22/12				128
SP4 North Wall	2	3/22/12				96
SP5 Bottom	6	3/22/12				704
SP5 East Wall	2	3/22/12				688
SP5 West Wall	2	3/22/12				80

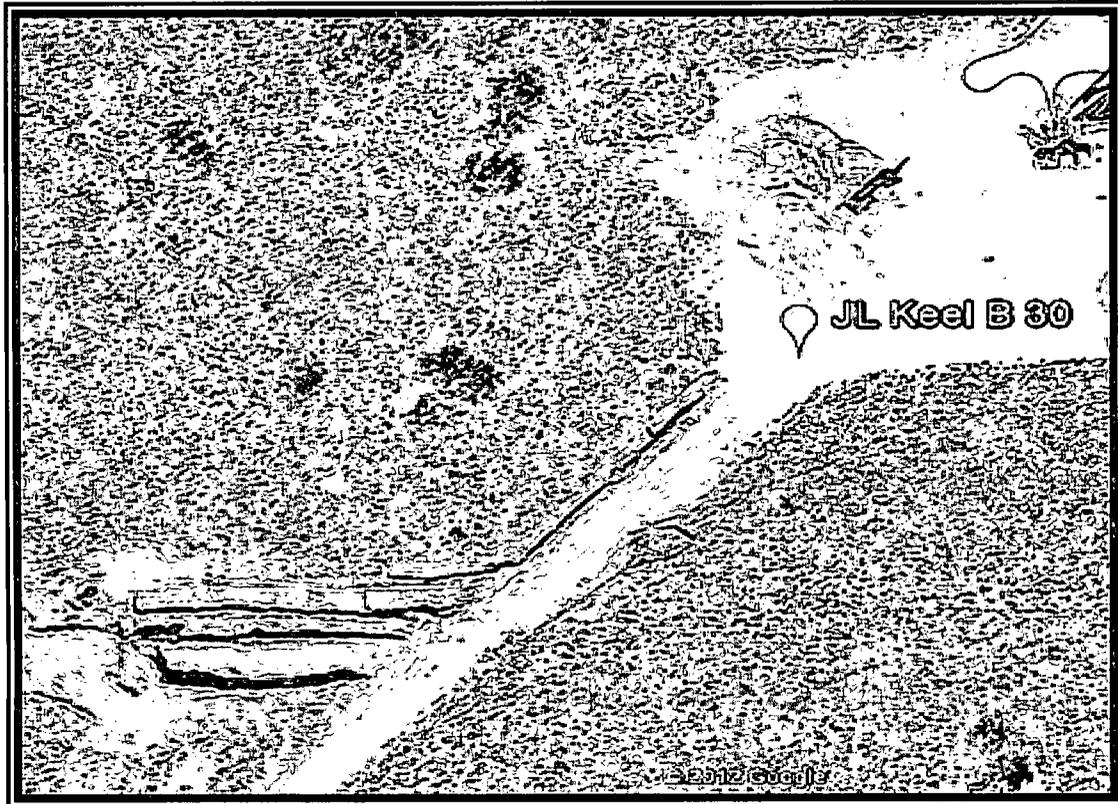
\* ND = Non-Detect; concentration below mg/kg.

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.

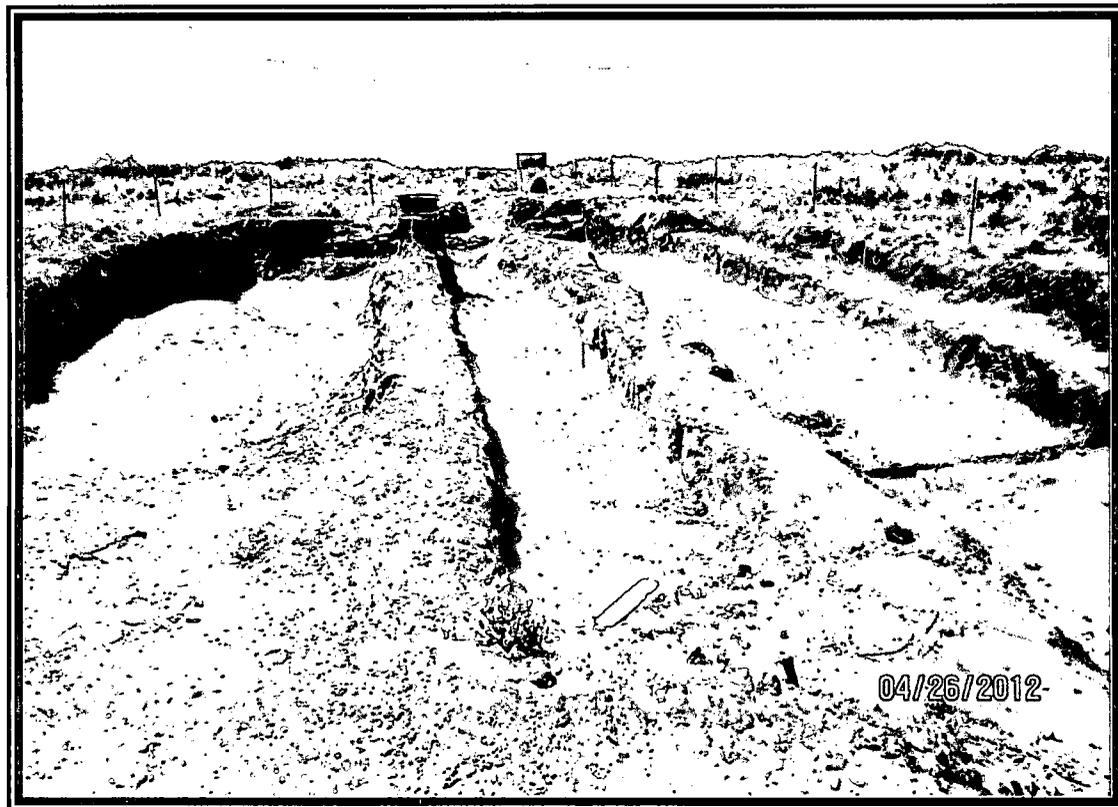
Prepared by:



*Kit Prichard*  
Etech Environmental & Safety Solutions, Inc.



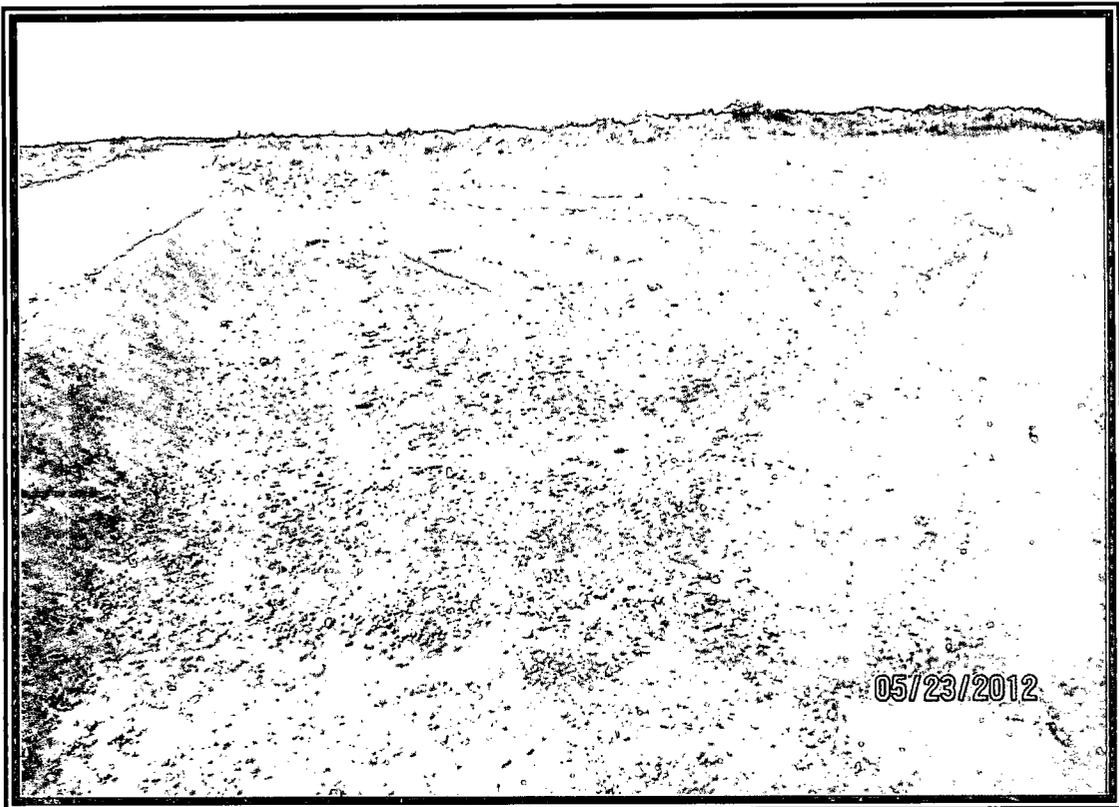
Aerial view of excavation.



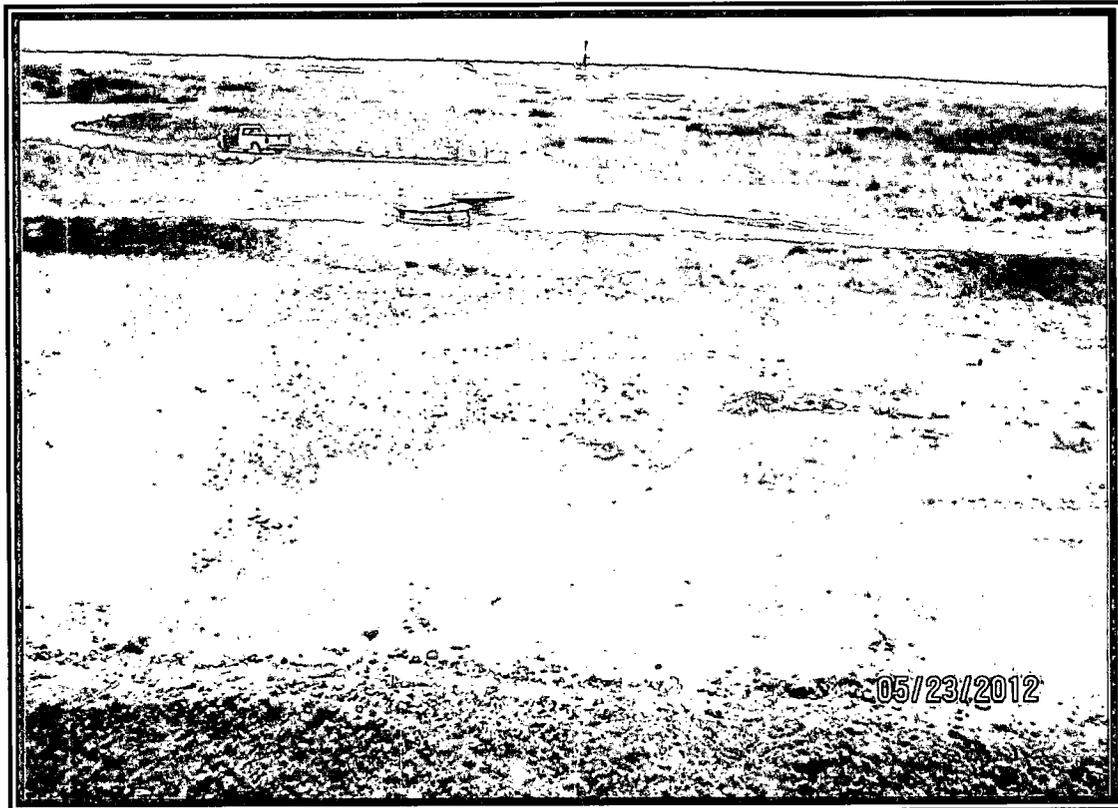
View of the excavation during remediation looking West.



View of excavation looking North.



View of backfilled excavation and water bars looking South.



View of backfilled excavation and water bars looking East.



Backfilled excavation and water bars looking North East.



March 22, 2012

FRED HOLMES

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: J. L. KEEL B A #30

Enclosed are the results of analyses for samples received by the laboratory on 03/20/12 16:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, prominent initial "C".

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:	03/20/2012	Sampling Date:	03/20/2012
Reported:	03/22/2012	Sampling Type:	Soil
Project Name:	J. L. KEEL B A #30	Sampling Condition:	** (See Notes)
Project Number:	253-3121-000	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 1 BOTTOM 6' (H200689-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2760	16.0	03/21/2012	ND	384	96.0	400	4.08		

**Sample ID: SP 1 N WALL 3' (H200689-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/21/2012	ND	384	96.0	400	4.08		

**Sample ID: SP 1 S WALL 3' (H200689-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/21/2012	ND	384	96.0	400	4.08		

**Sample ID: SP 2 BOTTOM 5' (H200689-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/21/2012	ND	384	96.0	400	4.08		

Cardinal Laboratories

\* = Accredited Analyte

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Celest 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: 03/20/2012  
 Reported: 03/22/2012  
 Project Name: J. L. KEEL B A #30  
 Project Number: 253-3121-000  
 Project Location: LOCO HILLS, NM

 Sampling Date: 03/20/2012  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 NORTH WALL 3' (H200689-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	03/21/2012	ND	384	96.0	400	4.08		

**Sample ID: SP 2 S WALL 3' (H200689-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/21/2012	ND	384	96.0	400	4.08		

**Sample ID: SP 3 BOTTOM 6' (H200689-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3000	16.0	03/21/2012	ND	384	96.0	400	4.08		

**Sample ID: SP 3 N WALL 2.5 (H200689-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/21/2012	ND	384	96.0	400	4.08		

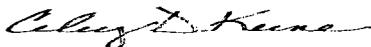
**Sample ID: SP 3 S WALL 3' (H200689-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/21/2012	ND	384	96.0	400	4.08		

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Celestine 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: 03/20/2012  
 Reported: 03/22/2012  
 Project Name: J. L. KEEL B A #30  
 Project Number: 253-3121-000  
 Project Location: LOCO HILLS, NM

 Sampling Date: 03/20/2012  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 BOTTOM 4' (H200689-10)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/21/2012	ND	384	96.0	400	4.08	

**Sample ID: SP 4 W WALL 2' (H200689-11)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/21/2012	ND	384	96.0	400	4.08	

**Sample ID: SP 5 BOTTOM 6' (H200689-12)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	03/21/2012	ND	384	96.0	400	4.08	

**Sample ID: SP 5 E WALL 2' (H200689-13)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	03/21/2012	ND	384	96.0	400	4.08	

**Sample ID: SP 5 W WALL 2' (H200689-14)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/21/2012	ND	384	96.0	400	4.08	

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

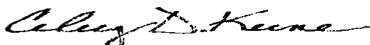
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported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

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\*=Accredited Analyte

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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>Etech</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																					
Project Manager: <u>Fred Holmes</u>		P.O. #: <u>253-3121-000</u>																							
Address:		Company:																							
City: State: Zip:		Attn:																							
Phone #: Fax #:		Address:																							
Project #: <u>253-3121-000</u> Project Owner:		City:																							
Project Name: <u>JLKawBA # 30</u>		State: Zip:																							
Project Location: <u>Loco Hills</u>		Phone #:																							
Sampler Name: <u>Stephen McJohn</u>		Fax #:																							
FOR LAB USE ONLY																									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS													MATRIX				PRESERV.		SAMPLING		Clarvalin	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER:	DATE	TIME											
<u>H200689</u>													<u>3-20-12</u>	<u>11:00</u>											
<u>1</u>	<u>SP1 Bottom 6'</u>																								
<u>2</u>	<u>SP1 N Wall 3'</u>																								
<u>3</u>	<u>SP1 S Wall 3'</u>																								
<u>4</u>	<u>SP2 Bottom 5'</u>																								
<u>5</u>	<u>SP2 N Wall 3'</u>																								
<u>6</u>	<u>SP2 S Wall 3'</u>																								
<u>7</u>	<u>SP3 Bottom 6'</u>																								
<u>8</u>	<u>SP3 N Wall 2.5'</u>																								
<u>9</u>	<u>SP3 S Wall 3'</u>																								
<u>10</u>	<u>SP4 Bottom 4'</u>																								

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Relinquished By:	Date: <u>3-20-12</u>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<u>Stephen McJohn</u>	Time: <u>4:20</u>	<u>Jodi Hanson</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other: <u>200</u>	Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(Initials) <u>JH</u>		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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

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

Company Name: <u>Etech</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																																
Project Manager: <u>Fred Holmes</u>		P.O. #: <u>253-3121-000</u>																																		
Address:		Company:																																		
City: State: Zip:		Attn:																																		
Phone #: Fax #:		Address:																																		
Project #: <u>253-3121-000</u> Project Owner:		City:																																		
Project Name: <u>at Jh Keel BA # 30</u>		State: Zip:																																		
Project Location: <u>Loco Hills</u>		Phone #:																																		
Sampler Name: <u>Stephen McShan</u>		Fax #:																																		
FOR LAB USE ONLY												<i>Chronicles</i>																								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING																										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL													OTHER	DATE	TIME										
<u>H2001689</u>																																				

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Relinquished By: <u>Stephen McShan</u>	Date: <u>3-20-12</u> Time: <u>4:20 am</u>	Received By: <u>Jodi Menson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	CHECKED BY: <u>JH</u> (Initials)	
REMARKS:				

#26

Etech Env.

Project JL Keel B 30

Project No. 259-3121-000

Date Started 6-13-12

Date Finished 6-13-12

### Bamert Seed Company

1897 CR 1018  
806-272-5506

Muleshoe, TX 79347  
Texas Permit# 00905

Description	BLM #2 MIX		16 BAGS		43152		Origin
	Pure Seed	Germ	Dormant				
VNS PLAINS BRISTLEGRASS ( <i>Setaria vulpiscia</i> )	49.36%	4.00%	84.00%				TX
BEND SAND LOWGRASS ( <i>Eragrostis trichodes</i> )	24.97%	89.00%	0.00%				TX
SAND DROPSEED VNS ( <i>Sporobolus cryptandrus</i> )	24.63%	5.00%	88.00%				
Purity: 98.96%	Inert Matter: 0.63%	Other Crop Seed: 0.37%	Weed Seed: 0.02%				

Noxious Weeds: None

Test Date: 02-2012

Net Wt: 25#

BLM #4	Kind:	% Germ
% Pure Seed		
74.40%	4 Wing Saltbush	67%
7.63%	Alkali Sacaton	89%

Test Date: 3/12  
 Purity: 82.04%  
 Inert: 17.92%  
 Other Crop: 0.01%  
 Weed: 0.03%  
 Noxious: None

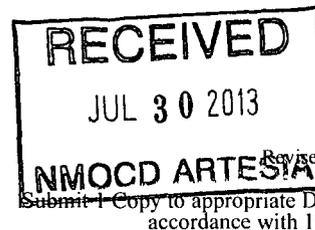
REICHARDSON SEEDS, LTD.  
 VEGA, TX 79622

Supervisor \_\_\_\_\_

Stephen Mc Don

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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505



Form C-141  
Revised August 8, 2011

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company: LINN Energy	Contact: Joe Hernandez
Address: 2130 W Bender Blvd. - Hobbs, NM	Telephone No.: 575-942-8675
Facility Name: JL Keel B 30	Facility Type: Gas Central Tank Battery
Surface Owner: BLM	Mineral Owner: BLM
API No.: 3001521460	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	6	17S	31E	430	S	2250	E	Eddy

Latitude: 32.85744 Longitude: -103.90592

**NATURE OF RELEASE**

Type of Release: Produced Water	Volume of Release: 72	Volume Recovered: 10
Source of Release: Pipeline	Date and Hour of Occurrence: 10/21/2011 - 0500	Date and Hour of Discovery: 10/21/2011 - 0530
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher - OCD, Terry Gregston - BLM	
By Whom? Joe Hernandez	Date and Hour: 10/21/2011	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*:

Describe Cause of Problem and Remedial Action Taken.\*:

Injection plant lost pressure on line and shut down. Alarm system called and went out to plant. Arrived and shut in line and started looking for leak. Leak was located at a field valve and was on main trunk line. All wells on line were shut in and vacuum truck was called to pick up spill.

Describe Area Affected and Cleanup Action Taken.\* : impacted area was approx. 8400sqft of road and pasture.

Impacted soils above regulatory threshold levels were manually and mechanically excavated from the spill area. In the bottom of the excavation a calcium amendment (gypsum) was added where the excavation had 2 points of elevated chloride levels ranging from 2760 mg/kg to 3000 mg/kg to ensure that any residual chlorides will not migrate and cause any adverse impact to the reclamation of the site.

Impacted soils were transported off-site for disposal at Lea Land Landfill. Once the impacted soils were removed to acceptable levels, the pasture and the road areas were backfilled with like materials and smoothed to grade. The pasture area was seeded with a BLM #2 & #4 mix. Water bars were installed to prevent wind and water erosion.

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:	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Jose Hernandez	Approved by District Supervisor:		
Title: Foreman	Approval Date:	Expiration Date:	
E-mail Address: jhernandez@linneenergy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date:	Phone: 575-738-1739		

\* Attach Additional Sheets If Necessary