

LINN ENERGY

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

Max Friess & Fren Supply Line

2RP-2033

CAP Report & Termination Request

API No. 3001505284

Release Date: May 20th, 2013

Unit Letter L, Section 20, Township 17S, Range 31E

Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241

Phone 575.393.2967

March 7th, 2014

Mike Bratcher

New Mexico Energy, Minerals, & Natural Resources

Oil Conservation Division, Environmental Bureau – District 2

811 S. First St.

Artesia, NM 88210

**RE: Corrective Action Plan Report & Termination Request
Linn Energy – Max Friess & Fren Supply Line (2RP-2033)
UL/L sec. 20 T17S R31E
API No. 3001505284**

Mr. Bratcher:

Linn Energy (Linn) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 4.8 miles east of Loco Hills, New Mexico at UL/L sec. 20 T17S R31E. This site is in an area of no known groundwater.

On May 20th, 2013, Linn discovered a break in a supply line, which released 20 barrels of produced water. None of this fluid was recovered. The release affected 3,621 square feet of pasture land and a remediated, abandoned well site. An initial C-141 was sent to BLM and NMOCD and NMOCD approved the initial C-141 on October 31st, 2013 (Appendix A).

RECS received this site after another company began remediation efforts. The previous company took surface samples from 5 points within the release (Figure 1). At SP-2, a soil bore was installed on August 9th, 2013 to a depth of 40 ft bgs. Representative samples from these sampling events were taken to a commercial laboratory for analysis. SP-1, SP-2 and SP-3 returned elevated chloride values with depth but returned Gasoline Range Organics (GRO), Diesel Range Organics (DRO) and BTEX readings of non-detect. SP-4 returned laboratory chloride levels, GRO, DRO and BTEX below regulatory standards at the surface and at 1 ft bgs. SB-5 returned an elevated chloride level at the surface that dropped to non-detect at 1 ft bgs. GRO, DRO and BTEX readings at the surface and at 1 ft bgs were non-detect.

A Corrective Action Plan (CAP) was submitted to NMOCD and BLM on December 5th, 2013. BLM and NMOCD approved the CAP the same day. Based on the sampling conducted by the other environmental company, RECS recommended that the area around SP-1, SP-2 and SP-3 be excavated to 4 ft bgs. The excavated material would be disposed of at a NMOCD approved facility. At 4 ft bgs, grab samples would be taken

along the excavation walls and sent to a commercial laboratory to confirm that chloride readings were below 1,000 mg/kg. At 4 ft bgs, a 20-mil reinforced poly liner would be installed and properly seated into the base of the excavation. The excavation would then be backfilled with clean, imported soil and contoured to the surrounding location (Figure 2).

The area around SP-4 and SP-5 would be scraped down 6 inches. The scraped material would be sent to a NMOCD approved facility for disposal. Clean soil would be imported to the site to backfill the scrape and contour it to the surrounding location.

Once the excavation and scrape were completed, soil amendments would be added as needed and the site would be seeded with a blend of native vegetation. Vegetation provides an infiltration barrier for the site, since plants capture water through their roots thereby reducing the amount of water traveling through the vadose zone to groundwater.

Corrective Action Plan Report

CAP activities began on December 31st, 2013. The area around SP-1, SP-2 and SP-3 was excavated to 4 ft bgs. Wall samples were taken from the excavation and sent to commercial laboratory for analysis (Appendix B). All wall samples returned laboratory chloride readings below 1,000 mg/kg and GRO, DRO and BTEX readings of non-detect. At 4 ft bgs a 20-mil reinforced poly liner was installed and properly seated at the base of the excavation.

The area around SP-4 and SP-5 was scraped down 6 inches (Figure 3). A total of 424 yards of contaminated soil was taken to a NMOCD approved facility for disposal. A total of 580 yards of top soil was imported to the site to serve as backfill. The excavation and scrape were backfilled with the clean, imported soil and contoured to the surrounding location. A sample of the imported top soil was submitted to a commercial laboratory for analysis, returning a chloride concentration below of non-detect (Appendix C). On February 5th, 2014, soil amendments were added to the site and the site was seeded with a BLM mix of #2 and #4.

Photo documentation for these activities can be found in Appendix D.

Given that the contaminated soil was removed from the site and replaced with clean, imported soil, Linn respectfully requests 'remediation termination' and site closure. A final C-141 for the site can be found in Appendix E.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'L.W.', with a long, sweeping horizontal line extending to the right.

Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

cc. Mike Burton, BLM

Attachments:

- Figure 1 – Vertical Sampling Data
- Figure 2 – Excavation Data
- Appendix A – Initial C-141
- Appendix B – Final Wall Sampling Labs
- Appendix C – Imported Soil Lab
- Appendix D – Photo Documentation
- Appendix E – Final C-141

Figures

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

Initial Sampling Data

SP-1

Depth	Lab CI-	GRO	DRO	Total BTEX
Surface	17800	<10	<10	<0.3
8'	1150	<10	<10	<0.3

SP-2

Depth	Lab CI-	GRO	DRO	Total BTEX
Surface	240	<10	<10	<0.3
20'	1250	<10	<10	<0.3
40'	144	<10	<10	<0.3

SP-3

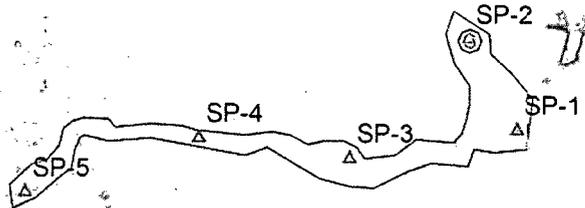
Depth	CI-	Lab CI-	GRO	DRO	Total BTEX
Surface		18400	<10	<10	<0.3
3'		1255			
4'		950			
5'		675			
6'		675			
7'		450			
8'		377			
9'		375			

SP-4

Depth	Lab CI-	GRO	DRO	Total BTEX
Surface	48	<10	<10	<0.3
1'	<16	<10	<10	<0.3

SP-5

Depth	Lab CI-	GRO	DRO	Total BTEX
Surface	24200	<10	<10	<0.3
1'	<16	<10	<10	<0.3



Legend

- △ SAMPLE POINTS
- ⊙ SOIL BORE
- STAIN (3,621 sq ft)
- EDDY COUNTY ROADS

Landowner: BLM
 DGW: None

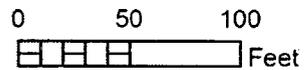
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



LINN MAX FRIESS & FREN SUPPLY LINE (2RP-2033)

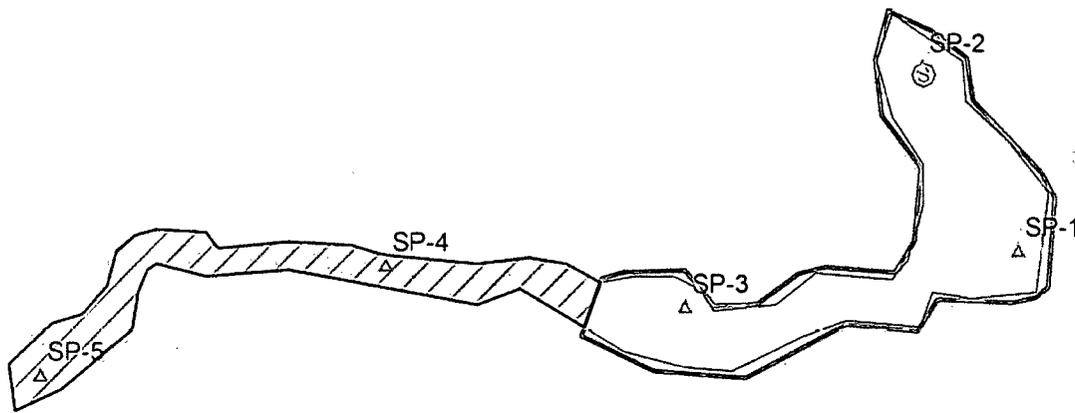
LEGALS: UL/L sec. 20
 T-17-S R-31-E
 EDDY COUNTY, NM

Figure 1



GPS date: 9/10/13
 Drawing date: 9/19/13
 Drafted by: L. Weinheimer

NMOCD and BLM Approved Liner and Scrape



Legend

- △ SAMPLE POINTS
- ⊗ SOIL BORE
- ▭ PROPOSED 20-MIL POLY LINER AT 4 FT BGS
- ▨ SCRAPE DOWN 6 IN
- STAIN (3,621 sq ft)

Landowner: BLM
DGW: None

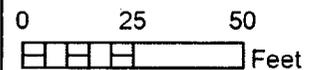
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Imapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



LINN MAX FRIESS & FREN SUPPLY LINE (2RP-2033)

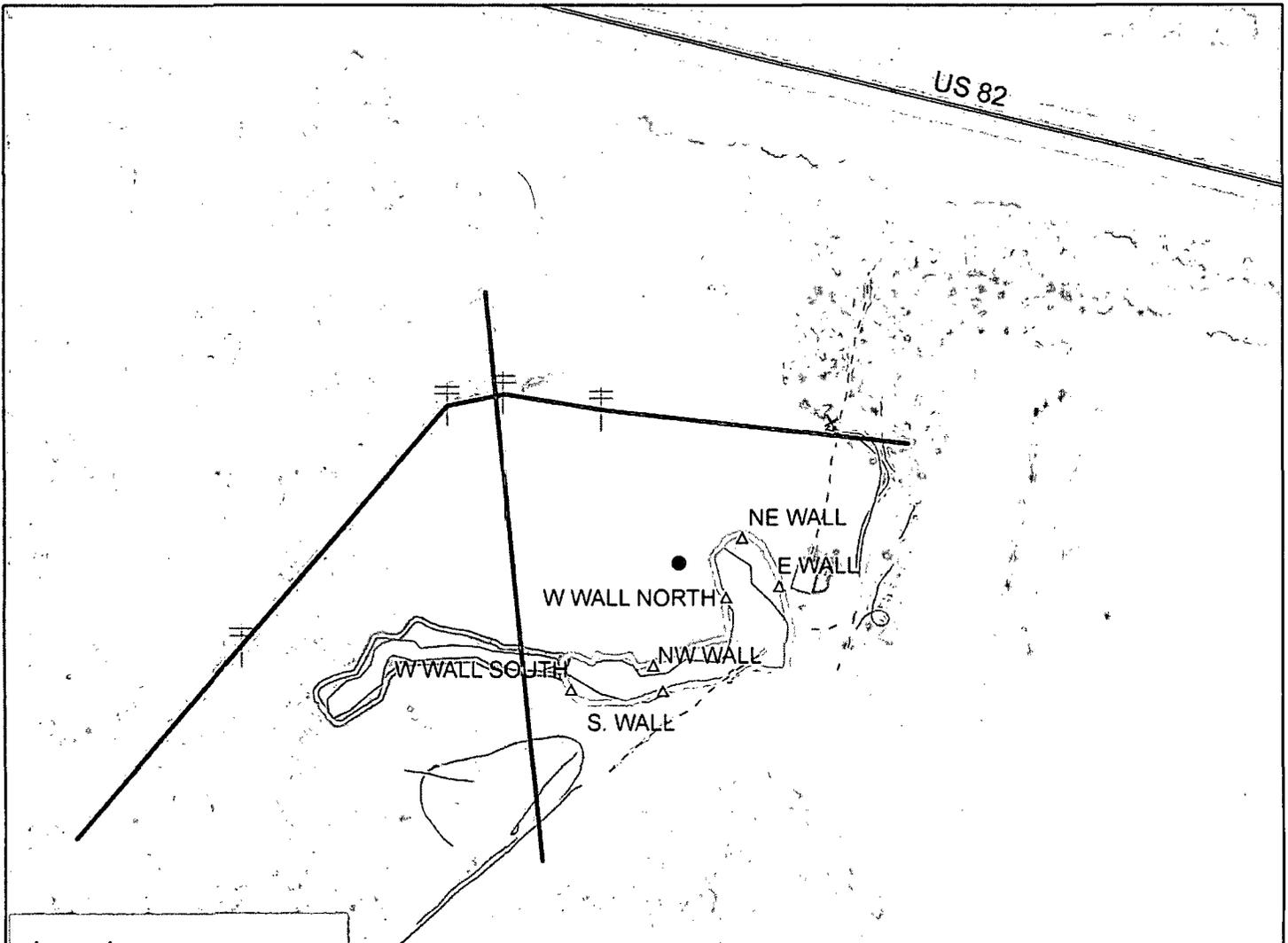
LEGALS: UL/L sec. 20
T-17-S R-31-E
EDDY COUNTY, NM

Figure 2



GPS date: 9/10/13
Drawing date: 9/19/13
Drafted by: L. Weinheimer

Excavation Data



Legend

- △ FINAL SAMPLE POINTS
- ⊥ ELECTRIC POLE
- WELLHEAD
- X — FENCE
- BURIED PIPELINE
- OVERHEAD ELECTRICAL LINE
- SURFACE PIPELINE
- 4' EXCAVATION
- 6" SCRAPE
- BUILDING
- STAIN (3,621 sq ft)
- HIGHWAY

Wall Samples	CI-	PID	GRO	DRO	B	T	E	X	BTEX
NORTH EAST WALL	288	0.1	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
EAST WALL	928	0.9	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
WEST WALL NORTH	368	0.1	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
WEST WALL SOUTH	208	0.2	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
NORTH WEST WALL	64	0.3	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
SOUTH WALL	272	0.1	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

Imported Soil
CL-
<16.0

Landowner: BLM
DGW: None

CI- FIELD DATA

CI- LAB DATA

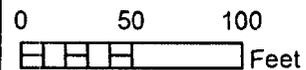
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



LINN MAX FRIESS & FREN SUPPLY LINE (2RP-2033)

LEGALS: UL/L sec. 20
T-17-S R-31-E
EDDY COUNTY, NM

Figure 3



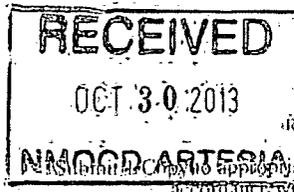
GPS date: 1/9/14, 1/10/14 JB
Drawing date: 1/14/14
Drafted by: T. Grieco

Appendix A
Initial C-141

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

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

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



Form C-141
Revised August 8, 2011
Submit a Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

NJM 133043 9030 OPERATOR Initial Report Final Report

Name of Company: Linn Energy 269324	Contact: Brian Wall
Address: 2130 W. Bender Blvd., Hobbs, NM 88240	Telephone No.: (806) 367-0645
Facility Name: Max Pries and Fren Supply Line	Facility Type: Supply Line
Surface Owner: BLM	Mineral Owner: _____ API No.: 3001505284

LOCATION OF RELEASE

TURNER B#12

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	20	17S	31E	618	E	701	FWL	Eddy

Latitude: 32°49'2.178"N Longitude: 103°53'53.514"W

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 716 bbls	Volume Recovered: 0 bbls
Source of Release: Supply Line	Date and Hour of Occurrence: 5/20/13	Date and Hour of Discovery: 5/20/13
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
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:
A break in the supply line lead to a release of 20 bbls of produced water, which covered 3,621 sq ft of pasture land. The site was sampled in 5 places throughout the release and representative samples were taken to a commercial laboratory for analysis. A soil bore was installed at the site on August 9th, 2013. The soil bore showed elevated chloride levels at 20 ft bgs, which decreased to below 250 mg/kg at 40 ft bgs.

Describe Area Affected and Cleanup Action Taken:
A Corrective Action Plan will be developed to remediate the area based on initial sampling data.

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 Environmental Specialist: Signed By: <i>Mike Demaria</i>	
Title: Construction Foreman	Approval Date: OCT 31 2013	Expiration Date: _____
Email Address: b.wall@linnenergy.com	Conditions of Approval: Remediation per OCD Rule & Guidelines, & approval by BLM. SUBMIT REMEDIATION	Attached <input type="checkbox"/>
Date: _____	Phone: (806) 367-0645	

*Attach Additional Sheets If Necessary

PROPOSAL NO LATER THAN:
November 30, 2013

2RP-2033



Appendix B

Final wall Sampling Labs

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 17, 2014

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MAX FRIESS & FREN SUPPLY LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/09/14 16:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/09/2014	Sampling Date:	01/09/2014
Reported:	01/17/2014	Sampling Type:	Soil
Project Name:	MAX FRIESS & FREN SUPPLY LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LINN ENERGY		

Sample ID: NORTH EAST WALL (H400086-01)

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	01/15/2014	ND	2.17	108	2.00	1.01		
Toluene*	<0.050	0.050	01/15/2014	ND	2.13	106	2.00	0.607		
Ethylbenzene*	<0.050	0.050	01/15/2014	ND	2.15	108	2.00	0.331		
Total Xylenes*	<0.150	0.150	01/15/2014	ND	6.38	106	6.00	0.537		
Total BTEX	<0.300	0.300	01/15/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	01/13/2014	ND	400	100	400	3.92		

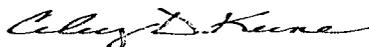
TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/14/2014	ND	185	92.4	200	6.28		
DRO >C10-C28	<10.0	10.0	01/14/2014	ND	192	96.2	200	8.34		

Surrogate: 1-Chlorooctane 95.8 % 65.2-140
Surrogate: 1-Chlorooctadecane 100 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/09/2014	Sampling Date:	01/09/2014
Reported:	01/17/2014	Sampling Type:	Soil
Project Name:	MAX FRIESS & FREN SUPPLY LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LINN ENERGY		

Sample ID: EAST WALL (H40086-02)

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	01/15/2014	ND	2.17	108	2.00	1.01		
Toluene*	<0.050	0.050	01/15/2014	ND	2.13	106	2.00	0.607		
Ethylbenzene*	<0.050	0.050	01/15/2014	ND	2.15	108	2.00	0.331		
Total Xylenes*	<0.150	0.150	01/15/2014	ND	6.38	106	6.00	0.537		
Total BTEX	<0.300	0.300	01/15/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 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	928	16.0	01/13/2014	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	01/14/2014	ND	185	92.4	200	6.28		
DRO >C10-C28	<10.0	10.0	01/14/2014	ND	192	96.2	200	8.34		

Surrogate: 1-Chlorooctane 79.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.6 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/09/2014	Sampling Date:	01/09/2014
Reported:	01/17/2014	Sampling Type:	Soil
Project Name:	MAX FRIESS & FREN SUPPLY LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LINN ENERGY		

Sample ID: WEST WALL NORTH (H400086-03)

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	01/15/2014	ND	2.17	108	2.00	1.01		
Toluene*	<0.050	0.050	01/15/2014	ND	2.13	106	2.00	0.607		
Ethylbenzene*	<0.050	0.050	01/15/2014	ND	2.15	108	2.00	0.331		
Total Xylenes*	<0.150	0.150	01/15/2014	ND	6.38	106	6.00	0.537		
Total BTEX	<0.300	0.300	01/15/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 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	368	16.0	01/13/2014	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	01/14/2014	ND	185	92.4	200	6.28		
DRO >C10-C28	<10.0	10.0	01/14/2014	ND	192	96.2	200	8.34		

Surrogate: 1-Chlorooctane 93.2 % 65.2-140
Surrogate: 1-Chlorooctadecane 105 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

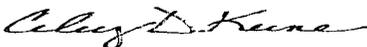
Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celest D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 17, 2014

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MAX FRIESS & FREN SUPPLY LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/10/14 16:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/10/2014	Sampling Date:	01/10/2014
Reported:	01/17/2014	Sampling Type:	Soil
Project Name:	MAX FRIESS & FREN SUPPLY LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LINN ENERGY		

Sample ID: NORTH WEST WALL (H400096-01)

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	01/15/2014	ND	2.17	108	2.00	1.01		
Toluene*	<0.050	0.050	01/15/2014	ND	2.13	106	2.00	0.607		
Ethylbenzene*	<0.050	0.050	01/15/2014	ND	2.15	108	2.00	0.331		
Total Xylenes*	<0.150	0.150	01/15/2014	ND	6.38	106	6.00	0.537		
Total BTEX	<0.300	0.300	01/15/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 106 % 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	64.0	16.0	01/17/2014	ND	432	108	400	7.14		

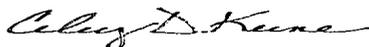
TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/14/2014	ND	209	105	200	6.89		
DRO >C10-C28	26.8	10.0	01/14/2014	ND	233	116	200	1.72		

Surrogate: 1-Chlorooctane 94.6 % 65.2-140
Surrogate: 1-Chlorooctadecane 112 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/10/2014	Sampling Date:	01/10/2014
Reported:	01/17/2014	Sampling Type:	Soil
Project Name:	MAX FRIESS & FREN SUPPLY LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LINN ENERGY		

Sample ID: SOUTH WALL (H400096-02)

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	01/15/2014	ND	2.17	108	2.00	1.01		
Toluene*	<0.050	0.050	01/15/2014	ND	2.13	106	2.00	0.607		
Ethylbenzene*	<0.050	0.050	01/15/2014	ND	2.15	108	2.00	0.331		
Total Xylenes*	<0.150	0.150	01/15/2014	ND	6.38	106	6.00	0.537		
Total BTEX	<0.300	0.300	01/15/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 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	272	16.0	01/17/2014	ND	432	108	400	7.14		

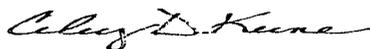
TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/14/2014	ND	209	105	200	6.89		
DRO >C10-C28	10.1	10.0	01/14/2014	ND	233	116	200	1.72		

Surrogate: 1-Chlorooctane 94.0 % 65.2-140
Surrogate: 1-Chlorooctadecane 111 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/10/2014	Sampling Date:	01/10/2014
Reported:	01/17/2014	Sampling Type:	Soil
Project Name:	MAX FRIESS & FREN SUPPLY LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LINN ENERGY		

Sample ID: WEST WALL SOUTH (H400096-03)

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	01/15/2014	ND	2.17	108	2.00	1.01		
Toluene*	<0.050	0.050	01/15/2014	ND	2.13	106	2.00	0.607		
Ethylbenzene*	<0.050	0.050	01/15/2014	ND	2.15	108	2.00	0.331		
Total Xylenes*	<0.150	0.150	01/15/2014	ND	6.38	106	6.00	0.537		
Total BTEX	<0.300	0.300	01/15/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 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	208	16.0	01/17/2014	ND	432	108	400	7.14		

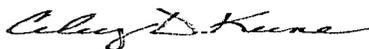
TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/14/2014	ND	209	105	200	6.89		
DRO >C10-C28	<10.0	10.0	01/14/2014	ND	233	116	200	1.72		

Surrogate: 1-Chlorooctane 89.4 % 65.2-140
Surrogate: 1-Chlorooctadecane 108 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celestine D. Keene, Lab Director/Quality Manager

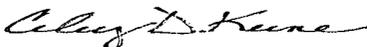
Notes and Definitions

- 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

January 21, 2014

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MAX FRIESS & FREN SUPPLY LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/16/14 16:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/16/2014	Sampling Date:	01/16/2014
Reported:	01/21/2014	Sampling Type:	Soil
Project Name:	MAX FRIESS & FREN SUPPLY LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LINN ENERGY		

Sample ID: IMPORTED SOIL (H400152-01)

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	01/20/2014	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

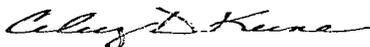
Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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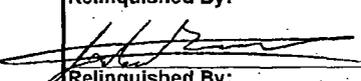
Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

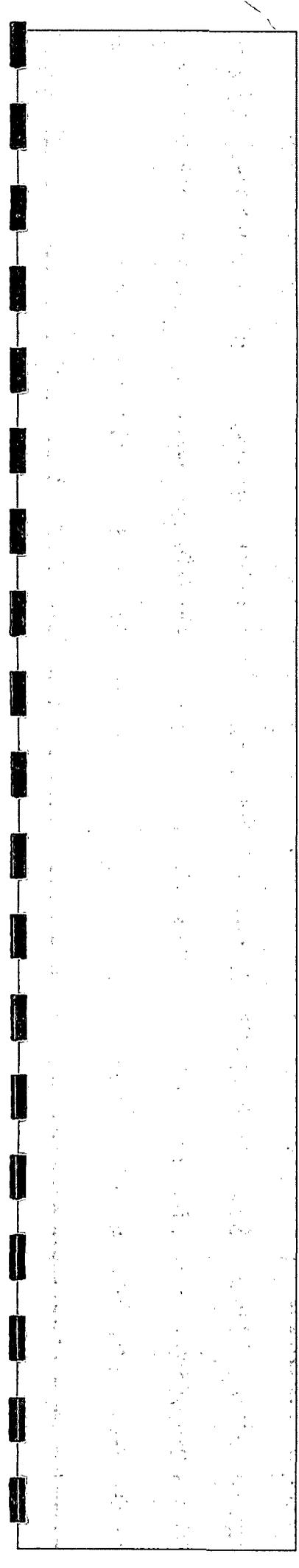
Company Name: RECS				BILL TO				ANALYSIS REQUEST															
Project Manager:				P.O. #:																			
Address:				Company:																			
City:		State:		Zip:		Attn:																	
Phone #:		Fax #:		Address:																			
Project #:		Project Owner:		City:																			
Project Name: <i>Lian Energy</i>				State:																Zip:			
Project Location: <i>Max Friss & Fris Supplyline</i>				Phone #:																			
Sampler Name: <i>Joshua Balcom</i>				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.		GIRAB OR (COMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING		<i>Chlorides</i>									
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:					DATE	TIME				
<i>H400152</i>		<i>Impacted Soil</i>		<i>1</i>		<i>✓</i>				<i>✓</i>			<i>1-16-14</i>					<i>1:00</i>					

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Relinquished By: 		Date: <i>1-16-14</i>	Received By: <i>Jodi Benson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: <i>4:10</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS: <i>hcoonder@rice-ecs.com Lweinheimer@rice-ecs.com</i>	
		Time:		<i>Kjones@riceswd.com lflores@riceswd.com</i>	
Delivered By: (Circle One)		Sample Condition		CHECKED BY: 	
Sampler - UPS - Bus - Other:		Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<i>JHamplain@rice-ecs.com Jbalcom@rice-ecs.com</i>	

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

#54



Appendix D

Photo Documentation

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

Max Friess & Fren Supply Line (2RP-2033)

UL/L sec. 20 T17S R31E



Site prior, facing northeast

12/31/13



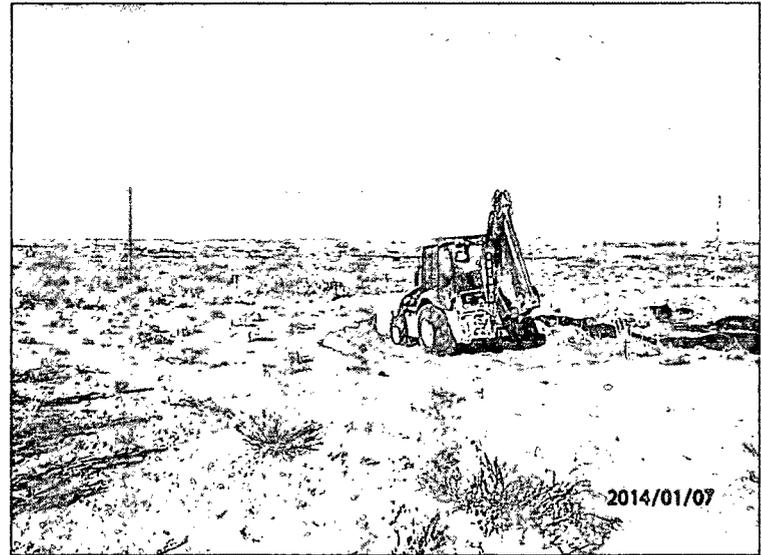
Utilizing hydro-vac, facing north

12/31/2013



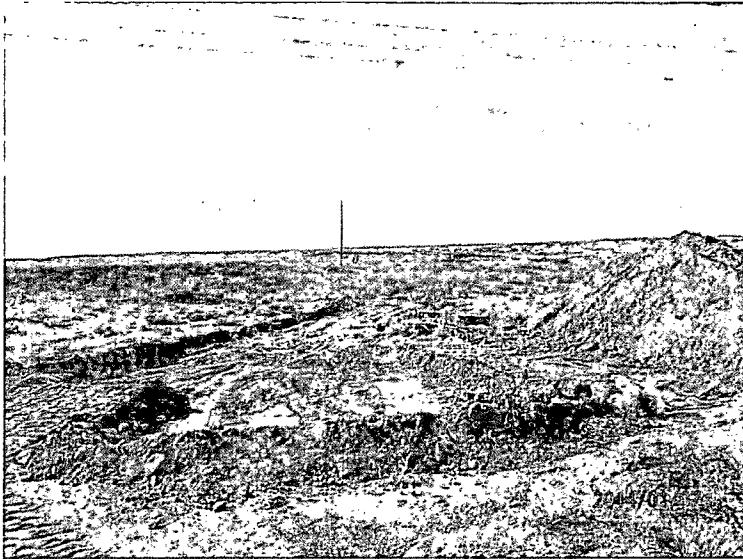
Importing soil, facing east

1/2/2014



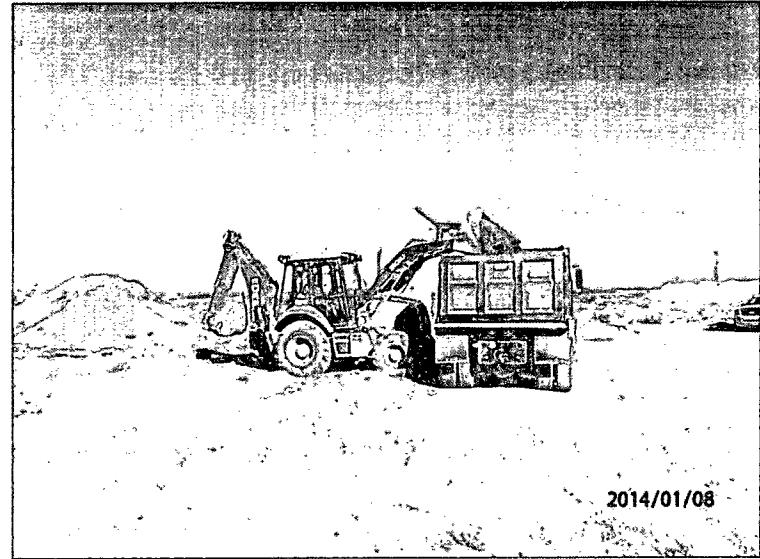
Scraping 6 in proposed area, facing west

1/7/2014



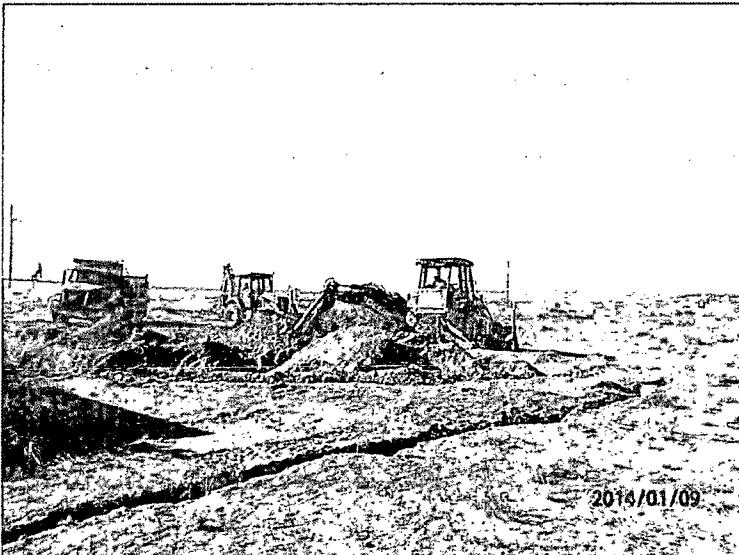
Completed 6" scrape, facing west

1/7/2014



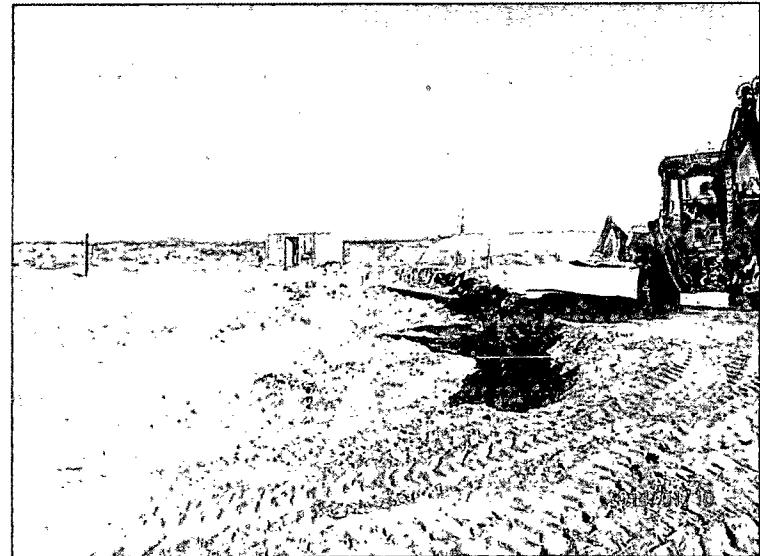
Exporting soil, facing northeast

1/8/2014



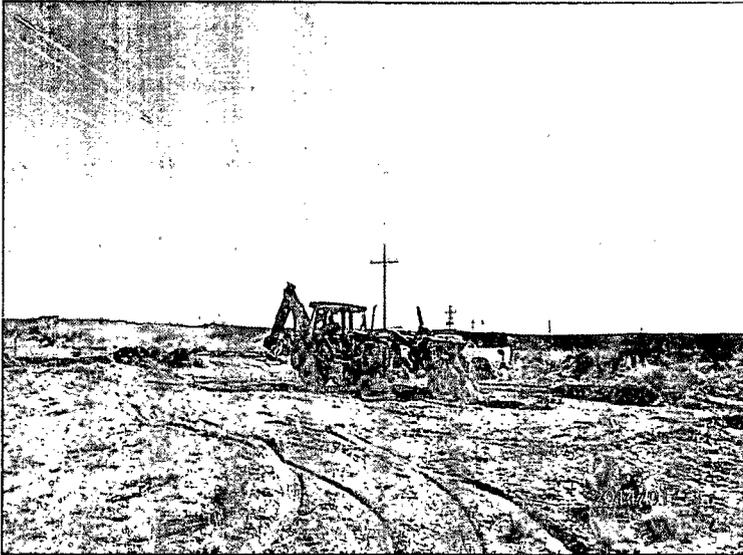
Excavating 4' proposed area, facing southwest

1/9/2014



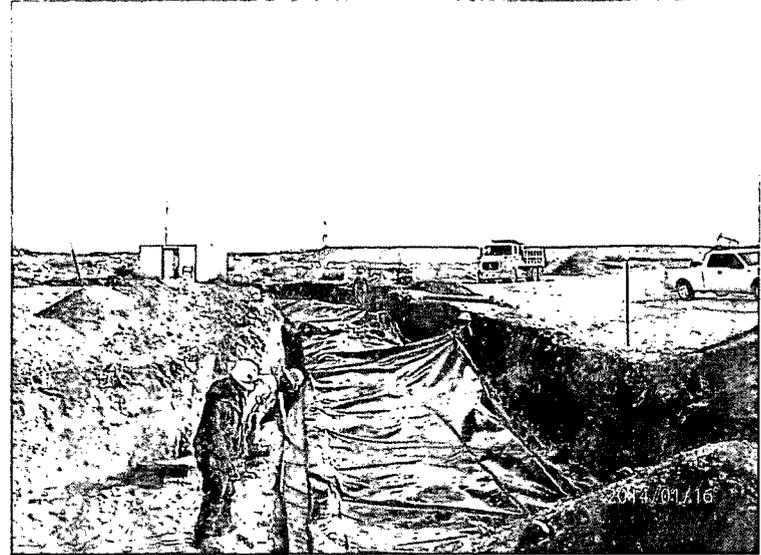
Completed 4' excavation, facing east

1/10/2014



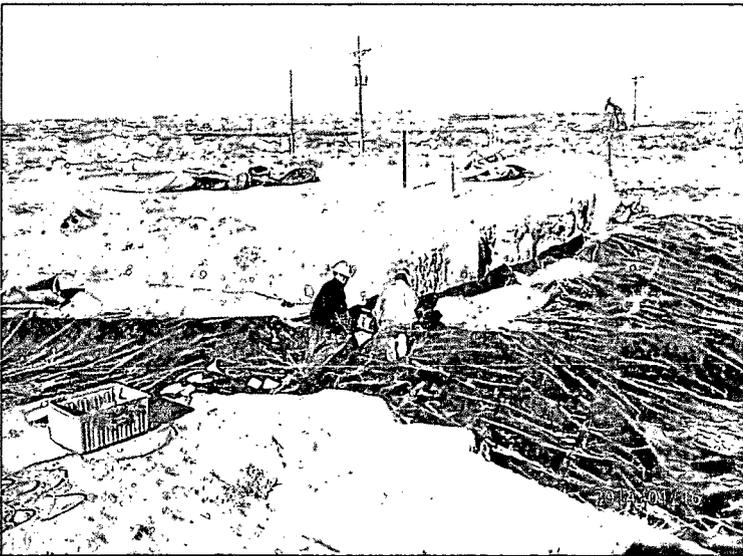
Backfilling 6' scrape area, facing south

1/13/2014



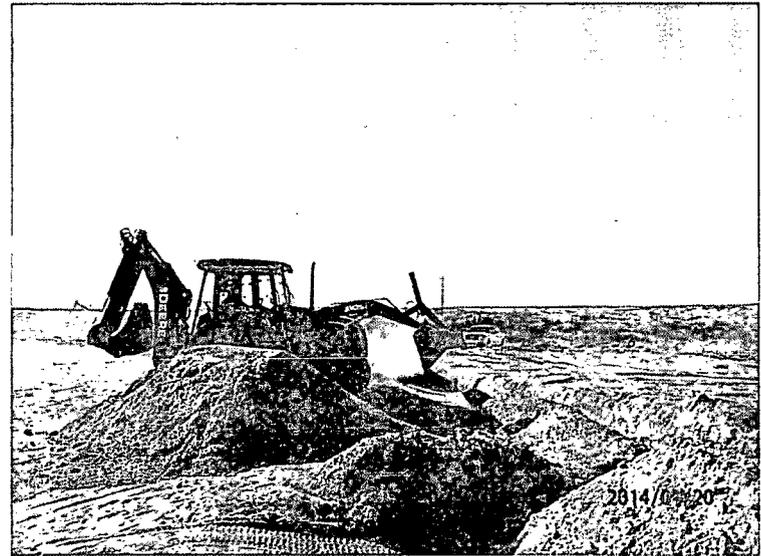
Installing 20-mil poly liner, facing east

1/16/2014



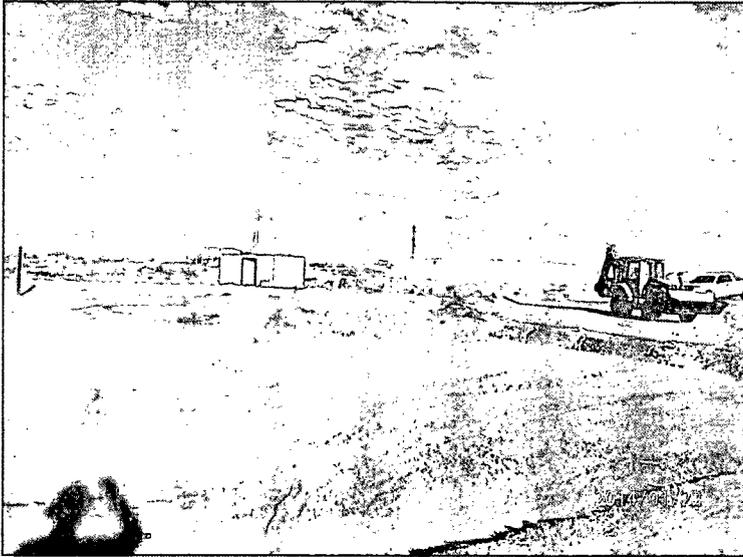
Seaming liner, facing northwest

1/16/2014



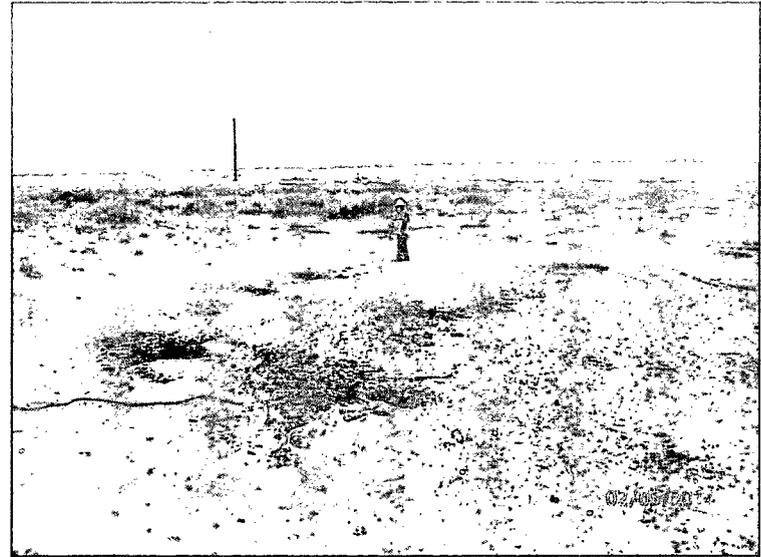
Backfilling 4' excavation, facing west

1/20/2014



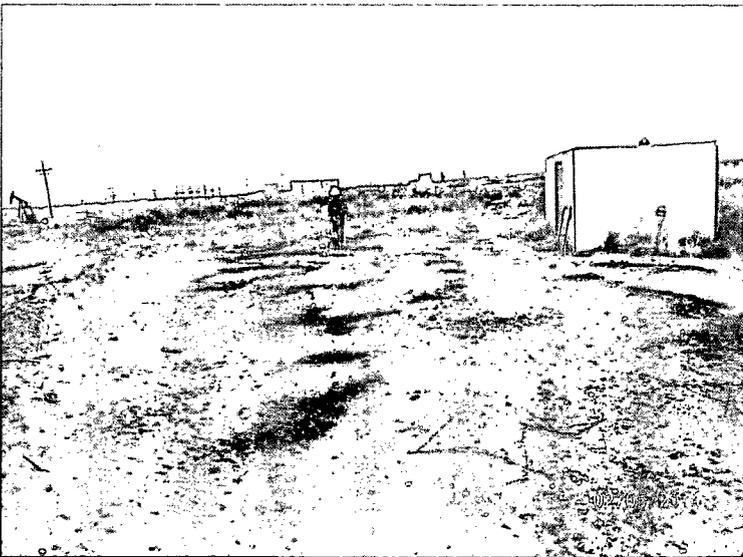
Backfill completed, facing northeast

1/22/2014



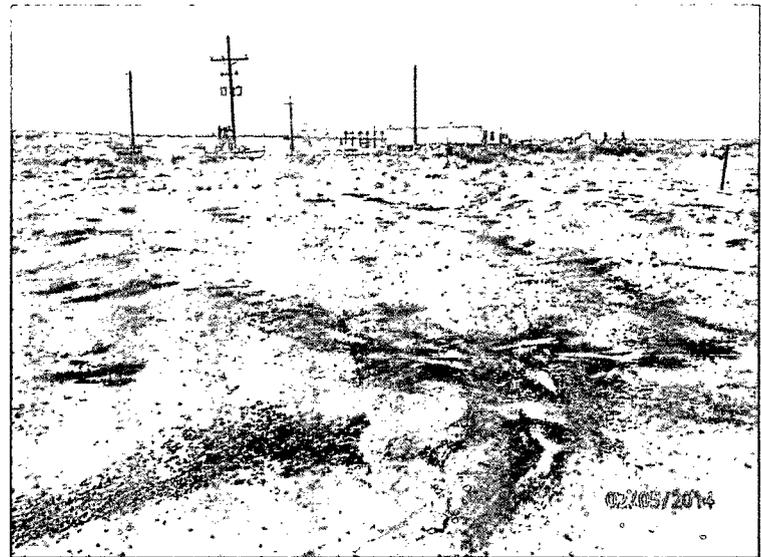
Spreading soil amendments, facing northwest

2/5/2014



Seeding site, facing north

2/5/2014



Site completed, facing northeast

2/5/2014

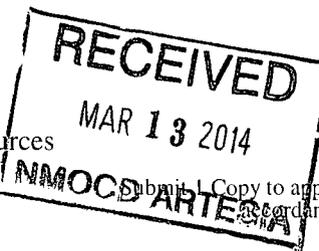
Appendix E

Final C-141

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

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

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



Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Linn Operating	Contact	Brian Wall
Address	2130 W. Bender Blvd., Hobbs, NM 88240	Telephone No.	(806) 367-0645
Facility Name	Max Friess and Fren Supply Line	Facility Type	Supply Line
Surface Owner	BLM	Mineral Owner	
		API No.	3001505284

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	20	17S	31E	1618	FSL	701	FWL	Eddy

Latitude 32°49'2.178"N Longitude 103°53'53.514"W

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	716 bbls	Volume Recovered	0 bbls
Source of Release	Supply Line	Date and Hour of Occurrence	5/20/2013	Date and Hour of Discovery	5/20/2013
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required				
By Whom?	If YES, To Whom?				
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.*

A break in the supply line lead to a release of 20 bbls of produced water, which covered 3,621 sq ft of pasture land. The site was sample in 5 places throughout the release and representative samples were taken to a commercial laboratory for analysis. A soil bore was installed at the site on August 9th, 2013. The soil bore showed elevated chloride levels at 20 ft bgs, which decreased to below 250 mg/kg at 40 ft bgs.

Describe Area Affected and Cleanup Action Taken.*

The release affected 3,621 square feet of pasture land and a remediated, abandoned well site. RECS received this site after another company began remediation efforts. The previous company took surface samples from 5 points within the release. At SP-2, a soil bore was installed on August 9th, 2013 to a depth of 40 ft bgs. Representative samples from these sampling events were taken to a commercial laboratory for analysis. SP-1, SP-2 and SP-3 returned elevated chloride values with depth but returned Gasoline Range Organics (GRO), Diesel Range Organics (DRO) and BTEX readings of non-detect. SP-4 returned laboratory chloride levels, GRO, DRO and BTEX below regulatory standards at the surface and at 1 ft bgs. SB-5 returned an elevated chloride level at the surface that dropped to non-detect at 1 ft bgs. GRO, DRO and BTEX readings at the surface and at 1 ft bgs were non-detect. A Corrective Action Plan was submitted to NMOCD and BLM, and approved by both agencies, on December 5th, 2013. CAP activities began on December 31st, 2013. The area around SP-1, SP-2 and SP-3 was excavated to 4 ft bgs. Wall samples were taken from the excavation and sent to commercial laboratory for analysis. All wall samples returned laboratory chloride readings below 1,000 mg/kg and GRO, DRO and BTEX readings of non-detect. At 4 ft bgs a 20-mil reinforced poly liner was installed and properly seated at the base of the excavation. The area around SP-4 and SP-5 was scraped down 6 inches. A total of 424 yards of contaminated soil was taken to a NMOCD approved facility for disposal. A total of 580 yards of top soil was imported to the site to serve as backfill. The excavation and scrape were backfilled with the clean, imported soil and contoured to the surrounding location. A sample of the imported top soil was submitted to a commercial laboratory for analysis, returning a chloride concentration below of non-detect. On February 5th, 2014, soil amendments were added to the site and the site was seeded with a BLM mix of #2 and #4.

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

Signature: <i>Fred B Wall</i>	OIL CONSERVATION DIVISION		
Printed Name: Brian Wall	Approved by Environmental Specialist:		
Title: Construction Foreman II	Approval Date:	Expiration Date:	
E-mail Address: Bwall@linenergy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 3/7/14	Phone: (806) 367-0645		

* Attach Additional Sheets If Necessary