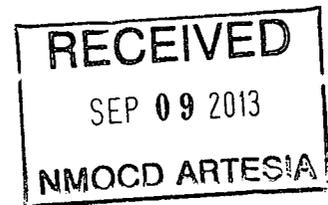


LINN ENERGY

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

Max Friess Supply Line (2RP-1877)

Corrective Action Plan



API No. 3001528822

Unit Letter P&O, Section 19 and Unit Letter A&B, Section 30,
Township 17S, Range 33E

Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241

Phone 575.393.2967

CERTIFIED MAIL

RETURN RECEIPT NO. 7007 2560 0000 4569 8371

September 5th, 2013

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 (CAP)

Linn Energy – Max Friess Supply Line AD (2RP-1877)

UL/P&O sec. 19 & UL/A&B sec. 30 T17S R31E

API No. 3001528822

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 4.5 miles east of Loco Hills in UL/P&O sec. 19 and UL/A&B sec. 30 T17S R31E in Eddy County, NM. A break in a 4 inch steel line led to the release of 40 barrels of produced water. A vacuum truck was called to the site and picked up 10 barrels of produced water. An initial C-141 detailing the release was sent to NMOCD and BLM on August 28th, 2013 (Appendix A). The site is in an area of no known groundwater.

RECS began initiating work at the site on May 20th, 2013. Initial samples were taken from the surface of the release area and field tested for chloride and hydrocarbons (Figure 1). The field data suggested elevated levels of chlorides throughout the release and relatively low levels of hydrocarbons.

Based on the surface data, RECS installed six verticals at each surface sample point (Figure 2). BLM approved vertical installation on July 23rd, 2013. As the verticals were installed, samples were taken at regular intervals and field tested for chlorides and hydrocarbons. Representative samples from each vertical were taken to a commercial laboratory for analysis (Appendix B). Verticals #1 and #2 were installed to a depth of 15 ft bgs and showed elevated laboratory chloride readings at that depth. However, GRO, DRO and BTEX readings were non-detect, except for in Vertical #1 where the toluene reading was 0.086 mg/kg at 1.5 ft and in Vertical #2 where the DRO reading was 11.3 mg/kg. Vertical #3 was installed to a depth of 13 ft bgs and Vertical #4 was installed to a depth of 4 ft bgs where laboratory chlorides, GRO, DRO and BTEX readings were low in

the bottom most sample of each vertical. Vertical #5 was installed to a depth of 15 ft bgs where the laboratory chloride reading was 384 mg/kg and GRO, DRO and BTEX readings were non-detect. Vertical #6 was installed to a depth of 9 ft bgs where the laboratory chloride reading was 96 mg/kg and the GRO, DRO and BTEX readings were non-detect.

On August 6th, 2013 BLM approved soil bore installation activities at the site that occurred on August 20th, 2013. Two soil bores were installed at the site (Figure 3). SB-1 was installed to a depth of 99 ft bgs and field samples were taken at regular intervals as the bore was advanced. Representative samples from the bore were taken to a commercial laboratory for analysis (Appendix C). Laboratory chloride readings returned results of 5,920 mg/kg at 51 ft bgs, 80 mg/kg at 96 ft bgs and 144 mg/kg at 99 ft bgs. GRO, DRO and BTEX readings at all depths were non-detect.

SB-2 was installed to a depth of 120 ft bgs to determine the depth of groundwater at the site. Red bed clay was encountered at a depth of 99 ft bgs, which indicates the bottom of the aquifer. The bore indicated no groundwater to a depth of 120 ft.

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

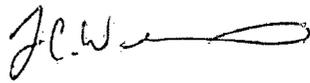
Corrective Action Plan

Since there is no groundwater at the site, the residual chlorides in the vadose zone will not in any way affect groundwater beneath the site. However, to mitigate any chance that the residual chlorides could affect groundwater in the future, RECS recommends that Linn excavate the site to 4 ft bgs. The walls of the excavation will be field tested for chlorides and representative samples taken to a commercial laboratory for analysis once chloride levels in the walls indicate numbers below 1,000 mg/kg. At 4 ft bgs, over the greatest area of the release, a 20-mil reinforced poly liner will be installed and key set into the excavation (Figure 4). The liner will not be installed in the finger areas in the northern part of the release due to the difficulty of key setting a liner in such thin areas. The excavated soil will be transported to a NMOCD approved facility. Once the liner is installed, the excavation will be backfilled with clean, imported soil. The site will then be seeded with a blend of native vegetation. Vegetation acts as 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.

Once the CAP activities have been completed, Linn will submit a request for 'remediation termination' or similar closure status of the regulatory file.

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. Weinheimer", with a long, sweeping horizontal flourish extending to the right.

Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

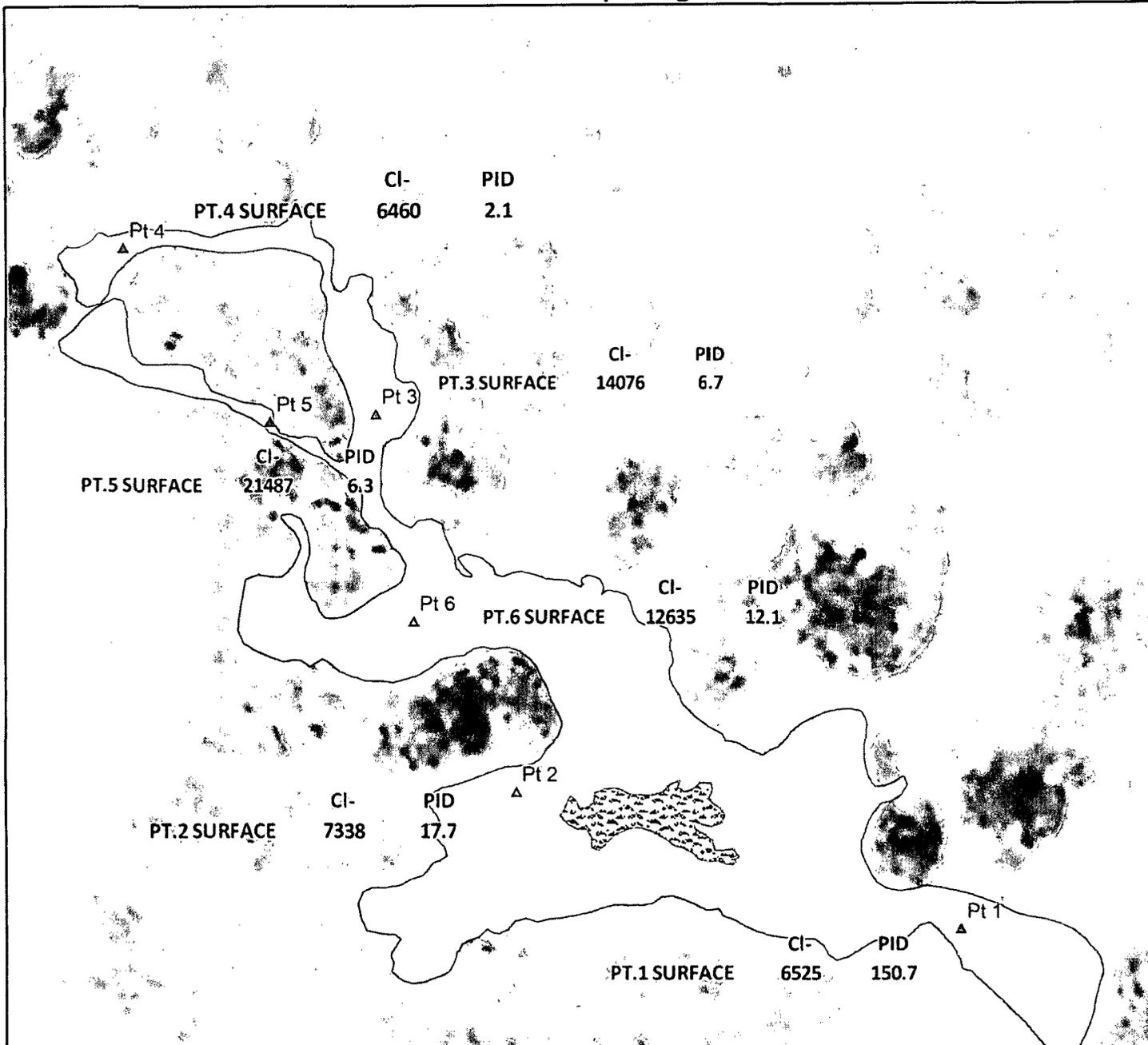
Attachments:

- Figure 1 – Initial Sampling Data
- Figure 2 – Vertical Data
- Figure 3 – Soil Bore Installation
- Appendix A – Initial C-141
- Appendix B – Vertical Sampling Laboratory Analyses
- Appendix C – Soil Bore Installation Documentation
- Appendix D – Photo Documentation

Figures

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

Initial Sampling Data



Legend

- ▲ SAMPLE POINTS
- STAIN (11,504 SQ FT)
- ▨ AREA NOT IN STAIN

DGW = NONE

Landowner: State

Leasee: Williams & Son Cattle Co.

Mineral Rights: BLM

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



LINN MAX FRIESS SUPPLY LINE AD

(2RP-1877)

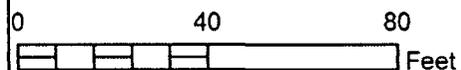
LEGALS: UL/P&O sec. 19

UL/A&B sec. 30

T-17-S R-31-E

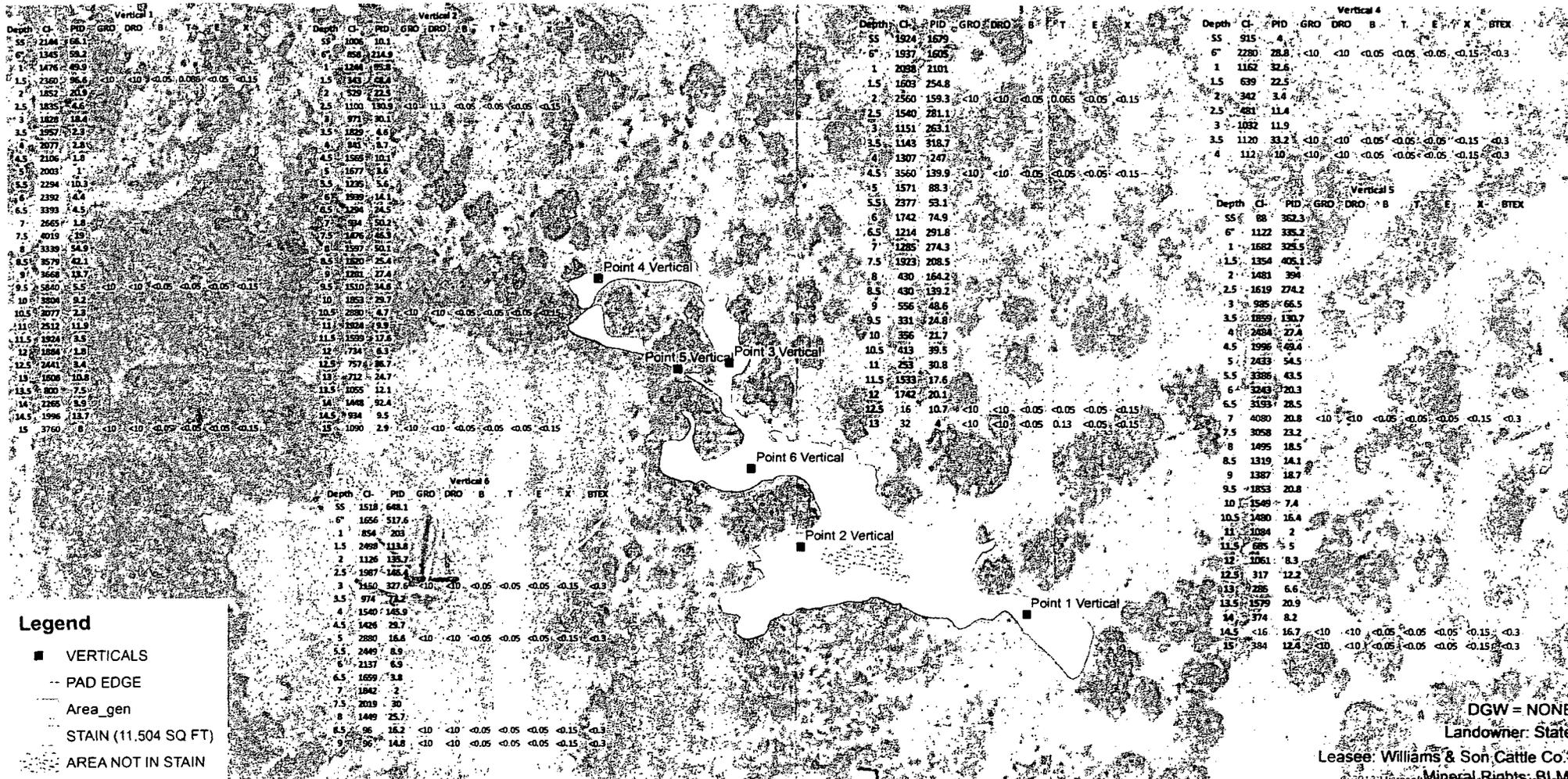
EDDY COUNTY, NM

Figure 1



GPS date: 5/20/13 DH
 Drawing date: 5/21/13
 Drafted by: L. Weinheimer

Vertical Data

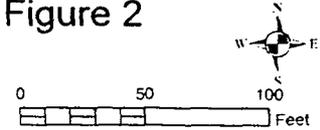


LINN MAX FRIESS SUPPLY LINE AD (2RP-1877)

LEGALS: UL/P&O sec. 19
UL/A&B sec. 30
T-17-S R-31-E
EDDY COUNTY, NM

DGW = NONE
Landowner: State
Leasee: Williams & Son Cattle Co
Mineral Rights: BLM

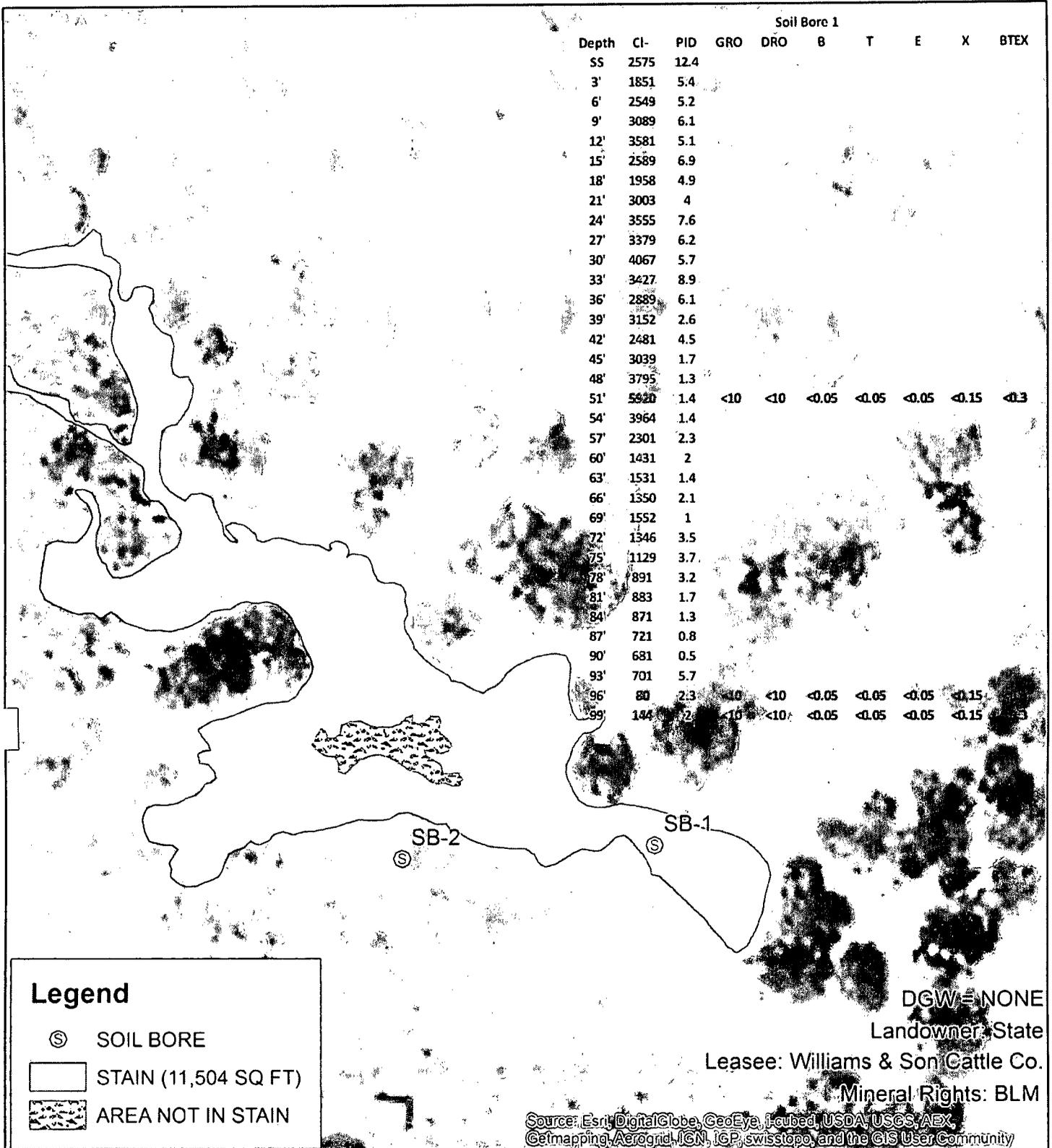
Figure 2



GPS date: 7/30/13 CF
Drawing date: 7/31/13
Drafted by: L. Weinmeier



Soil Bore Installation



Legend

- Ⓢ SOIL BORE
- STAIN (11,504 SQ FT)
- ▨ AREA NOT IN STAIN

DGW = NONE

Landowner: State

Leasee: Williams & Son Cattle Co.

Mineral Rights: BLM

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



LINN MAX FRIESS SUPPLY LINE AD

(2RP-1877)

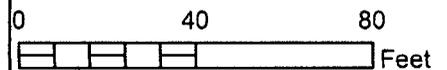
LEGALS: UL/P&O sec. 19

UL/A&B sec. 30

T-17-S R-31-E

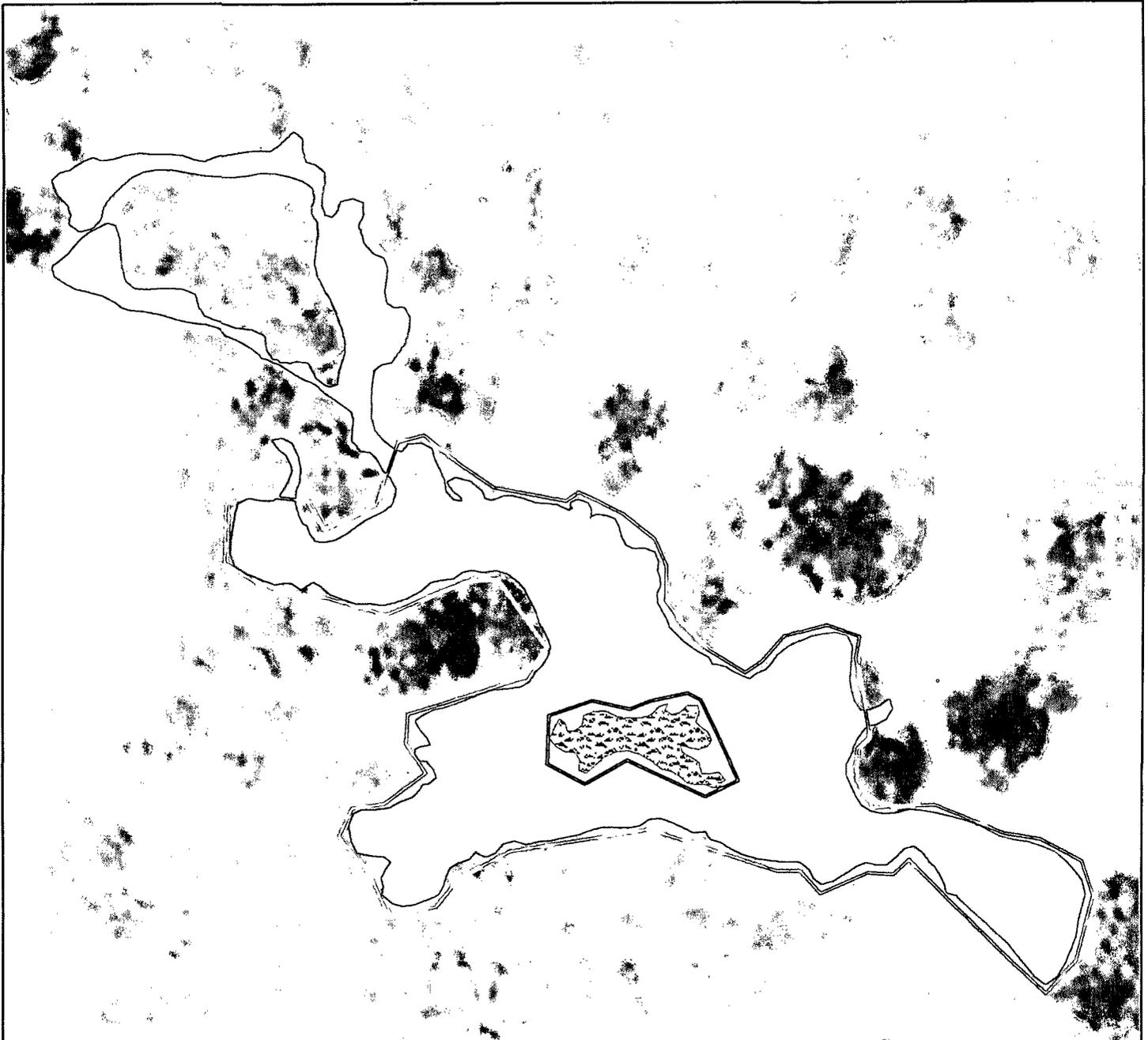
EDDY COUNTY, NM

Figure 3



GPS date: 8/20/13
 Drawing date: 9/5/13
 Drafted by: L. Weinheimer

Proposed Liner Installation



Legend

-  PROPOSED 20-MIL REINFORCED POLY LINER
-  STAIN (11,504 SQ FT)
-  AREA NOT IN STAIN

DGW = NONE

Landowner: State

Leasee: Williams & Son Cattle Co.

Mineral Rights: BLM

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



LINN MAX FRIESS SUPPLY LINE AD

(2RP-1877)

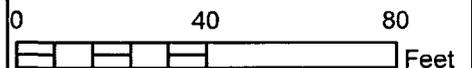
LEGALS: UL/P&O sec. 19

UL/A&B sec. 30

T-17-S R-31-E

EDDY COUNTY, NM

Figure 4



GPS date: 5/20/13 DH
 Drawing date: 9/5/13
 Drafted by: L. Weinheimer



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

Release Notification and Corrective Action

njmw 1324151567 OPERATOR Initial Report Final Report

Name of Company Linn Energy <i>269324</i>	Contact Brian Wall	
Address 2130 W. Bender Blvd., Hobbs, NM 88240	Telephone No. (806) 367-0645	
Facility Name Max Friess Supply Line	Facility Type Supply Line	
Surface Owner State	Mineral Owner BLM	API No. 3001528822

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	19	17S	31E	30	FNL	1320	FEL	Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

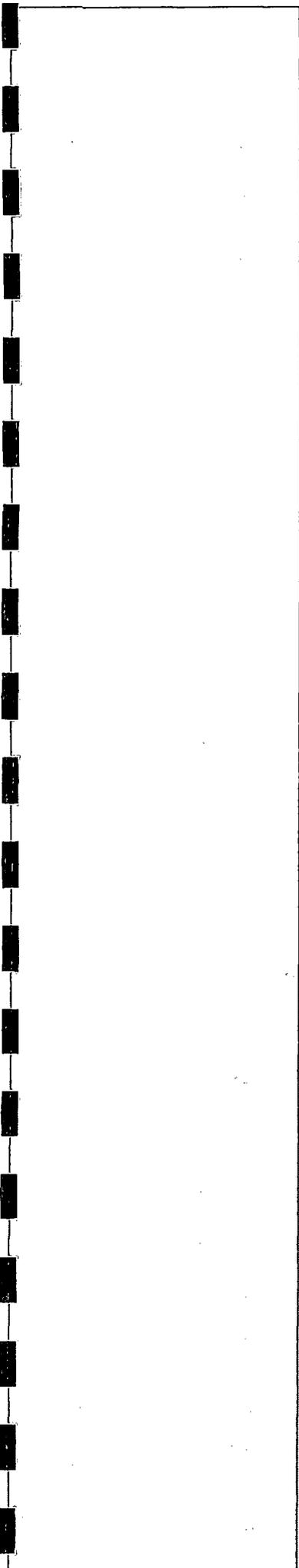
Type of Release Produced water	Volume of Release 40 bbls	Volume Recovered 10 bbls
Source of Release 4" steel injection line	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 5/16/13 10:30 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <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.* Corrosion in the 4" steel injection line released 40 bbls of produced water. A vacuum truck was called to the site, which picked up 10 barrels of produced water.		
Describe Area Affected and Cleanup Action Taken.* The release measured 11,504 sq ft in the pasture area. On 5/20/13, RECS personnel were on site to take surface samples from the release. The samples were field tested for chlorides and hydrocarbons. Based on the field data, verticals were installed at the surface sample points and field tested for chlorides and hydrocarbons. Representative samples from each vertical were taken to a commercial laboratory for analysis. The verticals showed elevated chloride levels at the surface that declined with depth. There was no evidence of GRO, DRO or BTEX in the samples. A Corrective Action Plan will be submitted to NMOCD detailing the work completed and a path forward to mitigate the chloride contamination in the vadose zone.		

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>Brian Wall</i>	OIL CONSERVATION DIVISION	
Printed Name: Brian Wall	Approved by Environmental Specialist:	Signed By: <i>Mike Demarcus</i>
Title: Construction Foreman II	Approval Date: AUG 29 2013	Expiration Date:
E-mail Address: Brian Wall (Bwall@linenergy.com)	Conditions of Approval: Remediation per OCD Rule & Guidelines. SUBMIT REMEDIATION PROPOSAL NO LATER THAN:	Attached <input type="checkbox"/>
Date: _____ Phone: (806) 367-0645	September 29, 2013	

* Attach Additional Sheets If Necessary

2RP-1877



Appendix B

Vertical Sampling Laboratory Analyses

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

August 06, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MAX FRIESS SUPPLY LINE AD

Enclosed are the results of analyses for samples received by the laboratory on 07/31/13 8:20.

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.

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:	07/31/2013	Sampling Date:	07/30/2013
Reported:	08/06/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS SUPPLY LINE AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 3 @ 2' (H301802-01)

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/05/2013	ND	0.431	108	0.400	4.55		
Toluene*	0.065	0.050	08/05/2013	ND	0.418	104	0.400	6.70		
Ethylbenzene*	<0.050	0.050	08/05/2013	ND	0.416	104	0.400	6.28		
Total Xylenes*	<0.150	0.150	08/05/2013	ND	1.20	100	1.20	6.03		

Surrogate: Dibromofluoromethane 97.0 % 61.3-142

Surrogate: Toluene-d8 99.8 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2560	16.0	08/01/2013	ND	432	108	400	0.00		

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	08/02/2013	ND	178	89.1	200	1.03		
DRO >C10-C28	<10.0	10.0	08/02/2013	ND	186	92.8	200	2.16		

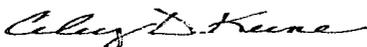
Surrogate: 1-Chlorooctane 88.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 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

Analytical Results For:

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

Received:	07/31/2013	Sampling Date:	07/30/2013
Reported:	08/06/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS SUPPLY LINE AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 3 @ 4' 6" (H301802-02)

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/05/2013	ND	0.431	108	0.400	4.55		
Toluene*	<0.050	0.050	08/05/2013	ND	0.418	104	0.400	6.70		
Ethylbenzene*	<0.050	0.050	08/05/2013	ND	0.416	104	0.400	6.28		
Total Xylenes*	<0.150	0.150	08/05/2013	ND	1.20	100	1.20	6.03		

Surrogate: Dibromofluoromethane 96.4 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3560	16.0	08/01/2013	ND	432	108	400	0.00		

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	08/05/2013	ND	178	89.1	200	1.03		
DRO >C10-C28	<10.0	10.0	08/05/2013	ND	186	92.8	200	2.16		

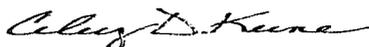
Surrogate: 1-Chlorooctane 99.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 122 % 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:	07/31/2013	Sampling Date:	07/30/2013
Reported:	08/06/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS SUPPLY LINE AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 3 @ 12' 6" (H301802-03)

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/05/2013	ND	0.431	108	0.400	4.55		
Toluene*	<0.050	0.050	08/05/2013	ND	0.418	104	0.400	6.70		
Ethylbenzene*	<0.050	0.050	08/05/2013	ND	0.416	104	0.400	6.28		
Total Xylenes*	<0.150	0.150	08/05/2013	ND	1.20	100	1.20	6.03		

Surrogate: Dibromofluoromethane 98.7 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/01/2013	ND	432	108	400	0.00		

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	08/02/2013	ND	178	89.1	200	1.03		
DRO >C10-C28	<10.0	10.0	08/02/2013	ND	186	92.8	200	2.16		

Surrogate: 1-Chlorooctane 75.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.7 % 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

Analytical Results For:

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

Received:	07/31/2013	Sampling Date:	07/30/2013
Reported:	08/06/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS SUPPLY LINE AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 3 @ 13' (H301802-04)
BTEX 8260B
mg/kg
Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2013	ND	0.431	108	0.400	4.55	
Toluene*	0.130	0.050	08/05/2013	ND	0.418	104	0.400	6.70	
Ethylbenzene*	<0.050	0.050	08/05/2013	ND	0.416	104	0.400	6.28	
Total Xylenes*	<0.150	0.150	08/05/2013	ND	1.20	100	1.20	6.03	

Surrogate: Dibromofluoromethane 98.6 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B
mg/kg
Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2013	ND	432	108	400	0.00	

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	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	<10.0	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 76.3 % 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:	07/31/2013	Sampling Date:	07/30/2013
Reported:	08/06/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS SUPPLY LINE AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 2 @ 2' 6" (H301802-05)

BTEX 82608		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/05/2013	ND	0.431	108	0.400	4.55		
Toluene*	<0.050	0.050	08/05/2013	ND	0.418	104	0.400	6.70		
Ethylbenzene*	<0.050	0.050	08/05/2013	ND	0.416	104	0.400	6.28		
Total Xylenes*	<0.150	0.150	08/05/2013	ND	1.20	100	1.20	6.03		

Surrogate: Dibromofluoromethane 97.7 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	08/01/2013	ND	432	108	400	0.00		

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	08/05/2013	ND	178	89.1	200	1.03		
DRO >C10-C28	11.3	10.0	08/05/2013	ND	186	92.8	200	2.16		

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 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:	07/31/2013	Sampling Date:	07/30/2013
Reported:	08/06/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS SUPPLY LINE AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 2 @ 10' 6" (H301802-06)

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/05/2013	ND	0.431	108	0.400	4.55		
Toluene*	<0.050	0.050	08/05/2013	ND	0.418	104	0.400	6.70		
Ethylbenzene*	<0.050	0.050	08/05/2013	ND	0.416	104	0.400	6.28		
Total Xylenes*	<0.150	0.150	08/05/2013	ND	1.20	100	1.20	6.03		

Surrogate: Dibromofluoromethane 97.6 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2880	16.0	08/01/2013	ND	432	108	400	0.00		

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	08/02/2013	ND	178	89.1	200	1.03		
DRO >C10-C28	<10.0	10.0	08/02/2013	ND	186	92.8	200	2.16		

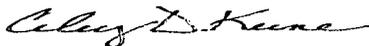
Surrogate: 1-Chlorooctane 76.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/31/2013	Sampling Date:	07/30/2013
Reported:	08/06/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS SUPPLY LINE AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 2 @ 15' (H301802-07)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2013	ND	0.431	108	0.400	4.55	
Toluene*	<0.050	0.050	08/05/2013	ND	0.418	104	0.400	6.70	
Ethylbenzene*	<0.050	0.050	08/05/2013	ND	0.416	104	0.400	6.28	
Total Xylenes*	<0.150	0.150	08/05/2013	ND	1.20	100	1.20	6.03	

Surrogate: Dibromofluoromethane 95.3 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	08/01/2013	ND	432	108	400	0.00	

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	08/03/2013	ND	180	90.0	200	0.0806	
DRO >C10-C28	<10.0	10.0	08/03/2013	ND	198	98.9	200	1.23	

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 132 % 63.6-154

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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:	07/31/2013	Sampling Date:	07/30/2013
Reported:	08/06/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS SUPPLY LINE AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 1 @ 1' 6" (H301802-08)

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/05/2013	ND	0.431	108	0.400	4.55		
Toluene*	0.086	0.050	08/05/2013	ND	0.418	104	0.400	6.70		
Ethylbenzene*	<0.050	0.050	08/05/2013	ND	0.416	104	0.400	6.28		
Total Xylenes*	<0.150	0.150	08/05/2013	ND	1.20	100	1.20	6.03		

Surrogate: Dibromofluoromethane 97.7 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2360	16.0	08/01/2013	ND	432	108	400	0.00		

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	08/03/2013	ND	180	90.0	200	0.0806		
DRO >C10-C28	<10.0	10.0	08/03/2013	ND	198	98.9	200	1.23		

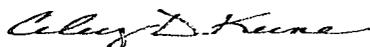
Surrogate: 1-Chlorooctane 99.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 125 % 63.6-154

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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:	07/31/2013	Sampling Date:	07/30/2013
Reported:	08/06/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS SUPPLY LINE AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 1 @ 9' 6" (H301802-09)

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/05/2013	ND	0.431	108	0.400	4.55		
Toluene*	<0.050	0.050	08/05/2013	ND	0.418	104	0.400	6.70		
Ethylbenzene*	<0.050	0.050	08/05/2013	ND	0.416	104	0.400	6.28		
Total Xylenes*	<0.150	0.150	08/05/2013	ND	1.20	100	1.20	6.03		

Surrogate: Dibromofluoromethane 98.6 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5840	16.0	08/01/2013	ND	432	108	400	0.00		

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	08/03/2013	ND	180	90.0	200	0.0806		
DRO >C10-C28	<10.0	10.0	08/03/2013	ND	198	98.9	200	1.23		

Surrogate: 1-Chlorooctane 97.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 130 % 63.6-154

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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:	07/31/2013	Sampling Date:	07/30/2013
Reported:	08/06/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS SUPPLY LINE AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 1 @ 15' (H301802-10)

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/05/2013	ND	0.431	108	0.400	4.55		
Toluene*	<0.050	0.050	08/05/2013	ND	0.418	104	0.400	6.70		
Ethylbenzene*	<0.050	0.050	08/05/2013	ND	0.416	104	0.400	6.28		
Total Xylenes*	<0.150	0.150	08/05/2013	ND	1.20	100	1.20	6.03		

Surrogate: Dibromofluoromethane 98.9 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 106 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3760	16.0	08/01/2013	ND	432	108	400	0.00		

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	08/03/2013	ND	180	90.0	200	0.0806		
DRO >C10-C28	<10.0	10.0	08/03/2013	ND	198	98.9	200	1.23		

Surrogate: 1-Chlorooctane 87.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

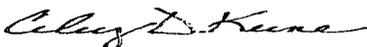
Notes and Definitions

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

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Celest D. Keene, Lab Director/Quality Manager



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

July 31, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MAX FRIESS SUPPLY LINE AD

Enclosed are the results of analyses for samples received by the laboratory on 07/26/13 10:11.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is written in a cursive, flowing style.

Mike Snyder

Organic Supervisor

Analytical Results For:

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

Received:	07/26/2013	Sampling Date:	07/25/2013
Reported:	07/31/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS SUPPLY LINE AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: PT. 4 VERTICAL @ 6" (H301760-01)

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2013	ND	1.80	89.9	2.00	2.74		
Toluene*	<0.050	0.050	07/29/2013	ND	1.80	89.9	2.00	2.64		
Ethylbenzene*	<0.050	0.050	07/29/2013	ND	1.91	95.6	2.00	2.12		
Total Xylenes*	<0.150	0.150	07/29/2013	ND	5.75	95.8	6.00	1.35		
Total BTEX	<0.300	0.300	07/29/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 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	2280	16.0	07/29/2013	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	07/26/2013	ND	188	93.9	200	7.00		
DRO >C10-C28	<10.0	10.0	07/26/2013	ND	195	97.4	200	9.12		

Surrogate: 1-Chlorooctane 84.0 % 65.2-140
Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	07/26/2013	Sampling Date:	07/25/2013
Reported:	07/31/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS SUPPLY LINE AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: PT. 4 VERTICAL @ 3' 6" (H301760-02)

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2013	ND	1.80	89.9	2.00	2.74		
Toluene*	<0.050	0.050	07/29/2013	ND	1.80	89.9	2.00	2.64		
Ethylbenzene*	<0.050	0.050	07/29/2013	ND	1.91	95.6	2.00	2.12		
Total Xylenes*	<0.150	0.150	07/29/2013	ND	5.75	95.8	6.00	1.35		
Total BTEX	<0.300	0.300	07/29/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1120	16.0	07/29/2013	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	07/26/2013	ND	188	93.9	200	7.00		
DRO >C10-C28	<10.0	10.0	07/26/2013	ND	195	97.4	200	9.12		

Surrogate: 1-Chlorooctane 84.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	07/26/2013	Sampling Date:	07/25/2013
Reported:	07/31/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS SUPPLY LINE AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: PT. 4 VERTICAL @ 4' (H301760-03)

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/29/2013	ND	1.80	89.9	2.00	2.74		
Toluene*	<0.050	0.050	07/29/2013	ND	1.80	89.9	2.00	2.64		
Ethylbenzene*	<0.050	0.050	07/29/2013	ND	1.91	95.6	2.00	2.12		
Total Xylenes*	<0.150	0.150	07/29/2013	ND	5.75	95.8	6.00	1.35		
Total BTEX	<0.300	0.300	07/29/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/29/2013	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	07/26/2013	ND	188	93.9	200	7.00		
DRO >C10-C28	<10.0	10.0	07/26/2013	ND	195	97.4	200	9.12		

Surrogate: 1-Chlorooctane 75.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.3 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder, Organic Supervisor

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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Mike Snyder, Organic Supervisor



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Linn Energy</u>		BILL TO		ANALYSIS REQUEST																					
Project Manager:		P.O. #:																							
Address:		Company:																							
City: State: Zip:		Attn:																							
Phone #: Fax #:		Address:																							
Project #: Project Owner:		City:																							
Project Name:		State: Zip:																							
Project Location: <u>Max Friess Supply Line AD</u>		Phone #:																							
Sampler Name: <u>Chris Flores</u>		Fax #:																							
FOR LAB USE ONLY																									
Lab I.D.	Sample I.D.	(GRAB OR (COMP. # CONTAINERS	MATRIX													PRESERV.		SAMPLING		Chloride	TPH	BTEX			
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME												
<u>H301160</u>																									
<u>1</u>	<u>Pl. 4 Vertical @ 6"</u>	<u>G</u>	<u>1</u>																						
<u>2</u>	<u>Pl. 4 Vertical @ 3'6"</u>	<u>G</u>	<u>1</u>																						
<u>3</u>	<u>Pl. 4 Vertical @ 4'</u>	<u>G</u>	<u>1</u>																						

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>[Signature]</u>	Date: <u>7-26-2013</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>7:11</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
Time:				
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Temperature: <u>-0.2°C</u>	CHECKED BY: (Initials) <u>CSK</u>	

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

August 01, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MAX FRIESS SUPPLY LINE AD

Enclosed are the results of analyses for samples received by the laboratory on 07/29/13 8:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Mike Snyder

Organic Supervisor

Analytical Results For:

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

Received:	07/29/2013	Sampling Date:	07/26/2013
Reported:	08/01/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS SUPPLY LINE AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 5 @ 7' (H301773-01)

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2013	ND	2.12	106	2.00	7.03		
Toluene*	<0.050	0.050	07/30/2013	ND	2.09	104	2.00	6.40		
Ethylbenzene*	<0.050	0.050	07/30/2013	ND	2.19	110	2.00	6.36		
Total Xylenes*	<0.150	0.150	07/30/2013	ND	6.65	111	6.00	6.03		
Total BTEX	<0.300	0.300	07/30/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 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	4080	16.0	07/30/2013	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	07/30/2013	ND	177	88.5	200	2.97		
DRO >C10-C28	<10.0	10.0	07/30/2013	ND	180	90.0	200	3.74		

Surrogate: 1-Chlorooctane 94.1 % 65.2-140
Surrogate: 1-Chlorooctadecane 121 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	07/29/2013	Sampling Date:	07/26/2013
Reported:	08/01/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS SUPPLY LINE AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 5 @ 14' 6" (H301773-02)

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2013	ND	2.12	106	2.00	7.03		
Toluene*	<0.050	0.050	07/30/2013	ND	2.09	104	2.00	6.40		
Ethylbenzene*	<0.050	0.050	07/30/2013	ND	2.19	110	2.00	6.36		
Total Xylenes*	<0.150	0.150	07/30/2013	ND	6.65	111	6.00	6.03		
Total BTEX	<0.300	0.300	07/30/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 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	<16.0	16.0	07/30/2013	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	07/30/2013	ND	186	93.0	200	3.32		
DRO >C10-C28	<10.0	10.0	07/30/2013	ND	197	98.5	200	4.59		

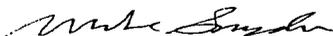
Surrogate: 1-Chlorooctane 92.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 118 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	07/29/2013	Sampling Date:	07/26/2013
Reported:	08/01/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS SUPPLY LINE AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 5 @ 15' (H301773-03)

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/31/2013	ND	2.16	108	2.00	18.1		
Toluene*	<0.050	0.050	07/31/2013	ND	2.20	110	2.00	14.6		
Ethylbenzene*	<0.050	0.050	07/31/2013	ND	2.34	117	2.00	13.0		
Total Xylenes*	<0.150	0.150	07/31/2013	ND	7.07	118	6.00	12.5		
Total BTEX	<0.300	0.300	07/31/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 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	384	16.0	07/30/2013	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	07/30/2013	ND	186	93.0	200	3.32		
DRO >C10-C28	<10.0	10.0	07/30/2013	ND	197	98.5	200	4.59		

Surrogate: 1-Chlorooctane 88.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder, Organic Supervisor

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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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Mike Snyder, Organic Supervisor



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Linn Energy</u>		BILL TO				ANALYSIS REQUEST																		
Project Manager:		P.O. #:																						
Address:		Company:																						
City:	State:	Zip:	Attn:																					
Phone #:	Fax #:		Address:																					
Project #:	Project Owner:		City:																					
Project Name:		State:				Zip:																		
Project Location: <u>Max Friess Supply Line AD</u>		Phone #:																						
Sampler Name: <u>Chris Flores</u>		Fax #:																						
FOR LAB USE ONLY																								
Lab I.D.	Sample I.D.	(C)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL:	OTHER:	DATE	TIME	Chloride	TPH	BTEX							
H30173																								
1	Point 5 @ 7'	G	1			/							7-26-2013	12:30	X	X	X							
2	Point 5 @ 14'6"	G	1			/							7-26-2013	3:15	X	X	X							
3	Point 5 @ 15'	G	1			/							7-26-2013	3:30	X	X	X							

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: <u>7-29-2013</u>	Received By: <u>Jodi Benson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>8:25</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		<u>J Kamplain</u> <u>Iweinheimer</u> <u>C Flores</u>	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No			

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

#50

August 23, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MAX FRIESS SUPPLY LINE AD

Enclosed are the results of analyses for samples received by the laboratory on 07/30/13 8:10.

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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/30/2013	Sampling Date:	07/29/2013
Reported:	08/23/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS SUPPLY LINE AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 6 @ 3' (H301785-01)

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2013	ND	2.04	102	2.00	2.20		
Toluene*	<0.050	0.050	08/01/2013	ND	2.05	102	2.00	1.43		
Ethylbenzene*	<0.050	0.050	08/01/2013	ND	2.15	108	2.00	0.897		
Total Xylenes*	<0.150	0.150	08/01/2013	ND	6.63	110	6.00	1.41		
Total BTEX	<0.300	0.300	08/01/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1150	16.0	07/31/2013	ND	400	100	400	3.92		

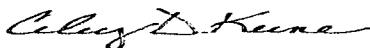
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/31/2013	ND	185	92.3	200	2.16		
DRO >C10-C28	<10.0	10.0	07/31/2013	ND	199	99.3	200	3.94		

Surrogate: 1-Chlorooctane 75.5 % 65.2-140
Surrogate: 1-Chlorooctadecane 94.2 % 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:	07/30/2013	Sampling Date:	07/29/2013
Reported:	08/23/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS SUPPLY LINE AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 6 @ 5' (H301785-02)

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2013	ND	2.04	102	2.00	2.20		
Toluene*	<0.050	0.050	08/01/2013	ND	2.05	102	2.00	1.43		
Ethylbenzene*	<0.050	0.050	08/01/2013	ND	2.15	108	2.00	0.897		
Total Xylenes*	<0.150	0.150	08/01/2013	ND	6.63	110	6.00	1.41		
Total BTEX	<0.300	0.300	08/01/2013	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	2880	16.0	07/31/2013	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	07/31/2013	ND	185	92.3	200	2.16		
DRO >C10-C28	<10.0	10.0	07/31/2013	ND	199	99.3	200	3.94		

Surrogate: 1-Chlorooctane 68.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.7 % 63.6-154

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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:	07/30/2013	Sampling Date:	07/29/2013
Reported:	08/23/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS SUPPLY LINE AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 6 @ 8' 6" (H301785-03)

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2013	ND	2.04	102	2.00	2.20		
Toluene*	<0.050	0.050	08/01/2013	ND	2.05	102	2.00	1.43		
Ethylbenzene*	<0.050	0.050	08/01/2013	ND	2.15	108	2.00	0.897		
Total Xylenes*	<0.150	0.150	08/01/2013	ND	6.63	110	6.00	1.41		
Total BTEX	<0.300	0.300	08/01/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 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	96.0	16.0	07/31/2013	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	07/31/2013	ND	185	92.3	200	2.16		
DRO >C10-C28	<10.0	10.0	07/31/2013	ND	199	99.3	200	3.94		

Surrogate: 1-Chlorooctane 68.4 % 65.2-140
Surrogate: 1-Chlorooctadecane 84.6 % 63.6-154

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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:	07/30/2013	Sampling Date:	07/29/2013
Reported:	08/23/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS SUPPLY LINE AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 6 @ 9' (H301785-04)

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2013	ND	2.04	102	2.00	2.20		
Toluene*	<0.050	0.050	08/01/2013	ND	2.05	102	2.00	1.43		
Ethylbenzene*	<0.050	0.050	08/01/2013	ND	2.15	108	2.00	0.897		
Total Xylenes*	<0.150	0.150	08/01/2013	ND	6.63	110	6.00	1.41		
Total BTEX	<0.300	0.300	08/01/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/31/2013	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	07/31/2013	ND	185	92.3	200	2.16		
DRO >C10-C28	<10.0	10.0	07/31/2013	ND	199	99.3	200	3.94		

Surrogate: 1-Chlorooctane 65.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.7 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

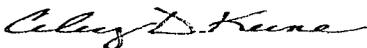
Notes and Definitions

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

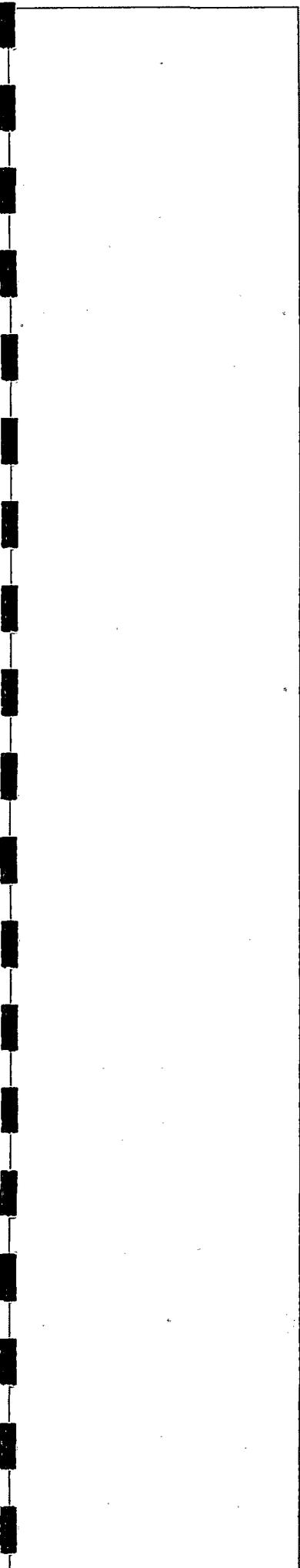
Cardinal Laboratories

*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager

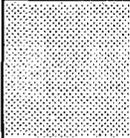


Appendix C

Soil Bore Installation Documentation

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

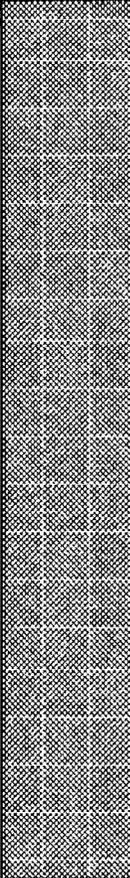
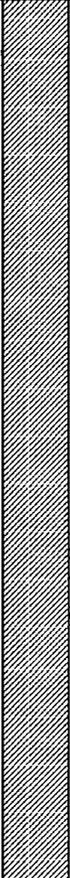
Logger:	Edward Cesareo			
Driller:	Harrison & Cooper, Inc.			
Drilling Method:	Air rotary		Linn Max Friess Supply	Well ID:
Start Date:	8/20/2013		Line	SB-1
End Date:	8/20/2013			
Comments: All samples were from cuttings.		Location: UL/A sec. 30 T21S R31E		
DRAFTED BY: L. Weinheimer TD = 99 ft		GW = None		
		Lat: 32°48'45.797"N Long: 103°54'15.152"W		
		County: Eddy State: NM		

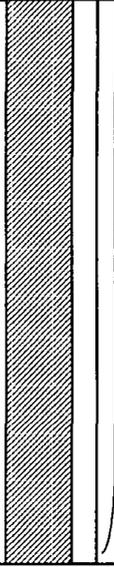
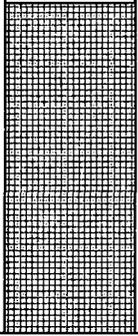
Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
				BROWN SAND		
SS	2575		12.4			
3 ft	1851		5.4			
6 ft	2549		5.2	RED SAND		
9 ft	3089		6.1			
12 ft	3581		5.1			
15 ft	2589		6.9			
18 ft	1958		4.9			
21 ft	3003		4.0			
				RED SAND/ TAN CLAY		
24 ft	3555		7.6			

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
27 ft	3379		6.2			
30 ft	4067		5.7			
33 ft	3427		8.9			
36 ft	2889		6.1	RED SAND		
39 ft	3152		2.6			
42 ft	2481		4.5			
45 ft	3039		1.7			
48 ft	3795		1.3			
51 ft	4469	Cl-5920	1.4	RED SAND / PEA STONE		
	BTEX <0.3	GRO <10				
		DRO <10				
54 ft	3964		1.4			

bentonite seal

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
57 ft	2301		2.3			
60 ft	1431		2.0			
63 ft	1531		1.4			
66 ft	1350		2.1			
69 ft	1552		1.0	RED SAND / PEA STONE		
72 ft	1346		3.5			
75 ft	1129		3.7			
78 ft	891		3.2			
81 ft	883		1.7			
84 ft	871		1.3			

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
				RED SAND / PEA STONE		
87 ft	721		0.8			
90 ft	681		0.5			
93 ft	701		5.7			
96 ft	172	CI-80	2.3			
	BTEX <0.3	GRO <10				
		DRO <10				
99 ft	177	CI-144	2.0			
	BTEX <0.3	GRO <10				
		DRO <10				

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
						
90 ft						
100 ft				RED BED CLAY		
110 ft						
120 ft						

August 28, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MAX FRIESS SUPPLY LINE AD

Enclosed are the results of analyses for samples received by the laboratory on 08/22/13 8:50.

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

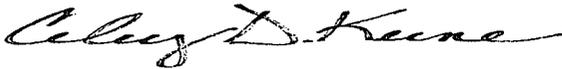
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/22/2013	Sampling Date:	08/20/2013
Reported:	08/28/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS SUPPLY LINE AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB 1 @ 51' (H302009-01)

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2013	ND	2.20	110	2.00	6.60		
Toluene*	<0.050	0.050	08/26/2013	ND	2.14	107	2.00	6.10		
Ethylbenzene*	<0.050	0.050	08/26/2013	ND	2.18	109	2.00	6.27		
Total Xylenes*	<0.150	0.150	08/26/2013	ND	6.47	108	6.00	6.45		
Total BTEX	<0.300	0.300	08/26/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 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	5920	16.0	08/26/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/26/2013	ND	191	95.7	200	3.91		
DRO >C10-C28	<10.0	10.0	08/26/2013	ND	186	93.0	200	5.56		

Surrogate: 1-Chlorooctane 93.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.3 % 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:	08/22/2013	Sampling Date:	08/20/2013
Reported:	08/28/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS SUPPLY LINE AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB 1 @ 96' (H302009-02)

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2013	ND	2.20	110	2.00	6.60		
Toluene*	<0.050	0.050	08/26/2013	ND	2.14	107	2.00	6.10		
Ethylbenzene*	<0.050	0.050	08/26/2013	ND	2.18	109	2.00	6.27		
Total Xylenes*	<0.150	0.150	08/26/2013	ND	6.47	108	6.00	6.45		
Total BTEX	<0.300	0.300	08/26/2013	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	80.0	16.0	08/26/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/26/2013	ND	191	95.7	200	3.91		
DRO >C10-C28	<10.0	10.0	08/26/2013	ND	186	93.0	200	5.56		

Surrogate: 1-Chlorooctane 98.9 % 65.2-140
Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	08/22/2013	Sampling Date:	08/20/2013
Reported:	08/28/2013	Sampling Type:	Soil
Project Name:	MAX FRIESS SUPPLY LINE AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB 1 @ 99' (H302009-03)

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/27/2013	ND	2.20	110	2.00	6.60		
Toluene*	<0.050	0.050	08/27/2013	ND	2.14	107	2.00	6.10		
Ethylbenzene*	<0.050	0.050	08/27/2013	ND	2.18	109	2.00	6.27		
Total Xylenes*	<0.150	0.150	08/27/2013	ND	6.47	108	6.00	6.45		
Total BTEX	<0.300	0.300	08/27/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 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	144	16.0	08/26/2013	ND	416	104	400	0.00		

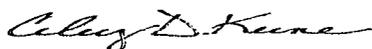
TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/26/2013	ND	191	95.7	200	3.91		
DRO >C10-C28	<10.0	10.0	08/26/2013	ND	186	93.0	200	5.56		

Surrogate: 1-Chlorooctane 95.0 % 65.2-140
Surrogate: 1-Chlorooctadecane 99.1 % 63.6-154

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

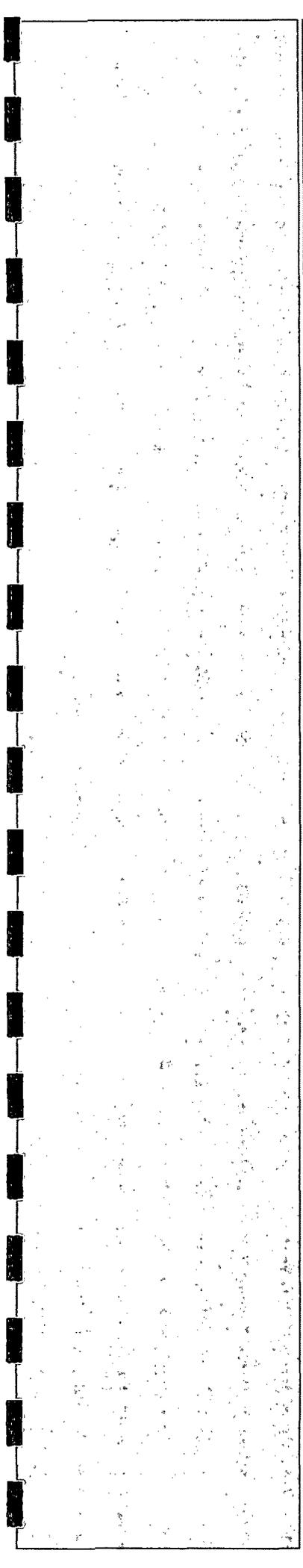
Cardinal Laboratories

*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager



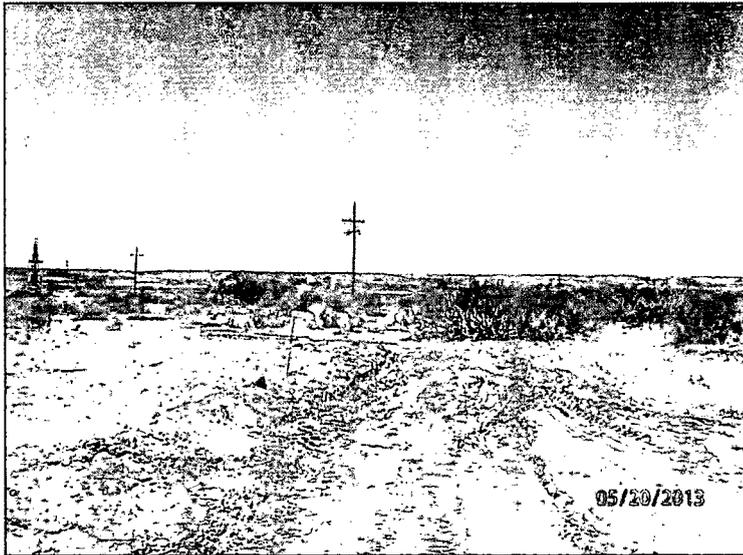
Appendix D

Photo Documentation

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

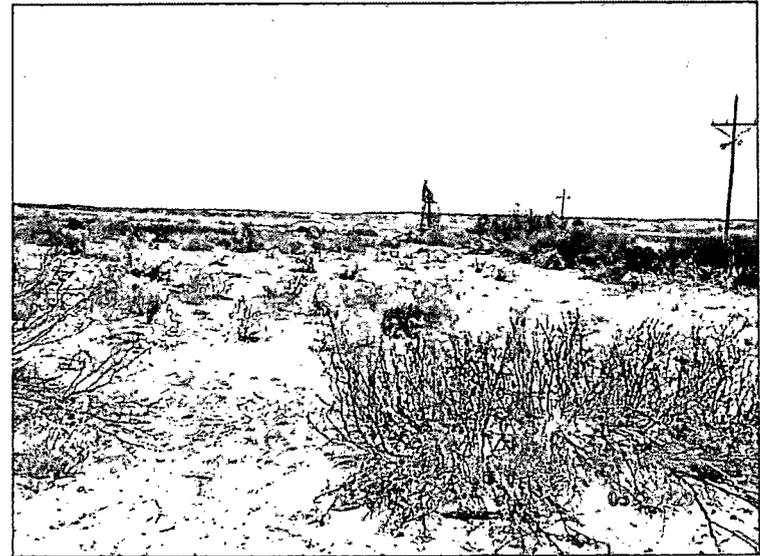
Linn Max Friess Supply Line

Unit Letter P&O sec. 19 and A&B sec. 30, T17S, R31E



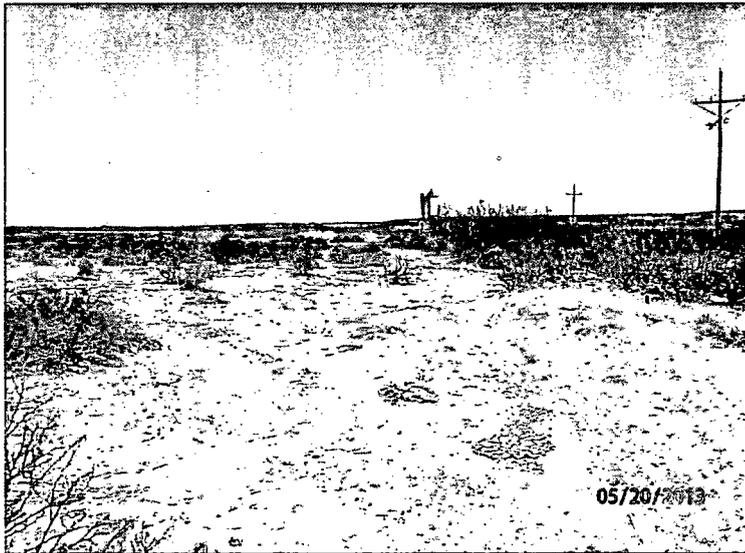
Initial release area, facing west

5/20/13



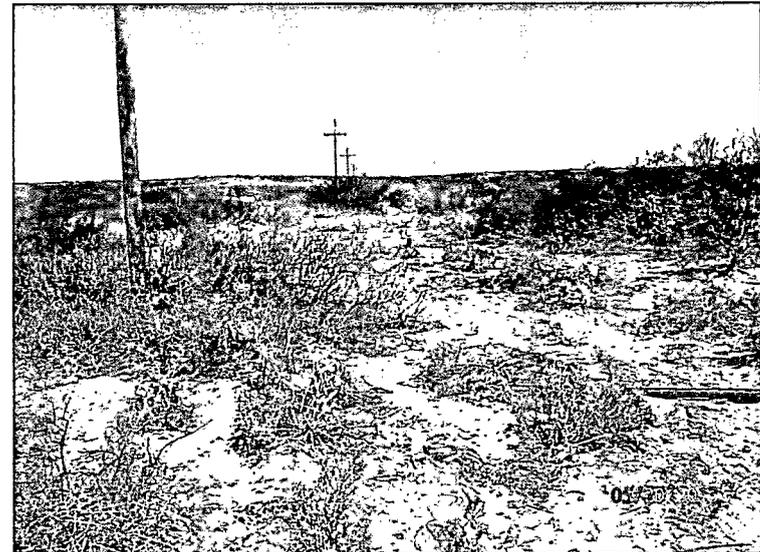
Initial release area, facing southwest

5/20/13



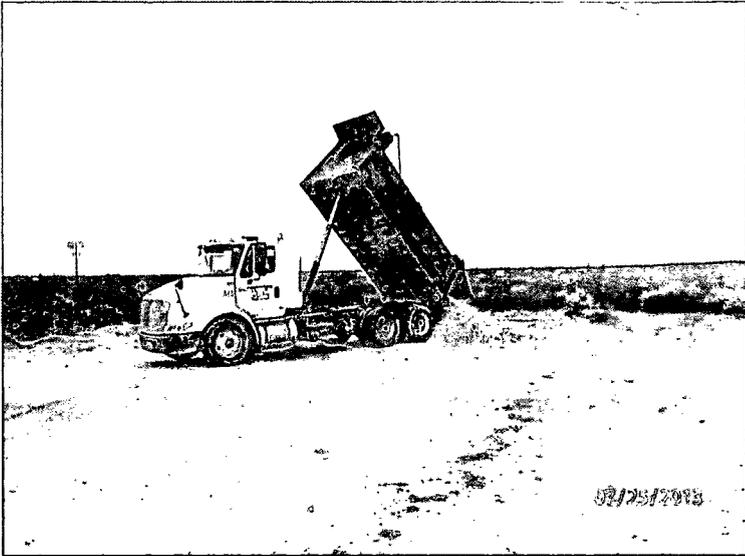
Initial release area, facing southwest

5/20/13



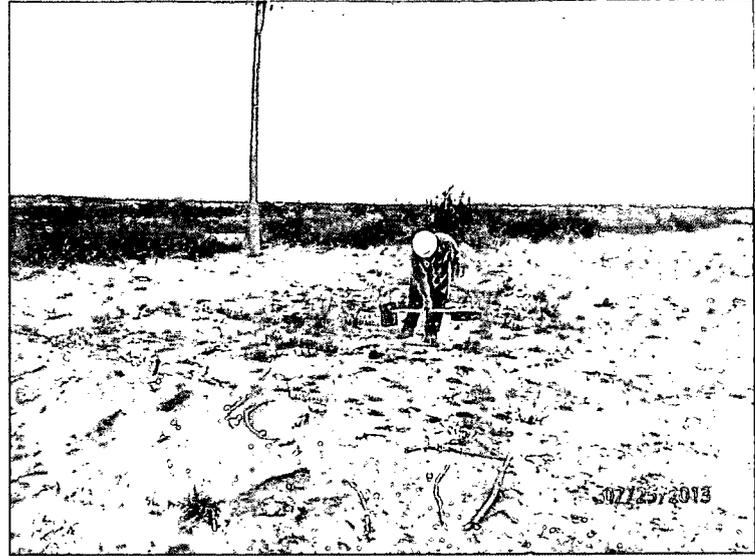
Initial release area, facing east

5/20/13



Importing soil, facing northeast

7/25/13



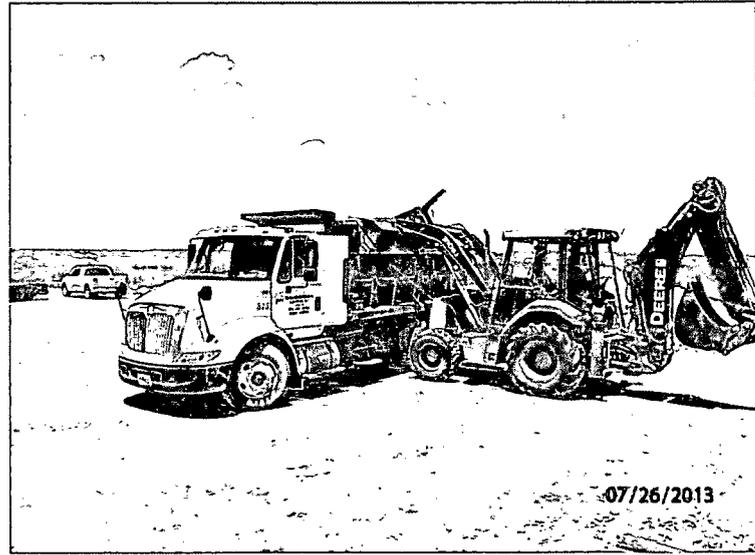
Spotting lines, facing northeast

7/25/13



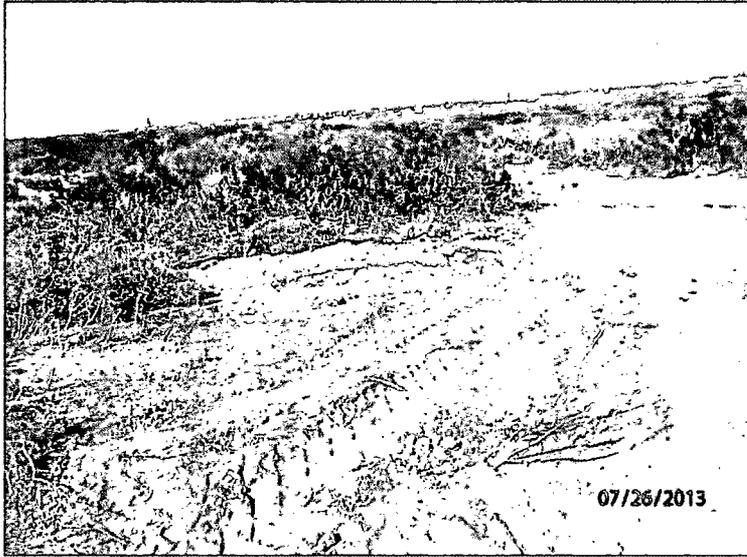
Installing verticals, facing east

7/26/13



Exporting soil, facing northwest

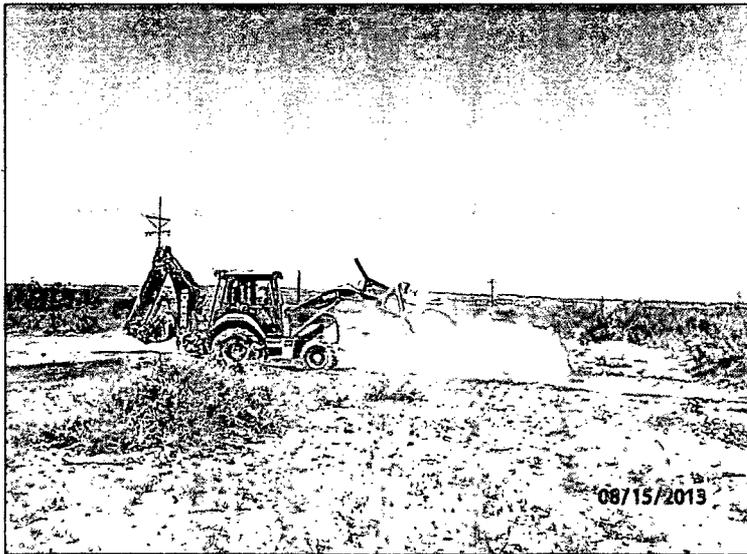
7/26/13



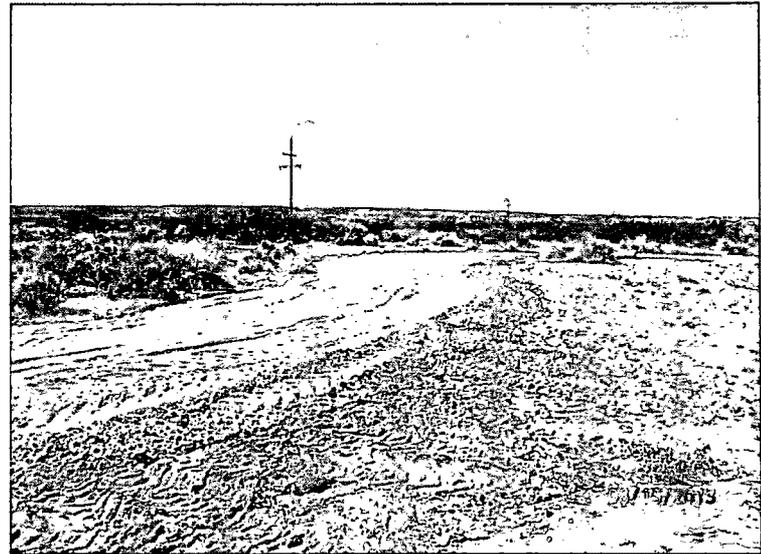
Verticals backfilled with caliche, facing NW 7/26/13



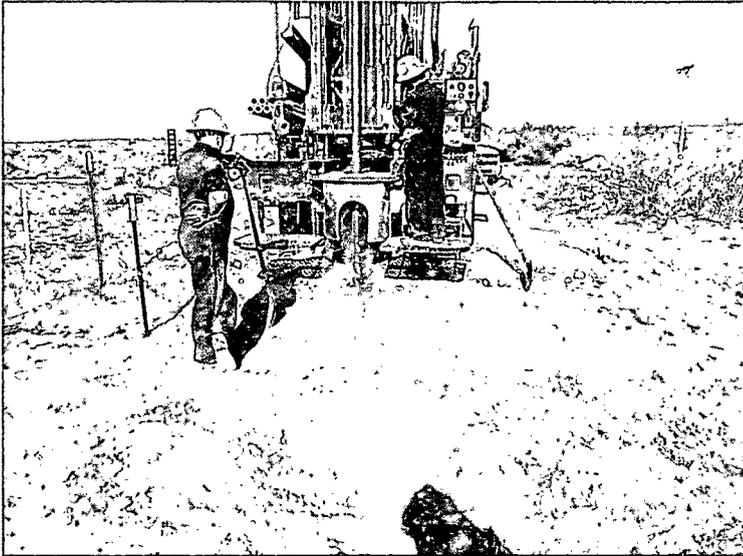
Obtaining composite sample of spoil pile, facing east 7/29/13



Building caliche road for SB installation, facing NW 8/15/13

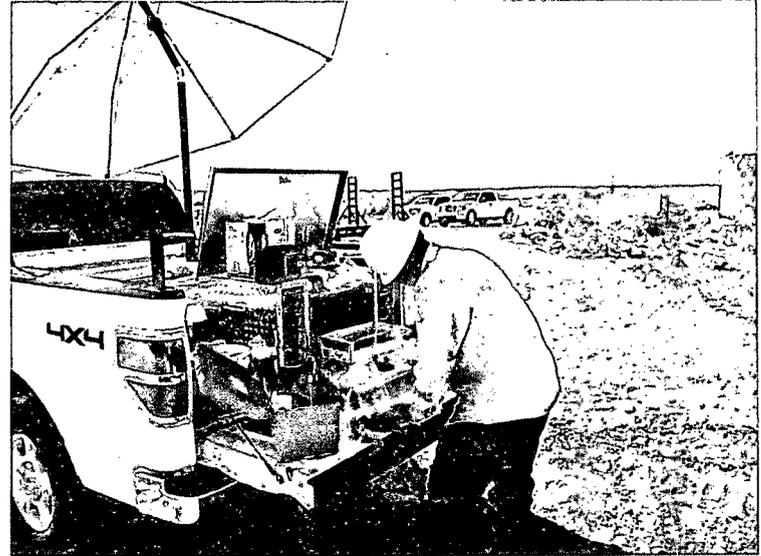


Caliche road completed, facing north 8/15/13



Drilling SB-1, facing west

8/20/13



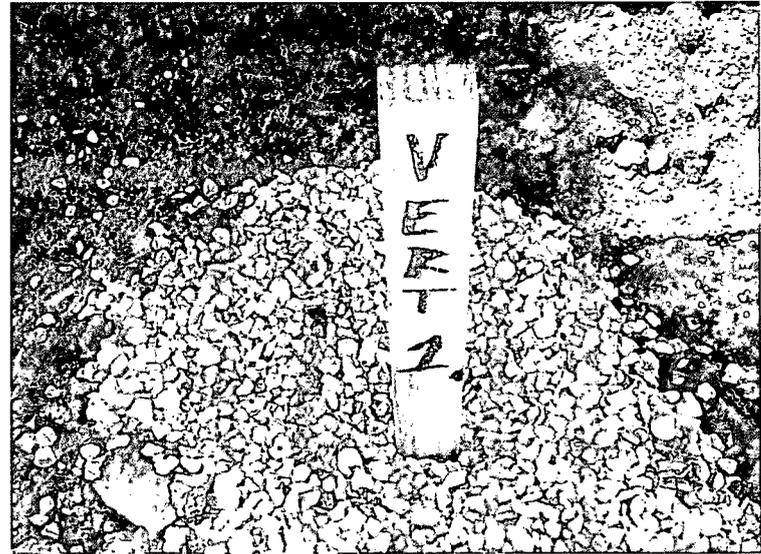
Field testing soil sample, facing south

8/20/13



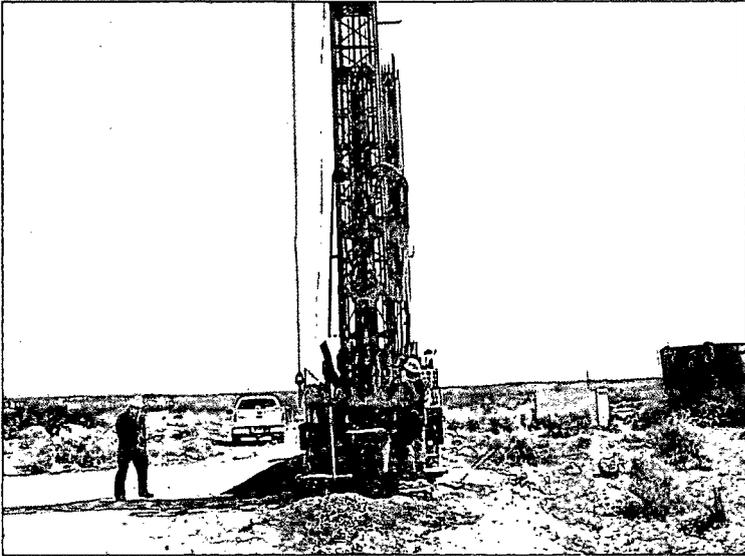
Plugging SB-1 in total with bentonite

8/20/13



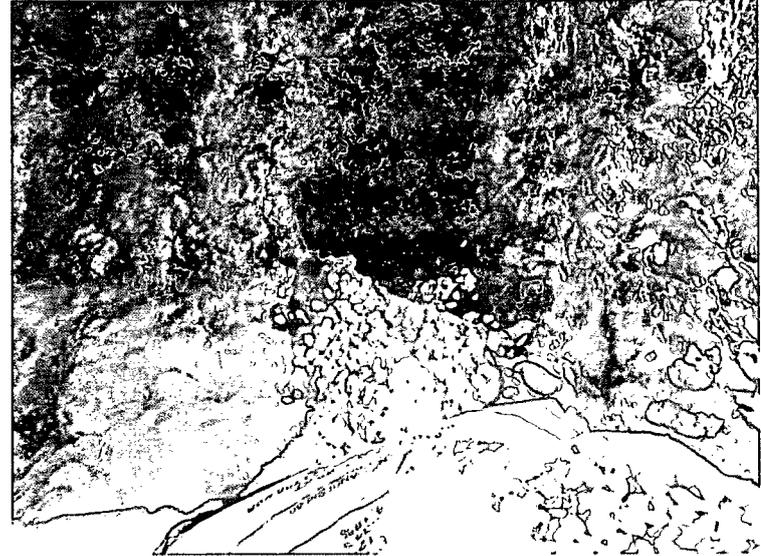
Completed SB-1

8/20/13



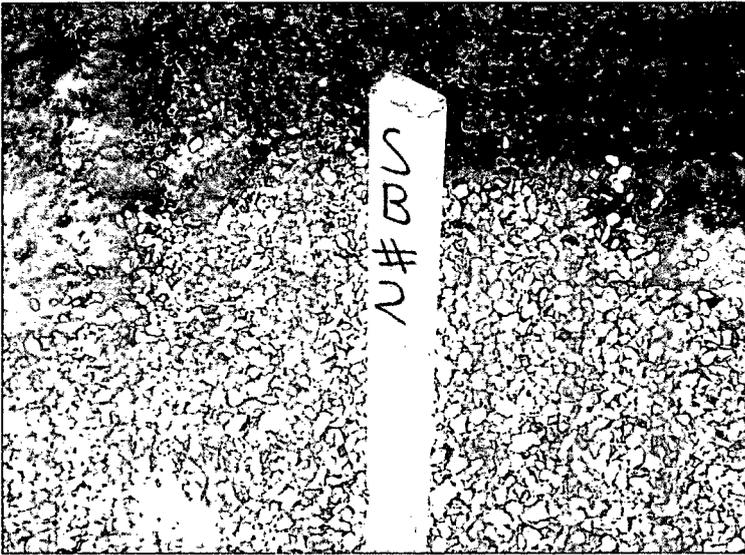
Drilling SB-2, facing south

8/20/13



Plugging SB-2 in total with bentonite

8/20/13



Completed SB-2

8/20/13