

LINN ENERGY

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

Hudson Federal #006 (2RP-743)

Corrective Action Plan

API No. 30-015-26008

Release Date: March 30th, 2011

Unit Letter I, Section 18, Township 17S, Range 31E

Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241
Phone 575.393.2967

November 12th, 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 – Hudson Federal #006 (2RP-743)
UL/I sec. 18 T17S R31E
API No. 30-015-26008**

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 4.5 miles northeast of Loco Hills, New Mexico at UL/I sec. 18 T17S R31E. This site is in an area of no known groundwater.

On March 30th, 2011, Linn had a produced water release that occurred when a clamp failed on the Russell Battery transfer line. A total of 100 barrels of produced water was released over 14,833 sq ft of pasture land and lease pad. A vacuum truck was called to the site and recovered 90 barrels of produced water. BLM was notified of the release on March 30th, 2011 and NMOCD approved the initial C-141 on April 14th, 2011 (Appendix A).

RECS personnel arrived on site on October 15th, 2013 to assess the site. Surface samples and samples at a depth of 1 ft bgs were taken at seven points within the release area (Figure 1). The samples were field tested for chlorides and hydrocarbons and the samples were taken to a commercial laboratory for analysis (Appendix B). All samples returned laboratory chloride results less than 250 mg/kg and Gasoline Range Organics (GRO) and BTEX results of non-detect. Diesel Range Organics (DRO) results were slightly elevated but were below regulatory standards.

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

Corrective Action Plan

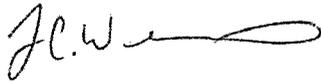
Given that all samples at all depths were below regulatory standards, RECS recommends that the site be scraped 3 – 6 inches to remove the asphaltine from the surface of the site. This scraped material will be sent to a NMOCD approved facility for disposal. Clean soil

will be imported to the site to backfill the scrape and bring the site to surface level. The site will be contoured to the surrounding location. The site will then 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.

Once the CAP activities are completed, Linn will submit a report detailing the CAP activities and a request for 'remediation termination' or site closure.

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.' followed by a stylized flourish.

Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

Attachments:

- Figure 1 – Augur Sampling Data
- Appendix A – Initial C-141
- Appendix B – Laboratory Analyses
- Appendix C – Photo Documentation

Figures

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

Auger Sampling Data

Point 1	Cl-	PID	GRO	DRO	B	T	E	X	BTEX
Surface	48	0.4	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
1'	<16	11	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

Point 2	Cl-	PID	GRO	DRO	B	T	E	X	BTEX
Surface	128	0.8	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
1'	144	9.2	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

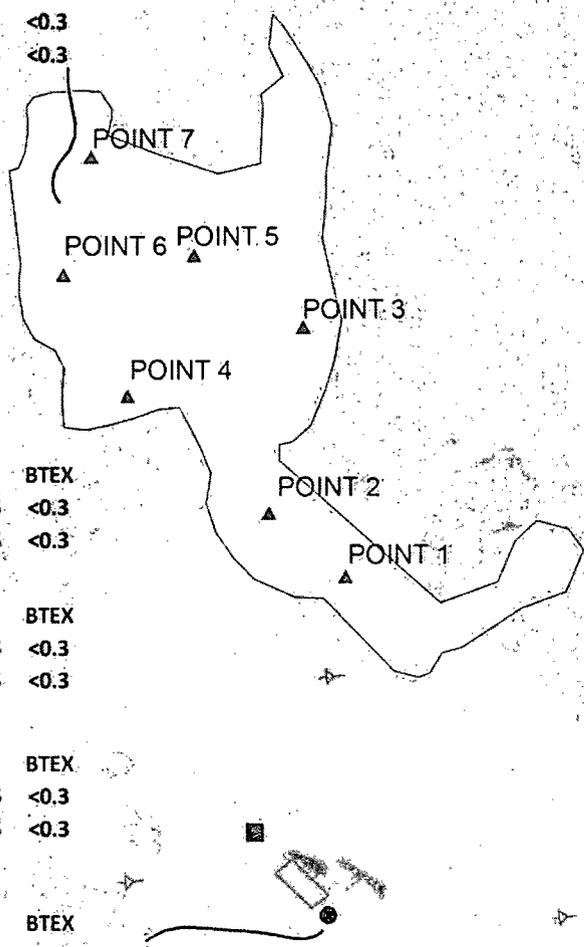
Point 3	Cl-	PID	GRO	DRO	B	T	E	X	BTEX
Surface	64	0.1	<10	126	<0.05	<0.05	<0.05	<0.15	<0.3
1'	32	11.2	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

Point 4	Cl-	PID	GRO	DRO	B	T	E	X	BTEX
Surface	160	0.3	<10	2530	<0.05	<0.05	<0.05	<0.15	<0.3
1'	64	9.1	<10	23.5	<0.05	<0.05	<0.05	<0.15	<0.3

Point 5	Cl-	PID	GRO	DRO	B	T	E	X	BTEX
Surface	96	0.6	<50	1400	<0.05	<0.05	<0.05	<0.15	<0.3
1'	<16	15.5	<50	925	<0.05	<0.05	<0.05	<0.15	<0.3

Point 6	Cl-	PID	GRO	DRO	B	T	E	X	BTEX
Surface	192	0.6	<10	273	<0.05	<0.05	<0.05	<0.15	<0.3
1'	160	8.9	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

Point 7	Cl-	PID	GRO	DRO	B	T	E	X	BTEX
Surface	32	0.8	<10	1250	<0.05	<0.05	<0.05	<0.15	<0.3
1'	<16	6.4	<50	<50	<0.05	<0.05	<0.05	<0.15	<0.3



Legend

- ▲ POINT
- ✕ DEADMAN
- ELECTRICAL BOX
- WELLHEAD
- SURFACE POLY PIPELINE
- ▭ PUMP JACK
- ▭ STAIN (14,833 sq ft)

Landowner: BLM

DGW: None

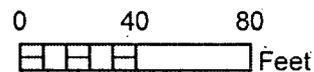
Source: Esri, DigitalGlobe, GeoEye, AeroGRID, IGN, etc.



**LINN HUDSON
FEDERAL #006
2RP-743**

LEGALS: UL/I sec. 18
T-17-S R-31-E
EDDY COUNTY, NM

Figure 1



GPS date: 10/15/13 KS
Drawing date: 10/30/13
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

RECEIVED
APR 13 2011
NMOCD ARTESIA

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

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

Form C-141
 Revised October 10, 2003
 Copies to appropriate
 District Office in accordance
 with Rule 116 on back
 side of form.

Release Notification and Corrective Action

NMOCD-1110431190 **OPERATOR** Initial Report Final Report

Name of Company: Linn Energy	Contact: Dennis Potter
Address: PO Box 69, Loco Hills, NM 88255	Telephone No: 575.677.2327
Facility Name: Hudson Federal #06	Facility Type: Injection Well

Surface Owner: BLM	Mineral Owner: BLM	Lease No: NMLC054908 API 30-015-26008
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
11	T8	17S	5E					Eddy

Latitude N32:8343 Longitude W103:0040 (at clamp in tin horn)

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 100bbls Water	Volume Recovered: 90bbls Water
Source of Release: Produced Water Line	Date and Hour of Occurrence: 30 Mar 11 1100hrs	Date and Hour of Discovery: 30 Mar 11 1100
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Terry Gregston - BLM	
By Whom? Dennis Potter	Date and Hour: 30 Mar 11 11:500hrs	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse: N/A	

Immediate Notification Required
 to OCD for 725 bbls

If a Watercourse was Impacted, Describe Fully:
 N/A

Describe Cause of Problem and Remedial Action Taken:
 The release was the result of a clamp failure on the Russell Battery Transfer Line. A vac truck was immediately called and on site to vac up all free standing liquid. A backhoe was used to build an earthen dike in order to reduce spreading of water. The affected area is approximately 20' x 300'. The area will be delineated and a work plan will be submitted to NMOCD and BLM for review and approval.

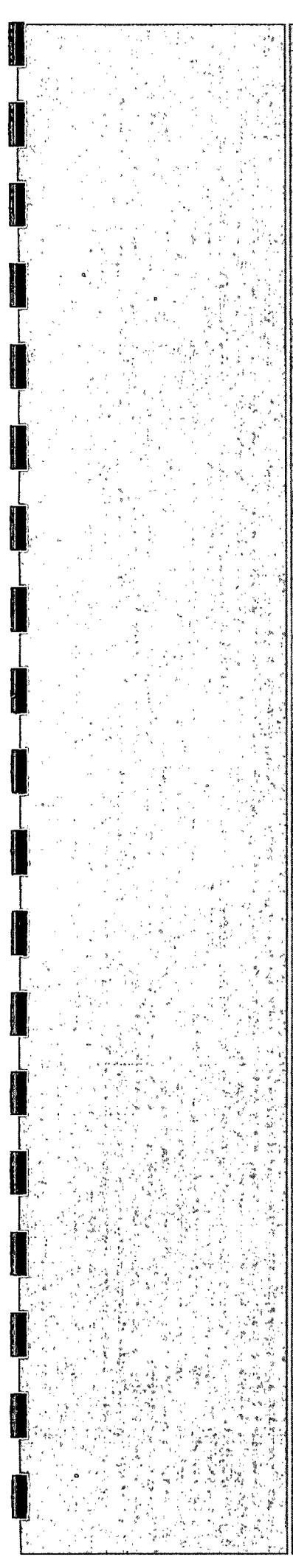
Describe Area Affected and Cleanup Action Taken:
 (Blank)

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>Dennis J. Potter</i>	OIL CONSERVATION DIVISION	
Printed Name: Dennis Potter	Approved by: Signed By: <i>Mike Berman</i>	
Title: Assistant Production Foreman	Approval Date: <i>4/14/2011</i>	Expiration Date:
E-mail Address: dpotter@linnenergy.com	Conditions of Approval:	
Date: 13 April Phone: 505.206.7673	Attached: <input type="checkbox"/>	

Remediation per OGD Rules &
 Guidelines. **SUBMIT REMEDIATION
 PROPOSAL NOT LATER THAN:**
5/14/2011

DRP = 743



Appendix B

Laboratory Analyses

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

October 29, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: HUDSON FEDERAL #006 2RP-743

Enclosed are the results of analyses for samples received by the laboratory on 10/25/13 16:20.

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

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:	10/25/2013	Sampling Date:	10/15/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 1 @ SURFACE (H302604-01)

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	10/28/2013	ND	2.16	108	2.00	2.91		
Toluene*	<0.050	0.050	10/28/2013	ND	2.20	110	2.00	2.57		
Ethylbenzene*	<0.050	0.050	10/28/2013	ND	2.21	110	2.00	2.96		
Total Xylenes*	<0.150	0.150	10/28/2013	ND	6.39	106	6.00	3.57		
Total BTEX	<0.300	0.300	10/28/2013	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	48.0	16.0	10/29/2013	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	10/29/2013	ND	197	98.6	200	2.61		
DRO >C10-C28	<10.0	10.0	10/29/2013	ND	188	94.1	200	1.30		

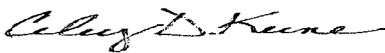
Surrogate: 1-Chlorooctane 82.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.1 % 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:	10/25/2013	Sampling Date:	10/15/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 2 @ SURFACE (H302604-02)

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	10/28/2013	ND	2.16	108	2.00	2.91		
Toluene*	<0.050	0.050	10/28/2013	ND	2.20	110	2.00	2.57		
Ethylbenzene*	<0.050	0.050	10/28/2013	ND	2.21	110	2.00	2.96		
Total Xylenes*	<0.150	0.150	10/28/2013	ND	6.39	106	6.00	3.57		
Total BTEX	<0.300	0.300	10/28/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 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	128	16.0	10/29/2013	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	10/29/2013	ND	197	98.6	200	2.61		
DRO >C10-C28	<10.0	10.0	10/29/2013	ND	188	94.1	200	1.30		

Surrogate: 1-Chlorooctane 88.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.3 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	10/25/2013	Sampling Date:	10/15/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 3 @ SURFACE (H302604-03)

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	10/28/2013	ND	2.16	108	2.00	2.91		
Toluene*	<0.050	0.050	10/28/2013	ND	2.20	110	2.00	2.57		
Ethylbenzene*	<0.050	0.050	10/28/2013	ND	2.21	110	2.00	2.96		
Total Xylenes*	<0.150	0.150	10/28/2013	ND	6.39	106	6.00	3.57		
Total BTEX	<0.300	0.300	10/28/2013	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	64.0	16.0	10/29/2013	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	10/29/2013	ND	197	98.6	200	2.61		
DRO >C10-C28	126	10.0	10/29/2013	ND	188	94.1	200	1.30		

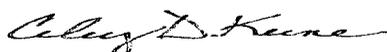
Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 JACOB KAMPLAIN
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 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	10/25/2013	Sampling Date:	10/15/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 4 @ SURFACE (H302604-04)

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	10/29/2013	ND	2.16	108	2.00	2.91		
Toluene*	<0.050	0.050	10/29/2013	ND	2.20	110	2.00	2.57		
Ethylbenzene*	<0.050	0.050	10/29/2013	ND	2.21	110	2.00	2.96		
Total Xylenes*	<0.150	0.150	10/29/2013	ND	6.39	106	6.00	3.57		
Total BTEX	<0.300	0.300	10/29/2013	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	160	16.0	10/29/2013	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<100	100	10/29/2013	ND	197	98.6	200	2.61			
DRO >C10-C28	2530	100	10/29/2013	ND	188	94.1	200	1.30			

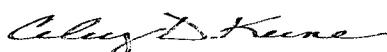
Surrogate: 1-Chlorooctane 100 % 65.2-140

Surrogate: 1-Chlorooctadecane 374 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 Fax To: (575) 397-1471

Received:	10/25/2013	Sampling Date:	10/15/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 5 @ SURFACE (H302604-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/29/2013	ND	2.16	108	2.00	2.91	
Toluene*	<0.050	0.050	10/29/2013	ND	2.20	110	2.00	2.57	
Ethylbenzene*	<0.050	0.050	10/29/2013	ND	2.21	110	2.00	2.96	
Total Xylenes*	<0.150	0.150	10/29/2013	ND	6.39	106	6.00	3.57	
Total BTEX	<0.300	0.300	10/29/2013	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	96.0	16.0	10/29/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	10/29/2013	ND	197	98.6	200	2.61		
DRO >C10-C28	1400	50.0	10/29/2013	ND	188	94.1	200	1.30		

Surrogate: 1-Chlorooctane 89.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 211 % 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:	10/25/2013	Sampling Date:	10/15/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 6 @ SURFACE (H302604-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/29/2013	ND	2.16	108	2.00	2.91		
Toluene*	<0.050	0.050	10/29/2013	ND	2.20	110	2.00	2.57		
Ethylbenzene*	<0.050	0.050	10/29/2013	ND	2.21	110	2.00	2.96		
Total Xylenes*	<0.150	0.150	10/29/2013	ND	6.39	106	6.00	3.57		
Total BTEX	<0.300	0.300	10/29/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 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	192	16.0	10/29/2013	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	10/29/2013	ND	210	105	200	1.98		
DRO >C10-C28	273	10.0	10/29/2013	ND	202	101	200	1.03		

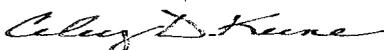
Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 127 % 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:	10/25/2013	Sampling Date:	10/15/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 7 @ SURFACE (H302604-07)

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	10/29/2013	ND	2.16	108	2.00	2.91		
Toluene*	<0.050	0.050	10/29/2013	ND	2.20	110	2.00	2.57		
Ethylbenzene*	<0.050	0.050	10/29/2013	ND	2.21	110	2.00	2.96		
Total Xylenes*	<0.150	0.150	10/29/2013	ND	6.39	106	6.00	3.57		
Total BTEX	<0.300	0.300	10/29/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 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	32.0	16.0	10/29/2013	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	10/29/2013	ND	210	105	200	1.98		
DRO >C10-C28	1250	10.0	10/29/2013	ND	202	101	200	1.03		

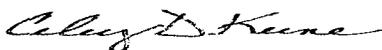
Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 137 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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

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Celey D. Keene, Lab Director/Quality Manager

October 23, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: HUDSON FEDERAL #006 2RP-743

Enclosed are the results of analyses for samples received by the laboratory on 10/18/13 15:50.

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:	10/18/2013	Sampling Date:	10/18/2013
Reported:	10/23/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 1 1' (H302532-01)

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	10/22/2013	ND	2.14	107	2.00	0.577		
Toluene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.813		
Ethylbenzene*	<0.050	0.050	10/22/2013	ND	2.16	108	2.00	0.211		
Total Xylenes*	<0.150	0.150	10/22/2013	ND	6.37	106	6.00	0.365		
Total BTEX	<0.300	0.300	10/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 99.9 % 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	10/21/2013	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	10/22/2013	ND	200	99.9	200	3.36		
DRO >C10-C28	<10.0	10.0	10/22/2013	ND	192	95.9	200	2.97		

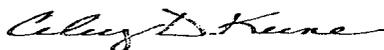
Surrogate: 1-Chlorooctane 116 % 65.2-140

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:	10/18/2013	Sampling Date:	10/18/2013
Reported:	10/23/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 2 1' (H302532-02)

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	10/22/2013	ND	2.14	107	2.00	0.577		
Toluene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.813		
Ethylbenzene*	<0.050	0.050	10/22/2013	ND	2.16	108	2.00	0.211		
Total Xylenes*	<0.150	0.150	10/22/2013	ND	6.37	106	6.00	0.365		
Total BTEX	<0.300	0.300	10/22/2013	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	144	16.0	10/21/2013	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	10/22/2013	ND	200	99.9	200	3.36		
DRO >C10-C28	<10.0	10.0	10/22/2013	ND	192	95.9	200	2.97		

Surrogate: 1-Chlorooctane 126 % 65.2-140

Surrogate: 1-Chlorooctadecane 138 % 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:	10/18/2013	Sampling Date:	10/18/2013
Reported:	10/23/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 3 1' (H302532-03)

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	10/22/2013	ND	2.14	107	2.00	0.577	
Toluene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.813	
Ethylbenzene*	<0.050	0.050	10/22/2013	ND	2.16	108	2.00	0.211	
Total Xylenes*	<0.150	0.150	10/22/2013	ND	6.37	106	6.00	0.365	
Total BTEX	<0.300	0.300	10/22/2013	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	32.0	16.0	10/21/2013	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	10/22/2013	ND	200	99.9	200	3.36	
DRO >C10-C28	<10.0	10.0	10/22/2013	ND	192	95.9	200	2.97	

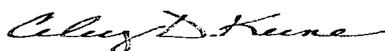
Surrogate: 1-Chlorooctane 93.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 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:	10/18/2013	Sampling Date:	10/18/2013
Reported:	10/23/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 4 1' (H302532-04)

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	10/22/2013	ND	2.14	107	2.00	0.577	
Toluene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.813	
Ethylbenzene*	<0.050	0.050	10/22/2013	ND	2.16	108	2.00	0.211	
Total Xylenes*	<0.150	0.150	10/22/2013	ND	6.37	106	6.00	0.365	
Total BTEX	<0.300	0.300	10/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 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	64.0	16.0	10/21/2013	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	10/22/2013	ND	200	99.9	200	3.36	
DRO >C10-C28	23.5	10.0	10/22/2013	ND	192	95.9	200	2.97	

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 118 % 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:	10/18/2013	Sampling Date:	10/18/2013
Reported:	10/23/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 5 1' (H302532-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.577		
Toluene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.813		
Ethylbenzene*	<0.050	0.050	10/22/2013	ND	2.16	108	2.00	0.211		
Total Xylenes*	<0.150	0.150	10/22/2013	ND	6.37	106	6.00	0.365		
Total BTEX	<0.300	0.300	10/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 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	<16.0	16.0	10/21/2013	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<50.0	50.0	10/22/2013	ND	200	99.9	200	3.36			
DRO >C10-C28	925	50.0	10/22/2013	ND	192	95.9	200	2.97			

Surrogate: 1-Chlorooctane 73.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 184 % 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:	10/18/2013	Sampling Date:	10/18/2013
Reported:	10/23/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 6 1' (H302532-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.577		
Toluene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.813		
Ethylbenzene*	<0.050	0.050	10/22/2013	ND	2.16	108	2.00	0.211		
Total Xylenes*	<0.150	0.150	10/22/2013	ND	6.37	106	6.00	0.365		
Total BTEX	<0.300	0.300	10/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 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	160	16.0	10/21/2013	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	10/22/2013	ND	200	99.9	200	3.36		
DRO >C10-C28	<10.0	10.0	10/22/2013	ND	192	95.9	200	2.97		

Surrogate: 1-Chlorooctane 96.1 % 65.2-140
Surrogate: 1-Chlorooctadecane 106 % 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:	10/18/2013	Sampling Date:	10/18/2013
Reported:	10/23/2013	Sampling Type:	Soil
Project Name:	HUDSON FEDERAL #006 2RP-743	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 7 1' (H302532-07)

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	10/22/2013	ND	2.14	107	2.00	0.577		
Toluene*	<0.050	0.050	10/22/2013	ND	2.14	107	2.00	0.813		
Ethylbenzene*	<0.050	0.050	10/22/2013	ND	2.16	108	2.00	0.211		
Total Xylenes*	<0.150	0.150	10/22/2013	ND	6.37	106	6.00	0.365		
Total BTEX	<0.300	0.300	10/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PII) 100 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/21/2013	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	<50.0	50.0	10/22/2013	ND	200	99.9	200	3.36		
DRO >C10-C28	<50.0	50.0	10/22/2013	ND	192	95.9	200	2.97		

Surrogate: 1-Chlorooctane 96.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 138 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

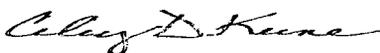
Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



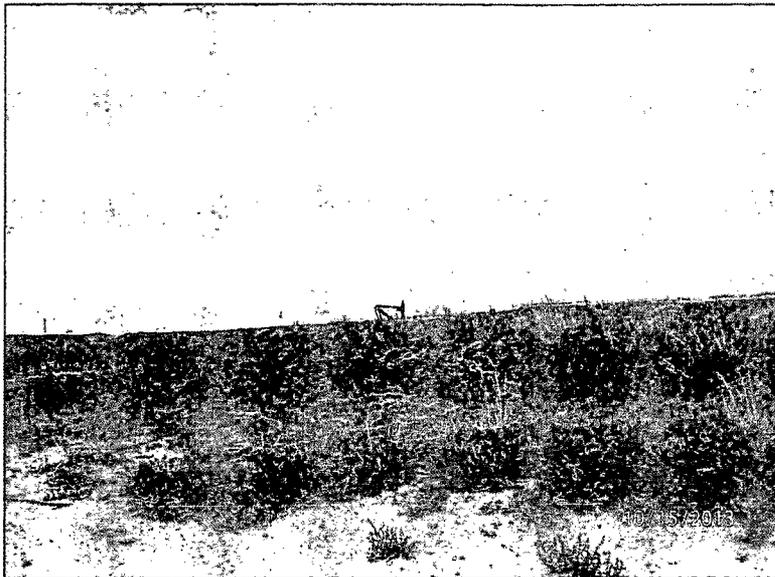
Appendix C

Photo Documentation

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

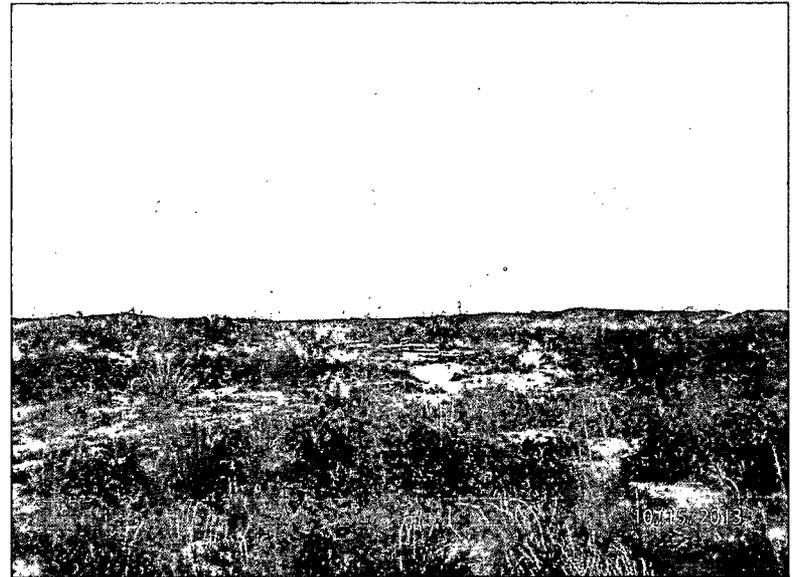
Linn Hudson Federal #006

Unit Letter I, Section 18, T17S, R31E



Initial site photo, facing northeast

10/15/13



Initial site photo, facing north

10/15/13



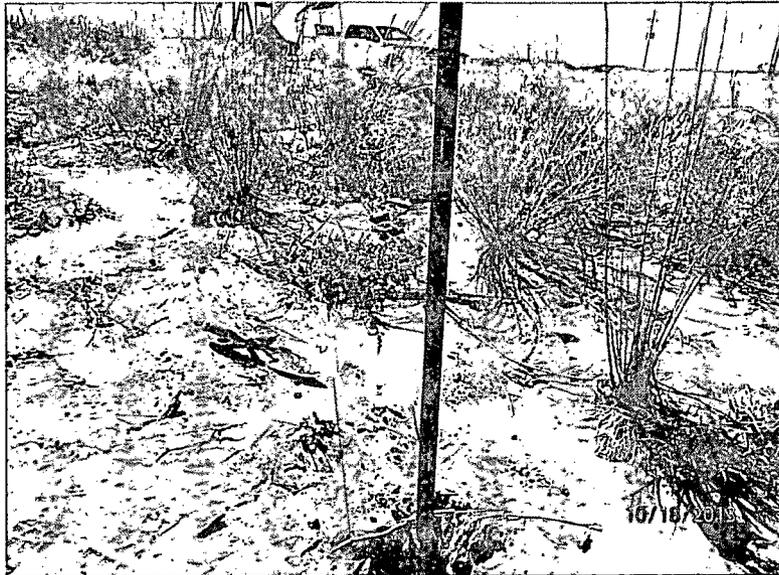
Initial site photo, facing south

10/15/13

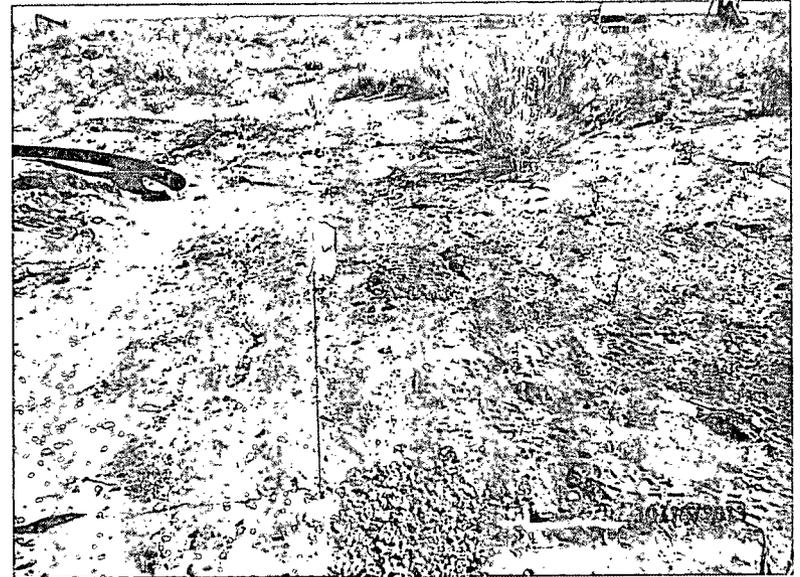


Initial site photo, facing southwest

10/15/13



Auguring for depth, facing southeast 10/18/13



Plugging augur point in total with bentonite, facing southeast 10/18/13