

LINN ENERGY

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



Turner B #93 (2RP-1878)

Termination Request

API No. 30-015-26611

Release Date: December 3rd, 2013

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

Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241

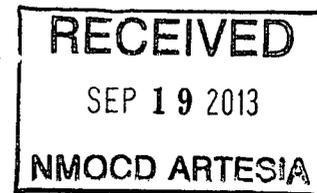
Phone 575.393.2967

September 18th, 2013

Mike Bratcher

New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau – District 2
811 S. First St.
Artesia, NM 88210

**RE: Termination Request
Linn Energy – Turner B #93 (2RP-1878)
UL/N sec. 20 T17S R31E
API No. 30-015-26611**



Mr. Bratcher:

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

Background and Previous Work

The site is located 5 miles east of Loco Hills, NM in UL/N sec. 20 T17S R31E. NM OSE and BLM records indicate the groundwater would likely be encountered at a depth of approximately 188 ft bgs. On December 3rd, 2013 a release occurred from the stuffing box of the well, which released a total of 4 barrels of produced water. The well was re-packed and BLM was notified of the release on December 4th, 2013. An initial C-141 was submitted to NMOCD on August 29th, 2013 (Appendix A).

RECS personnel arrived on site on December 5th, 2012 to begin work at the Turner B #93. The release area had already been scraped down six inches, thus samples were taken from the surface of the six inch scrape. Four samples were taken throughout the release area and taken to a commercial laboratory for analysis (Figure 1). Laboratory chloride levels were elevated at all four points; however, GRO, DRO and BTEX readings were low (Appendix B). On February 26th, 2013, three of the four points were augured down for depth. These samples were taken to a commercial laboratory for analysis (Figure 2). In the three augur points, chloride levels decreased with depth and GRO, DRO and BTEX remained low throughout (Appendix C).

On May 3rd, 2013, a Corrective Action Plan (CAP) was submitted to NMOCD and BLM which was approved on May 23rd, 2013. As part of the CAP, RECS recommended that the release area around Point #1 would be excavated to a maximum depth of 2 ft bgs or to a laboratory chloride reading of 1,000 mg/kg. Point #2 would be scraped to a depth of 1 ft or to a laboratory chloride reading of 1,000 mg/kg. Point #3 and Point #4, which are located in a 4 ft ravine would not be excavated since to do so will compromise the natural landscape of the area and present a safety hazard to equipment and personnel. Final chloride and hydrocarbon samples would be taken in the final excavated areas around

Point #1 and Point #2 and sent to a commercial laboratory for analysis. The site would then be backfilled with clean, imported soil.

BLM approved the CAP with stipulations. They stated that the areas around Points #3 and #4 needed to be excavated to a clean depth, then the sidewalls knocked down to a 3 to 1 slope. The site would need to be seeded with LPC seed mix, and any damage to the pad and road would need to be repaired. Finally, the location would need to be bermed to help prevent this type of release event from running off the pad into the pasture.

On July 7th, 2013, RECS personnel were on site to begin the approved CAP actions. The release area was excavated down to 1 ft bgs and field samples were taken and tested for chlorides and hydrocarbons. Based on this data, parts of the release area were excavated further until chloride field samples returned results below 1,000 mg/kg. A total of 156 yards of excavated material was taken to a NMOCD approved facility for disposal.

BLM gave verbal permission on July 22nd, 2013 for RECS to take final samples of the excavation. On July 23rd, 2013 final samples were taken throughout the excavation and taken to a commercial laboratory for analysis of chlorides, hydrocarbons and BTEX (Figure 3). Laboratory results of the excavation showed chloride levels below 1,000 mg/kg and low GRO, DRO and BTEX readings (Appendix D). RECS submitted the final data to BLM and NMOCD on July 30th, 2013 and asked for permission to backfill the site. BLM gave permission to backfill the site on July 31st, 2013 and NMOCD gave permission to backfill the site on August 9th, 2013.

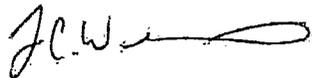
On August 21st, 2013, the lease pad was backfilled and berms were erected around the site with 216 yards of clean, imported caliche. The ravine sidewalls were knocked down to a 3 to 1 slope. On August 23rd, soil amendments were added to the site and the site was seeded with LPC seed mix.

Photo documentation of all activities can be found in Appendix E.

Due to the removal of impacted soils as approved by the Corrective Action Plan and the site backfilled with clean, imported soil, RECS, on behalf of Linn Energy, submits the final C-141 (Appendix F) and respectfully requests the closure of the regulatory file for this site.

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,



Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

Attachments:

Figure 1 – Initial Sampling Data

Figure 2 – Augur Data

Figure 3 – Excavation Map

Appendix A – Initial C-141

Appendix B – Initial Sampling Lab

Appendix C – Augur Sampling Lab

Appendix D – Final Sampling Lab

Appendix E – Photo Documentation

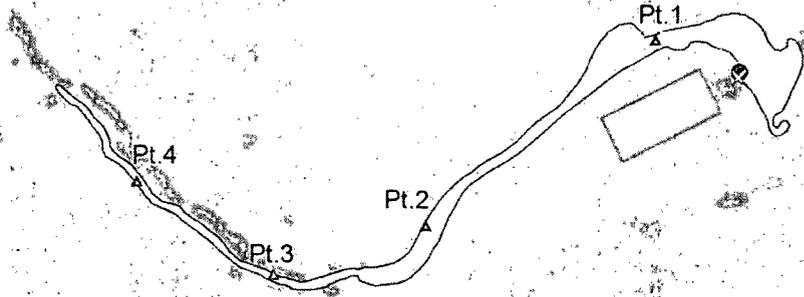
Appendix F – Final C-141

Figures

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

Initial Sampling Data

Sample Description	Lab Cl-	PID	GRO	DRO	B	T	E	X	Total BTEX
Pt. 1 @ 6"	9600	2.6	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
Pt. 2 @ 6"	3920	1	<10	26.9	<0.05	<0.05	<0.05	<0.15	<0.3
Pt. 3 @ 6"	3880	2.1	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
Pt. 4 @ 6"	1120	1	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3



Legend

- ▲ SAMPLE POINT
- × SOURCE
- WELLHEAD
- PUMPJACK
- ▭ STAIN (1,151 SQ FT)

DGW = 188 ft
Landowner = BLM

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

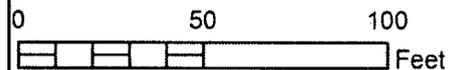
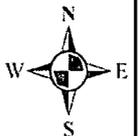


LINN
TURNER B #93

LEGALS: UL/N SEC 20
T17S R31E
EDDY COUNTY

API No. 30-015-26611

Figure 1



GPS date: 12/5/2012 DH
Drawing date: 12/14/2012
Drafted by: L. Weinheimer

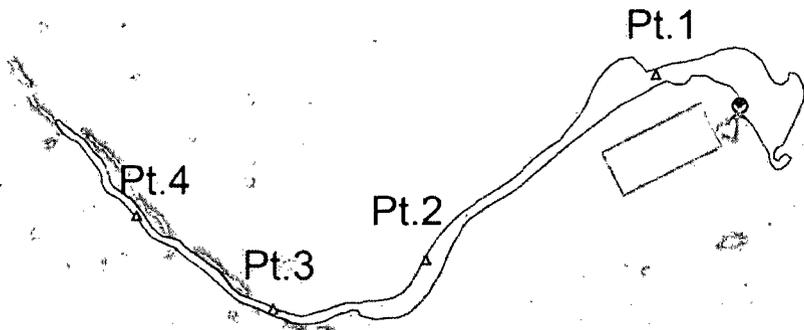
Augur Data

Pt.1

Sample	CI-	PID	GRO	DRO	B	T	E	X	Total BTEX
6"	9600	2.6	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

Pt.2

Sample	CI-	PID	GRO	DRO	B	T	E	X	Total BTEX
6"	3920	1	<10	26.9	<0.05	<0.05	<0.05	<0.15	<0.3
1'	505	0.6							
1'6"	272	0.4	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
2'	315	0.5							
2'6"	432	0.3	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
3'	332	0.3							
3'6"	448	0.4	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3



Pt.3

Sample	CI-	PID	GRO	DRO	B	T	E	X	Total BTEX
6"	3880	2.1	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
1'	1170	0.9							
1'6"	1100	0.3	<10	19.4	<0.05	<0.05	<0.05	<0.15	<0.3
2'	447	1.3							
2'6"	336	1.4	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
3'	260	0.4							
3'6"	160	0.3	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

Pt.4

Sample	CI-	PID	GRO	DRO	B	T	E	X	Total BTEX
6"	1120	1	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
1'	561	1.2							
1'6"	160	1	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
2'	84	0.4	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

Legend

- ▲ SAMPLE POINT
- X SOURCE
- WELLHEAD
- PUMPJACK
- STAIN (1,151 SQ FT)

CI- FIELD DATA
CI- LAB DATA

DGW = None
Landowner = BLM

© 2013 Microsoft Corporation ImagePatch.com

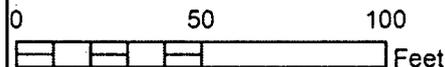


LINN TURNER B #93

LEGALS: UL/N SEC 20
T17S R31E
EDDY COUNTY

API No. 30-015-26611

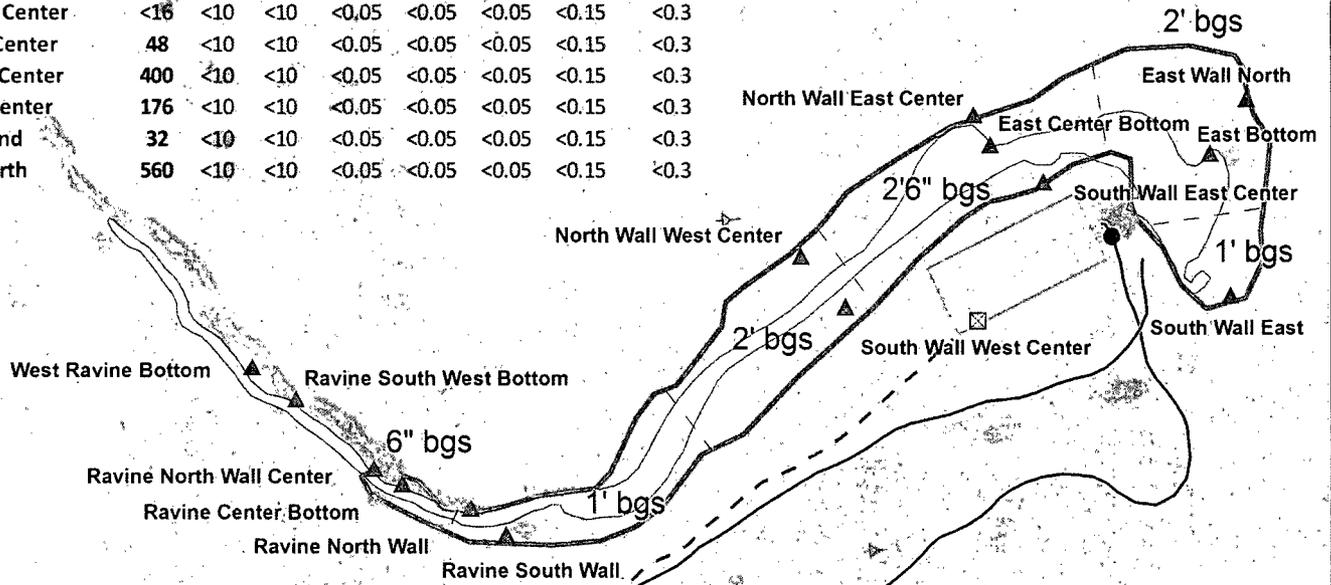
Figure 2



GPS date: 12/5/2012 DH
Drawing date: 3/8/13
Drafted by: L. Weinheimer

Excavation Map

	Cl-	GRO	DRO	B	T	E	X	Total BTEX
West Ravine Bottom	<16	<10	26.1	0.178	0.395	0.125	0.208	0.905
SW Ravine Bottom	16	<10	<10	<0.05	0.099	<0.05	<0.15	<0.3
Center Ravine Bottom	<16	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
West Bottom	48	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
E Center Bottom	<16	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
East Bottom	<16	<10	10.3	<0.05	<0.05	<0.05	<0.15	<0.3
N Wall Center	<16	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
North Wall	32	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
South Wall	33	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
N Wall W Center	<16	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
N Wall E Center	48	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
S Wall W Center	400	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
S Wall E Center	176	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
S Wall E End	32	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
E Wall North	560	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3



Legend

- ▲ SAMPLE POINT
- WELLHEAD
- ⚡ DEADMAN
- ⊠ ELECTRIC BOX
- ⊕ ELECTRIC POLE
- - - BURIED ELECTRIC LINE
- OVERHEAD ELECTRIC LINE
- SURFACE FLOW LINE
- ▭ EXCAVATION
- ▭ PUMPJACK
- ▭ STAIN (1,151 SQ FT)

Cl- Lab Data

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

DGW = 188 ft
Landowner = BLM

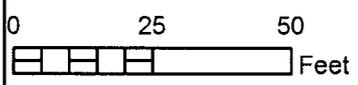


**LINN
TURNER B #93**

LEGALS: UL/N SEC 20
T17S R31E
EDDY COUNTY

API No. 30-015-26611

Figure 3



GPS date: 7/23/13 CF
Drawing date: 7/30/13
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

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

RECEIVED
AUG 29 2013
NMOCD ARTESIA

Form C-141
Revised October 10, 2003

Submit to the appropriate District Office in accordance with 19.15.29 NMAC

Release Notification and Corrective Action

JMW1324155325 OPERATOR Initial Report Final Report

Name of Company: Linn Operating <u>269324</u>	Contact: Joe Hernandez
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No.: 575-738-1739
Facility Name: Turner B.93	Facility Type: Oil Producer
Surface Owner: Federal	Mineral Owner: Federal
API No.: 3001526611	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	20	17S	31E	140	South	2560	West	Eddy

Latitude: 32.8159378158125 Longitude: -103.892121078496

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 4 bbls	Volume Recovered: 0
Source of Release: Stuffing box	Date and Hour of Occurrence: 12/3/2012 4:30pm	Date and Hour of Discovery: 12/3/2012 2pm
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? Joe Hernandez	Date and Hour 12/4/2012 3pm	
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. *: SUPERVISOR RECEIVED A GALE FROM CHEMICAL GUY AND GAVEME A CALL TO VERIFY IF WELL WAS LEAKING. DROVE TO LOCATION AND NOTICE WATER ON GROUND COMING OUT OF WELL PACKING. TURN WELL OFF AND PACK WELL. TURNED WELL ON.

Describe Area Affected and Cleanup Action Taken. *: From well head fluid ran N20' then SW 70' to sw corner of loc. spill was 2x70". PICKED UP CONTAMINATED DIRT AND PUT IT ON PILE ON SIDE OF LOCATION.

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: 	OIL CONSERVATION DIVISION	
Printed Name: Joe Hernandez	Approved by District Supervisor Signed By <u>Mike Deacon</u>	
Title: Production Foreman	Approval Date: AUG 29 2013	Expiration Date:
E-mail Address: jhernandez@linenergy.com	Conditions of Approval: Remediation per OCD Rule & Guidelines & like approval by BLM. SUBMIT REMEDIATION PROPOSAL NO LATER THAN:	Attached: <input type="checkbox"/>
Date: 12/10/2012 Phone: 575-942-9492	229-1878	

* Attach Additional Sheets If Necessary

September 29, 2013

Appendix B

Initial Sampling Lab

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

December 17, 2012

BRUCE BAKER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: TURNER B #93 A.D.

Enclosed are the results of analyses for samples received by the laboratory on 12/10/12 9:20.

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
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 12/10/2012
 Reported: 12/17/2012
 Project Name: TURNER B #93 A.D.
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 12/05/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 1 @ 6" (H202958-01)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2012	ND	2.07	104	2.00	12.6		
Toluene*	<0.050	0.050	12/13/2012	ND	2.28	114	2.00	11.9		
Ethylbenzene*	<0.050	0.050	12/13/2012	ND	2.22	111	2.00	12.2		
Total Xylenes*	<0.150	0.150	12/13/2012	ND	6.64	111	6.00	12.8		
Total BTEX	<0.300	0.300	12/13/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 120 % 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	9600	16.0	12/13/2012	ND	416	104	400	7.41		

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	12/12/2012	ND	180	90.0	200	0.603		
DRO >C10-C28	<10.0	10.0	12/12/2012	ND	198	98.8	200	0.693		

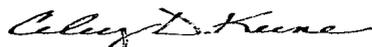
Surrogate: 1-Chlorooctane 83.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.1 % 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
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	12/10/2012	Sampling Date:	12/05/2012
Reported:	12/17/2012	Sampling Type:	Soil
Project Name:	TURNER B #93 A.D.	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 2 @ 6" (H202958-02)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2012	ND	2.07	104	2.00	12.6		
Toluene*	<0.050	0.050	12/13/2012	ND	2.28	114	2.00	11.9		
Ethylbenzene*	<0.050	0.050	12/13/2012	ND	2.22	111	2.00	12.2		
Total Xylenes*	<0.150	0.150	12/13/2012	ND	6.64	111	6.00	12.8		
Total BTEX	<0.300	0.300	12/13/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 116 % 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	3920	16.0	12/13/2012	ND	416	104	400	7.41		

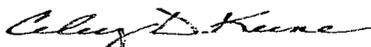
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/12/2012	ND	180	90.0	200	0.603		
DRO >C10-C28	26.9	10.0	12/12/2012	ND	198	98.8	200	0.693		

Surrogate: 1-Chlorooctane 89.8 % 65.2-140
Surrogate: 1-Chlorooctadecane 99.3 % 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
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

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 Reported: 12/17/2012
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 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

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

Sample ID: PT. 3 @ 6" (H202958-03)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2012	ND	2.07	104	2.00	12.6		
Toluene*	<0.050	0.050	12/13/2012	ND	2.28	114	2.00	11.9		
Ethylbenzene*	<0.050	0.050	12/13/2012	ND	2.22	111	2.00	12.2		
Total Xylenes*	<0.150	0.150	12/13/2012	ND	6.64	111	6.00	12.8		
Total BTEX	<0.300	0.300	12/13/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 115 % 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	3880	16.0	12/13/2012	ND	416	104	400	7.41		

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	12/12/2012	ND	180	90.0	200	0.603		
DRO >C10-C28	<10.0	10.0	12/12/2012	ND	198	98.8	200	0.693		

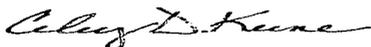
Surrogate: 1-Chlorooctane 81.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.8 % 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
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 12/10/2012
 Reported: 12/17/2012
 Project Name: TURNER B #93 A.D.
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 12/05/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 4 @ 6" (H202958-04)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2012	ND	2.07	104	2.00	12.6		
Toluene*	<0.050	0.050	12/14/2012	ND	2.28	114	2.00	11.9		
Ethylbenzene*	<0.050	0.050	12/14/2012	ND	2.22	111	2.00	12.2		
Total Xylenes*	<0.150	0.150	12/14/2012	ND	6.64	111	6.00	12.8		
Total BTEX	<0.300	0.300	12/14/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 115 % 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	12/13/2012	ND	416	104	400	7.41		

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	12/12/2012	ND	180	90.0	200	0.603		
DRO >C10-C28	<10.0	10.0	12/12/2012	ND	198	98.8	200	0.693		

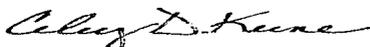
Surrogate: 1-Chlorooctane 80.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.7 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

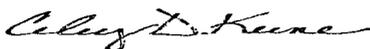
Notes and Definitions

- 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

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Appendix C

Augur Sampling Lab

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



March 07, 2013

BRUCE BAKER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: TURNER B #93 A.D.

Enclosed are the results of analyses for samples received by the laboratory on 03/01/13 9:05.

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.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 03/01/2013
 Reported: 03/07/2013
 Project Name: TURNER B #93 A.D.
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 02/26/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 2 @ 1' 6" (H300534-01)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2013	ND	1.99	99.3	2.00	2.68		
Toluene*	<0.050	0.050	03/07/2013	ND	2.00	100	2.00	0.305		
Ethylbenzene*	<0.050	0.050	03/07/2013	ND	1.94	97.1	2.00	0.409		
Total Xylenes*	<0.150	0.150	03/07/2013	ND	6.06	101	6.00	3.11		
Total BTEX	<0.300	0.300	03/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 118 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	03/05/2013	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	03/05/2013	ND	200	99.8	200	3.91		
DRO >C10-C28	<10.0	10.0	03/05/2013	ND	194	96.9	200	5.69		

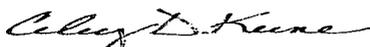
Surrogate: 1-Chlorooctane 98.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 03/01/2013
 Reported: 03/07/2013
 Project Name: TURNER B #93 A.D.
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 02/26/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 2 @ 2' 6" (H300534-02)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2013	ND	1.99	99.3	2.00	2.68		
Toluene*	<0.050	0.050	03/07/2013	ND	2.00	100	2.00	0.305		
Ethylbenzene*	<0.050	0.050	03/07/2013	ND	1.94	97.1	2.00	0.409		
Total Xylenes*	<0.150	0.150	03/07/2013	ND	6.06	101	6.00	3.11		
Total BTEX	<0.300	0.300	03/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 114 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	03/05/2013	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	03/05/2013	ND	200	99.8	200	3.91		
DRO >C10-C28	<10.0	10.0	03/05/2013	ND	194	96.9	200	5.69		

Surrogate: 1-Chlorooctane 90.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 03/01/2013
 Reported: 03/07/2013
 Project Name: TURNER B #93 A.D.
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 02/26/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 2 @ 3' 6" (H300534-03)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2013	ND	1.99	99.3	2.00	2.68		
Toluene*	<0.050	0.050	03/07/2013	ND	2.00	100	2.00	0.305		
Ethylbenzene*	<0.050	0.050	03/07/2013	ND	1.94	97.1	2.00	0.409		
Total Xylenes*	<0.150	0.150	03/07/2013	ND	6.06	101	6.00	3.11		
Total BTEX	<0.300	0.300	03/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 114 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	03/05/2013	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	03/05/2013	ND	200	99.8	200	3.91		
DRO >C10-C28	<10.0	10.0	03/05/2013	ND	194	96.9	200	5.69		

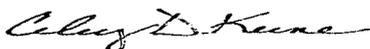
Surrogate: 1-Chlorooctane 89.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.5 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 03/01/2013
 Reported: 03/07/2013
 Project Name: TURNER B #93 A.D.
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 02/26/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 3 @ 1' 6" (H300534-04)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2013	ND	1.99	99.3	2.00	2.68	
Toluene*	<0.050	0.050	03/07/2013	ND	2.00	100	2.00	0.305	
Ethylbenzene*	<0.050	0.050	03/07/2013	ND	1.94	97.1	2.00	0.409	
Total Xylenes*	<0.150	0.150	03/07/2013	ND	6.06	101	6.00	3.11	
Total BTEX	<0.300	0.300	03/07/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 104% 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	03/05/2013	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	03/05/2013	ND	200	99.8	200	3.91	
DRO >C10-C28	19.4	10.0	03/05/2013	ND	194	96.9	200	5.69	

Surrogate: 1-Chlorooctane 91.1% 65.2-140

Surrogate: 1-Chlorooctadecane 104% 63.6-154

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Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	03/01/2013	Sampling Date:	02/26/2013
Reported:	03/07/2013	Sampling Type:	Soil
Project Name:	TURNER B #93 A.D.	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 3 @ 2' 6" (H300534-05)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2013	ND	1.99	99.3	2.00	2.68		
Toluene*	<0.050	0.050	03/07/2013	ND	2.00	100	2.00	0.305		
Ethylbenzene*	<0.050	0.050	03/07/2013	ND	1.94	97.1	2.00	0.409		
Total Xylenes*	<0.150	0.150	03/07/2013	ND	6.06	101	6.00	3.11		
Total BTEX	<0.300	0.300	03/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 116 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	03/05/2013	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	03/05/2013	ND	200	99.8	200	3.91		
DRO >C10-C28	<10.0	10.0	03/05/2013	ND	194	96.9	200	5.69		

Surrogate: 1-Chlorooctane 86.3 % 65.2-140
Surrogate: 1-Chlorooctadecane 92.8 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	03/01/2013	Sampling Date:	02/26/2013
Reported:	03/07/2013	Sampling Type:	Soil
Project Name:	TURNER B #93 A.D.	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 3 @ 3' 6" (H300534-06)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2013	ND	1.99	99.3	2.00	2.68		
Toluene*	<0.050	0.050	03/07/2013	ND	2.00	100	2.00	0.305		
Ethylbenzene*	<0.050	0.050	03/07/2013	ND	1.94	97.1	2.00	0.409		
Total Xylenes*	<0.150	0.150	03/07/2013	ND	6.06	101	6.00	3.11		
Total BTEX	<0.300	0.300	03/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/05/2013	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	03/06/2013	ND	216	108	200	1.28		
DRO >C10-C28	<10.0	10.0	03/06/2013	ND	216	108	200	3.24		

Surrogate: 1-Chlorooctane 83.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	03/01/2013	Sampling Date:	02/26/2013
Reported:	03/07/2013	Sampling Type:	Soil
Project Name:	TURNER B #93 A.D.	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 4 @ 1' 6" (H300534-07)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2013	ND	1.99	99.3	2.00	2.68		
Toluene*	<0.050	0.050	03/07/2013	ND	2.00	100	2.00	0.305		
Ethylbenzene*	<0.050	0.050	03/07/2013	ND	1.94	97.1	2.00	0.409		
Total Xylenes*	<0.150	0.150	03/07/2013	ND	6.06	101	6.00	3.11		
Total BTEX	<0.300	0.300	03/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 116 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/05/2013	ND	432	108	400	0.00		

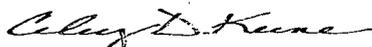
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/06/2013	ND	216	108	200	1.28		
DRO >C10-C28	<10.0	10.0	03/06/2013	ND	216	108	200	3.24		

Surrogate: 1-Chlorooctane 77.4 % 65.2-140
Surrogate: 1-Chlorooctadecane 93.6 % 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
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	03/01/2013	Sampling Date:	02/26/2013
Reported:	03/07/2013	Sampling Type:	Soil
Project Name:	TURNER B #93 A.D.	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 4 @ 2' (H300534-08)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2013	ND	1.99	99.3	2.00	2.68		
Toluene*	<0.050	0.050	03/07/2013	ND	2.00	100	2.00	0.305		
Ethylbenzene*	<0.050	0.050	03/07/2013	ND	1.94	97.1	2.00	0.409		
Total Xylenes*	<0.150	0.150	03/07/2013	ND	6.06	101	6.00	3.11		
Total BTEX	<0.300	0.300	03/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 115 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/05/2013	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	03/06/2013	ND	216	108	200	1.28		
DRO >C10-C28	<10.0	10.0	03/06/2013	ND	216	108	200	3.24		

Surrogate: 1-Chlorooctane 85.8 % 65.2-140
Surrogate: 1-Chlorooctadecane 101 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Coley D. Keene, Lab Director/Quality Manager

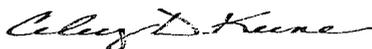
Notes and Definitions

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

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

1 of 1

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Rice		BILL TO		ANALYSIS REQUEST											
Project Manager: Bruce Baker		P.O. #:													
Address:		Company:													
City: State: Zip:		Attn:													
Phone #: Fax #:		Address:													
Project #: Project Owner:		City:													
Project Name: Turner b#93		State: Zip:													
Project Location:		Phone #:													
Sampler Name: Oakston Harris		Fax #:													

Lab I.D.	Sample I.D.	GIRABOR (COMP.)	# CONTAINERS:	MATRIX						PRESERV.			SAMPLING		DATE	TIME	C1	TPH	B-TEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER							
1300524																			
1	PT. 2 E 1'6"	G	1			✓					✓			2/26/13	9:15	✓	✓	✓	
2	PT. 2 E 2'6"	G	1			✓					✓			2/26/13	10:15	✓	✓	✓	
3	PT. 2 E 3'6"	G	1			✓					✓			2/26/13	11:00	✓	✓	✓	
4	PT. 3 E 1'6"	G	1			✓					✓			2/26/13	9:25	✓	✓	✓	
5	PT. 3 E 2'6"	G	1			✓					✓			2/26/13	10:25	✓	✓	✓	
6	PT. 3 E 3'6"	G	1			✓					✓			2/26/13	11:30	✓	✓	✓	
7	PT. 4 E 1'6"	G	1			✓					✓			2/26/13	9:35	✓	✓	✓	
8	PT. 4 E 2'	G	1			✓					✓			2/26/13	10:30	✓	✓	✓	

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Relinquished By: <i>Oakston Harris</i>	Date: <i>2/13/13</i>	Received By: <i>Wade Hanson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>9:05</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: <i>Hack Contact@rice-ecs.com</i> <i>B. Baker@rice-ecs.com</i> <i>L. Weinheimer@rice-ecs.com</i>	
Delivered By: (Circle One)	Sample Condition	Checked By:		
Sampler - UPS - Bus - Other:	Cool: Intact	(Initials):		
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<i>WHS</i>		
	<input type="checkbox"/> No <input type="checkbox"/> No			

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

Appendix D

Final Sampling Lab

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

July 30, 2013

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: TURNER B #93 A.D.

Enclosed are the results of analyses for samples received by the laboratory on 07/24/13 8:15.

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,



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: 07/24/2013
 Reported: 07/30/2013
 Project Name: TURNER B #93 A.D.
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/23/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WEST RAVINE BOTTOM (H301730-01)

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.178	0.050	07/26/2013	ND	1.82	90.9	2.00	6.66	
Toluene*	0.395	0.050	07/26/2013	ND	1.82	91.1	2.00	6.58	
Ethylbenzene*	0.125	0.050	07/26/2013	ND	1.93	96.4	2.00	6.85	
Total Xylenes*	0.208	0.150	07/26/2013	ND	5.81	96.9	6.00	6.24	
Total BTEX	0.905	0.300	07/26/2013	ND					

Surrogate: 4-Bromofluorobenzene (PII) 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	<16.0	16.0	07/25/2013	ND	432	108	400	7.69	

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	07/24/2013	ND	173	86.7	200	1.54	
DRO >C10-C28	26.1	10.0	07/24/2013	ND	174	86.9	200	0.263	

Surrogate: 1-Chlorooctane 94.4 % 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:	07/24/2013	Sampling Date:	07/23/2013
Reported:	07/30/2013	Sampling Type:	Soil
Project Name:	TURNER B #93 A.D.	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: RAVINE SW BOTTOM (H301730-02)

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	07/26/2013	ND	1.82	90.9	2.00	6.66		
Toluene*	0.099	0.050	07/26/2013	ND	1.82	91.1	2.00	6.58		
Ethylbenzene*	<0.050	0.050	07/26/2013	ND	1.93	96.4	2.00	6.85		
Total Xylenes*	<0.150	0.150	07/26/2013	ND	5.81	96.9	6.00	6.24		
Total BTEX	<0.300	0.300	07/26/2013	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	16.0	16.0	07/25/2013	ND	432	108	400	7.69		

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	07/25/2013	ND	168	84.2	200	6.00		
DRO >C10-C28	<10.0	10.0	07/25/2013	ND	173	86.4	200	7.47		

Surrogate: 1-Chlorooctane 76.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.4 % 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:	07/24/2013	Sampling Date:	07/23/2013
Reported:	07/30/2013	Sampling Type:	Soil
Project Name:	TURNER B #93 A.D.	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: RAVINE N WALL CENTER (H301730-03)

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	07/26/2013	ND	1.82	90.9	2.00	6.66		
Toluene*	<0.050	0.050	07/26/2013	ND	1.82	91.1	2.00	6.58		
Ethylbenzene*	<0.050	0.050	07/26/2013	ND	1.93	96.4	2.00	6.85		
Total Xylenes*	<0.150	0.150	07/26/2013	ND	5.81	96.9	6.00	6.24		
Total BTEX	<0.300	0.300	07/26/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 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	<16.0	16.0	07/25/2013	ND	432	108	400	7.69		

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	07/25/2013	ND	168	84.2	200	6.00		
DRO >C10-C28	<10.0	10.0	07/25/2013	ND	173	86.4	200	7.47		

Surrogate: 1-Chlorooctane 85.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 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:	07/24/2013	Sampling Date:	07/23/2013
Reported:	07/30/2013	Sampling Type:	Soil
Project Name:	TURNER B #93 A.D.	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: RAVINE CENTER BOTTOM (H301730-04)

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	07/26/2013	ND	1.82	90.9	2.00	6.66		
Toluene*	<0.050	0.050	07/26/2013	ND	1.82	91.1	2.00	6.58		
Ethylbenzene*	<0.050	0.050	07/26/2013	ND	1.93	96.4	2.00	6.85		
Total Xylenes*	<0.150	0.150	07/26/2013	ND	5.81	96.9	6.00	6.24		
Total BTEX	<0.300	0.300	07/26/2013	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	<16.0	16.0	07/25/2013	ND	432	108	400	7.69		

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	07/25/2013	ND	168	84.2	200	6.00		
DRO >C10-C28	<10.0	10.0	07/25/2013	ND	173	86.4	200	7.47		

Surrogate: 1-Chlorooctane 69.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 78.7 % 63.6-154

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* = 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: 07/24/2013
 Reported: 07/30/2013
 Project Name: TURNER B #93 A.D.
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/23/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: RAVINE NORTH WALL (H301730-05)

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	07/26/2013	ND	1.82	90.9	2.00	6.66	
Toluene*	<0.050	0.050	07/26/2013	ND	1.82	91.1	2.00	6.58	
Ethylbenzene*	<0.050	0.050	07/26/2013	ND	1.93	96.4	2.00	6.85	
Total Xylenes*	<0.150	0.150	07/26/2013	ND	5.81	96.9	6.00	6.24	
Total BTEX	<0.300	0.300	07/26/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 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	32.0	16.0	07/25/2013	ND	432	108	400	7.69	

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	07/25/2013	ND	168	84.2	200	6.00	
DRO >C10-C28	<10.0	10.0	07/25/2013	ND	173	86.4	200	7.47	

Surrogate: 1-Chlorooctane 77.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.5 % 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:	07/24/2013	Sampling Date:	07/23/2013
Reported:	07/30/2013	Sampling Type:	Soil
Project Name:	TURNER B #93 A.D.	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: RAVINE S WALL (H301730-06)

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	07/26/2013	ND	1.82	90.9	2.00	6.66	
Toluene*	<0.050	0.050	07/26/2013	ND	1.82	91.1	2.00	6.58	
Ethylbenzene*	<0.050	0.050	07/26/2013	ND	1.93	96.4	2.00	6.85	
Total Xylenes*	<0.150	0.150	07/26/2013	ND	5.81	96.9	6.00	6.24	
Total BTEX	<0.300	0.300	07/26/2013	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	32.0	16.0	07/25/2013	ND	432	108	400	7.69	

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	07/25/2013	ND	168	84.2	200	6.00	
DRO >C10-C28	<10.0	10.0	07/25/2013	ND	173	86.4	200	7.47	

Surrogate: 1-Chlorooctane 85.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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Analytical Results For:

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

 Received: 07/24/2013
 Reported: 07/30/2013
 Project Name: TURNER B #93 A.D.
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/23/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WEST BOTTOM (H301730-07)

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	07/26/2013	ND	1.82	90.9	2.00	6.66	
Toluene*	<0.050	0.050	07/26/2013	ND	1.82	91.1	2.00	6.58	
Ethylbenzene*	<0.050	0.050	07/26/2013	ND	1.93	96.4	2.00	6.85	
Total Xylenes*	<0.150	0.150	07/26/2013	ND	5.81	96.9	6.00	6.24	
Total BTEX	<0.300	0.300	07/26/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 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	07/25/2013	ND	432	108	400	7.69	

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	07/25/2013	ND	168	84.2	200	6.00	
DRO >C10-C28	<10.0	10.0	07/25/2013	ND	173	86.4	200	7.47	

Surrogate: 1-Chlorooctane 76.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.7 % 63.6-154

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

 Received: 07/24/2013
 Reported: 07/30/2013
 Project Name: TURNER B #93 A.D.
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/23/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: N WALL W CENTER (H301730-08)

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	07/26/2013	ND	1.82	90.9	2.00	6.66	
Toluene*	<0.050	0.050	07/26/2013	ND	1.82	91.1	2.00	6.58	
Ethylbenzene*	<0.050	0.050	07/26/2013	ND	1.93	96.4	2.00	6.85	
Total Xylenes*	<0.150	0.150	07/26/2013	ND	5.81	96.9	6.00	6.24	
Total BTEX	<0.300	0.300	07/26/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 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	<16.0	16.0	07/25/2013	ND	432	108	400	7.69	

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	07/25/2013	ND	168	84.2	200	6.00	
DRO >C10-C28	<10.0	10.0	07/25/2013	ND	173	86.4	200	7.47	

Surrogate: 1-Chlorooctane 81.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.2 % 63.6-154

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 JACOB KAMPLAIN
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Received:	07/24/2013	Sampling Date:	07/23/2013
Reported:	07/30/2013	Sampling Type:	Soil
Project Name:	TURNER B #93 A.D.	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S WALL W CENTER (H301730-09)

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	07/26/2013	ND	1.82	90.9	2.00	6.66		
Toluene*	<0.050	0.050	07/26/2013	ND	1.82	91.1	2.00	6.58		
Ethylbenzene*	<0.050	0.050	07/26/2013	ND	1.93	96.4	2.00	6.85		
Total Xylenes*	<0.150	0.150	07/26/2013	ND	5.81	96.9	6.00	6.24		
Total BTEX	<0.300	0.300	07/26/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 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	400	16.0	07/25/2013	ND	432	108	400	7.69		

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	07/25/2013	ND	168	84.2	200	6.00		
DRO >C10-C28	<10.0	10.0	07/25/2013	ND	173	86.4	200	7.47		

Surrogate: 1-Chlorooctane 85.0 % 65.2-140
Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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Received:	07/24/2013	Sampling Date:	07/23/2013
Reported:	07/30/2013	Sampling Type:	Soil
Project Name:	TURNER B #93 A.D.	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S WALL E CENTER (H301730-10)

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	07/26/2013	ND	1.82	90.9	2.00	6.66		
Toluene*	<0.050	0.050	07/26/2013	ND	1.82	91.1	2.00	6.58		
Ethylbenzene*	<0.050	0.050	07/26/2013	ND	1.93	96.4	2.00	6.85		
Total Xylenes*	<0.150	0.150	07/26/2013	ND	5.81	96.9	6.00	6.24		
Total BTEX	<0.300	0.300	07/26/2013	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	176	16.0	07/25/2013	ND	432	108	400	7.69		

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	07/25/2013	ND	168	84.2	200	6.00		
DRO >C10-C28	<10.0	10.0	07/25/2013	ND	173	86.4	200	7.47		

Surrogate: 1-Chlorooctane 79.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.3 % 63.6-154

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

 Received: 07/24/2013
 Reported: 07/30/2013
 Project Name: TURNER B #93 A.D.
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/23/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: N WALL E CENTER (H301730-11)

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 (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	48.0	16.0	07/25/2013	ND	432	108	400	7.69		

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	07/25/2013	ND	168	84.2	200	6.00		
DRO >C10-C28	<10.0	10.0	07/25/2013	ND	173	86.4	200	7.47		

Surrogate: 1-Chlorooctane 76.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.8 % 63.6-154

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Analytical Results For:

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

Received:	07/24/2013	Sampling Date:	07/23/2013
Reported:	07/30/2013	Sampling Type:	Soil
Project Name:	TURNER B #93 A.D.	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: E CENTER BOTTOM (H301730-12)

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 (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	<16.0	16.0	07/25/2013	ND	432	108	400	7.69		

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	07/25/2013	ND	168	84.2	200	6.00		
DRO >C10-C28	<10.0	10.0	07/25/2013	ND	173	86.4	200	7.47		

Surrogate: 1-Chlorooctane 72.5 % 65.2-140
Surrogate: 1-Chlorooctadecane 81.9 % 63.6-154

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

 Received: 07/24/2013
 Reported: 07/30/2013
 Project Name: TURNER B #93 A.D.
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/23/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: E WALL NORTH (H301730-13)

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 (PIL) 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	560	16.0	07/25/2013	ND	432	108	400	7.69		

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	07/25/2013	ND	168	84.2	200	6.00		
DRO >C10-C28	<10.0	10.0	07/25/2013	ND	173	86.4	200	7.47		

Surrogate: 1-Chlorooctane 67.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 77.4 % 63.6-154

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 Fax To: (575) 397-1471

Received:	07/24/2013	Sampling Date:	07/23/2013
Reported:	07/30/2013	Sampling Type:	Soil
Project Name:	TURNER B #93 A.D.	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: EAST BOTTOM (H301730-14)

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) 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	<16.0	16.0	07/25/2013	ND	432	108	400	7.69		

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	07/25/2013	ND	168	84.2	200	6.00		
DRO >C10-C28	10.3	10.0	07/25/2013	ND	173	86.4	200	7.47		

Surrogate: 1-Chlorooctane 67.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 79.9 % 63.6-154

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* = 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.



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: 07/24/2013
 Reported: 07/30/2013
 Project Name: TURNER B #93 A.D.
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/23/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S WALL E END (H301730-15)

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 (PII) 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	07/25/2013	ND	416	104	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	07/25/2013	ND	168	84.2	200	6.00		
DRO >C10-C28	<10.0	10.0	07/25/2013	ND	173	86.4	200	7.47		

Surrogate: 1-Chlorooctane 134 % 65.2-140

Surrogate: 1-Chlorooctadecane 152 % 63.6-154

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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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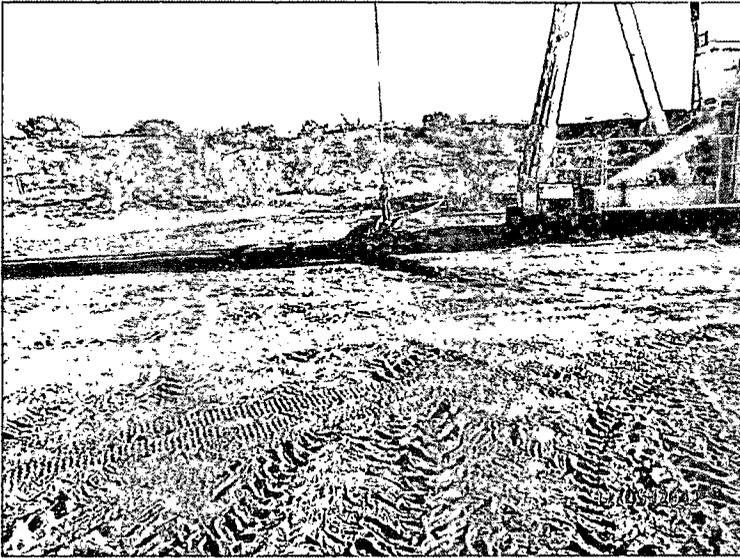
Mike Snyder, Organic Supervisor

Appendix E

Photo Documentation

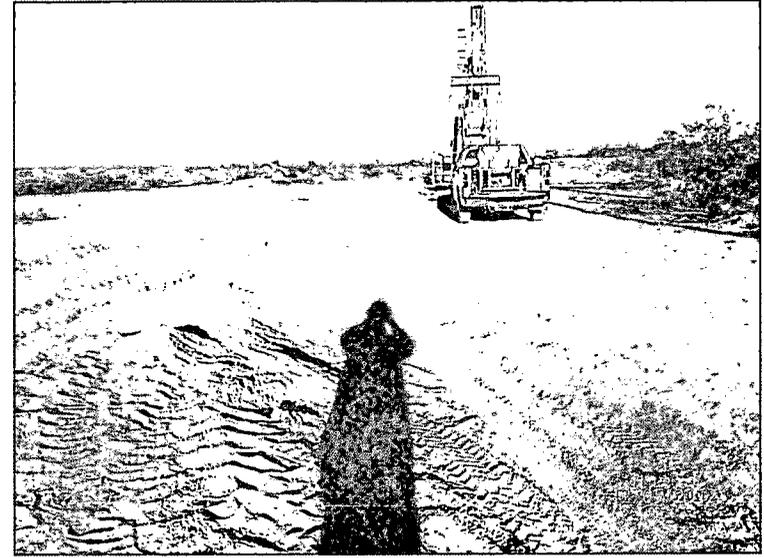
RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

Linn Turner B #93 AD
Unit Letter N, Section 20, T17S, R31E



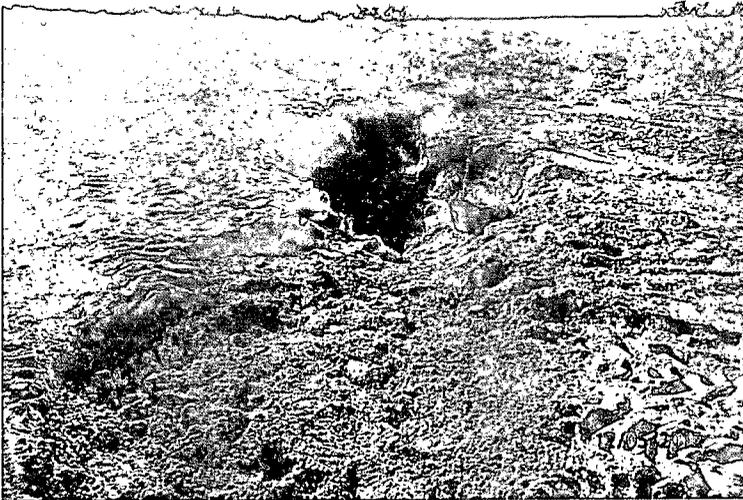
Initial release area, facing south

12/5/12



Initial release area, facing east

12/5/12



Initial release area, facing southwest

12/5/12



Initial release area, facing east

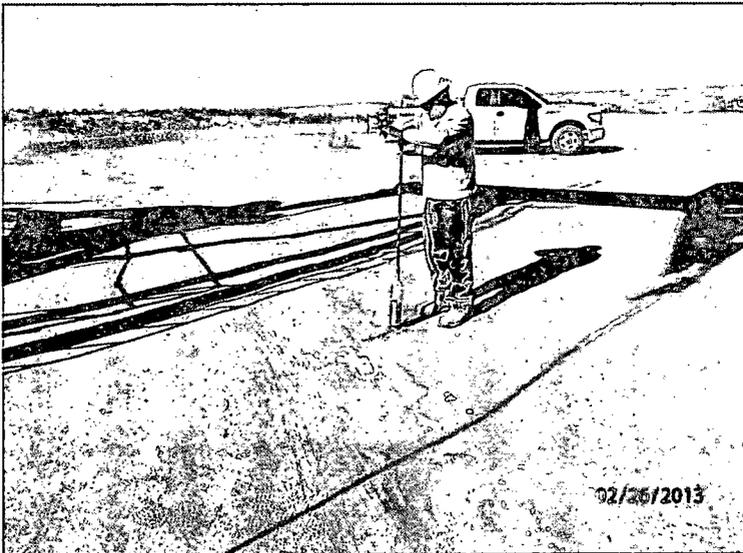
12/5/12



Initial release area, facing west 12/5/12



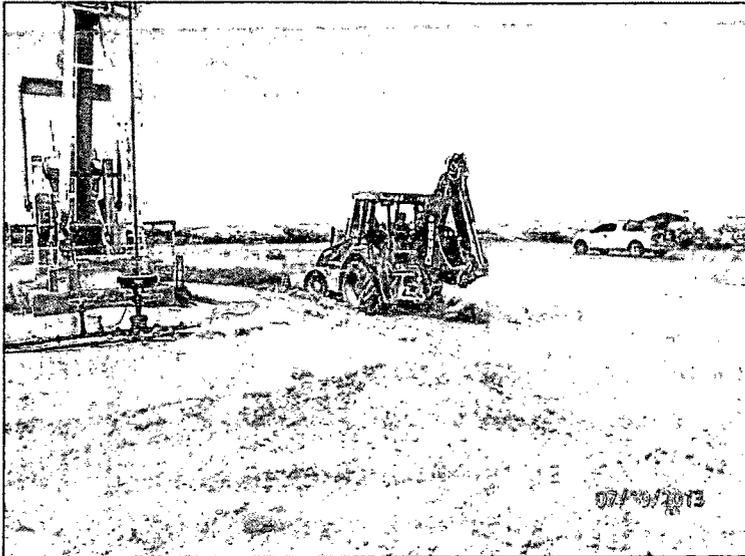
Initial release area, facing west 12/5/12



Hand auguring release, facing west 2/26/13

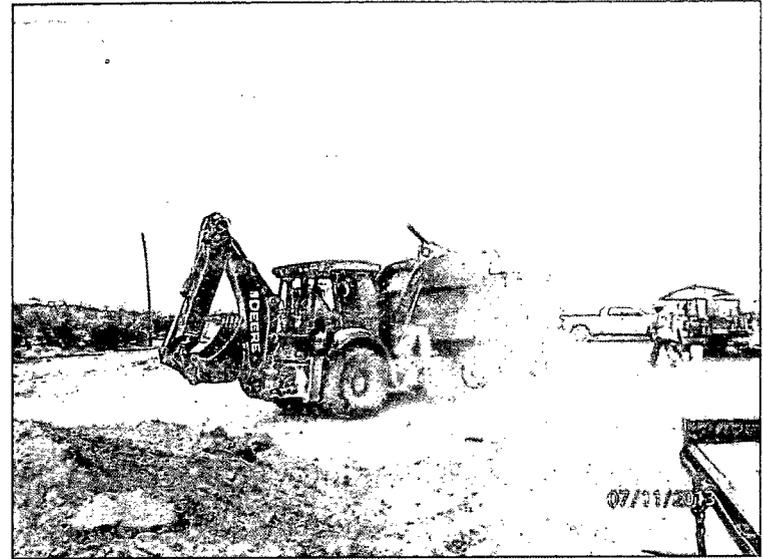


Plugging the augur in total with bentonite, facing east 2/26/13



Excavating site, facing west

7/10/13



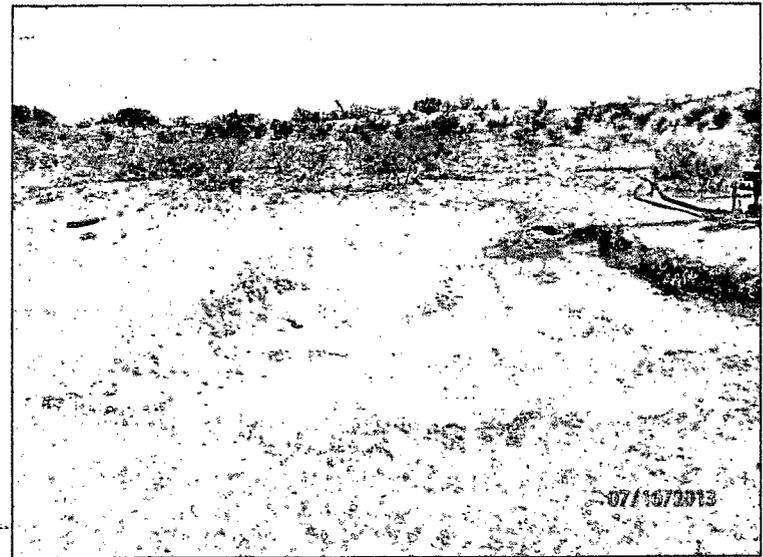
Exporting soil, facing southwest

7/11/13



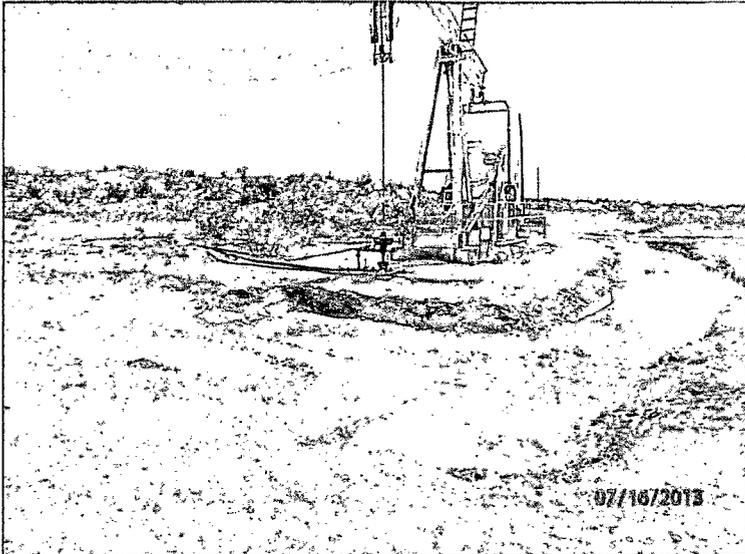
Collecting samples, facing south

7/11/13

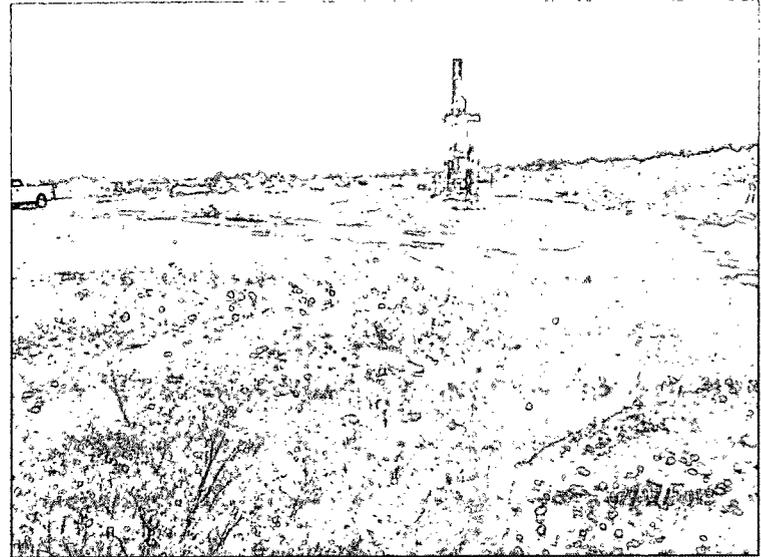


Excavation completed, facing southeast

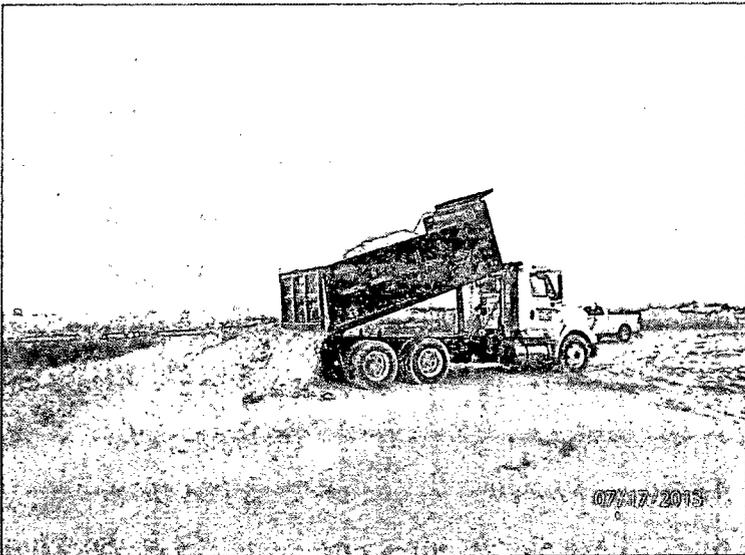
7/16/13



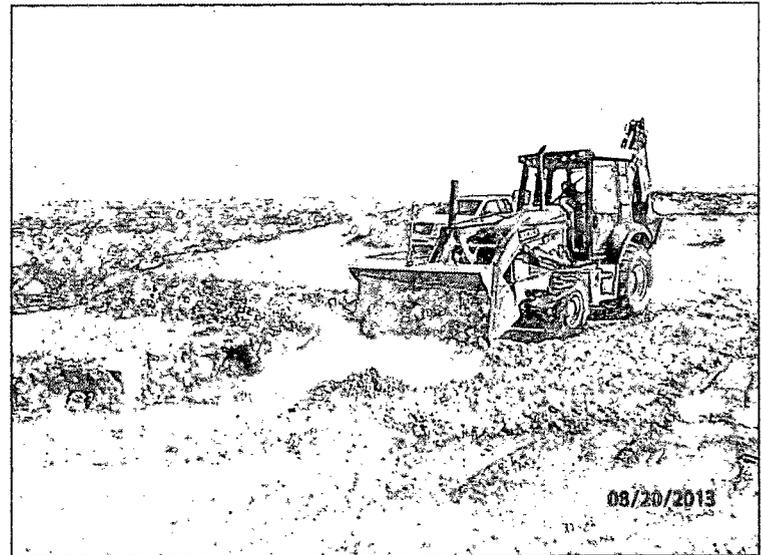
Excavation completed, facing south 7/16/13



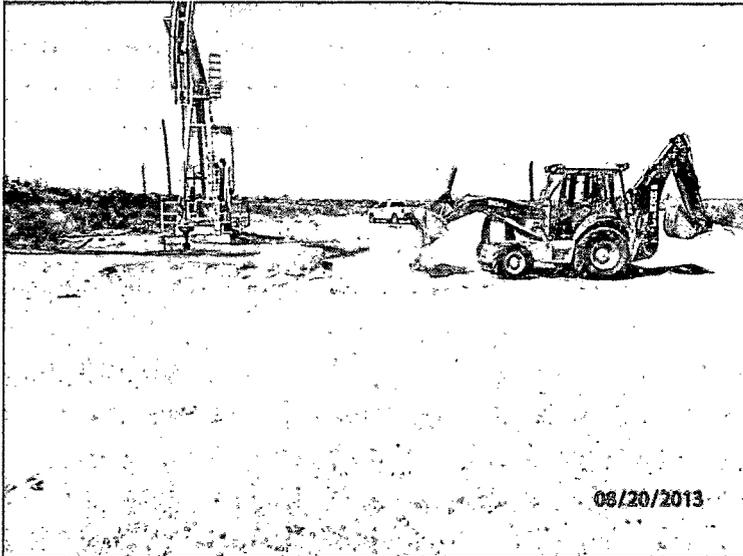
Excavation completed, facing north 7/17/13



Importing soil, facing northwest 7/17/13

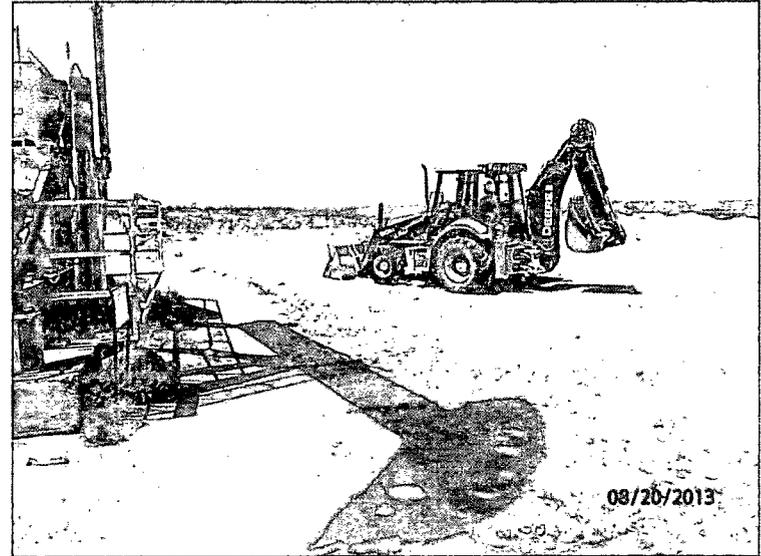


Backfilling site with berms in evidence in the background, facing north 8/20/13



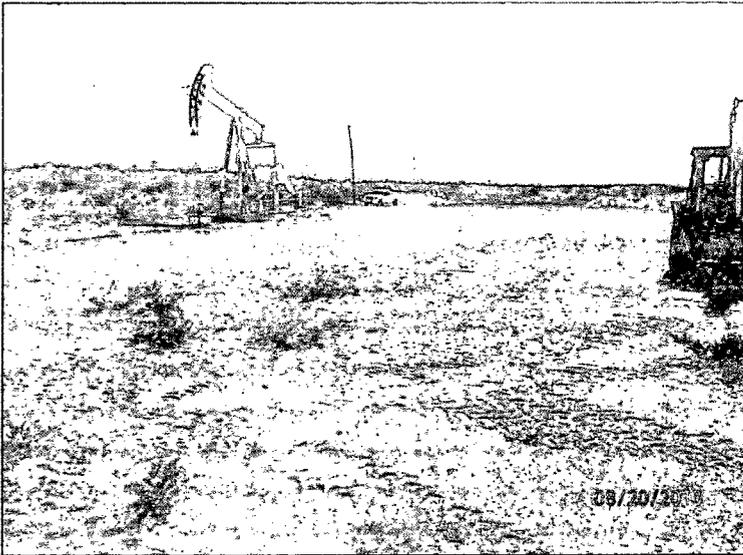
Backfilling lease pad, facing west

8/20/13



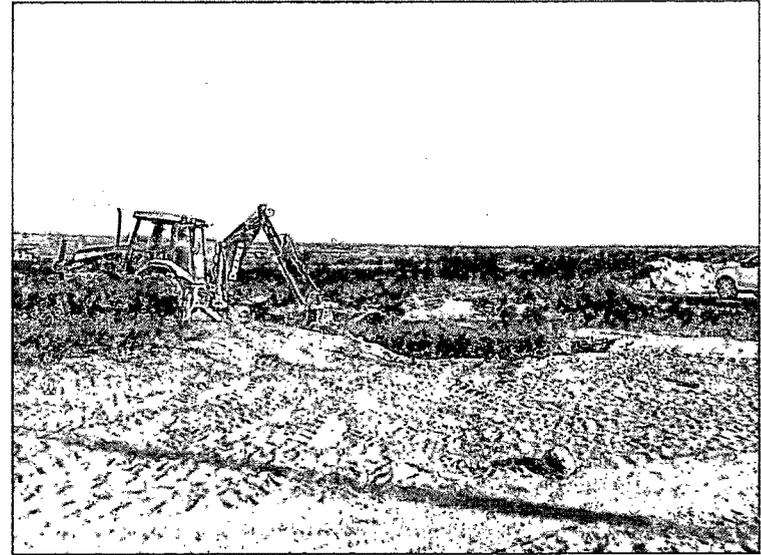
Leveling backfill, facing west

8/20/13



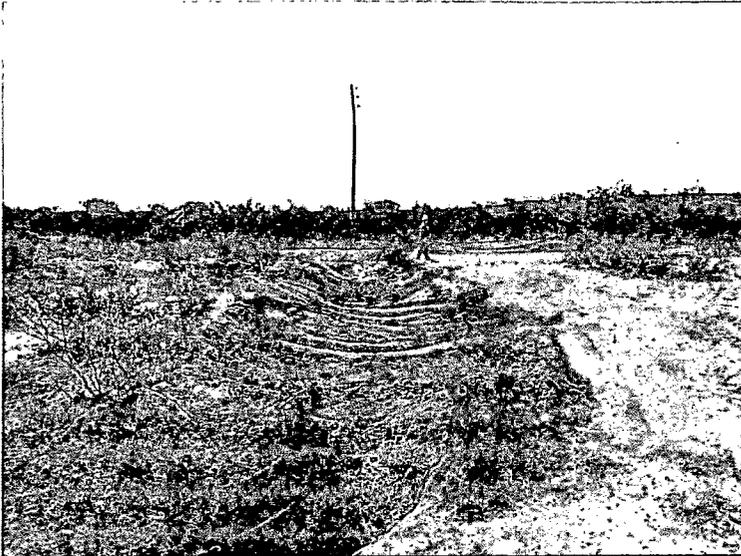
Backfill of pad completed, facing southwest

8/20/13



Sloping ravine 3:1, facing east

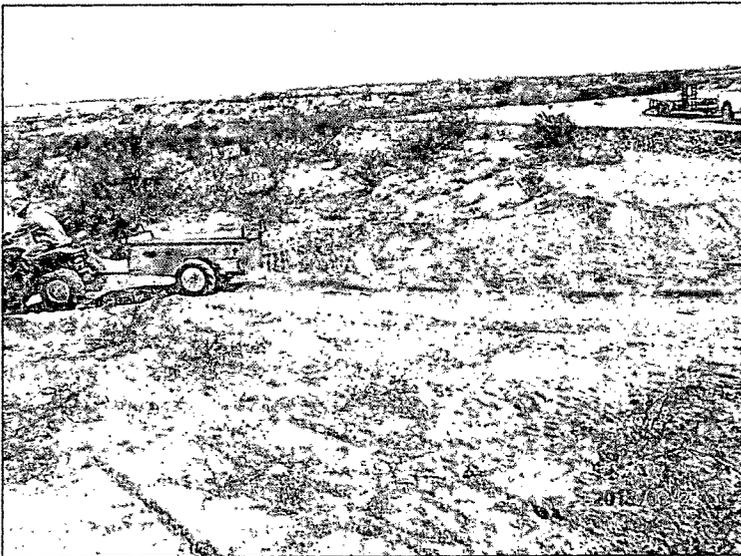
8/21/13



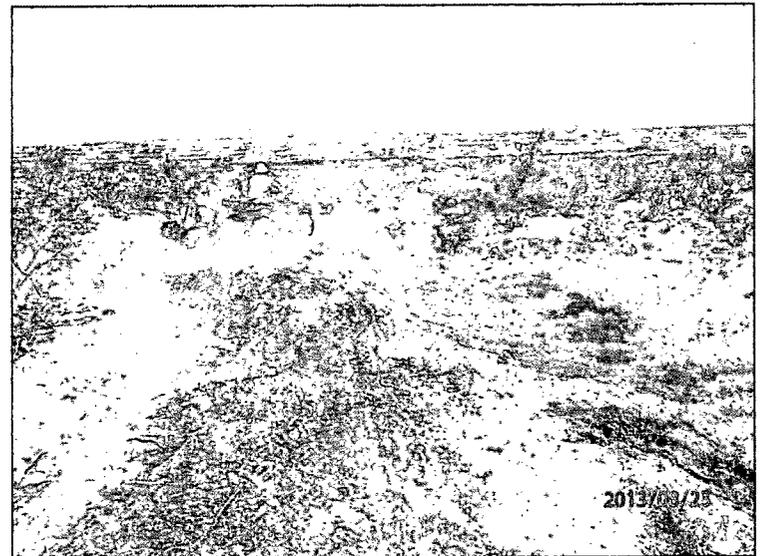
Ravine sloping completed, facing south 8/21/13



Ravine sloping completed, facing north 8/21/13



Adding soil amendments to the site, facing east 8/23/13



Tilling in soil amendments, facing north 8/23/13



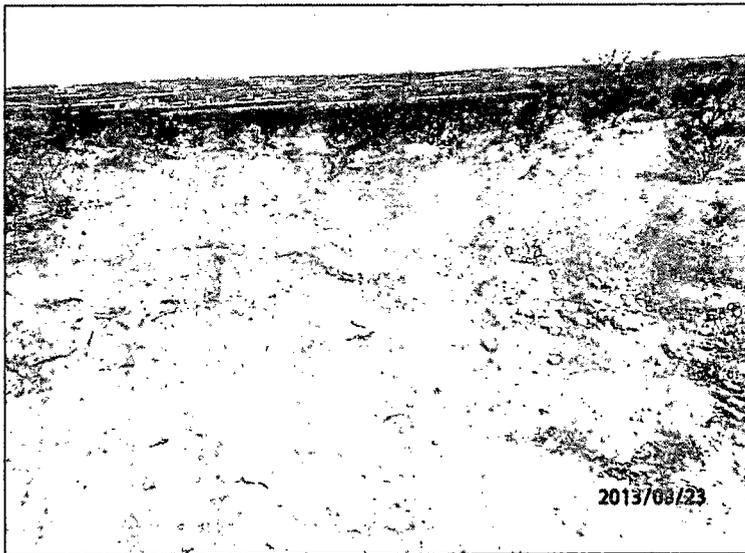
Seeding the site, facing west

8/23/13



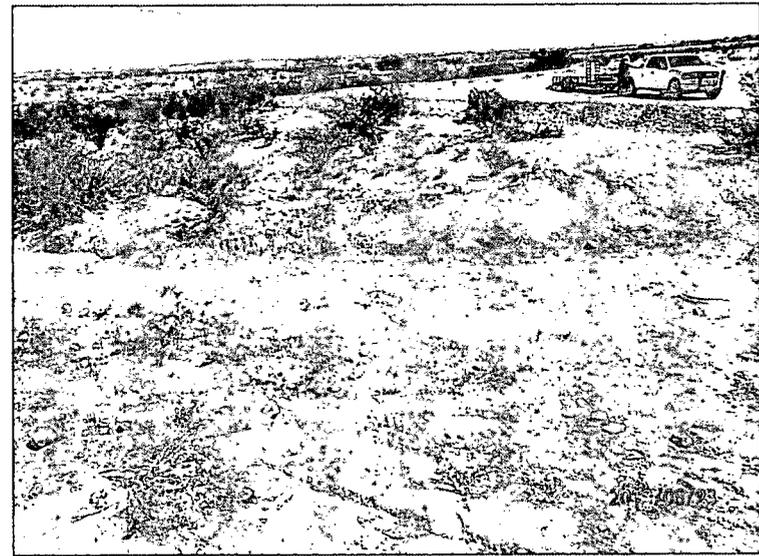
Raking the seed in, facing north

8/23/13



Site completed, facing north

8/23/13



Site completed, facing east

8/23/13

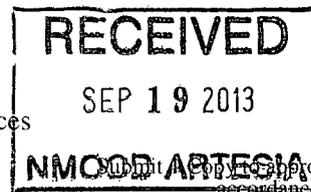
Appendix F

Final C-141

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

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

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



Form C-141
Revised August 8, 2011

Submit to the appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Linn Energy	Contact Brian Wall
Address 2130 W. Bender Blvd., Hobbs, NM 88240	Telephone No. (806) 367-0645
Facility Name Turner B 93	Facility Type Oil Producer

Surface Owner BLM	Mineral Owner BLM	API No. 3001526611
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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
N	20	17S	31E	1140	FSL	2560	FWL	Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 4 bbls	Volume Recovered 0 bbls
Source of Release Stuffing box	Date and Hour of Occurrence 12/3/12 1:30 pm	Date and Hour of Discovery 12/3/12 2 pm
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? Joe Hernandez	Date and Hour 12/4/12 3 pm	
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.* Supervisor received a call from the chemical tech that the well was leaking. Produced water was leaking from the well packing. The well was turned off and the well was re-packed.

Describe Area Affected and Cleanup Action Taken.* The release affected 1,151 sq ft in the lease pad and in the pasture. RECS personnel arrived on site on December 5th, 2012 to begin work at the Turner B #93. The release area had already been scraped down six inches, thus samples were taken from the surface of the six inch scrape. Four samples were taken throughout the release area and taken to a commercial laboratory for analysis. Laboratory chloride levels were elevated at all four points; however, GRO, DRO and BTEX readings were low. On February 26th, 2013, three of the four points were augured down for depth. These samples were taken to a commercial laboratory for analysis. In the three augur points, chloride levels decreased with depth and GRO, DRO and BTEX remained low throughout. On May 3rd, 2013, a Corrective Action Plan (CAP) was submitted to NMOCD and BLM which was approved on May 23rd, 2013. On July 7th, 2013, RECS personnel were on site to begin the approved CAP actions. The release area was excavated down to 1 ft bgs and field samples were taken and tested for chlorides and hydrocarbons. Based on this data, parts of the release area were excavated further until chloride field samples returned results below 1,000 mg/kg. A total of 156 yards of excavated material was taken to a NMOCD approved facility for disposal. BLM gave verbal permission on July 22nd, 2013 for RECS to take final samples of the excavation. On July 23rd, 2013 final samples were taken throughout the excavation and taken to a commercial laboratory for analysis of chlorides, hydrocarbons and BTEX. Laboratory results of the excavation showed chloride levels below 1,000 mg/kg and low GRO, DRO and BTEX readings. RECS submitted the final data to BLM and NMOCD on July 30th, 2013 and asked for permission to backfill the site. BLM gave permission to backfill the site on July 31st, 2013 and NMOCD gave permission to backfill the site on August 9th, 2013. On August 21st, 2013, the lease pad was backfilled and berms were erected around the site with 216 yards of clean, imported caliche. The ravine sidewalls were knocked down to a 3 to 1 slope. On August 23rd, soil amendments were added to the site and the site was seeded with LPC seed mix.

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

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

* Attach Additional Sheets If Necessary

Bratcher, Mike, EMNRD

From: Lara Weinheimer <lweinheimer@rice-ecs.com>
Sent: Wednesday, September 18, 2013 3:44 PM
To: Bratcher, Mike, EMNRD; Warren, JeanMarie, EMNRD
Cc: 'Wall, Fred'; 'Hack Conder'; 'Jacob Kamplain'
Subject: Linn Turner B #93 (2RP-1878) Pages from the Termination Request Report
Attachments: Pages from Linn Turner B #93 (2RP-1878) Termination Request.pdf

Categories: Blue Category

Mike, attached is the verbiage, plats, initial and final C-141s from the Termination Request Report for this site. A hard copy of the entire report will be put in the mail. On Friday's meeting, this will be one of the sites on the agenda to discuss. If you have any questions or concerns, please let us know.

Thanks!

Lara Weinheimer
Rice Environmental Consulting & Safety
Project Scientist
419 West Cain
Hobbs, NM 88240
(575) 441-0431