



Linn Energy Turner A Battery (Turner A #51)

REMEDIATION WORK PLAN

API No. 30-015-28758

Release Date: January 24, 2012

Unit Letter I, Section 19, Township 17 South, Range 31 East

RP# 2RP-1015

BLM Event# NU12074TG

September 9, 2014

Prepared by:

Environmental Department
Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
Phone: (575)964-8394
Fax: (575)393-8396

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

Form C-141
 Revised October 10, 2003

Oil Conservation Division
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Linn Operating	Contact: Joe Hernandez
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No.: 575-738-1739
Facility Name: Turner A Battery- Turner A #51	Facility Type: WaterFlood

Surface Owner: BLM	Mineral Owner: BLM	API No.: 3001528758
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LOCATION OF RELEASE

Unit Letter I	Section 19	Township 17S	Range 31E	Feet from the 2632	North/South Line North	Feet from the 75	East/West Line East	County Eddy
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Latitude: N32° 49' 16.2" **Longitude:** W103° 44' 48.2"

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 100	Volume Recovered: 70
Source of Release: Pipeline	Date and Hour of Occurrence: 01/24/2012 9:00am	Date and Hour of Discovery: 01/24/2012 9:30am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? M. Bratcher -NM OCD Terry Gregston-BLM	
By Whom? Joe Hernandez	Date and Hour 01/24/2012 3:00pm	
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.*: Bolts on clamp rotted. Transfer pump was running and caused water to leak and run down lease road south about 100 yards. Shut down leases and replaced with new piece of pipe and two clamps on both sides. Next day pressure up and no leaks.

Describe Area Affected and Cleanup Action Taken.* : Loco Hills East on 82 to mile marker 137, turn north .3miles leak on west side of lease road. Sucked up water.

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:	
Title: Production Foreman	Approval Date:	Expiration Date:
E-mail Address: jhernandez@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2/01/2012 Phone: 575-942-9492		

* Attach Additional Sheets If Necessary



May 22, 2014

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: TURNER A BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/15/14 13:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

 Received: 05/15/2014
 Reported: 05/22/2014
 Project Name: TURNER A BATTERY
 Project Number: NONE GIVEN
 Project Location: EDDY CO., NM

 Sampling Date: 05/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 1 @ 2' (H401479-01)

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	05/20/2014	ND	1.83	91.7	2.00	1.37	
Toluene*	<0.050	0.050	05/20/2014	ND	1.83	91.6	2.00	1.43	
Ethylbenzene*	<0.050	0.050	05/20/2014	ND	1.76	88.2	2.00	1.56	
Total Xylenes*	<0.150	0.150	05/20/2014	ND	5.53	92.2	6.00	1.68	
Total BTEX	<0.300	0.300	05/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 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	176	16.0	05/19/2014	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	<100	100	05/22/2014	ND	201	100	200	1.21		
DRO >C10-C28	1170	100	05/22/2014	ND	220	110	200	1.57		

Surrogate: 1-Chlorooctane 104 % 65.2-140
Surrogate: 1-Chlorooctadecane 203 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	05/15/2014	Sampling Date:	05/15/2014
Reported:	05/22/2014	Sampling Type:	Soil
Project Name:	TURNER A BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY CO., NM		

Sample ID: SP. 2 @ 2' (H401479-02)

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	05/20/2014	ND	1.83	91.7	2.00	1.37		
Toluene*	<0.050	0.050	05/20/2014	ND	1.83	91.6	2.00	1.43		
Ethylbenzene*	<0.050	0.050	05/20/2014	ND	1.76	88.2	2.00	1.56		
Total Xylenes*	<0.150	0.150	05/20/2014	ND	5.53	92.2	6.00	1.68		
Total BTEX	<0.300	0.300	05/20/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	05/19/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/22/2014	ND	201	100	200	1.21		
DRO >C10-C28	105	10.0	05/22/2014	ND	220	110	200	1.57		

Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 122 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	05/15/2014	Sampling Date:	05/15/2014
Reported:	05/22/2014	Sampling Type:	Soil
Project Name:	TURNER A BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY CO., NM		

Sample ID: SP. 3 @ 2' (H401479-03)

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	05/20/2014	ND	1.83	91.7	2.00	1.37	
Toluene*	<0.050	0.050	05/20/2014	ND	1.83	91.6	2.00	1.43	
Ethylbenzene*	<0.050	0.050	05/20/2014	ND	1.76	88.2	2.00	1.56	
Total Xylenes*	<0.150	0.150	05/20/2014	ND	5.53	92.2	6.00	1.68	
Total BTEX	<0.300	0.300	05/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	608	16.0	05/19/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/22/2014	ND	201	100	200	1.21	
DRO >C10-C28	60.9	10.0	05/22/2014	ND	220	110	200	1.57	

Surrogate: 1-Chlorooctane 117 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	05/15/2014	Sampling Date:	05/15/2014
Reported:	05/22/2014	Sampling Type:	Soil
Project Name:	TURNER A BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY CO., NM		

Sample ID: SP. 4 @ 2' (H401479-04)

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	05/20/2014	ND	1.83	91.7	2.00	1.37		
Toluene*	<0.050	0.050	05/20/2014	ND	1.83	91.6	2.00	1.43		
Ethylbenzene*	<0.050	0.050	05/20/2014	ND	1.76	88.2	2.00	1.56		
Total Xylenes*	<0.150	0.150	05/20/2014	ND	5.53	92.2	6.00	1.68		
Total BTEX	<0.300	0.300	05/20/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	320	16.0	05/19/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/22/2014	ND	201	100	200	1.21		
DRO >C10-C28	<10.0	10.0	05/22/2014	ND	220	110	200	1.57		

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	05/15/2014	Sampling Date:	05/15/2014
Reported:	05/22/2014	Sampling Type:	Soil
Project Name:	TURNER A BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY CO., NM		

Sample ID: SP. 5 @ 4' (H401479-05)

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	05/20/2014	ND	1.83	91.7	2.00	1.37		
Toluene*	<0.050	0.050	05/20/2014	ND	1.83	91.6	2.00	1.43		
Ethylbenzene*	<0.050	0.050	05/20/2014	ND	1.76	88.2	2.00	1.56		
Total Xylenes*	<0.150	0.150	05/20/2014	ND	5.53	92.2	6.00	1.68		
Total BTEX	<0.300	0.300	05/20/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	352	16.0	05/19/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/22/2014	ND	201	100	200	1.21		
DRO >C10-C28	<10.0	10.0	05/22/2014	ND	220	110	200	1.57		

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

 Received: 05/15/2014
 Reported: 05/22/2014
 Project Name: TURNER A BATTERY
 Project Number: NONE GIVEN
 Project Location: EDDY CO., NM

 Sampling Date: 05/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 6 @ 2' (H401479-06)

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	05/20/2014	ND	1.83	91.7	2.00	1.37	
Toluene*	0.054	0.050	05/20/2014	ND	1.83	91.6	2.00	1.43	
Ethylbenzene*	<0.050	0.050	05/20/2014	ND	1.76	88.2	2.00	1.56	
Total Xylenes*	<0.150	0.150	05/20/2014	ND	5.53	92.2	6.00	1.68	
Total BTEX	<0.300	0.300	05/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	05/19/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/22/2014	ND	201	100	200	1.21	
DRO >C10-C28	<10.0	10.0	05/22/2014	ND	220	110	200	1.57	

Surrogate: 1-Chlorooctane 127 % 65.2-140

Surrogate: 1-Chlorooctadecane 153 % 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



Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: <u>Linn Energy</u>		P.O. #:																																																																																																										
Project Manager: <u>Brian Wall</u>		Company: <u>Linn Energy</u>																																																																																																										
Address:		Attn: <u>Brian Wall</u>																																																																																																										
City:	State:	Zip:	Address:																																																																																																									
Phone #:	Fax #:	City:	State:																																																																																																									
Project #:	Project Owner:	Phone #:	Zip:																																																																																																									
Project Name: <u>- 1st spill from WTP</u>		Fax #:																																																																																																										
Project Location: <u>Turner A Battery</u>		Sample Name: <u>Michael Alvarez</u>																																																																																																										
FOR LAB USE ONLY		Lab I.D.:																																																																																																										
Sample I.D.:		Sample I.D.:																																																																																																										
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Lab I.D.</th> <th rowspan="2">Sample I.D.</th> <th rowspan="2">(G)RAB OR (C)OMP.</th> <th rowspan="2"># CONTAINERS</th> <th colspan="6">MATRIX</th> <th rowspan="2">DATE</th> <th rowspan="2">TIME</th> <th rowspan="2">CC</th> <th rowspan="2">TPH</th> <th rowspan="2">BTEX</th> </tr> <tr> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>OIL</th> <th>SLUDGE</th> <th>OTHER :</th> </tr> </thead> <tbody> <tr> <td><u>A44D479</u></td> <td><u>1 SP1 @ 2'</u></td> <td><u>g</u></td> <td><u>1</u></td> <td><u>X</u></td> <td></td> <td></td> <td></td> <td></td> <td><u>5/15/14</u></td> <td><u>9:34</u></td> <td><u>X</u></td> <td><u>X</u></td> <td><u>X</u></td> </tr> <tr> <td></td> <td><u>2 SP2 @ 2'</u></td> <td><u>g</u></td> <td><u>1</u></td> <td><u>X</u></td> <td></td> <td></td> <td></td> <td></td> <td><u>5/15/14</u></td> <td><u>9:50</u></td> <td><u>X</u></td> <td><u>X</u></td> <td><u>X</u></td> </tr> <tr> <td></td> <td><u>3 SP3 @ 2'</u></td> <td><u>g</u></td> <td><u>1</u></td> <td><u>X</u></td> <td></td> <td></td> <td></td> <td></td> <td><u>5/15/14</u></td> <td><u>10:05</u></td> <td><u>X</u></td> <td><u>X</u></td> <td><u>X</u></td> </tr> <tr> <td></td> <td><u>4 SP4 @ 2'</u></td> <td><u>g</u></td> <td><u>1</u></td> <td><u>X</u></td> <td></td> <td></td> <td></td> <td></td> <td><u>5/15/14</u></td> <td><u>10:25</u></td> <td><u>X</u></td> <td><u>X</u></td> <td><u>X</u></td> </tr> <tr> <td></td> <td><u>5 SP5 @ 4'</u></td> <td><u>g</u></td> <td><u>1</u></td> <td><u>X</u></td> <td></td> <td></td> <td></td> <td></td> <td><u>5/15/14</u></td> <td><u>11:20</u></td> <td><u>X</u></td> <td><u>X</u></td> <td><u>X</u></td> </tr> <tr> <td></td> <td><u>6 SP6 @ 2'</u></td> <td><u>g</u></td> <td><u>1</u></td> <td><u>X</u></td> <td></td> <td></td> <td></td> <td></td> <td><u>5/15/14</u></td> <td><u>11:45</u></td> <td><u>X</u></td> <td><u>X</u></td> <td><u>X</u></td> </tr> </tbody> </table>		Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CC	TPH	BTEX	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	<u>A44D479</u>	<u>1 SP1 @ 2'</u>	<u>g</u>	<u>1</u>	<u>X</u>					<u>5/15/14</u>	<u>9:34</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>2 SP2 @ 2'</u>	<u>g</u>	<u>1</u>	<u>X</u>					<u>5/15/14</u>	<u>9:50</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>3 SP3 @ 2'</u>	<u>g</u>	<u>1</u>	<u>X</u>					<u>5/15/14</u>	<u>10:05</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>4 SP4 @ 2'</u>	<u>g</u>	<u>1</u>	<u>X</u>					<u>5/15/14</u>	<u>10:25</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>5 SP5 @ 4'</u>	<u>g</u>	<u>1</u>	<u>X</u>					<u>5/15/14</u>	<u>11:20</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>6 SP6 @ 2'</u>	<u>g</u>	<u>1</u>	<u>X</u>					<u>5/15/14</u>	<u>11:45</u>	<u>X</u>	<u>X</u>	<u>X</u>	RECEIVED BY: <u>Special Services</u> DATE: <u>5/15/14</u> TIME: <u>1:40</u>	
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: _____ Date: _____ Time: _____

Received By: _____ Date: _____ Time: _____

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: 3.62

Sample Condition:
 Cool Intact
 Yes No

CHECKED BY: _____

REMARKS:
 E-mail Results To:
 Rpons@diversifiedfsi.com
 Tjennings@diversifiedfsi.com



May 27, 2014

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: TURNER A BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/16/14 13:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	05/16/2014	Sampling Date:	05/16/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	TURNER A BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY CO., NM		

Sample ID: SP. 1 @ 10' (H401507-01)

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	05/20/2014	ND	2.17	109	2.00	0.100	
Toluene*	<0.050	0.050	05/20/2014	ND	2.17	108	2.00	0.742	
Ethylbenzene*	<0.050	0.050	05/20/2014	ND	2.07	103	2.00	0.395	
Total Xylenes*	<0.150	0.150	05/20/2014	ND	6.48	108	6.00	0.119	
Total BTEX	<0.300	0.300	05/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	384	16.0	05/21/2014	ND	416	104	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	05/22/2014	ND	201	101	200	7.89	
DRO >C10-C28	<10.0	10.0	05/22/2014	ND	224	112	200	10.1	

Surrogate: 1-Chlorooctane 120 % 65.2-140

Surrogate: 1-Chlorooctadecane 119 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

 Received: 05/16/2014
 Reported: 05/27/2014
 Project Name: TURNER A BATTERY
 Project Number: NONE GIVEN
 Project Location: EDDY CO., NM

 Sampling Date: 05/16/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 2 @ 2' (H401507-02)

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	05/20/2014	ND	2.17	109	2.00	0.100	
Toluene*	<0.050	0.050	05/20/2014	ND	2.17	108	2.00	0.742	
Ethylbenzene*	<0.050	0.050	05/20/2014	ND	2.07	103	2.00	0.395	
Total Xylenes*	<0.150	0.150	05/20/2014	ND	6.48	108	6.00	0.119	
Total BTEX	<0.300	0.300	05/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	176	16.0	05/21/2014	ND	416	104	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	05/22/2014	ND	201	101	200	7.89	
DRO >C10-C28	<10.0	10.0	05/22/2014	ND	224	112	200	10.1	

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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



Celey D. Keene, Lab Director/Quality Manager

