



Turner B #99

REMEDIATION WORK PLAN

API No. 30-015-26621

Release Date: 02/07/2012

Unit Letter L, Section 29, Township 17 South, Range 31 East

RP# 2RP-1054

BLM Event# NU12070TG

April 20, 2014

Prepared by:

Michael Burton, Environmental Operations Director

Diversified Field Service, Inc.

3412 N. Dal Paso

Hobbs, NM 88240

Phone: (575)964-8394

Fax: (575)393-8396

Mike Bratcher
Environmental Specialist
NM Oil Conservation District – Division 2
811 S. First St.
Artesia, NM 88210

RE: Linn Energy Turner B #99 – Remediation Work Plan
UL/L, Section 29, T17S, R31E
API No. 30-015-26621
NMOCD Case #: 2R-1054

Mr. Bratcher,

Linn Energy (Linn) has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located south west of Maljamar, NM, in Eddy County. The spill resulted from an over pressured line, releasing a total of 5 barrels of produced water and 0.5 barrels of oil, with 2 barrels of produced water and 10 gallons of oil recovered. The impacted area is on the side of the lease road adjacent to the pad. An initial C-141 was submitted to the NMOCD on October 14, 2011, and approved on February 28, 2012 (Appendix I).

Site Assessment and Delineation

On June 30, 2014, DFSI personnel were on site to obtain samples within the leak area (Figure 1). Eight samples were obtained and field sampled for chloride levels, as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). Field samples were submitted for analysis at Cardinal Laboratories of Hobbs, NM to obtain confirmation, resulting in concentrations below NMOCD and BLM regulatory guidelines at a depth of 2' bgs, with the exception of SP1, which occurred at 5' bgs (Appendix II).

DFSI has conducted a groundwater study of the area and has determined, according to the New Mexico Office of the State Engineer, there is no groundwater beneath this site. Therefore, no eminent danger of groundwater impact or threat to life is anticipated (Appendix III).

Conclusion

After careful review DFSI on behalf of Linn Energy would like to propose the following:

Excavate the area around SP1 to a depth of 4' bgs. The remainder of the release area will be scraped 6" bgs. The entire area will be backfilled with clean, imported soil to ground surface and contoured to the surrounding area and then seeded with an approved BLM-NMOCD mix.

Following the approval of the above plan, DFSI will submit all proper closure documentation to the NMOCD and BLM in accordance to the State and Federal Guidelines set forth.

Please feel free to contact me with any questions concerning this remediation plan request.

Sincerely,

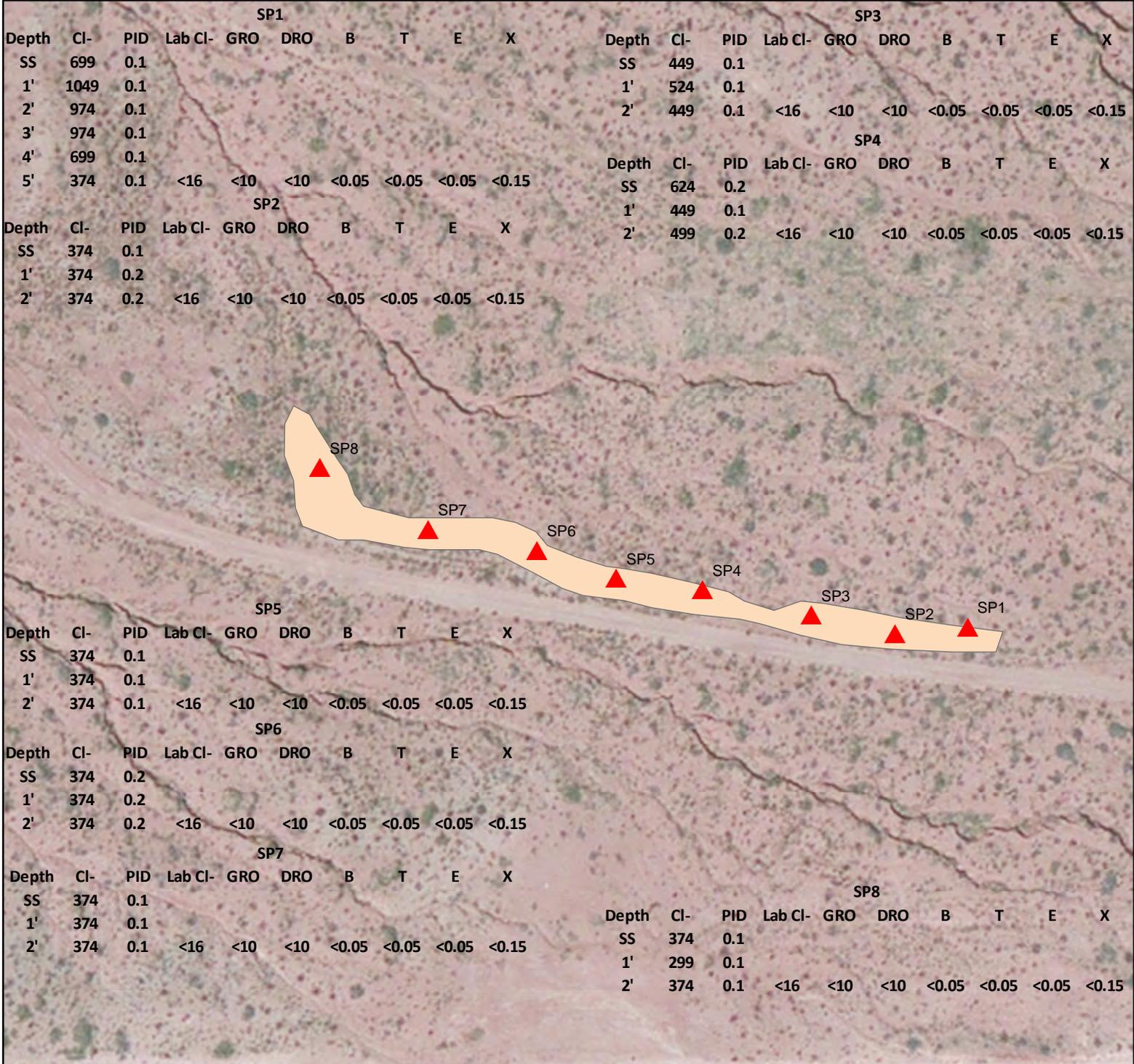


Michael Burton
Environmental Operations Director | Diversified Field Service, Inc.
206 West Snyder | Hobbs, NM 88240
Office: (575)964-8394 | Mobile: (575)390-5454
Fax: (575)964-8396 | Email: Mburton@diversifiedfsi.com

cc Shelly Tucker

Figure 1 – Site Map
Appendix I – Initial C-141
Appendix II – Laboratory Analysis
Appendix III – Groundwater Study

Site Diagram



Legend

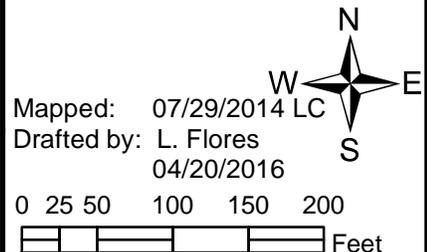
 Sample Points

 Oil and Produced Water (15,461 sq ft)

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Linn
Turner B #99
Unit Letter L, Section 29, T17S, R31E
Eddy County, NM
API #: 30-015-26621
NMOCD Case #: 2R-1054



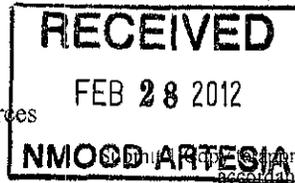
Appendix I

INITIAL C-141

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394

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

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



Form C-141
Revised October 10, 2003
Appropriate District Office in
accordance with 19.15.29 NMAC

REVISED

Release Notification and Corrective Action

NMLB1206131638

OPERATOR

Initial Report Final Report

Name of Company: Linn Operating <i>269324</i>	Contact: Joè Hernandez
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No.: 575-738-1739
Facility Name: Turner B #99	Facility Type: Oil Well

Surface Owner: Federal	Mineral Owner: Federal	API No.: 3001526621
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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
L	29	17S	31E	2590	South	100	West	Eddy

Latitude: 32.8054229524098 Longitude: -103.900125487933

NATURE OF RELEASE

Type of Release: Produced Water/ Oil Condensate	Volume of Release: 5 / .5	Volume Recovered: 2 / 10gal.
Source of Release: Polly Pipeline	Date and Hour of Occurrence: 02/07/2012 1:00pm	Date and Hour of Discovery: 02/07/2012 1:30pm
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 02/07/2012 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.*: 2" Flow line pressured up and clamp gave out

Describe Area Affected and Cleanup Action Taken.* : leaking out 151ft x 2ft wide on side of lease road and next to unit TB #99. A.C.D. Vac Truck. Further remedial action pending.

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>[Signature]</i>	OIL CONSERVATION DIVISION	
Printed Name: Joe Hernandez	Approved by District Supervisor: <i>[Signature]</i>	
Title: Production Foreman	Approval Date: MAR 01 2012	Expiration Date:
E-mail Address: jhernandez@innenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2/28/2012 Phone: 575-942-9492	Remediation per OCD Rules & Guidelines. SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:	

* Attach Additional Sheets If Necessary

4/1/2012

2RP-1054

Appendix II

LABORATORY ANALYSIS

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394



July 07, 2014

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: TURNER B #99

Enclosed are the results of analyses for samples received by the laboratory on 07/01/14 14:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	07/01/2014	Sampling Date:	06/30/2014
Reported:	07/07/2014	Sampling Type:	Soil
Project Name:	TURNER B #99	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP. 1 @ 5' (H401996-01)

BTEX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/03/2014	ND	1.83	91.3	2.00	23.7		
Toluene*	<0.050	0.050	07/03/2014	ND	1.60	79.9	2.00	24.4		
Ethylbenzene*	<0.050	0.050	07/03/2014	ND	1.50	74.9	2.00	23.3		
Total Xylenes*	<0.150	0.150	07/03/2014	ND	4.68	78.0	6.00	25.1		
Total BTEX	<0.300	0.300	07/03/2014	ND						

Surrogate: Dibromofluoromethane 97.9 % 61.3-142

Surrogate: Toluene-d8 104 % 71.3-129

Surrogate: 4-Bromofluorobenzene 93.7 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/03/2014	ND	400	100	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	07/02/2014	ND	178	88.9	200	0.368		
DRO >C10-C28	<10.0	10.0	07/02/2014	ND	188	93.9	200	1.88		

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 122 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 07/01/2014
 Reported: 07/07/2014
 Project Name: TURNER B #99
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/30/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: SP. 2 @ 2' (H401996-02)

BTEX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/04/2014	ND	1.83	91.3	2.00	23.7		
Toluene*	<0.050	0.050	07/04/2014	ND	1.60	79.9	2.00	24.4		
Ethylbenzene*	<0.050	0.050	07/04/2014	ND	1.50	74.9	2.00	23.3		
Total Xylenes*	<0.150	0.150	07/04/2014	ND	4.68	78.0	6.00	25.1		
Total BTEX	<0.300	0.300	07/04/2014	ND						

Surrogate: Dibromofluoromethane 102 % 61.3-142
 Surrogate: Toluene-d8 106 % 71.3-129
 Surrogate: 4-Bromofluorobenzene 99.3 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/03/2014	ND	400	100	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	07/02/2014	ND	178	88.9	200	0.368		
DRO >C10-C28	<10.0	10.0	07/02/2014	ND	188	93.9	200	1.88		

Surrogate: 1-Chlorooctane 109 % 65.2-140
 Surrogate: 1-Chlorooctadecane 115 % 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: 07/01/2014
 Reported: 07/07/2014
 Project Name: TURNER B #99
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/30/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: SP. 3 @ 2' (H401996-03)

BTEX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/04/2014	ND	1.83	91.3	2.00	23.7		
Toluene*	<0.050	0.050	07/04/2014	ND	1.60	79.9	2.00	24.4		
Ethylbenzene*	<0.050	0.050	07/04/2014	ND	1.50	74.9	2.00	23.3		
Total Xylenes*	<0.150	0.150	07/04/2014	ND	4.68	78.0	6.00	25.1		
Total BTEX	<0.300	0.300	07/04/2014	ND						

Surrogate: Dibromofluoromethane 99.9 % 61.3-142
 Surrogate: Toluene-d8 105 % 71.3-129
 Surrogate: 4-Bromofluorobenzene 92.7 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/03/2014	ND	400	100	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	07/02/2014	ND	178	88.9	200	0.368		
DRO >C10-C28	<10.0	10.0	07/02/2014	ND	188	93.9	200	1.88		

Surrogate: 1-Chlorooctane 109 % 65.2-140
 Surrogate: 1-Chlorooctadecane 120 % 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: 07/01/2014
 Reported: 07/07/2014
 Project Name: TURNER B #99
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/30/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: SP. 4 @ 2' (H401996-04)

BTEX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/04/2014	ND	1.83	91.3	2.00	23.7		
Toluene*	<0.050	0.050	07/04/2014	ND	1.60	79.9	2.00	24.4		
Ethylbenzene*	<0.050	0.050	07/04/2014	ND	1.50	74.9	2.00	23.3		
Total Xylenes*	<0.150	0.150	07/04/2014	ND	4.68	78.0	6.00	25.1		
Total BTEX	<0.300	0.300	07/04/2014	ND						

Surrogate: Dibromofluoromethane 100 % 61.3-142

Surrogate: Toluene-d8 105 % 71.3-129

Surrogate: 4-Bromofluorobenzene 93.8 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/03/2014	ND	400	100	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	07/02/2014	ND	183	91.5	200	1.68		
DRO >C10-C28	<10.0	10.0	07/02/2014	ND	199	99.5	200	0.594		

Surrogate: 1-Chlorooctane 95.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.8 % 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:	07/01/2014	Sampling Date:	06/30/2014
Reported:	07/07/2014	Sampling Type:	Soil
Project Name:	TURNER B #99	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP. 5 @ 2' (H401996-05)

BTEX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/04/2014	ND	1.83	91.3	2.00	23.7		
Toluene*	<0.050	0.050	07/04/2014	ND	1.60	79.9	2.00	24.4		
Ethylbenzene*	<0.050	0.050	07/04/2014	ND	1.50	74.9	2.00	23.3		
Total Xylenes*	<0.150	0.150	07/04/2014	ND	4.68	78.0	6.00	25.1		
Total BTEX	<0.300	0.300	07/04/2014	ND						

Surrogate: Dibromofluoromethane 99.2 % 61.3-142

Surrogate: Toluene-d8 104 % 71.3-129

Surrogate: 4-Bromofluorobenzene 96.7 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/03/2014	ND	400	100	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	07/02/2014	ND	183	91.5	200	1.68		
DRO >C10-C28	<10.0	10.0	07/02/2014	ND	199	99.5	200	0.594		

Surrogate: 1-Chlorooctane 91.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.5 % 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:	07/01/2014	Sampling Date:	06/30/2014
Reported:	07/07/2014	Sampling Type:	Soil
Project Name:	TURNER B #99	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP. 6 @ 2' (H401996-06)

BTEX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/04/2014	ND	1.83	91.3	2.00	23.7		
Toluene*	<0.050	0.050	07/04/2014	ND	1.60	79.9	2.00	24.4		
Ethylbenzene*	<0.050	0.050	07/04/2014	ND	1.50	74.9	2.00	23.3		
Total Xylenes*	<0.150	0.150	07/04/2014	ND	4.68	78.0	6.00	25.1		
Total BTEX	<0.300	0.300	07/04/2014	ND						

Surrogate: Dibromofluoromethane 96.6 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 94.9 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/03/2014	ND	400	100	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	07/02/2014	ND	183	91.5	200	1.68		
DRO >C10-C28	<10.0	10.0	07/02/2014	ND	199	99.5	200	0.594		

Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 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:	07/01/2014	Sampling Date:	06/30/2014
Reported:	07/07/2014	Sampling Type:	Soil
Project Name:	TURNER B #99	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP. 7 @ 2' (H401996-07)

BTEX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/04/2014	ND	1.83	91.3	2.00	23.7		
Toluene*	<0.050	0.050	07/04/2014	ND	1.60	79.9	2.00	24.4		
Ethylbenzene*	<0.050	0.050	07/04/2014	ND	1.50	74.9	2.00	23.3		
Total Xylenes*	<0.150	0.150	07/04/2014	ND	4.68	78.0	6.00	25.1		
Total BTEX	<0.300	0.300	07/04/2014	ND						

Surrogate: Dibromofluoromethane 99.2 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 95.0 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/03/2014	ND	400	100	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	07/02/2014	ND	183	91.5	200	1.68		
DRO >C10-C28	<10.0	10.0	07/02/2014	ND	199	99.5	200	0.594		

Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 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: 07/01/2014
 Reported: 07/07/2014
 Project Name: TURNER B #99
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/30/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: SP. 8 @ 2' (H401996-08)

BTEX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/04/2014	ND	1.83	91.3	2.00	23.7		
Toluene*	<0.050	0.050	07/04/2014	ND	1.60	79.9	2.00	24.4		
Ethylbenzene*	<0.050	0.050	07/04/2014	ND	1.50	74.9	2.00	23.3		
Total Xylenes*	<0.150	0.150	07/04/2014	ND	4.68	78.0	6.00	25.1		
Total BTEX	<0.300	0.300	07/04/2014	ND						

Surrogate: Dibromofluoromethane 95.1 % 61.3-142

Surrogate: Toluene-d8 107 % 71.3-129

Surrogate: 4-Bromofluorobenzene 96.9 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/03/2014	ND	400	100	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	07/02/2014	ND	183	91.5	200	1.68		
DRO >C10-C28	<10.0	10.0	07/02/2014	ND	199	99.5	200	0.594		

Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 118 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- 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



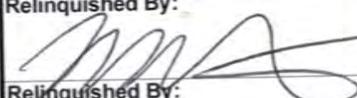
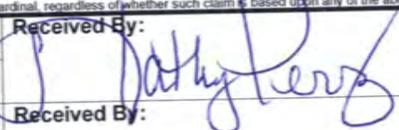
Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Lin Energy</u>		BILL TO				ANALYSIS REQUEST																			
Project Manager: <u>Brian Wall</u>		P.O. #:																							
Address:		Company: <u>Lin Energy</u>																							
City:	State:	Zip:	Attn: <u>Brian Wall</u>																						
Phone #:	Fax #:	Address:		City:																					
Project #:	Project Owner:	State:		Zip:																					
Project Name:	Phone #:			Fax #:																					
Project Location: <u>Turne B99</u>																									
Sampler Name: <u>Michael Altes</u>																									
FOR LAB USE ONLY																									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX												PRESERV.	SAMPLING								
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME											
<u>H401996</u>															<u>CL TOL BTEX</u>										
<u>1</u>	<u>sp. 1 @ 5'</u>	<u>2</u>	<u>1</u>			<u>X</u>							<u>6/30/14</u>	<u>12:00</u>	<u>X</u>	<u>X</u>	<u>X</u>								
<u>2</u>	<u>sp. 2 @ 2'</u>	<u>2</u>	<u>1</u>			<u>X</u>							<u>↑</u>	<u>12:05</u>	<u>X</u>	<u>X</u>	<u>X</u>								
<u>3</u>	<u>sp. 3 @ 2'</u>	<u>2</u>	<u>1</u>			<u>X</u>							<u>↑</u>	<u>12:10</u>	<u>X</u>	<u>X</u>	<u>X</u>								
<u>4</u>	<u>sp. 4 @ 2'</u>	<u>2</u>	<u>1</u>			<u>X</u>							<u>↑</u>	<u>12:15</u>	<u>X</u>	<u>X</u>	<u>X</u>								
<u>5</u>	<u>sp. 5 @ 2'</u>	<u>2</u>	<u>1</u>			<u>X</u>							<u>↑</u>	<u>12:20</u>	<u>X</u>	<u>X</u>	<u>X</u>								
<u>6</u>	<u>sp. 6 @ 2'</u>	<u>2</u>	<u>1</u>			<u>X</u>							<u>↑</u>	<u>12:20</u>	<u>X</u>	<u>X</u>	<u>X</u>								
<u>7</u>	<u>sp. 7 @ 2'</u>	<u>2</u>	<u>1</u>			<u>X</u>							<u>↑</u>	<u>12:10</u>	<u>X</u>	<u>X</u>	<u>X</u>								
<u>8</u>	<u>sp. 8 @ 2'</u>	<u>2</u>	<u>1</u>			<u>X</u>							<u>↓</u>	<u>12:50</u>	<u>X</u>	<u>X</u>	<u>X</u>								

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Relinquished By: 	Date: <u>6/1/14</u>	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: <u>9:50</u>	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Date:	Time:	REMARKS:	
Sampler - UPS - Bus - Other: <u>3.2° +54</u>	Sample Condition	Cool Intact	E-mail Results To:	
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	Ngladden@diversifiedfsi.com	
	CHECKED BY: (Initials)		Rpons@diversifiedfsi.com	
	<u>KP</u>		Tjennings@diversifiedfsi.com	

Appendix III

GROUNDWATER STUDY

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed) (quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
RA 11590 POD1			ED	2	1	3	32	17S	31E	603315	3628545	158		
RA 11590 POD3			ED	3	1	2	32	17S	31E	603932	3629260	60		
RA 11590 POD4			ED	4	1	1	32	17S	31E	603308	3629253	55		

Average Depth to Water: --
Minimum Depth: --
Maximum Depth: --

Record Count: 3

PLSS Search:

Section(s): 19, 20, 21, 28, 29, 30, 31, 32, 33
Township: 17S
Range: 31E

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.