

Linn Energy Turner A #39

CLOSURE REPORT

2RP-2148-0

API No. 30-015-28770

Release Date: 11/06/2013

Unit Letter N, Section 18, Township 17 South, Range 31 East

October 02, 2014

Prepared by:

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

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Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394

Turner A #39

1 INTRODUCTION

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

The site is located west of Maljamar NM, Unit letter 'N', sec. 18, T17S R31E, in Eddy County. The incident at this site location was as the result of a compromised bridle causing flow lines to separate from the well head. There were 6 bbls. of produced water and 15 gals. crude oil that leaked. A vacuum truck was utilized to recover approximately 3 bbls. of produced water, and approximately 10 gls. of standing fluid respectively. New valves were installed to prevent further impact. The aforementioned caused approximately 2,952 sq. ft. of impact to the pad area. (Figure). It is the intention of Linn Energy to restore the site to pre-incident condition, prevention of any groundwater impact and preserve life forms.

A form C-141 was submitted to the NMOCD on November 06, 2013 2RP-2148 (Appendix I)

2 SITE ACTIVITIES

On December 13, 2013 DFSI field personnel paid an initial visit to the site location. DFSI personnel assessed the impacted area by mapping and ascertaining sample point positions. There were five (5) sample points placed in all. A representative soil sample was retrieved at surface and sent to a commercial laboratory for Chloride and TPH analyses. The following is a recap of the results:

SP1 @ Surface returned Chlorides of 2800 mg/kg, BTEX <.300 mg/kg, GRO <50.0 mg/kg, and DRO at 3050 mg/kg.

SP2 @ Surface returned Chlorides of 592 mg/kg, BTEX <.300 mg/kg, GRO<100 mg/kg, and DRO at 8900 mg/kg.

SP3 @ Surface returned Chlorides of 592 mg/kg, BTEX <.300 mg/kg, GRO and DRO were non-detect.

SP4 @ Surface returned Chlorides of 2640 mg/kg, BTEX <.300 mg/kg, GRO and DRO were non-detect.

SP5 @ Surface returned Chlorides of <16.0 mg/kg, BTEX <.300 mg/kg, DRO and DRO were non-detect (Appendix IV).

On April 02, 2014 DFSI personnel reexamined the site in order to fully delineate the site. A representative confirmation sample was taken of all sample points and sent to a commercial laboratory for analyses. The following is a recap of the results:

SP1 @ 1ft. bgs. returned Chlorides of 368 mg/kg, BTEX <.300, GRO <10.0 mg/kg, and DRO of 527 mg/kg.

SP2 @ 1ft. bgs. returned Chlorides of 1710 mg/kg, BTEX <.300 mg/kg, DRO <10.0 mg/kg, and DRO at 56.0 mg/kg.

SP3 @ 2ft. bgs. returned Chlorides of 128 mg/kg, BTEX <.300 mg/kg, GRO and DRO were non-detect.

SP4 @ 2ft. bgs. returned Chlorides of 80.0 mg/kg, BTEX <.300 mg/kg, GRO and DRO were non-detect.

SP5 @2ft. bgs. returned Chlorides of 48.0 mg/kg, BTEX <.300 mg/kg, GRO and DRO were non-detect.

(Appendix IV).

On April 14, 2014 DFSI field personnel returned to the site to further delineate SP1 and SP2 respectively. A representative soil sample was retrieved of SP1 at 3 ft. bgs., as well as of SP2 at 3ft. bgs. These two samples were sent to a commercial laboratory for confirmation. The following is a recap of the analyses:

SP1 returned a result for chloride of 368 mg/kg, BTEX <.300, GRO <10. mg/kg, and DRO of 18.0 mg/kg.

SP2 returned a result for Chloride of 128 mg/kg, BTEX of 2.80 mg/kg, GRO <100 and DRO <100 mg/kg (Appendix IV).

On April 24, 2014 DFSI submitted a proposed remediation plan to the BLM, inclusive of an outline to excavate SP1 thru SP5 to 1.5 ft. bgs. The site would then be backfilled with fresh caliche and contoured to the remaining pad area.

On May 12, 2014 DFSI received authorization from the BLM to proceed with said remediation of the site (Appendix V).

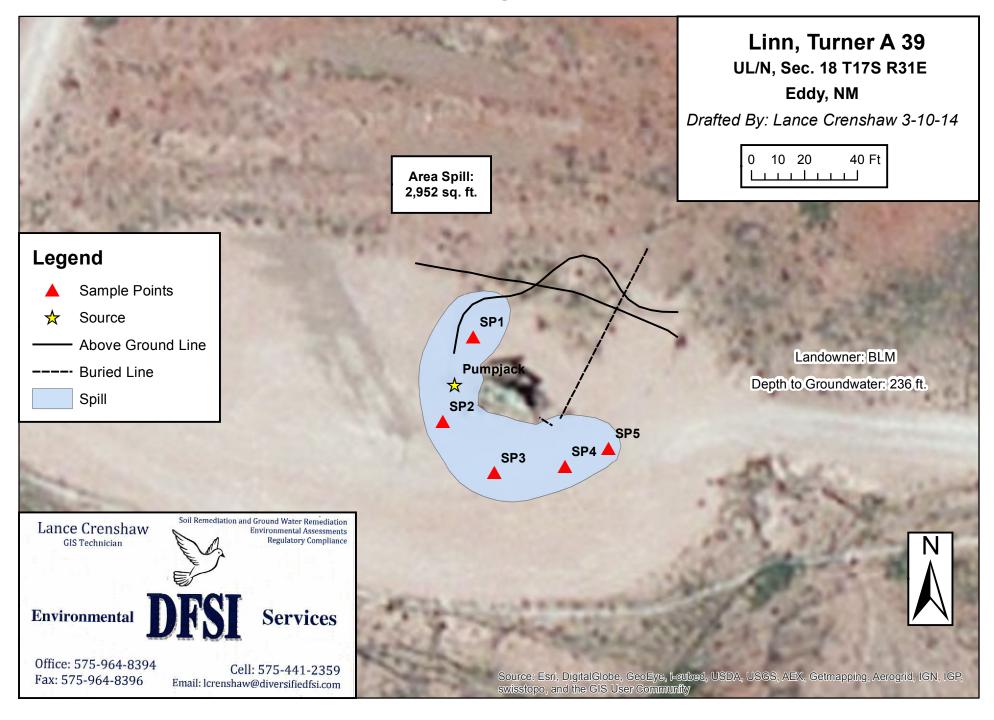
On May 28, 2014 DFSI returned to the site in order to proceed with the excavation. The impacted area was excavated to 1.5 ft. and all impacted soils were disposed of at an NMOCD approved facility. The DFSI field personnel retrieved a bottom and sidewall sample of the excavation at 1ft. bgs. for confirmation of the vertical delineation. The representative soil samples were sent to a commercial laboratory for confirmation. The analyses of BSI returned chloride result of 160 mg/kg and TPH of <50. The chloride result for SW1 North side return for chloride was 48 mg/kg and TPH of <10 mg/kg. The chloride result for SW2 West side was 816 mg/kg and TPH <10 mg/kg. The chloride result for SW3 South side was 128 mg/kg and TPH <10. The chloride result for SW4 East side was 176 mg/kg and TPH <10 mg/kg (Appendix IV).

Photographs of site activities can be viewed in Appendix II.

3 CONCLUSION

According to the U.S. Geological Survey and the NM Office of the State Engineer, there were no records of groundwater in the immediate vicinity, however depth to groundwater in the area averages greater than 236 ft. bgs indicating no potential threat to groundwater or life forms (Appendix III). Based on the removal of soils containing elevated chloride and visual staining at the site, DFSI, on behalf of Linn, submits the final form C-141 (Appendix VI), and respectfully requests the closure of the regulatory file for the site.

Site Diagram



Energy Minerals and Natural Resources Reveal Records With data versus. Artesia, MM 88210 Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Release Notification and Corrective Action Minerals and Natural Resources 05. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 Release Notification and Corrective Action Initial Report Mag Of Congary Lum Operating 269.324 Contact: Brain Wall Contact: Brain Wall ddress: 2130 W. Bender Hobs, NM 88240 Telephone No.: 575.738-139 uiffue Owner: Federal Mineral Owner: Acto Weat April No: 30-015-28770 LOCATION OF RELEASE Early Weat nic Leter Section 175 31E 130 South 2300 Early Monetal Verse of Release: Brown the Monetal Regression of Congression nareetons No as Immediate Notice Given? Volume of Release: 6 bbjs / 15gal Value of Release: Brown briddle. Wall Head hubing and casing howine Data and Hour of Occurrence: 1040/2013 6-30am L106/2013 6-30am 1040/2013 6-30am L106/2013 6-30am 1	,		;		•				DECO			
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gulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger blic 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 ould their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other deral, state, or local laws and/or regulations. gnature:				*	-							
gnature: By Mile Signed By Mile Signed By Mile inted Name: Brian Wall Approved by District Supervisor: MAR 1 0-2014 tle: Construction Foreman IJ Approval Date: Expiration Date:	regulations al public health should their c or the enviro	ll operators or the envir operations h nment. In a	are required t ronment. The ave failed to a ddition, NMC	o report ar acceptanc adequately)CD accep	nd/or file certain i se of a C-141 rep investigate and i	release n ort by the remediat	otifications a e NMOCD m e contaminati	nd perform correct arked as "Final R on that pose a thr	ctive actions for re eport" does not re cat to ground wate	leases which may lieve the operator er, surface water, l	endanger of liability human health	
tle: Construction Foreman [] MAR 1 0 2014 Approval Date: Expiration Date:	ignature:	The al	4						J	<u>I DIVISION</u>		
tle: Construction Foreman (J Approval Date: Expiration Date:	rinted Name	o: Brian Wa	.11				Approved by			CARTUL ST		
mail Address: bwall@linnenergy.com Conditions of Approval: Remediation Attached ate: 11/12/2013 Phone: 806-367-0645 Conditions of Approval: Remediation Attached tach Additional Sheets If Necessary Dece NMOCA Rules & Buildelincs 2RP-21	itle: Constru	uction Fore	man (J					:0:	Expiration			
tach Additional Sheets If Necessary Per NMOCA Rules & Budelines ZRP-21	ate: 11/12/2	2013	P	hone: 806	-367-0645		Conditions of	TApproval:	rediction	Attached		
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Linn Energy Turner A #039 Unit Letter N, Section 18, T17S R31E



Site signage 12/09/13



Impacted area 12/13/13



Source of leak 12/09/13



Sample points 12/13/13

Linn Energy Turner A #039 Unit Letter N, Section 18, T17S R31E



Excavated area 05/28/14



Excavated area SP3 thru SP5



Site at completion

GROUND WATER SEARCH





January 16, 2014

BRIAN WALL

LINN ENERGY

RR1, BOX 24 B

KINGFISHER, OK 73750

RE: TURNER A #39

Enclosed are the results of analyses for samples received by the laboratory on 12/13/13 13:10.

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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



LINN ENERGY BRIAN WALL RR1, BOX 24 B KINGFISHER OK, 73750 Fax To: (405) 375-6693

Received:	12/13/2013	Sampling Date:	12/13/2013
Reported:	01/16/2014	Sampling Type:	Soil
Project Name:	TURNER A #39	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP1 @ SURFACE (H303021-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2013	ND	1.90	95.2	2.00	2.21	
Toluene*	<0.050	0.050	12/18/2013	ND	1.90	95.0	2.00	2.67	
Ethylbenzene*	<0.050	0.050	12/18/2013	ND	1.88	93.8	2.00	4.04	
Total Xylenes*	<0.150	0.150	12/18/2013	ND	5.50	91.7	6.00	3.57	
Total BTEX	<0.300	0.300	12/18/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0 \$	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	12/18/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	12/18/2013	ND	206	103	200	6.55	
DRO >C10-C28	3050	50.0	12/18/2013	ND	206	103	200	7.48	
Surrogate: 1-Chlorooctane	114 %	65.2-14	0						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



LINN ENERGY BRIAN WALL RR1, BOX 24 B KINGFISHER OK, 73750 Fax To: (405) 375-6693

Received:	12/13/2013	Sampling Date:	12/13/2013
Reported:	01/16/2014	Sampling Type:	Soil
Project Name:	TURNER A #39	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP2 @ SURFACE (H303021-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2013	ND	1.90	95.2	2.00	2.21	
Toluene*	<0.050	0.050	12/18/2013	ND	1.90	95.0	2.00	2.67	
Ethylbenzene*	<0.050	0.050	12/18/2013	ND	1.88	93.8	2.00	4.04	
Total Xylenes*	<0.150	0.150	12/18/2013	ND	5.50	91.7	6.00	3.57	
Total BTEX	<0.300	0.300	12/18/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	12/18/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	12/18/2013	ND	206	103	200	6.55	
DRO >C10-C28	8900	100	12/18/2013	ND	206	103	200	7.48	
Surrogate: 1-Chlorooctane	115 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	273 %	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



LINN ENERGY BRIAN WALL RR1, BOX 24 B KINGFISHER OK, 73750 Fax To: (405) 375-6693

Received:	12/13/2013	Sampling Date:	12/13/2013
Reported:	01/16/2014	Sampling Type:	Soil
Project Name:	TURNER A #39	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP3 @ SURFACE (H303021-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/18/2013	ND	1.90	95.2	2.00	2.21	
Toluene*	<0.050	0.050	12/18/2013	ND	1.90	95.0	2.00	2.67	
Ethylbenzene*	<0.050	0.050	12/18/2013	ND	1.88	93.8	2.00	4.04	
Total Xylenes*	<0.150	0.150	12/18/2013	ND	5.50	91.7	6.00	3.57	
Total BTEX	<0.300	0.300	12/18/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	12/18/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/18/2013	ND	206	103	200	6.55	
DRO >C10-C28	<10.0	10.0	12/18/2013	ND	206	103	200	7.48	
Surrogate: 1-Chlorooctane	114 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	120 %	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



LINN ENERGY BRIAN WALL RR1, BOX 24 B KINGFISHER OK, 73750 Fax To: (405) 375-6693

Received:	12/13/2013	Sampling Date:	12/13/2013
Reported:	01/16/2014	Sampling Type:	Soil
Project Name:	TURNER A #39	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP4 @ SURFACE (H303021-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2013	ND	2.01	101	2.00	1.95	
Toluene*	<0.050	0.050	12/19/2013	ND	2.00	100	2.00	1.96	
Ethylbenzene*	<0.050	0.050	12/19/2013	ND	1.97	98.7	2.00	1.62	
Total Xylenes*	<0.150	0.150	12/19/2013	ND	5.78	96.3	6.00	1.35	
Total BTEX	<0.300	0.300	12/19/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	12/18/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/18/2013	ND	191	95.5	200	1.23	
DRO >C10-C28	<10.0	10.0	12/18/2013	ND	183	91.7	200	0.643	
Surrogate: 1-Chlorooctane	121 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	124 9	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



LINN ENERGY BRIAN WALL RR1, BOX 24 B KINGFISHER OK, 73750 Fax To: (405) 375-6693

Received:	12/13/2013	Sampling Date:	12/13/2013
Reported:	01/16/2014	Sampling Type:	Soil
Project Name:	TURNER A #39	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: SP5 @ SURFACE (H303021-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2013	ND	2.01	101	2.00	1.95	
Toluene*	<0.050	0.050	12/19/2013	ND	2.00	100	2.00	1.96	
Ethylbenzene*	<0.050	0.050	12/19/2013	ND	1.97	98.7	2.00	1.62	
Total Xylenes*	<0.150	0.150	12/19/2013	ND	5.78	96.3	6.00	1.35	
Total BTEX	<0.300	0.300	12/19/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/18/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/18/2013	ND	191	95.5	200	1.23	
DRO >C10-C28	<10.0	10.0	12/18/2013	ND	183	91.7	200	0.643	
Surrogate: 1-Chlorooctane	124 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	121 9	63.6-15	4						

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*=Accredited Analyte

Celey D. Keine

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 SM4500CI-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

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

† Cardinal cannot accept v	Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Relinquished By:	Minul Gronez	PLEASE NOTE: Leality and Damages. Cardinal's liability and clent's analyses. All claims including those for negligence and any other cause service. In no event shall Cardinal be liable for incidental or consequent. affiliates or successors arising out of or related to the performance of set	(5 2 5 8 5 5 0 5 2 4 15 50	02 582 850 03 583 850	H303UZI- 1503UZI- 1501 (25 10	Lab I.D. Sam	FOR LAB USE ONLY	Sampler Name: MAM	Project Location:	Project Name: TUI 1 J	Project #:	City:	Address:	2	Company Name: L:MM	101 East Marl (575) 393-232		Labo	CAR	
Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326	Cool Intact Cool Intact V. 4 No No No	Date: Received By:	Time:	xclusive remedy for any whatsoever shall be de al damages, including w vices hereundet by Car		utrice 61 ×	itali qui x	GRO WAS	AB OR (C)C NTAINERS UNDWATER TEWATER		Gover		8#39 *	Project Owner:	State: Zip:		N Wall	energy.	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476		ratories	DINAL	
	CHECKED BY: (Initials)	Bud	Phone Result: [Fax Result: [REMARKS:	ntract or tort, shall be limited to the amount paid by the client for the grand received by Cardinal within 30 days after completion of the applical prins, loss of use, or loss of profits incurred by client, its subsidiaries, faim's based upon any of the above stated reasons or otherwise.		12-13-1	12-13-13	SLUE	ER : /BASE: COOL	IX PRESERV. SAMPLING		Phone #:	State:	Address:	Attn:	Company:	P.O. #:	BILL TO		CHAIN-OF-C			
* the just name changed as per Amy. 1115119 CI	Arutha Liversitien .com	Buralle Linn thersy cam	Yes No Add'I Phone #: Yes No Add'I Fax #:					× B										ANALYSIS REQUEST		CUSTODY AND ANALYSIS REQUEST			

Page 8 of 8



April 09, 2014

BRIAN WALL LINN OPERATING-HOBBS 2130 W. BENDER HOBBS, NM 88240

RE: TURNER A #39

Enclosed are the results of analyses for samples received by the laboratory on 04/03/14 14:00.

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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	04/03/2014	Sampling Date:	04/02/2014
Reported:	04/09/2014	Sampling Type:	Soil
Project Name:	TURNER A #39	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP. 1 @ 1' (H401008-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2014	ND	1.99	99.3	2.00	3.19	
Toluene*	<0.050	0.050	04/07/2014	ND	2.02	101	2.00	2.90	
Ethylbenzene*	<0.050	0.050	04/07/2014	ND	1.99	99.6	2.00	3.10	
Total Xylenes*	<0.150	0.150	04/07/2014	ND	5.73	95.5	6.00	3.00	
Total BTEX	<0.300	0.300	04/07/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	04/07/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/04/2014	ND	163	81.4	200	1.36	
DRO >C10-C28	527	10.0	04/04/2014	ND	181	90.3	200	2.70	
Surrogate: 1-Chlorooctane	121 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	121 %	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/03/2014	Sampling Date:	04/02/2014
Reported:	04/09/2014	Sampling Type:	Soil
Project Name:	TURNER A #39	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP. 2 @ 1' (H401008-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2014	ND	1.99	99.3	2.00	3.19	
Toluene*	<0.050	0.050	04/07/2014	ND	2.02	101	2.00	2.90	
Ethylbenzene*	<0.050	0.050	04/07/2014	ND	1.99	99.6	2.00	3.10	
Total Xylenes*	<0.150	0.150	04/07/2014	ND	5.73	95.5	6.00	3.00	
Total BTEX	<0.300	0.300	04/07/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1710	16.0	04/07/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/04/2014	ND	163	81.4	200	1.36	
DRO >C10-C28	56.0	10.0	04/04/2014	ND	181	90.3	200	2.70	
Surrogate: 1-Chlorooctane	116 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	114 %	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/03/2014	Sampling Date:	04/02/2014
Reported:	04/09/2014	Sampling Type:	Soil
Project Name:	TURNER A #39	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP. 3 @ 2' (H401008-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2014	ND	1.99	99.3	2.00	3.19	
Toluene*	<0.050	0.050	04/07/2014	ND	2.02	101	2.00	2.90	
Ethylbenzene*	<0.050	0.050	04/07/2014	ND	1.99	99.6	2.00	3.10	
Total Xylenes*	<0.150	0.150	04/07/2014	ND	5.73	95.5	6.00	3.00	
Total BTEX	<0.300	0.300	04/07/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/07/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/04/2014	ND	163	81.4	200	1.36	
DRO >C10-C28	<10.0	10.0	04/04/2014	ND	181	90.3	200	2.70	
Surrogate: 1-Chlorooctane	118 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	112 %	63.6-15	4						

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*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/03/2014	Sampling Date:	04/02/2014
Reported:	04/09/2014	Sampling Type:	Soil
Project Name:	TURNER A #39	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP. 4 @ 2' (H401008-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2014	ND	1.99	99.3	2.00	3.19	
Toluene*	<0.050	0.050	04/07/2014	ND	2.02	101	2.00	2.90	
Ethylbenzene*	<0.050	0.050	04/07/2014	ND	1.99	99.6	2.00	3.10	
Total Xylenes*	<0.150	0.150	04/07/2014	ND	5.73	95.5	6.00	3.00	
Total BTEX	<0.300	0.300	04/07/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/07/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/04/2014	ND	163	81.4	200	1.36	
DRO >C10-C28	<10.0	10.0	04/04/2014	ND	181	90.3	200	2.70	
Surrogate: 1-Chlorooctane	116 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	116 %	63.6-15	4						

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*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/03/2014	Sampling Date:	04/02/2014
Reported:	04/09/2014	Sampling Type:	Soil
Project Name:	TURNER A #39	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP. 5 @ 2' (H401008-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	04/07/2014	ND	1.99	99.3	2.00	3.19			
Toluene*	<0.050	0.050	04/07/2014	ND	2.02	101	2.00	2.90			
Ethylbenzene*	<0.050	0.050	04/07/2014	ND	1.99	99.6	2.00	3.10			
Total Xylenes*	<0.150	0.150	04/07/2014	ND	5.73	95.5	6.00	3.00			
Total BTEX	<0.300	0.300	04/07/2014	ND							
Surrogate: 4-Bromofluorobenzene (PID	115 %	% 89.4-12	6								
Chloride, SM4500Cl-B	mg/	kg	Analyze	Analyzed By: AP							
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	48.0	16.0	04/07/2014 ND		416	104	400	3.92			
TPH 8015M	mg/	kg	Analyze	d By: ms							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	04/04/2014	ND	163	81.4	200	1.36			
DRO >C10-C28	<10.0 10.0		04/04/2014 ND		181	90.3	200	2.70			
Surrogate: 1-Chlorooctane	114 %	65.2-14	0								
Surrogate: 1-Chlorooctadecane	110 %	63.6-15	4								

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

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

Cardinal Laboratories

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Lino Energy	BILL TO	TO ANALYSIS REQUEST
Address:	P.O. #:	
	Company: Linn	Enroy
State:	Zip: Attn: Brian Wall	Abil 92
Phone #: Fax #:	Address:	
Project #: Project Owner:	r: City:	
Project Name:	State: Zin:	
Project Location: TUMER A 391 Edge	Phone #:	
" Michael Awa		
FOR LAB USE ONLY	MATRIX PRESERV.	SAMPLING
Lab I.D. Sample I.D.	R : BASE: OOL	
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PLEASE NOTE: Liability and Damages Continuity Installed and an effective set of the set		
those for negligence and any other dinal be liable for incidental or conse out of or related to the performance	In a service remery to any cam arsing whether based in contract or tort, shall be limited to the amount paid by the client for cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the quertal damages, including without limitation, business interruptions, loss of use, or loss of profits include by client, its subdiari of services hereunder by Cardinal, regardless of whether such claim (sbased upon and the above shows have and the services hereunder by Cardinal, regardless of whether such claim (sbased upon and the above shows have a true to the services hereunder by Cardinal, regardless of whether such claim (sbased upon and the above shows have a true to the services hereunder by Cardinal, regardless of whether such claim (sbased upon and the above shows have the services hereunder by Cardinal, regardless of whether such claim (sbased upon and the above shows have the services hereunder by Cardinal, regardless of whether such claim (sbased upon and the source shows have the services hereunder by Cardinal regardless of the service have the services hereunder by Cardinal regardless of the service here services and the services hereunder by Cardinal regardless of the service here services and the services hereunder by Cardinal regardless of the service here services and the services hereunder by Cardinal regardless of the services and the services hereunder by Cardinal regardless of the services and the services hereunder by Cardinal regardless of the services here services and the services here services and there services here services and the servic	nt paid by the client for the ys after completion of the applicable d by client, its subsidiaries,
	Received By:	Phone Result: Yes No Add'I Phone #: Fax Result: Yes No Add'I Fax #: REMARKS:
Relinquished By: Date:	Received By:	E-mail Results To:

↑ Cardinal cannot accept verbal changes. Please fax written changes to (575) 395/2326

7.26

Sample Condition Cool Intact Yes TYes No No No

CHECKED BY:

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

Time:

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



April 22, 2014

BRIAN WALL LINN OPERATING-HOBBS 2130 W. BENDER HOBBS, NM 88240

RE: TURNER A #39

Enclosed are the results of analyses for samples received by the laboratory on 04/14/14 15:40.

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 accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	04/14/2014	Sampling Date:	04/14/2014
Reported:	04/22/2014	Sampling Type:	Soil
Project Name:	TURNER A #39	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 1 @ 3' (H401126-01)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/17/2014	ND	2.68	134	2.00	12.6	
Toluene*	<0.050	0.050	04/17/2014	ND	2.55	127	2.00	13.1	
Ethylbenzene*	<0.050	0.050	04/17/2014	ND	2.53	126	2.00	14.0	
Total Xylenes*	<0.150	0.150	04/17/2014	ND	7.29	122	6.00	13.9	
Total BTEX	<0.300	0.300	04/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 %	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368 16.0		04/16/2014 ND		400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/16/2014	ND	199	99.3	200	1.82	
DRO >C10-C28	18.0	10.0	04/16/2014	ND	218	109	200	2.81	
Surrogate: 1-Chlorooctane	103 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	95.3	63.6-15	1						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/14/2014	Sampling Date:	04/14/2014
Reported:	04/22/2014	Sampling Type:	Soil
Project Name:	TURNER A #39	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 2 @ 3' (H401126-02)

BTEX 8021B	mg,	/kg	Analyze	d By: CK							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	04/17/2014	ND	2.68	134	2.00	12.6			
Toluene*	2.80	0.050	04/17/2014	ND	2.55	127	2.00	13.1			
Ethylbenzene*	<0.050	0.050	04/17/2014	ND	2.53	126	2.00	14.0			
Total Xylenes*	<0.150	0.150	04/17/2014	ND	7.29	122	6.00	13.9			
Total BTEX	2.80	0.300	04/17/2014	ND							
Surrogate: 4-Bromofluorobenzene (PID	120	% 89.4-12	6								
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP								
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	128	16.0	04/16/2014 ND		400	100	400	3.92			
TPH 8015M	mg,	/kg	Analyze	d By: ms							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<100	100	04/16/2014	ND	199	99.3	200	1.82			
DRO >C10-C28	<100	100	04/16/2014	ND	218	109	200	2.81			
Surrogate: 1-Chlorooctane	Surrogate: 1-Chlorooctane 97.2 % 65.2-14										
Surrogate: 1-Chlorooctadecane	117 9										

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Celey D. Keine

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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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

† Cardinal cannot accept verbal ch	Sampler - UPS - Bus - Other:	Delivered By: (Circle One)		Rélinquished By:	A	affliates or successors arising out of or related to the performance of Relinquished By:	analyses. All claims including those for negligence and any other care service. In no event shall Cardinal be liable for incidental or consequ	PI FASE NOTE - I jability and Damones Cardinalse liability and clian				2.2.203	1 50.1@3	HYONZLO	Lab I.D. Sample I.D.		- Norma	Ashed	Project Location: Turner A39	Project Name:	Project #:	Phone #:	City:	Address:	Project Manager: Brion Wall	Company Name: Linn Energy
9	4.60 Tres Tres	Sample Condition	Time:	Date: Received By:	Time 101 101 101	I services hereunder by Cardinal, regardless of whether such claim is base	analyses. All claims including those for negligence and any other is excusive relatively of any varied and wretter users in contract or fur. Statute initiation the annount plata by the cleft for any other the applicable analyses. All claims including those for negligence and any other clause whatsoever shall be deemed waived unless made in writing and received by Cardinal be failed for incidental or consequential damages, including writing third and any other states of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages, including writing third and incidental or consequential damages, including writing third any other states of the source by claim states of politis incurred by client is subsidiaries.	's avelusiva zamadu for anu claim arisino uskathar hasad in nontrad a ko			X	X	X	# CON GROL	AB OR (C NTAINER JNDWA EWATE GE	RS TER R	MATRIX		Edda CO Now Ph	Sta	Project Owner: City:	Fax #: Ad	State: Zip: Att	Co	P	
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	Tjennings@diversifiedfsi.com	Rpons@diversifiedfsi.com	Ngladden@diversifiedfsi.com	E-mail Results To:	□ Yes □ No Add'l Fax #:	t: 🗆 Yes 🗆 No	e splicable						++ I													ANALYSIS REQUEST



June 06, 2014

BRIAN WALL LINN OPERATING-HOBBS 2130 W. BENDER HOBBS, NM 88240

RE: TURNER A #39

Enclosed are the results of analyses for samples received by the laboratory on 05/30/14 13:50.

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 a sterisk (*). 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 accreditated 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,

Mite Smith

Mike Snyder Organic Supervisor



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

Received:	05/30/2014	Sampling Date:	05/28/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	TURNER A #39	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: BS 1 @ 1' (H401671-01)

BTEX 8021B	mg/	kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2014	ND	1.92	95.8	2.00	0.523	
Toluene*	<0.050	0.050	06/05/2014	ND	2.04	102	2.00	0.675	
Ethylbenzene*	<0.050	0.050	06/05/2014	ND	1.83	91.6	2.00	0.338	
Total Xylenes*	<0.150	0.150	06/05/2014	ND	5.80	96.7	6.00	0.173	
Total BTEX	<0.300	0.300	06/05/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7 9	89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/05/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/06/2014	ND	133	66.4	200	7.86	
DRO >C10-C28	<50.0	50.0	06/06/2014	ND	148	73.9	200	11.8	
Surrogate: 1-Chlorooctane	96.9 %	65.2-140)			THE MEAN PAIL			
Surrogate: 1-Chlorooctadecane	119 %	63.6-15-	4						

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim 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.

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Mike Snyder, Organic Supervisor



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

Received:	05/30/2014	Sampling Date:	05/28/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	TURNER A #39	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM	CONSIGNOR CONSIGNATION CONSIGNATION	

Sample ID: SW 1 NORTH (H401671-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2014	ND	1.92	95.8	2.00	0.523	
Toluene*	<0.050	0.050	06/06/2014	ND	2.04	102	2.00	0.675	
Ethylbenzene*	<0.050	0.050	06/06/2014	ND	1.83	91.6	2.00	0.338	
Total Xylenes*	<0.150	0.150	06/06/2014	ND	5.80	96.7	6.00	0.173	
Total BTEX	<0.300	0.300	06/06/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/05/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/06/2014	ND	133	66.4	200	7.86	
DRO >C10-C28	<10.0	10.0	06/06/2014	ND	148	73.9	200	11.8	
Surrogate: 1-Chlorooctane	108 %	65.2-14)						
Surrogate: 1-Chlorooctadecane	104%	63.6-15-	4						

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*=Accredited Analyte

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Mike Snyder, Organic Supervisor



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

Received:	05/30/2014	Sampling Date:	05/28/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	TURNER A #39	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SW 2 WEST (H401671-03)

BTEX 8021B	mg/	ka	Analyze	d By: MS/					
				u by: 115/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	06/06/2014	ND	1.92	95.8	2.00	0.523	
Toluene*	<0.050	0.050	06/06/2014	ND	2.04	102	2.00	0.675	
Ethylbenzene*	<0.050	0.050	06/06/2014	ND	1.83	91.6	2.00	0.338	
Total Xylenes*	<0.150	0.150	06/06/2014	ND	5.80	96.7	6.00	0.173	
Total BTEX	<0.300	0.300	06/06/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.7 9	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	06/05/2014	ND	400	100	400	0.00	
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/06/2014	ND	133	66.4	200	7.86	
DRO >C10-C28	<10.0	10.0	06/06/2014	ND	148	73.9	200	11.8	
Surrogate: 1-Chlorooctane	105 %	65.2-140)						
Surrogate: 1-Chlorooctadecane	112 %	63.6-154	4						

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*=Accredited Analyte

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Mike Snyder, Organic Supervisor



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

Received:	05/30/2014	Sampling Date:	05/28/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	TURNER A #39	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SW 3 SOUTH (H401671-04)

BTEX 8021B	mg/	′kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2014	ND	1.92	95.8	2.00	0.523	
Toluene*	<0.050	0.050	06/06/2014	ND	2.04	102	2.00	0.675	
Ethylbenzene*	<0.050	0.050	06/06/2014	ND	1.83	91.6	2.00	0.338	
Total Xylenes*	<0.150	0.150	06/06/2014	ND	5.80	96.7	6.00	0.173	
Total BTEX	<0.300	0.300	06/06/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 %	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/05/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/06/2014	ND	133	66.4	200	7.86	
DRO >C10-C28	<10.0	10.0	06/06/2014	ND	148	73.9	200	11.8	
Surrogate: 1-Chlorooctane	100 %	65.2-140)						
Surrogate: 1-Chlorooctadecane	103 %	63.6-15-	4						

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*=Accredited Analyte

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Received:	05/30/2014	Sampling Date:	05/30/2014
Reported:	06/06/2014	Sampling Type:	Soil
Project Name:	TURNER A #39	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SW 4 EAST (H401671-05)

BTEX 8021B	mg/	kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2014	ND	1.92	95.8	2.00	0.523	
Toluene*	<0.050	0.050	06/06/2014	ND	2.04	102	2.00	0.675	
Ethylbenzene*	<0.050	0.050	06/06/2014	ND	1.83	91.6	2.00	0.338	
Total Xylenes*	<0.150	0.150	06/06/2014	ND	5.80	96.7	6.00	0.173	
Total BTEX	<0.300	0.300	06/06/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/05/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/06/2014	ND	133	66.4	200	7.86	
DRO >C10-C28	<10.0	10.0	06/06/2014	ND	148	73.9	200	11.8	
Surrogate: 1-Chlorooctane	102 %	6 65.2-14	0						
Surrogate: 1-Chlorooctadecane	106%	63.6-15-	4						

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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 SM4500CI-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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Mike Snyder, Organic Supervisor

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:		
	BILL	ANALYSIS REQUEST
Project Manager: Bright Wall	P.O. #:	
Address:	Company: Ling English	
City: State:	Zip: Attn: Brien Wal	
Phone #: Fax #:	Address:	
Project #: Project Owner:		
Project Name: Sidewalls + bottom samous	State: Zip:	
Project Location: TUNNA A 39	Eddy (0) Phone #:	
Sampler Name: Michael Alust	- / Fax #:	
	MATRIX PRESERV.	SAMPLING
Lab I.D. Sample I.D.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER ACID/BASE ICE / COOL OTHER :	DATE TIME CUTTPH REY
1 BS 1 61" 2 SWI 2004	<pre></pre>	1 9:00 X X
10	1	14
S sull East	2 - X 5/28	1/1 10:30 X X X
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Relinquished By:	Hade Hunden	Phone Result: [] Yes [] No Add'I Phone #: Fax Result: [] Yes [] No Add'I Fax #: REMARKS: F-mail Reculte To:
Time:	C	Ngladden@diversifiedfsi.com
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Natalie Gladden

From: Sent: To: Subject: Van Curen, Jennifer <jvancure@blm.gov> Monday, May 12, 2014 11:02 AM Natalie Gladden Re: FW: Turner A #39

Natalie,

Your plan is approved. Thanks

JENNIFER E VAN CUREN ENVIRONMENTAL PROTECTION SPECIALIST DOI-BLM-CARLSBAD FIELD OFFICE 320 E GREENE ST. CARLSBAD, NM 88220 OFFICE- 575-234-5905 CELL - 575-361-0042 FAX - 575-234-5927

"There are known knowns. These are things we know that we know. There are known unknowns. That is to say, there are things that we know we don't know." Jim Perry

On Mon, May 12, 2014 at 9:27 AM, Natalie Gladden <<u>ngladden@diversifiedfsi.com</u>> wrote:

Good Morning Jennifer,

I hope you had a great weekend! I was wondering if you have had a chance to look at the attached work-plan?

Your help is greatly appreciated.

Natalie Gladden

ENVIRONMENTAL DIRECTOR

DFSI ENVIRONMENTAL SERVICES

CELL: 575-602-1786

OFFICE: 575-964-8394

Fax: 575-964-8396

EMAIL: <u>ngladden@diversifiedfsi.com</u>

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From: Natalie Gladden Sent: Thursday, April 24, 2014 11:14 AM To: Van Curen, Jennifer; James Amos

Cc: Michael Patterson **Subject:** Turner A #39

Please see the attached Remediation Work Plan for the Linn Energy Turner A #39. If you have any questions please contact me.

Thank you and have a great day.

Natalie Gladden

ENVIRONMENTAL DIRECTOR

DFSI ENVIRONMENTAL SERVICES

CELL: 575-602-1786

OFFICE: 575-964-8394

FAX: 575-964-8396

EMAIL: ngladden@diversifiedfsi.com

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From: Rebecca Pons Sent: Thursday, April 24, 2014 10:09 AM To: Natalie Gladden Cc: Michael Patterson Subject: Turner A #39

Good Morning, I have attached the final draft of the remediation plan for the above Linn Energy Site. Please review and if you concur with its submittal to the BLM and NMOCD please forward to the concerned parties.

Thank you and have a great day!

Rebecca Pons

Project Scientist

DFSI Environmental Division

Phone (575)964-8394

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Form C-141 Revised August 8, 2011

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, Inc.	Contact: Brian Wall								
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No. 575-738-1739								
Facility Name: Turner A #39	Facility Type: Oil Producer								
			-						
Surface Owner Federal	Mineral Owner Federal	API No. 30-015-2	8770						

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from	East/West Line	County Eddy
Ν	18	17S	31E	1310	North	2300	West	

Latitude: 32.8308687811363 Longitude -103.909398556665

NATURE OF RELEASE

Type of Release: Produced water/crude	Volume of Release 6bbls/15gal	Volume Re	ecovered 3bbls/10gal					
Source of Release:	Date and Hour of Occurrence	Date and H	lour of Discovery 11/06/2013					
	11/06/13 6:30 A.M.	6:30 A.M.						
Was Immediate Notice Given?	If YES, To Whom?							
🛛 Yes 🗌 No 🗌 Not Required	Mike Burton-BLM Mike Bratcher- NM OCD							
By Whom? Brian Wall	Date and Hour: 11/06/2013 1010							
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.							
🗌 Yes 🖾 No								
If a Watercourse was Impacted, Describe Fully.*								
NA								
Describe Cause of Problem and Remedial Action Taken.* The construction foreman received a call at 6:30 A.M. that the well had a broken bridle and had								
caused flow lines of be separated from the well head. He had a gang put in valves to prevent any further impact. The spill was mostly water with some oil								
present. The volume of produced water was approximately 6bbls of fluid on the ground								
Describe Area Affected and Cleanup Action Taken. The construction foreman arranged for a vacuum truck to recover approximately 3 to 4 bbls of fluid.								
The area impacted measured 2,952 sq. ft. of pad. DFSI was retained to remediate the site.								
		1.1.						
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.								
	OIL CONSER	VATION I	DIVISION					
Tool Pluall	<u></u>	- • • -						
Signature: Fred B Wall								
	Approved by Environmental Specialist:							
Printed Name: Brian Wall								
Title: Construction Foreman II	Approval Date:	pproval Date: Expiration Date:						
	Approval Date.	Expiration D	au.					
E-mail Address: bwall@linnenergy.com	Conditions of Approval:							
			Attached					
Date: 06/10/14 Phone: 806-367-0645								

* Attach Additional Sheets If Necessary