



Linn Energy Skelly Unit #14

CLOSURE REPORT

API No. 30-015-05322

Release Date: September 07, 2012

Unit Letter L, Section 21, Township 17 South, Range 31 East

RP# 2RP-1312

October 9, 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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Skelly Unit #14

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 southwest of Maljamar NM, Unit letter 'L', sec. 21, T17S R31E, in Eddy County. The impacted area at this site resulted from a separation at a fusion weld on a 3" poly line. As a result there was an approximate amount of 7 bbls of combine produced water and crude, of which 3bbls were recovered utilizing a vacuum truck. This impacted an area of 320 sq. ft. of combined pad and pasture area (Figure). Linn Energy submitted a form C-141 to the NMOCD on September 17, 2012 **2RP-1312** (Appendix 1).

2 SITE ACTIVITIES

On April 29, 2014 DFSI personnel visited the site to assess and delineate the site. Soil samples were retrieved from five points at 1ft. bgs. intervals by hand and field titrated for Chlorides and Hydrocarbons. At surface all sample points returned acceptable levels of Chlorides. At 2ft. bgs. Representative samples were sent to a commercial laboratory for confirmation. The following is a recap of the laboratory analyses:

SP1@2 returned Chlorides of 320 mg/kg, BTEX <.300 mg/kg, GRO and DRO are non-detect.

SP2@2 returned Chlorides of <16.0 mg/kg, BTEX <.300 mg/kg, GRO and DRO are non-detect.

SP3@2 returned Chlorides of <16.0 mg/kg, BTEX <.300 mg/kg, GRO and DRO are non-detect.

SP4@2 returned Chlorides of <16.0 mg/kg, BTEX <.300 mg/kg, GRO <50.0 and DRO 950 mg/kg.

SP5@2 returned Chlorides of 32.0 mg/kg, BTEX <.300 mg/kg, GRO and DRO were non-detect.

On Monday May 12, 2014 a proposal to remediate the site was submitted to the BLM.

Based on the above field analyses and laboratory confirmations: the BLM requested composite samples of surface and 6" for confirmation to the extent of impact.

On May 13, 2014 DFSI personnel revisited the site to retrieve the representative soil samples And submit to a commercial laboratory for confirmation. The following is a recap of the returned analyses:

SP1@ Surface returned Chlorides of <16.0 mg/kg, BTEX <.300 mg/kg, GRO and DRO were non-detect.

SP2@ Surface returned Chlorides of <16.0 mg/kg, BTEX <.300 mg/kg, GRO and DRO were non-detect.

SP3 Surface returned Chlorides of <16.0 mg/kg, BTEX <.300 mg/kg, GRO and DRO were non-detect.

SP4 @ Surface returned Chlorides of <16.0 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, GRO and DRO were non-detect.

The following is a recap of representative soil samples taken at 6" bgs., and sent to the commercial laboratory for analyses (Appendix IV):

SP1 @ 6" returned Chlorides of 96.0 mg/kg, BTEX <.300 mg/kg, GRO and DRO were non-detect.

SP2 @ 6" returned Chlorides of <16.0 mg/kg, BTEX <.300 mg/kg, GRO and DRO were non-detect.

SP3 @ 6" returned Chlorides of <16.0 mg/kg, BTEX <.300 mg/kg, GRO and DRO were non-detect.

SP4 @ 6" returned Chlorides of <16.0 mg/kg, BTEX <.300 mg/kg, GRO and DRO were non-detect.

SP5 @ 6" returned Chlorides of <16.0 mg/kg, BTEX <.300 mg/kg, GRO and DRO were non-detect.

Based on the above analyses and the confirmation that the surface and 6" bgs. returned acceptable levels of Chlorides, as well as other soil constituents; permission was granted by the BLM official to rip and reseed the surface of the impacted area.

Photographs of site activities can be viewed in Appendix II.

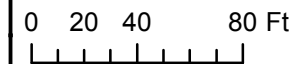
3 CONCLUSION

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). On June 17, 2014 DFSI personnel ripped and reseeded the pasture area with 50 lbs. of Native Lesser Prairie Chicken seed mixture per the BLM Guidelines. With restoration of vegetation, the permeation of the vadose zone by residual Chlorides is minimized. 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 VII), and respectfully requests the closure of the regulatory file for the site.






Site Diagram

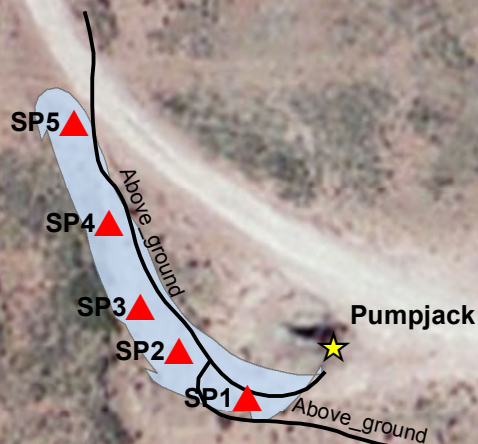
Linn, Skelly 14
UL/L, Sec. 21, T17S R31E
Eddy, NM

Drafted By: Lance Crenshaw, 3-6-14



Legend

-  Sample Points
-  Source
-  Above Ground Line
-  Buried Line
-  Spill



Spill Area:
3,101 sq. ft.

Landowner: BLM

Depth to Groundwater: 236 ft.

Lance Crenshaw
GIS Technician

Soil Remediation and Ground Water Remediation
Environmental Assessments
Regulatory Compliance



Environmental

DFSI

Services

Office: 575-964-8394
Fax: 575-964-8396

Cell: 575-441-2359
Email: lcrenshaw@diversifiedfsi.com



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

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

State of New Mexico
Energy Minerals and Natural Resources

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

RECEIVED

SEP 19 2012

Form C-141
Revised October 10, 2003

Submit to appropriate District Office in accordance with 19.15.29 NMAC

Release Notification and Corrective Action

nJMW/1228553129

OPERATOR

☒ Initial Report ☐ Final Report

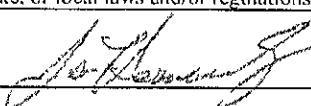
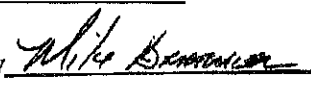
Name of Company: Linn Operating 269324	Contact: Joe Hernandez	
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No.: 575-738-1739	
Facility Name: Skelly Unit # 14	Facility Type: Oil Producer	
Surface Owner: Federal	Mineral Owner: Federal	API No.: 3001505322

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	21	17S	31E	1980	South	660	West	Eddy

Latitude: 32.8182612307726 Longitude: -103.881153130687

NATURE OF RELEASE

Type of Release: Produced Water / Oil	Volume of Release: 2bbls / 5bbls	Volume Recovered: 0 / 3bbls
Source of Release: Poly Pipeline	Date and Hour of Occurrence: 09/17/2012 10.30am	Date and Hour of Discovery: 09/17/2012 11am
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 09/17/2012 5pm	
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.*: Marking lease found spill, 3" polyline came apart @ fusion weld		
Describe Area Affected and Cleanup Action Taken.*: area effected 40' x 8' vacuum truck pick 3 bbls oil, fuse line start unit. 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: 	OIL CONSERVATION DIVISION	
Printed Name: Joe Hernandez	Approved by District Supervisor Signed By 	
Title: Production Foreman	Approval Date: OCT 11 2012	Expiration Date:
E-mail Address: jhernandez@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 09/19/2012 Phone: 575-942-9492		

* Attach Additional Sheets If Necessary

Remediation per OCD Rules &
Guidelines. **SUBMIT REMEDIATION
PROPOSAL NOT LATER THAN:**

11/11/12

2RP-1312

Bratcher, Mike, EMNRD

From: Theresa McCracken <TMcCracken@linnenergy.com>
Sent: Wednesday, September 19, 2012 11:43 AM
To: Bratcher, Mike, EMNRD; Terry Gregston (tgregsto@blm.gov)
Cc: Daniel Frick; Chris Golding; Nancy Fitzwater; Terry Callahan; Ron Ragland; Joe Hernandez; Gary Wink
Subject: Linn- Skelly # 14 Initial C-141
Attachments: Skelly # 14 9-17-12.pdf

Please find attached initial C-141 for the above referenced location.

Thank you,



Theresa McCracken

2130 W Bender
Hobbs, NM 88240
T: 505-738-1730 / F: 505-738-1740
tmccracken@linnenergy.com

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Linn Energy Skelly Unit #14

Unit Letter L, Section 21, T17S R31E



Sign marking location 2/13/14



Impacted pad and pasture area 2/13/14



Ripped and seeded pasture area at completion 06/17/2014



Scraped and contoured pad area 06/17/14

GROUND WATER SEARCH

Linn Energy Skelly Unit #14

UL: L Sec: 21 T: 17S R: 31E

Groundwater Depth: 236 ft. averaged

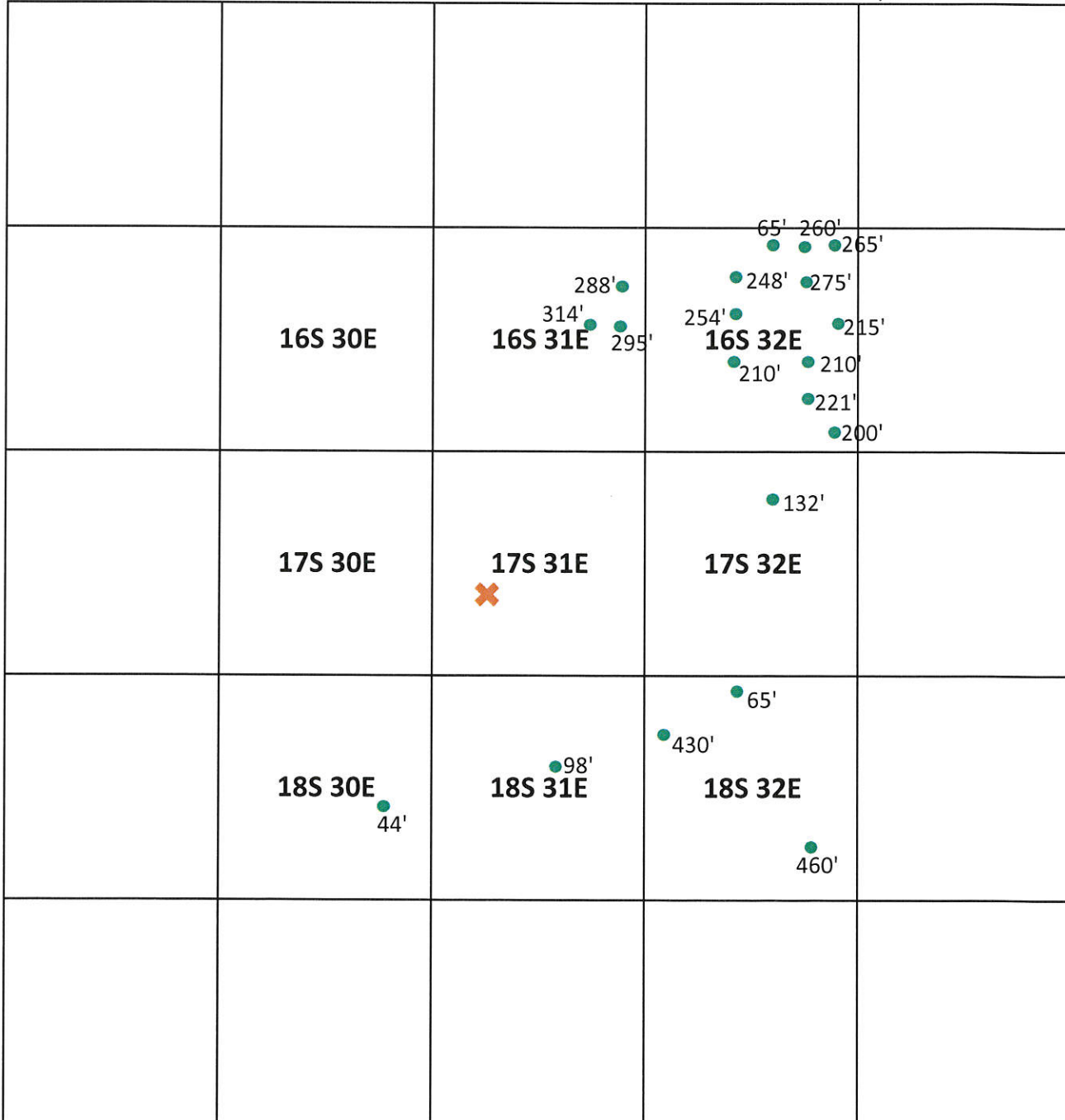
● = NM Office of the State Engineer

● = U.S. Geological Survey (unknown well)

✕ = Site Location

Date: 05/8/13

By: Rebecca Pons





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 05, 2014

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: SKELLY UNIT #14

Enclosed are the results of analyses for samples received by the laboratory on 04/29/14 14:30.

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,

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:	04/29/2014	Sampling Date:	04/29/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	SKELLY UNIT #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP. 1 @ 2' (H401282-01)

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	05/05/2014	ND	2.12	106	2.00	3.25	
Toluene*	<0.050	0.050	05/05/2014	ND	2.19	109	2.00	5.85	
Ethylbenzene*	<0.050	0.050	05/05/2014	ND	2.13	107	2.00	5.20	
Total Xylenes*	<0.150	0.150	05/05/2014	ND	6.55	109	6.00	4.91	
Total BTEX	<0.300	0.300	05/05/2014	ND					

Surrogate: Dibromofluoromethane 93.1 % 61.3-142

Surrogate: Toluene-d8 105 % 71.3-129

Surrogate: 4-Bromofluorobenzene 98.0 % 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	320	16.0	05/01/2014	ND	400	100	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/02/2014	ND	174	86.8	200	1.74	
DRO >C10-C28	<10.0	10.0	05/02/2014	ND	199	99.3	200	3.05	

Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 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:	04/29/2014	Sampling Date:	04/29/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	SKELLY UNIT #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP. 2 @ 2' (H401282-02)

BTX 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	05/05/2014	ND	2.12	106	2.00	3.25	
Toluene*	<0.050	0.050	05/05/2014	ND	2.19	109	2.00	5.85	
Ethylbenzene*	<0.050	0.050	05/05/2014	ND	2.13	107	2.00	5.20	
Total Xylenes*	<0.150	0.150	05/05/2014	ND	6.55	109	6.00	4.91	
Total BTX	<0.300	0.300	05/05/2014	ND					

Surrogate: Dibromofluoromethane 94.2 % 61.3-142
Surrogate: Toluene-d8 107 % 71.3-129
Surrogate: 4-Bromofluorobenzene 101 % 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	05/01/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/02/2014	ND	174	86.8	200	1.74	
DRO >C10-C28	<10.0	10.0	05/02/2014	ND	199	99.3	200	3.05	

Surrogate: 1-Chlorooctane 126 % 65.2-140
Surrogate: 1-Chlorooctadecane 123 % 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:	04/29/2014	Sampling Date:	04/29/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	SKELLY UNIT #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP. 3 @ 2' (H401282-03)

BTX 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	05/05/2014	ND	2.12	106	2.00	3.25		
Toluene*	<0.050	0.050	05/05/2014	ND	2.19	109	2.00	5.85		
Ethylbenzene*	<0.050	0.050	05/05/2014	ND	2.13	107	2.00	5.20		
Total Xylenes*	<0.150	0.150	05/05/2014	ND	6.55	109	6.00	4.91		
Total BTX	<0.300	0.300	05/05/2014	ND						

Surrogate: Dibromofluoromethane 94.4 % 61.3-142

Surrogate: Toluene-d8 109 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 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	05/01/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/02/2014	ND	174	86.8	200	1.74	
DRO >C10-C28	<10.0	10.0	05/02/2014	ND	199	99.3	200	3.05	

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 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:	04/29/2014	Sampling Date:	04/29/2014
Reported:	05/05/2014	Sampling Type:	Soil
Project Name:	SKELLY UNIT #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP. 4 @ 2' (H401282-04)

BTX 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	05/05/2014	ND	2.12	106	2.00	3.25	
Toluene*	<0.050	0.050	05/05/2014	ND	2.19	109	2.00	5.85	
Ethylbenzene*	<0.050	0.050	05/05/2014	ND	2.13	107	2.00	5.20	
Total Xylenes*	<0.150	0.150	05/05/2014	ND	6.55	109	6.00	4.91	
Total BTX	<0.300	0.300	05/05/2014	ND					

Surrogate: Dibromofluoromethane 95.6 % 61.3-142
Surrogate: Toluene-d8 105 % 71.3-129
Surrogate: 4-Bromofluorobenzene 101 % 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	05/01/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	05/02/2014	ND	174	86.8	200	1.74	
DRO >C10-C28	950	50.0	05/02/2014	ND	199	99.3	200	3.05	

Surrogate: 1-Chlorooctane 103 % 65.2-140
Surrogate: 1-Chlorooctadecane 180 % 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: 04/29/2014
 Reported: 05/05/2014
 Project Name: SKELLY UNIT #14
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 5 @ 2' (H401282-05)

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	05/05/2014	ND	2.12	106	2.00	3.25	
Toluene*	<0.050	0.050	05/05/2014	ND	2.19	109	2.00	5.85	
Ethylbenzene*	<0.050	0.050	05/05/2014	ND	2.13	107	2.00	5.20	
Total Xylenes*	<0.150	0.150	05/05/2014	ND	6.55	109	6.00	4.91	
Total BTEx	<0.300	0.300	05/05/2014	ND					

Surrogate: Dibromofluoromethane 93.1 % 61.3-142
 Surrogate: Toluene-d8 107 % 71.3-129
 Surrogate: 4-Bromofluorobenzene 104 % 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	32.0	16.0	05/01/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/02/2014	ND	174	86.8	200	1.74	
DRO >C10-C28	<10.0	10.0	05/02/2014	ND	199	99.3	200	3.05	

Surrogate: 1-Chlorooctane 111 % 65.2-140
 Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Linn Energy</u>		P.O. #:		BILL TO												ANALYSIS REQUEST																													
Project Manager: <u>Brian Wall</u>				Company: <u>Linn Energy</u>																																									
Address:				Attn: <u>Brian Wall</u>																																									
City:		State:		Zip:																																									
Phone #:		Fax #:		Address:																																									
Project #:		Project Owner:		City:																																									
Project Name:		State:		Zip:																																									
Project Location: <u>Stell 14</u>		Eddy Co NM		Phone #:																																									
Sampler Name: <u>Wad Alu</u>		Fax #:																																											
FOR LAB USE ONLY																																													
Lab I.D.		Sample I.D.																																											
ADDRESS				(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		TPH		BTEX													
1		SP102				1						X														4/29/14		10:00		X		X													
2		SP202				1						X														4/29/14		10:05		X		X													
3		SP302				1						X														10:30		X		X															
4		SP402				1						X														10:45		X		X															
5		SP502				1						X														11:05		X		X															
Relinquished By: <u>[Signature]</u>		Date: <u>4/29/14</u>		Time: <u>8:30</u>		Received By: <u>[Signature]</u>		Date: <u>4/29/14</u>		Time: <u>10:00</u>																																			
Delivered By: (Circle One)		5.20		Sample Condition		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		CHECKED BY: <u>[Signature]</u>																																					
Sampler - UPS - Bus - Other:		5.20		No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>																																							
Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326		5.20																																											



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 19, 2014

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: SKELLY UNIT #14

Enclosed are the results of analyses for samples received by the laboratory on 05/13/14 14:35.

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,

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:	05/13/2014	Sampling Date:	05/13/2014
Reported:	05/19/2014	Sampling Type:	Soil
Project Name:	SKELLY UNIT #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP. 1 @ SURFACE (H401449-01)

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	05/15/2014	ND	1.85	92.4	2.00	5.18		
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75		
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03		
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38		
Total BTEX	<0.300	0.300	05/15/2014	ND						

Surrogate: Dibromofluoromethane 96.3 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 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	05/15/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	

Surrogate: 1-Chlorooctane 117 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

Cardinal Laboratories

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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: 05/13/2014
 Reported: 05/19/2014
 Project Name: SKELLY UNIT #14
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 05/13/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 2 @ SURFACE (H401449-02)

BTX 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	05/15/2014	ND	1.85	92.4	2.00	5.18		
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75		
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03		
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38		
Total BTX	<0.300	0.300	05/15/2014	ND						

Surrogate: Dibromofluoromethane 95.2 % 61.3-142
Surrogate: Toluene-d8 101 % 71.3-129
Surrogate: 4-Bromofluorobenzene 100 % 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	05/15/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	

Surrogate: 1-Chlorooctane 105 % 65.2-140
Surrogate: 1-Chlorooctadecane 104 % 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: 05/13/2014
 Reported: 05/19/2014
 Project Name: SKELLY UNIT #14
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 05/13/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 3 @ SURFACE (H401449-03)

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	05/15/2014	ND	1.85	92.4	2.00	5.18		
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75		
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03		
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38		
Total BTEx	<0.300	0.300	05/15/2014	ND						

Surrogate: Dibromofluoromethane 95.0 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 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	05/15/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 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:	05/13/2014	Sampling Date:	05/13/2014
Reported:	05/19/2014	Sampling Type:	Soil
Project Name:	SKELLY UNIT #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP. 4 @ SURFACE (H401449-04)

BTX 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	05/15/2014	ND	1.85	92.4	2.00	5.18		
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75		
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03		
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38		
Total BTX	<0.300	0.300	05/15/2014	ND						

Surrogate: Dibromofluoromethane 95.1 % 61.3-142
Surrogate: Toluene-d8 101 % 71.3-129
Surrogate: 4-Bromofluorobenzene 102 % 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	05/15/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	

Surrogate: 1-Chlorooctane 109 % 65.2-140
Surrogate: 1-Chlorooctadecane 106 % 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: 05/13/2014
 Reported: 05/19/2014
 Project Name: SKELLY UNIT #14
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 05/13/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 5 @ SURFACE (H401449-05)

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	05/15/2014	ND	1.85	92.4	2.00	5.18		
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75		
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03		
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38		
Total BTEX	<0.300	0.300	05/15/2014	ND						

Surrogate: Dibromofluoromethane 95.4 % 61.3-142
 Surrogate: Toluene-d8 102 % 71.3-129
 Surrogate: 4-Bromofluorobenzene 101 % 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	05/15/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	

Surrogate: 1-Chlorooctane 111 % 65.2-140
 Surrogate: 1-Chlorooctadecane 111 % 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:	05/13/2014	Sampling Date:	05/13/2014
Reported:	05/19/2014	Sampling Type:	Soil
Project Name:	SKELLY UNIT #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP. 1 @ 6" (H401449-06)

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	05/15/2014	ND	1.85	92.4	2.00	5.18		
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75		
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03		
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38		
Total BTEx	<0.300	0.300	05/15/2014	ND						

Surrogate: Dibromofluoromethane 95.3 % 61.3-142
Surrogate: Toluene-d8 102 % 71.3-129
Surrogate: 4-Bromofluorobenzene 104 % 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	96.0	16.0	05/15/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	

Surrogate: 1-Chlorooctane 117 % 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:	05/13/2014	Sampling Date:	05/13/2014
Reported:	05/19/2014	Sampling Type:	Soil
Project Name:	SKELLY UNIT #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP. 2 @ 6" (H401449-07)

BTX 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	05/15/2014	ND	1.85	92.4	2.00	5.18	
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75	
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03	
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38	
Total BTX	<0.300	0.300	05/15/2014	ND					

Surrogate: Dibromofluoromethane 97.2 % 61.3-142
Surrogate: Toluene-d8 102 % 71.3-129
Surrogate: 4-Bromofluorobenzene 101 % 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	05/15/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	

Surrogate: 1-Chlorooctane 110 % 65.2-140
Surrogate: 1-Chlorooctadecane 109 % 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:	05/13/2014	Sampling Date:	05/13/2014
Reported:	05/19/2014	Sampling Type:	Soil
Project Name:	SKELLY UNIT #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP. 3 @ 6" (H401449-08)

BTX 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	05/15/2014	ND	1.85	92.4	2.00	5.18	
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75	
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03	
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38	
Total BTX	<0.300	0.300	05/15/2014	ND					

Surrogate: Dibromofluoromethane 97.0 % 61.3-142
Surrogate: Toluene-d8 103 % 71.3-129
Surrogate: 4-Bromofluorobenzene 101 % 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	05/15/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	

Surrogate: 1-Chlorooctane 110 % 65.2-140
Surrogate: 1-Chlorooctadecane 106 % 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: 05/13/2014
 Reported: 05/19/2014
 Project Name: SKELLY UNIT #14
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 05/13/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 4 @ 6" (H401449-09)

BTX 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	05/15/2014	ND	1.85	92.4	2.00	5.18	
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75	
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03	
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38	
Total BTX	<0.300	0.300	05/15/2014	ND					

Surrogate: Dibromofluoromethane 94.0 % 61.3-142
 Surrogate: Toluene-d8 103 % 71.3-129
 Surrogate: 4-Bromofluorobenzene 103 % 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	05/15/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	

Surrogate: 1-Chlorooctane 115 % 65.2-140
 Surrogate: 1-Chlorooctadecane 115 % 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: 05/13/2014
 Reported: 05/19/2014
 Project Name: SKELLY UNIT #14
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 05/13/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 5 @ 6" (H401449-10)

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	05/15/2014	ND	1.85	92.4	2.00	5.18	
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75	
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03	
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38	
Total BTEX	<0.300	0.300	05/15/2014	ND					

Surrogate: Dibromofluoromethane 98.4 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 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	05/15/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



(575) 393-2326 FAX (575) 393-2476

Page 13 of 13

May 19, 2014

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: SKELLY UNIT #14

Enclosed are the results of analyses for samples received by the laboratory on 05/13/14 14:35.

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,



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:	05/13/2014	Sampling Date:	05/13/2014
Reported:	05/19/2014	Sampling Type:	Soil
Project Name:	SKELLY UNIT #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP. 1 @ SURFACE (H401449-01)

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	05/15/2014	ND	1.85	92.4	2.00	5.18		
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75		
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03		
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38		
Total BTEX	<0.300	0.300	05/15/2014	ND						

Surrogate: Dibromofluoromethane 96.3 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 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	05/15/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	

Surrogate: 1-Chlorooctane 117 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 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: 05/13/2014
 Reported: 05/19/2014
 Project Name: SKELLY UNIT #14
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 05/13/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 2 @ SURFACE (H401449-02)

BTX 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	05/15/2014	ND	1.85	92.4	2.00	5.18		
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75		
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03		
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38		
Total BTX	<0.300	0.300	05/15/2014	ND						

Surrogate: Dibromofluoromethane 95.2 % 61.3-142
Surrogate: Toluene-d8 101 % 71.3-129
Surrogate: 4-Bromofluorobenzene 100 % 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	05/15/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	

Surrogate: 1-Chlorooctane 105 % 65.2-140
Surrogate: 1-Chlorooctadecane 104 % 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: 05/13/2014
 Reported: 05/19/2014
 Project Name: SKELLY UNIT #14
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 05/13/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 3 @ SURFACE (H401449-03)

BTX 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	05/15/2014	ND	1.85	92.4	2.00	5.18		
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75		
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03		
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38		
Total BTX	<0.300	0.300	05/15/2014	ND						

Surrogate: Dibromofluoromethane 95.0 % 61.3-142
 Surrogate: Toluene-d8 102 % 71.3-129
 Surrogate: 4-Bromofluorobenzene 104 % 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	05/15/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	

Surrogate: 1-Chlorooctane 119 % 65.2-140
 Surrogate: 1-Chlorooctadecane 114 % 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: 05/13/2014
 Reported: 05/19/2014
 Project Name: SKELLY UNIT #14
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 05/13/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 4 @ SURFACE (H401449-04)

BTX 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	05/15/2014	ND	1.85	92.4	2.00	5.18		
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75		
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03		
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38		
Total BTX	<0.300	0.300	05/15/2014	ND						

Surrogate: Dibromofluoromethane 95.1 % 61.3-142
Surrogate: Toluene-d8 101 % 71.3-129
Surrogate: 4-Bromofluorobenzene 102 % 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	05/15/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	

Surrogate: 1-Chlorooctane 109 % 65.2-140
Surrogate: 1-Chlorooctadecane 106 % 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:	05/13/2014	Sampling Date:	05/13/2014
Reported:	05/19/2014	Sampling Type:	Soil
Project Name:	SKELLY UNIT #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP. 5 @ SURFACE (H401449-05)

BTX 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	05/15/2014	ND	1.85	92.4	2.00	5.18		
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75		
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03		
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38		
Total BTX	<0.300	0.300	05/15/2014	ND						

Surrogate: Dibromofluoromethane 95.4 % 61.3-142
 Surrogate: Toluene-d8 102 % 71.3-129
 Surrogate: 4-Bromofluorobenzene 101 % 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	05/15/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	

Surrogate: 1-Chlorooctane 111 % 65.2-140
 Surrogate: 1-Chlorooctadecane 111 % 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: 05/13/2014
 Reported: 05/19/2014
 Project Name: SKELLY UNIT #14
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 05/13/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 1 @ 6" (H401449-06)

BTX 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	05/15/2014	ND	1.85	92.4	2.00	5.18		
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75		
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03		
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38		
Total BTX	<0.300	0.300	05/15/2014	ND						

Surrogate: Dibromofluoromethane 95.3 % 61.3-142
 Surrogate: Toluene-d8 102 % 71.3-129
 Surrogate: 4-Bromofluorobenzene 104 % 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	96.0	16.0	05/15/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	

Surrogate: 1-Chlorooctane 117 % 65.2-140
 Surrogate: 1-Chlorooctadecane 114 % 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: 05/13/2014
 Reported: 05/19/2014
 Project Name: SKELLY UNIT #14
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 05/13/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 2 @ 6" (H401449-07)

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	05/15/2014	ND	1.85	92.4	2.00	5.18		
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75		
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03		
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38		
Total BTEX	<0.300	0.300	05/15/2014	ND						

Surrogate: Dibromofluoromethane 97.2 % 61.3-142
Surrogate: Toluene-d8 102 % 71.3-129
Surrogate: 4-Bromofluorobenzene 101 % 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	05/15/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	

Surrogate: 1-Chlorooctane 110 % 65.2-140
Surrogate: 1-Chlorooctadecane 109 % 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:	05/13/2014	Sampling Date:	05/13/2014
Reported:	05/19/2014	Sampling Type:	Soil
Project Name:	SKELLY UNIT #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP. 3 @ 6" (H401449-08)

BTX 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	05/15/2014	ND	1.85	92.4	2.00	5.18		
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75		
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03		
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38		
Total BTX	<0.300	0.300	05/15/2014	ND						

Surrogate: Dibromofluoromethane 97.0 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 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	05/15/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	

Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 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: 05/13/2014
 Reported: 05/19/2014
 Project Name: SKELLY UNIT #14
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 05/13/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 4 @ 6" (H401449-09)

BTX 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	05/15/2014	ND	1.85	92.4	2.00	5.18	
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75	
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03	
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38	
Total BTX	<0.300	0.300	05/15/2014	ND					

Surrogate: Dibromofluoromethane 94.0 % 61.3-142
Surrogate: Toluene-d8 103 % 71.3-129
Surrogate: 4-Bromofluorobenzene 103 % 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	05/15/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	

Surrogate: 1-Chlorooctane 115 % 65.2-140
Surrogate: 1-Chlorooctadecane 115 % 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: 05/13/2014
 Reported: 05/19/2014
 Project Name: SKELLY UNIT #14
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 05/13/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 5 @ 6" (H401449-10)

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	05/15/2014	ND	1.85	92.4	2.00	5.18		
Toluene*	<0.050	0.050	05/15/2014	ND	1.73	86.5	2.00	7.75		
Ethylbenzene*	<0.050	0.050	05/15/2014	ND	1.61	80.7	2.00	8.03		
Total Xylenes*	<0.150	0.150	05/15/2014	ND	4.93	82.2	6.00	6.38		
Total BTEX	<0.300	0.300	05/15/2014	ND						

Surrogate: Dibromofluoromethane 98.4 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 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	05/15/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/17/2014	ND	216	108	200	11.3	
DRO >C10-C28	<10.0	10.0	05/17/2014	ND	238	119	200	12.0	

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



(575) 393-2326 FAX (575) 393-2476

Page 13 of 13

Diversified Field Services, Inc.

Reclamation Form

Site Name: Shelly Unit 14

Legal Description: Unit 14 Sec 21 T17S R31E

Start Date: 6-17-14

Completion Date: 6-17-14

Step 1 Remove caliche and/or all discolored material (soil, caliche, et al) for disposal.

Step 2 Look for any discolored material under pad. Sample and perform field tests. If above limits, remove 1' and resample and test. If sample is still above limits, contact Environmental director before proceeding further.

Step 3 Grid clean area and establish between 2 and 5 sample points.

Step 4 Take appropriate samples and run field tests on samples.

Note: If any samples come back higher than allowed limit or are close to limit, contact environmental director before proceeding.

Step 5 When field sample tests are shown to be acceptable, backfill and contour soil to depth as required.

Step 6 Re-seed reclaimed area with seed required by landowner (BLM) and give seed tag to Environmental Office upon completion.

Seed Type: LPC
Lbs. Used: 50 #

Step 7 Ensure samples are taken to the appropriate Scientific Lab for analyses and **this form** is Returned to the Environmental Office upon job completion.

Notes:

Job completed

Supervisor Signature: Stephen Moore

Bamert Seed Company Inc.

1897 CR 1018 Muleshoe, TX 79347

(800) 262-9892

Permit # TX00905

LPC Sand Shinery with Ragweed and Saltbush 800

NV53474

Description

	Pure Seed	Germ	Dormant	Origin
Bluestem, Big "Kaw" (<i>Andropogon gerardii</i>)	16.49%	95.00%	0.00%	TX
Bluestem, Little "Cimarron" (<i>Schizachyrium scoparium</i>)	7.02%	90.00%	8.00%	TX
Bluestem, Sand "Woodward" (<i>Andropogon hallii</i>)	13.68%	95.00%	0.00%	TX
Bristlegrass, Plains, "VNS" (<i>Setaria vulpiseta</i>)	14.93%	93.00%	0.00%	TX
Coreopsis Plains (<i>Coreopsis tinctoria</i>)	5.48%	97.00%	0.00%	TX
Dropseed, Sand, "VNS" (<i>Sporobolus cryptandrus</i>)	2.74%	95.00%	3.00%	TX
Fourwing saltbush, "VNS" (<i>Atriplex canescens</i>)	15.53%	52.00%	15.00%	NM
Ragweed, Western (<i>Ambrosia L.</i>)	6.79%	9.00%	68.00%	KY

Purity: 83.41%

Inert Matter: 10.19%

Other Crop Seed: 6.37%

Weed Seed: 0.03%

Noxious Weeds: None

Test Date: 01/2014

Net Wt: 25.00 lbs

Bamert Seed Company Inc.

1897 CR 1018 Muleshoe, TX 79347

(800) 262-9892

Permit # TX00905

LPC Sand Shinery W/Fourwing & Ragweed 650#

INV53965

Description

	Pure Seed	Germ	Dormant	Hard Seed	Origin
Bluestem, Big "Kaw" (<i>Andropogon gerardii</i>)	16.62%	95.00%	0.00%	0.00%	TX
Bluestem, Little "Cimarron" (<i>Schizachyrium scoparium</i>)	8.00%	90.00%	8.00%	0.00%	TX
Bluestem, Sand "Woodward" (<i>Andropogon hallii</i>)	13.80%	95.00%	0.00%	0.00%	TX
Bristlegrass, Plains, "VNS" (<i>Setaria vulpiseta</i>)	14.48%	90.00%	0.00%	0.00%	TX
Coreopsis Plains (<i>Coreopsis tinctoria</i>)	5.39%	97.00%	0.00%	0.00%	TX
Dropseed, Sand, "VNS" (<i>Sporobolus cryptandrus</i>)	2.68%	95.00%	3.00%	0.00%	TX
Fourwing saltbush, "VNS" (<i>Atriplex canescens</i>)	15.59%	52.00%	15.00%	0.00%	NM
Ragweed, Western (<i>Ambrosia L.</i>)	6.79%	9.00%	68.00%	0.00%	KY

Purity: 83.35%

Inert Matter: 10.31%

Other Crop Seed: 6.32%

Weed Seed: 0.02%

Noxious Weeds: None

Test Date: 02/2014

Net Wt: 25.00 lbs

Rebecca Pons

From: Van Curen, Jennifer <jvancure@blm.gov>
Sent: Tuesday, May 20, 2014 2:40 PM
To: Rebecca Pons
Cc: Natalie Gladden
Subject: Re: Skelly Unit #14

Rebecca,
Work is approved to commence. 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 Tue, May 20, 2014 at 9:31 AM, Rebecca Pons <rpons@diversifiedfsi.com> wrote:

Good morning,

I am in receipt of the confirmation analyses for surface and 6" bgs. for the above site and have attached them for your review. The chlorides, and BTEX returned acceptable levels. GRO, and DRO are both <10 . All constituents indicated acceptable levels. With your approval, we will proceed with the remediation plan as submitted.

Rebecca Pons

Project Scientist

DFSI Environmental Division

Phone (575)964-8394

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Thank you and have a great day!

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

Submit 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: Skelly Unit #14	Facility Type: Oil Producer	
Surface Owner Federal	Mineral Owner Federal	API No. 30-015-05322

LOCATION OF RELEASE

Unit Letter L	Section 21	Township 17S	Range 31E	Feet from the 1980	North/South Line South	Feet from 660	East/West Line West	County Eddy
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	------------------	------------------------	-------------

Latitude: 32.8182612307726 Longitude -103.881153130687

NATURE OF RELEASE

Type of Release: Produced water/crude	Volume of Release 2bbls/5bbls	Volume Recovered 0/3bbls
Source of Release: Poly Pipeline	Date and Hour of Occurrence 9/17/2012	Date and Hour of Discovery 09/17/12 11:00 A.M.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher NMOCD Terry Gregston BLM	
By Whom? Joe Hernandez	Date and Hour: 09/17/2012 5PM	
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.*
NA

Describe Cause of Problem and Remedial Action Taken.*

While marking the lease a spill was located where a 3" polyline came apart at the fusion weld.

Describe Area Affected and Cleanup Action Taken.

There was a 4"X8' area affected a vacuum truck was utilized to recover 3bbls . DFSI was retained to fully remediate the site according to NMOCD and BLM guidelines.

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 CONSERVATION DIVISION

Signature: <i>Fred B Wall</i>	Approved by Environmental Specialist:	
Printed Name: Brian Wall		
Title: Construction Foreman II	Approval Date:	Expiration Date:
E-mail Address: bwall@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 07/03/2014 Phone: 806-367-0645		

* Attach Additional Sheets If Necessary