

## J L Keel A #11

## **CLOSURE REPORT**

API No. 30-015-05099

Release Date: April 14, 2014

Unit Letter H, Section 07, Township 17 South, Range 31 East

NMOCD Case #: 2R-2276

March 10, 2016

#### Prepared by:

Michael Burton, Environmental Operations Director
Environmental Department
Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
Phone: (575)964-8394

Fax: (575)393-8396

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Linn Energy March 10, 2016

### Linn J L Keel A #11

#### 1 Introduction

Linn Energy (Linn) has retained Diversified Environmental (DFSI) to address environmental issues for the site detailed herein.

The site is located northeast of Loco Hills, NM, in Eddy County. The spill site resulted from an injection line failure. A total of approximately 4 bbls of produced water was released with none recovered. The impacted area is approximately 300 yards, located in the pasture south of the location. An initial C-141 was submitted to the NMOCD on April 16, 2014 and approved on May 1, 2014 (Appendix I).

#### 2 SITE ACTIVITIES

On May 15, 2015, DFSI personnel were on site to obtain samples within the leak area (Appendix II). Four samples were obtained and field sampled for chloride levels, as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). All clean field samples under NMOCD and BLM regulatory guidelines were submitted for laboratory analysis at Cardinal Laboratories of Hobbs, NM to obtain confirmation (Appendix III).

DFSI personnel returned to the site to resample and fully delineate the spill area. An additional four samples were obtained, with all samples resulting in clean, except for SP-2. Due to the Caprock Escarpment, DFSI personnel encountered auger refusal at a depth of 10' bgs at SP-2.

A work plan was submitted to NMOCD and BLM on December 21, 2015, and approved by BLM on January 21, 2016 and NMOCD on February 17, 2016. Beginning February 12, 2016, DFSI personnel were on site to excavate the area to 4' bgs around SP-2 (Appendix IV). At 4 ft bgs, a 20-mil, reinforced poly liner was installed. The excavation was backfilled with clean, imported topsoil to ground surface and contoured to the surrounding area. Contaminated soil was properly disposed of at an NMOCD approved facility. An approximate area of ¼ acre was seeded with LPC mix (Appendix V).

### 3 CONCLUSION

According to the U.S. Geological Survey and the NM Office of the State Engineer, depth to groundwater in the area averages 350 ft. bgs. Based on the report and work completed, any remaining chloride and BTEX components in the vadose zone will not affect groundwater beneath this site, with vegetation expected to return to normal; therefore, DFSI, on behalf of Linn, submits the final C-141 (Appendix VI) and respectfully requests the closure of this regulatory file.

# Appendix I

INITIAL C-141

District 1 t'
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

\* Attach Additional Sheets If Necessary

#### State of New Mexico Energy Minerals and Natural Resources

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

RECEIVED

Form C-141 Revised October 10, 2003

2RP-2276

APR 17 2014
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC

NMOCD ARTESIA

Release Notification and Corrective Action  OPERATOR Initial Report Final Report															
n HM	リスロ	1165	)			OPERAT		Final Report							
Name of Co				76932	4	Contact: Bri	an Wall			ıl Report					
Address: 21			NM 882	240		Telephone N	lo.: 575-738-17	39							
Facility Nan	ne: JL Kee	el A # 11			_ F	Facility Typ	e: Injection								
Surface Ow	ner: Feder	al 5		Mineral O	war:	: API No.: 30-015-05099									
Surface Ow	ilet. I edel	a1 '		Willieral O	WIICI.		<u> </u>		AFLINO	30-013-0	13099				
		Ţ.		LOCA	TION	OF REI	LEASE								
Unit Letter H	Section 07	Township 17S	Feet from the 1980		South Line North	Feet from the 660		West Line County West		Eddy					
		Y		Latitude: 32	.85081	Longitude	e: -103.90279								
		· 9		NATI	HRE	OF RELI	FASE								
Type of Relea	ase: Produc	ed Water / Fre	esh Water	TIA I	OKE		Release: 5 bbls /	10	Volume F	Recovered:	0 / 0				
						bbls	recease, a const		, oranie i						
Source of Re	ease: Fiber	glass line				Date and F 04/14/2014	lour of Occurrenc	e:	Date and 04/14/201	Hour of Dis 4 0800	covery:				
Was Immedia	nte Notice (		Yes 🗌	No Not Rec	quired	If YES, To Mike Burto	Whom? on- BLM Mike	Bratcher	- ·- NM OCI	)					
By Whom? B	rian Wall			*		Date and F	lour 04/15/2014 (	0715							
Was a Water							lume Impacting t		rcourse.						
		j 🗆	Yes 🛚	] No			•								
If a Watercou	rse was Im	pacted, Descr	be Fully.*	·:											
			•												
		•													
Describe Cau	se of Probl	em and Reme	dial Action	n Taken.*: Was no	tified o	f possible inj	ection leak, heade	er pressu	re at the in	jection stati	on was	low. He			
ordered a pur	np truck to	pressure up li	nes with fr	resh water. After p	umping	water into tr	unk line and press	suring u	p lateral lir	ies were op	ened on	e by one to			
find leak, the	2 inch fibe	rglass line fee	ding the #	11 did not hold pre	essure, v	valked line o	ut and found the l	leak on a	ı buried fib	erglass line	approx				
		3													
		ä													
Describe Are	a Affected	and Cleanup A	Action Tak	ten.* : 15 barrels o	f produ	ced water and	fresh water were	e lost to	an affected	l area about	20'W x	50'L.			
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		) <sub>è</sub>													
				is true and compl											
regulations al	i operators or the envi	are required to conment. The	o report an acceptanc	nd/or file certain re se of a C-141 repor	nease no	NMOCD m	10 periorm correct arked as "Final R	ative acti eport" d	ons for reli	eases which leve the one	may ei	idanger Tiability			
				investigate and re											
				tance of a C-141 r	eport do	oes not reliev	e the operator of	responsi	bility for c	ompliance v	vith any	other			
federal, state,	or local lav	vs and/or regu	ılations.					~==:							
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C	77	i				Approved by	District Supervis	or: /	/ ,						
Printed Name	: Brian Wa	<u> </u>	•					$-l_{0}$	no	n					
Title: Constru	uction Fore	man II		- urstri.		Approval Da	le: 5/1/14	<b>,</b>	Expiration	Date:					
		linnenergy.co				Conditions o				Attached					
Date: 04/16/2				-367-0645	_ Re	emediation	per OCD Rule 8	. Guid -							
Attach Addi	tional She	ets If Necess	arv		lika	annrovali	: Maie e	* aniae	unes, &	- 0	^	_			

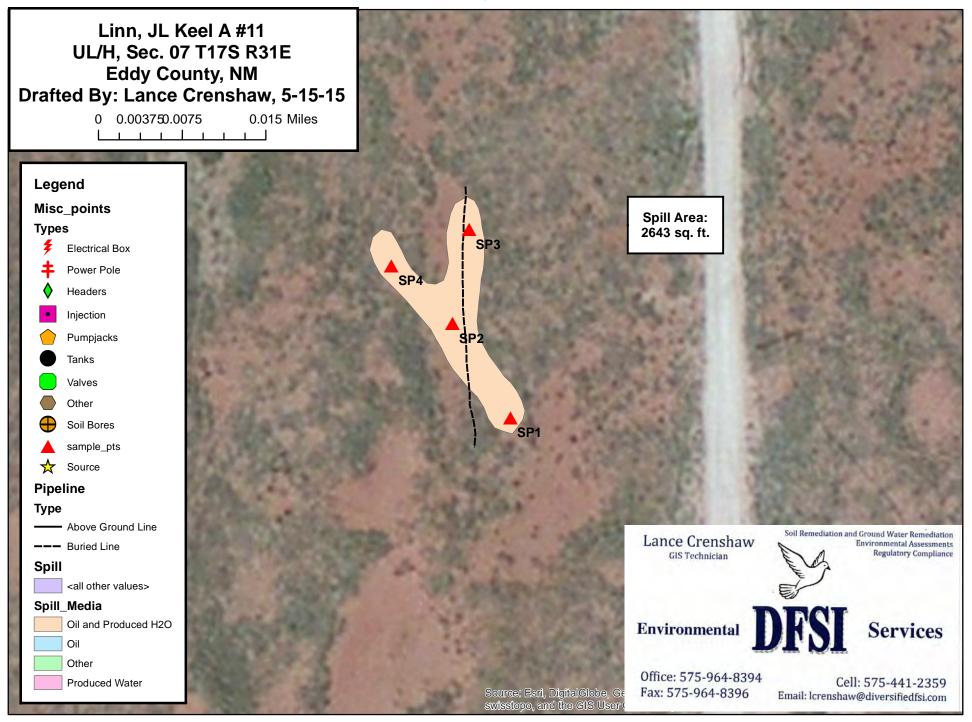
like approval by BLM. SUBMIT REMEDIATION

PROPOSAL NO LATER THAN:

# Appendix II

SITE MAP

### **Site Diagram**



# Appendix III

### **LABORATORY ANALYSES**



December 16, 2015

RICK RICKMAN LINN OPERATING-HOBBS 2130 W. BENDER HOBBS, NM 88240

RE: J. L. KEEL A #11

Enclosed are the results of analyses for samples received by the laboratory on 12/10/15 8:25.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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)

Celey D. Keine

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 RICK RICKMAN 2130 W. BENDER HOBBS NM, 88240

Fax To: (575) 738-1740

Received: 12/10/2015 Sampling Date: 12/09/2015

Reported: 12/16/2015 Sampling Type: Soil

Project Name: J. L. KEEL A #11 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: SAMPLE PT. 1 @ 3' (H503213-01)

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	12/15/2015	ND	1.70	85.2	2.00	0.0320	
Toluene*	< 0.050	0.050	12/15/2015	ND	1.72	85.8	2.00	0.311	
Ethylbenzene*	<0.050	0.050	12/15/2015	ND	1.75	87.7	2.00	0.503	
Total Xylenes*	<0.150	0.150	12/15/2015	ND	5.25	87.4	6.00	0.204	
Total BTEX	<0.300	0.300	12/15/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	6 73.6-14	0						
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	12/11/2015	ND	448	112	400	3.64	
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	12/14/2015	ND	203	101	200	3.17	
DRO >C10-C28	<10.0	10.0	12/14/2015	ND	199	99.5	200	5.34	
Surrogate: 1-Chlorooctane	94.0	% 35-147	,						
Surrogate: 1-Chlorooctadecane	92.6	% 28-171							

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### Analytical Results For:

LINN OPERATING-HOBBS RICK RICKMAN 2130 W. BENDER HOBBS NM, 88240

Fax To: (575) 738-1740

Received: 12/10/2015 Sampling Date: 12/09/2015

Reported: 12/16/2015 Sampling Type: Soil

Project Name: J. L. KEEL A #11 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: SAMPLE PT. 3 @ 3' (H503213-02)

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	12/15/2015	ND	1.70	85.2	2.00	0.0320	
Toluene*	<0.050	0.050	12/15/2015	ND	1.72	85.8	2.00	0.311	
Ethylbenzene*	<0.050	0.050	12/15/2015	ND	1.75	87.7	2.00	0.503	
Total Xylenes*	<0.150	0.150	12/15/2015	ND	5.25	87.4	6.00	0.204	
Total BTEX	<0.300	0.300	12/15/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/11/2015	ND	448	112	400	3.64	
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	12/14/2015	ND	203	101	200	3.17	
DRO >C10-C28	<10.0	10.0	12/14/2015	ND	199	99.5	200	5.34	
Surrogate: 1-Chlorooctane	100 5	% 35-147	,						
Surrogate: 1-Chlorooctadecane	98.1	% 28-171							

Surrogate: 1-Chlorooctadecane 98.1 % 28-171

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### Analytical Results For:

LINN OPERATING-HOBBS RICK RICKMAN 2130 W. BENDER HOBBS NM, 88240

Fax To: (575) 738-1740

Received: 12/10/2015 Sampling Date: 12/09/2015

Reported: 12/16/2015 Sampling Type: Soil

Project Name: J. L. KEEL A #11 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: SAMPLE PT. 4 @ 3' (H503213-03)

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	12/15/2015	ND	1.70	85.2	2.00	0.0320	
Toluene*	<0.050	0.050	12/15/2015	ND	1.72	85.8	2.00	0.311	
Ethylbenzene*	<0.050	0.050	12/15/2015	ND	1.75	87.7	2.00	0.503	
Total Xylenes*	<0.150	0.150	12/15/2015	ND	5.25	87.4	6.00	0.204	
Total BTEX	<0.300	0.300	12/15/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/11/2015	ND	448	112	400	3.64	
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	12/14/2015	ND	203	101	200	3.17	
DRO >C10-C28	<10.0	10.0	12/14/2015	ND	199	99.5	200	5.34	
Surrogate: 1-Chlorooctane	95.2	% 35-147	,						
Surrogate: 1-Chlorooctadecane	95.6	% 28-171							

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



#### **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 \*=Accredited Analyte

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Celeg D. Freene



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	pany Name:   `\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\							BILL TO					HEE						ANA	LY	SIS	RE	QUE	ST				
Project Manager	L11	LT	2.0	Lu	an			P.0	.#:						Г	T												
Address:								Cor	npa	ny:					1						- 1			1				
City:	State:	Zip	:					Attn:						1	1								1					
Phone #:	Fax #:							Address:						1	1													
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	coin							Sta	te:		- 2	Zip:			1						- 1					- 1		
Project Location: JL Keel A #11								Pho	one	#:						-					- 1							
Sampler Name: Chris Flores								_	(#:		_					-										- 1		
FOR LAB USE ONLY		0			MA	ATRI	X	-	PRE	SER	·	SAMPLI	NG							1			1					
Lab I.D.	Sample P. D.	G)(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	1	SLUDGE	OTHER:	ACID/BASE:	VICE / COOL	OTHER:	DATE	TIME 510:30 AM	X	X	TPH.	X R TEX							_				
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affiliales of successors arisi	ng those for negligence and any coner cause whatsever shall clarifinal be liable for incidental or consequental damages, including out of or related to the performance of services hereunder by	/ Cardin	al, reg	ardless	of wheth	her such	h claim	is bas	ed upo	on any	of the	e above stated re	Phone Re	nor.		Yes	. [	No	Add	d'I Pi	none	#:				_		
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# Appendix IV

**SITE PHOTOS** 



# Linn Energy J L Keel A #11

## **PHOTO PAGE**



Site prior, facing northwest



Excavating site, facing northwest



Collecting samples, facing east



Excavation at 4 ft bgs, facing northwest



Excavating site, facing east



Importing clean topsoil, facing southeast



Site completed, facing northwest



Installing 20-mil, reinforced poly liner at 4 ft bgs



Seeding location, facing southeast



Site completed, facing west

# Appendix V

### **SEEDING REPORT**

### **DIVERSIFIED FIELD SERVICES, INC.**

Project: IL Keel ATIL

Seed and lbs used: Y are LPC

Date Started: 2/18/16

Date Completed: 2/18/16

and Curtis, Inc.

4500 North Prince Clovis, NA 88101 Phone: (575) 762 477 www.curtisseed.

Diversified Construction
1/4 ACFE LPC Mix
- 1/4 ACFE '9g @ 9.96 Bulk Pounds Each
- 00: JL Keel A #11

Lut# M-13463-2	1				Total	Test	Total PLS
Item -		Pun y	Germ?	· Dormant	Germinetion	Date	Pounds
Plains Bristley ass	as	5.11%	83 C0%	0.00%	83.00%	09/15	1.25
VNS Sano Bluestem	าร	2.94%	.00%	1.00%	97.00%	11/15	1.25
Chet Little Bluerte	Texas.	~92%	62.00%	33.00%	95,00%	01/16	0.75
Aldous Big Bluestern	Missuri	10.19%	86.00%	7.00%	93.61%	06/15	1.50
K w Coreopsis	Cutalago	5.58%	84.00%	6.00%	90.00%	09/15	0.50
Plains Sand Drop red	Viexico	2.62%	23.00%	73.00%	96.00%	11/15	0.25
VNS Four-Wing Sultbush VNS	New Liexico	21.27%	37.00%	22.00%	59.00%	10/15	1,25

Other Crop: Weed Teed: Inert Matter: 0.31% 0.07% 17.99% There Are 1 Boss For This Mix This Bag Weigh, 9,96 Bulk Pounds Use This Bag For 1/4 Acres

Total Bulk Pourids:

Supervisor:\_\_

# Appendix VI

FINAL C-141

District 1
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

3/3/2016

\* Attach Additional Sheets If Necessary

Phone: 575-504-8002

#### State of New Mexico Energy Minerals and Natural Resources

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.

			Rel	ease Notific		and Co		Action							
				*****************		OPERA'		rection	Initi	al Report		Final Report			
Name of Co	ompany:	Linn Energy			- 1	Contact: EI	- and report								
		der, Hobbs,		40		Telephone No. 575-738-1739									
Facility Na			-1112 502	19			e: Injection	137							
							or sujevener								
Surface Ov	vner: Fede	ral		Mineral (	Owner:				API No	. 30-015-0	5099				
				LOCA	ATIO	N OF RE	LEASE								
Unit Letter H	Section 7	Township 17S	Range 31E	Feet from the 1980	10 0 10 1	South Line North	Feet from 660		est Line	County Eddy					
							e: -103.90279								
					<b>FURE</b>	OF REL	25 194 2 1 1 V								
Type of Rele	ease: Produc	ced Water / Fr	esh Water			Volume of bbls	Release: 5 bbls	s / 10	Volume I	Recovered:	0/0				
Source of Re	elease: Fib	er glass line			- 11	Date and I 04/14/201	Iour of Occurren	nce	Date and 04/14/20	Hour of Dis 14 0800	scovery	Č .			
Was Immed	iate Notice (		Yes [	No □ Not R	Required	If YES, To Whom?									
By Whom?	Brian Wall					Date and Hour: 04/15/2014 0715									
Was a Water		ched?				If YES, Volume Impacting the Watercourse.									
			Yes D	No		N/A									
If a Waterco	urse was Im	pacted, Desci	ibe Fully.	*							_				
Describe Ca ordered a pu	use of Probl mp truck to	em and Reme pressure up li	dial Action	on Taken.* Was no fresh water. After #11 did not hold	r pumpin	g water into	runk line and pr	essuring u	p lateral li	nes were op	ened o	ne by one to			
Describe Ar- were obtained (PID). All c NM to obtain with all sam SP-2. A wo 17, 2016. B liner was ins- soil was pro	ea Affected ed and field elean field sa n confirmati ples resultin rk plan was eginning Fe stalled. The perly dispos	and Cleanup asampled for comples under life. DFSI per g in clean, ex submitted to bruary 12, 20 excavation wed of at an NI	Action Ta hloride le NMOCD rsonnel recept for S NMOCD 16, DFSI as backfil MOCD ap	ken. On May 15, vels, as well as B' and BLM regulate turned to the site t P-2. Due to the C and BLM on Decepersonnel were or led with clean, improved facility. Te is true and comp	2015, DI FEX. Theory guide to resample approach I ember 21 in site to en ported to The site v	FSI personne are BTEX same lines were supple and fully excarpment, I 1, 2015, and a excavate the appsoil to grouwas seeded w	were on site to ples were performed for laborated for labo	obtain sammed using pratory and all area. An encountered on Janua pund SP-2, contoured titive vegeta	nples with the a Mini R the allysis at Control additionated auger reary 21, 20 At 4 ft b to the surration.	in the leak as are Photoion ardinal Labo al four samp fusal at a do 16 and NMO gs, a 20-mil ounding are	orea. Frization oratories were peth of OCD or reinforca. Con	our samples Detector of Hobbs, re obtained, 10° bgs at n February orced poly ntaminated			
regulations a public health should their or the enviro	all operators n or the envi operations h onment. In a	are required to ronment. The nave failed to	o report a acceptanadequatel OCD acce	nd/or file certain ce of a C-141 rep y investigate and ptance of a C-141	release n ort by th remediat	otifications a e NMOCD m e contaminat	nd perform corn arked as "Final ion that pose a the	ective action Report" do hreat to gro	ons for rel oes not rel ound wate	eases which ieve the ope r, surface w	may e erator o ater, hu	ndanger f liability uman health			
Signatur Signatur	e: EL gonz	ales	h			Approved by	OIL CON			DIVISIO	<u>NC</u>				
Title: Produ	1				111	Approval Da	te:	E	expiration	Date:					
E-mail Addı	ess: elgonza	ales@linnener		Conditions of Approval:											