DUKE ENERGY FIELD SERVICES



RP-53
9/27/05

SITE INVESTIGATION, REMEDIATION, AND FINAL C-141 CLOSURE DOCUMENTATION

A-LINE 031502 RELEASE SITE DEFS REF: A-LINE 031502

UL-F (SE¼ of the NW¼) of Section 08 T21S R36E

~1.5 MILE WEST OF OIL CENTER

LEA COUNTY, NEW MEXICO

LATITUDE: 32°29'47.82"N

LONGITUDE: 103°17'15.03"W

OCTOBER 31, 2002

PREPARED BY: JCG

Environmental Plus, Inc.

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P.O. Box 1558

Eunice, NM 88231

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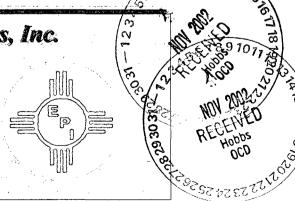


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Executive Summary

Environmental Plus, Inc. (EPI) was notified by Duke Energy Field Services (DEFS) on 15-Mar-02 regarding a pipeline release site involving DEFS' "A-Line" natural gas gathering pipeline. DEFS' initial C-141 (20-Mar-02) indicates a natural gas liquid (NGL) release of 40 bbl, with 30 bbl recovered. The leak was a result of internal pipeline corrosion. Repairs were made on the steel pipeline by DEFS personnel by clamping.

Characterization and remedial work at the site was done by EPI during the period 15-Mar-02 through 11-Apr-02. The "A-Line 031502" site is located 1.5-mile west of Oil Center, NM, in UL-F, Section 08 T21S R36E. The spill occurred on property owned by the Mr. Billy Sartan, 223 N. Moore, Sulphur Spring, TX 75482. The surface extent of the visibly affected spill area was approximately 10,600 ft² (see Plate 3, attachments). The vertical extent of contamination ranged from 2-ft along the northern portion of the access road down to 10-ft in the area associated with the Point of Release (POR).

EPI excavated and disposed of 1064-yd³ of contaminated soil from the site commencing on 15-Mar-02. Composite bottom-hole and sidewall soil samples were submitted to Cardinal Laboratories, Hobbs, NM on 21-Mar-02, 26-Mar-02, 02-Apr-02 and 04-Apr-02. Results of these analyses confirmed that TPH, BTEX, and Benzene levels were below threshold levels throughout the site, and that chloride levels were within acceptable limits (~250 mg/kg) so as to not pose a threat to any ground water present. Ground water was conservatively estimated to be >150-ft bgs.

All contaminated soil removed from the site was disposed of at EPI's land farm. The excavation was backfilled and contoured to prevent pooling. The surface damaged areas beyond road or pipeline rights-of-way will be evaluated for new growth in Spring-2003 and reseeded with natural grasses if deemed necessary at that time.

1.0 Introduction

This report addresses the site investigation and remediation of the Duke Energy Field Services (DEFS) "A-Line 031502" natural gas gathering line remediation site. EPI was notified on March 15, 2002 by DEFS regarding a natural gas and associated NGL release at this site. The initial C-141 Form submitted to NMOCD (20-Mar-02) reports the release volume (NGL) as 40 bbl with 30 bbl recovered. EPI responded that day and commenced GPS delineation, characterization and preliminary excavation of the contaminated soil in the immediate area of the release. The site ultimately consisted of a shallow (2-3-ft) excavation area of ~10,600-ft² (an 85-ft X 85-ft area near the POR and a narrow ~265-ft northerly flow path along the pipeline access road – See Plate 3). A small area (~1200-ft²) in the immediate vicinity of the POR was excavated to a depth of 10-ft bgs to attain soil chloride levels at or below the desired remedial goal of 250 mg/kg. Remedial activities at the site consisted of excavation, soil analyses, backfilling and contouring. Remediation of the site was completed on 11-Apr-02, exclusive of possible re-seeding in Spring-2003.

2.0 Background

The site is associated with the DEFS – A-Line natural gas gathering pipeline terminating at DEFS' Eunice Plant. This release site is located in Unit Letter F, (SE¼ of the NW¼), Section 08, T21S, R36E, (32°29'47.82"N and 103°17'15.03"W), and approximately 1.5 miles west of Oil Center, NM. The property is owned by Billy Sartan, residing in Sulphur Spring, TX. A location map, a topographical map of the site and a detailed GPS site map are included as Attachments 1, 2 and 3.

The natural gas and associated NGL release at this site was discovered on 15-Mar-02. The leak was the result of internal pipe corrosion. The pipe was clamped and repaired by DEFS personnel.

3.0 Site Description

3.1 Geological Description

The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and Ground-Water Conditions in Southern Lea County, New Mexico," A. Nicholson and A. Clebsch, 1961, describes the near surface geology of southern Lea County as "an intergrade of the Quaternary Alluvium (QA) sediments, i.e., fine to medium sand, with the mostly eroded Cenozoic Ogallala (CO) formation. Typically, the QA and CO formations in the area are capped by a thick interbed of caliche and generally overlain by sandy soil." The release site is located in the Eunice Plain physiographic subdivision, described by Nicholson & Clebsch as an area "underlain by a hard caliche surface and is almost entirely covered by reddish-brown dune sand". The thickness of the sand cover ranges from 2-5 feet in most areas to as much as 20-30 feet in drift areas.

3.2 Ecological Description

The area is typical of the Upper Chihuahuan Desert Biome consisting primarily of hummocky sand hills covered with Harvard Shin Oak (Querqus harvardi) interspersed with Honey Mesquite (Prosopis glandulosa) along with typical desert grasses, flowering annuals and flowering perennials. Mammals represented, include Orrd's and Merriam's Kangaroo Rat, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit, Mule Deer, Bobcat, Red Fox and Coyote. Reptiles, Amphibians, and Birds are numerous and typical of area. A survey of Listed, Threatened, or Endangered species was not conducted.

3.3 Area Ground Water

The unconfined ground water aquifer at this site is conservatively estimated to be >150-ft bgs. The site is located in the Eunice Plain physiographic area approximately 1.5-mile west of Oil Center, NM. Water Column Reports obtained from the Office of the NM State Engineer and NM Tech University (below) indicate water depths in the range 106-247-ft bgs in Range 36E and Township 21S (Average = 191-ft bgs). Ground water gradient in this area is generally to the southeast.

Well	Tws	Rng	Sec	Q	Q	Q	Well Depth	Water Depth	Water Columr								
CP734	21S	36E	16	1			215	200	15								
CP505	218	36E	16	2					215	195	20						
CP676	21S	36E	18	4	4 4 1 140		140	106	34								
CP664	218	36E	23	2		185		150	35								
CP484	218	36E	25	4	2		207	148	59								
#4737*	218	36E	29	4	1		305	247	58								
#4715*	218	36E	29	29	29	29	29	29	29	29	29	3	1		244	231	13
#4719*	21S	36E	29	4	2		380	241	139								
#4584*	218	21S 36E 33 2 3 242			242	205	37										
		····································		Aver	age d	epth to	o water =	191									

3.4 Area Water Wells

All recorded wells are greater than 1000 horizontal feet from the site.

3.5 Area Surface Water Features

No surface water bodies exist within 1000 horizontal feet of the site.

4.0 NMOCD Site Ranking

Contaminant delineation and remedial work done at this site indicate that the chemical parameters of the soil and the physical parameters of the ground water were characterized consistent with the characterization and remediation/abatement goals and objectives set forth in the following New Mexico Oil Conservation Division (NMOCD) publications:

- ♦ Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993)
- ♦ Unlined Surface Impoundment Closure Guidelines (February 1993)

Acceptable thresholds for contaminants/constituents of concern (CoCs), i.e., TPH^{8015m}, Benzene, and the mass sum of Benzene, Toluene, Ethyl Benzene, and total Xylenes (BTEX), were determined based on the NMOCD Ranking Criteria as follows:

- Depth to Ground water, i.e., distance from the lower most acceptable concentration to the ground water.
- ♦ Wellhead Protection Area, i.e., distance from fresh water supply wells.
- Distance to Surface Water Body, i.e., horizontal distance to all down gradient surface water bodies.

Based on the proximity of the site to protectable area water wells, surface water bodies, and depth to ground water from the lower most contamination, the NMOCD ranking score for the site is 0 points with the soil remedial goals highlighted in the Site Ranking Matrix presented below.

1. Grou	nd Water	2. Wellhea	d Protection Area	on Area 3. Distance to Surface					
•	W <50 feet: oints		n water source, or; vate domestic water	<200 h	orizontal feet: 20 points				
	50 to 99 feet: oints	_	e: 20 points	200-	-1000 horizontal feet: 10 points				
•	W >100 feet: pints	>200' from pri	rom water source, or; private domestic water >1000 horizontal feet: <i>0 point</i> urce: <i>0 point</i> s						
Ground Wa	ter Score=0	Wellhead Pr	face Water Score= 0						
W 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Site Ran	k (1+2+3) = 0 + 0	+0 = 0 points (for	soil 0-50'	bgs)				
	Total Site Ranl	king Score and A	cceptable Remedial (Goal Con	centrations				
Parameter	20+ (soil 10	0 – 150' bgs)	. Nach Stren Wis	3_3-1	0 (soil 0 - 50' bgs				
Benzene ¹	10	ppm	2.2		10 ppm				
BTEX1	50	ppm			50 ppm				
TPH	100	ppm	5000 ppm						

5.0 Subsurface Soil Investigation

The first subsurface soil analyses were conducted on composite samples taken from the bottom (5-ft) and the sidewalls of the more deeply contaminated area associated with the POR. The analyses results of this initial sampling event (March 21,26, 2002) indicated that chloride contamination of the soil in the area adjacent to the POR was the only concern at depths beyond 5-ft bgs, and that the lateral extents of this central excavation would have to be extended to achieve composite sidewall chloride levels below the remedial goal of 250 mg/kg.

The centralized POR excavation was expanded vertically down to 10-ft, and the lateral extents were increased in all directions. Composite samples were again collected and submitted for analysis on April 2, 2002. Results of this sampling event indicated that the only area of the excavation still exhibiting high chloride levels was the east sidewall. The east-side of the excavation was further extended, sampled on April 4, 2002, and achieved a chloride level of 80 mg/kg.

Laboratory analytical reports, a summary table of all analytical results and graphical representations of the analytical data are provided in the Attachments.

6.0 Ground Water Investigation

Ground water depth is conservatively estimated to be >150-ft bgs at the site. The site was excavated to a maximum depth of 10-feet. CoC levels of the 5-ft bottom-hole and sidewalls of the excavation were analyzed to be within the following ranges: TPH - 0 to 340 ppm; Benzene - 0 to 0.005 ppm; BTEX - 0 to 0.232 ppm; Chlorides - 288 ppm to

832 ppm. Composite samples taken from the 10-ft level were not evaluated for hydrocarbons due to the low levels encountered at the 5-ft level. Chloride levels at the 10-ft level (bottom-hole and sidewall) ranged from 80 ppm to 256 ppm. The excavation was backfilled with clean backfill material. There will be no need for further ground water investigation at this site.

7.0 Remediation

Remediation of the site commenced on 15-Mar-02 and continued through 11-Apr-02. Remediation consisted of excavation and disposal of ~1064 yd³ of contaminated soil. Approximately 600-yd³ was excavated and disposed of from the visibly affected surface area in the release area and along the north flow path. Depth of soil removal was shallow and variable from 2-ft to 5-ft. Approximately 450-yd³ was excavated and disposed of from the area immediately associated with the POR (~1220-ft² to a depth of 10-ft). All contaminated soil removed from the site was disposed of in EPI's approved land farm.

The depth and lateral extent of the POR excavated area was determined by composite bottom-hole and sidewall sampling and certified laboratory analysis. Attenuation levels consistent with NMOCD remedial goals were attained at the site for TPH, BTEX, Benzene and Chlorides (see Section 5.0 – Subsurface Soil Investigation). The site was backfilled and properly contoured to prevent pooling of rainwater on the excavation surface. The surface damaged area will be evaluated for new growth in Spring-2003 and reseeded with natural grasses if deemed necessary at that time.

8.0 Closure Justification

This report documents successful implementation of the Remediation Plan approved by NMOCD for this release site. Soil contaminated above acceptable CoC remedial concentrations was excavated and removed from the location. Disposal of RCRA exempt contaminated soils was at EPI's approved land farm. The excavation was backfilled with clean caliche and top-soil material, and was properly contoured to provide adequate drainage. Based on the data presented in this report, Environmental Plus, Inc., on behalf of Duke Energy Field Services, requests that the NMOCD require "no further action" at this site.

ATTACHMENTS

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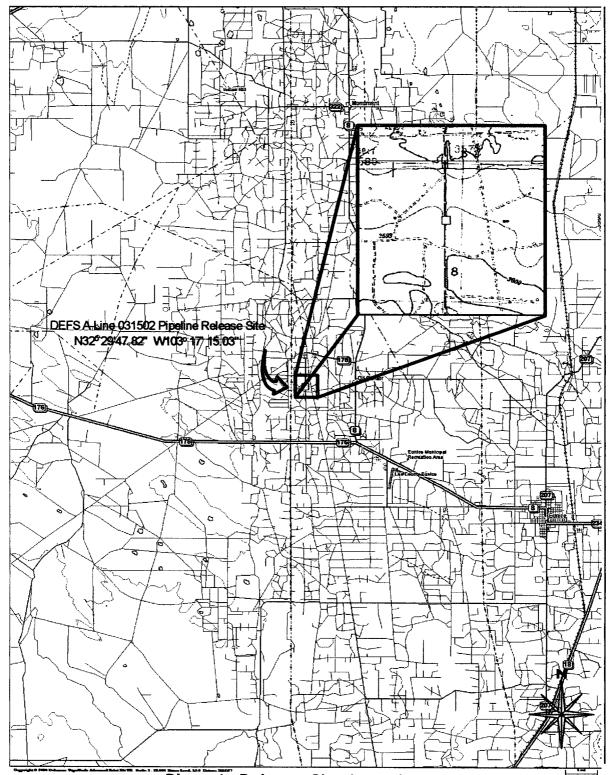


Plate 1: Site Location Map



Plate 1: Release Site Location

Duke Energy Field Services - A-Line 031502

Lea County, NM; UL-F Section 08 T21S R36E

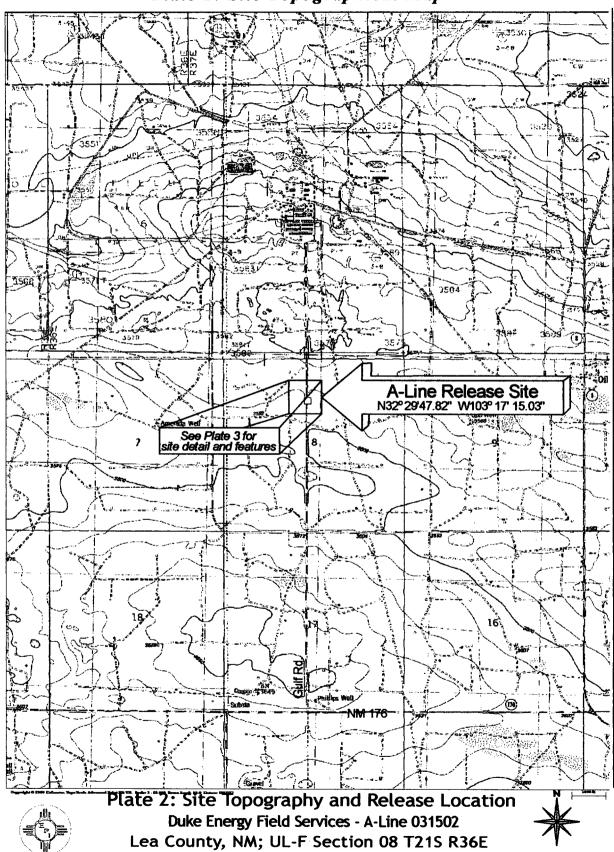


Plate 2: Site Topographical Map

Plate 3: Site Features (GPS Demarcation)

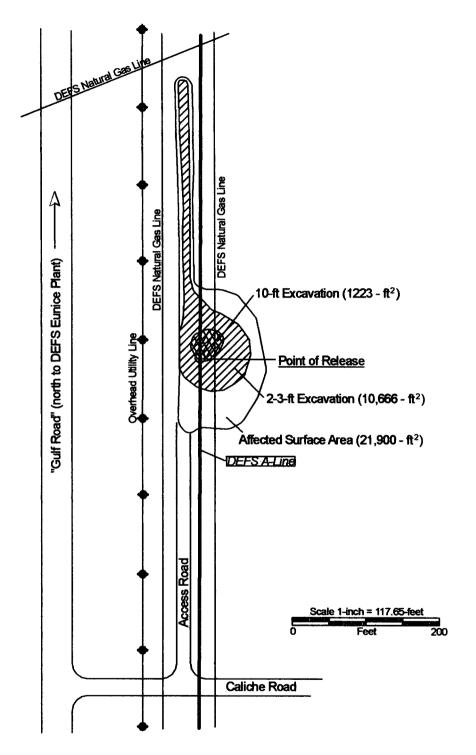




Plate 3: Release Site GPS Demarcation

Duke Energy Field Services - A-Line 031502

Lea County, NM; UL-F Section 08 T21S R36E

Drawn By: JCG Date: Oct-02 Revised:



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Summary Table - Soil Analytical Data

	Duke Energy Field Services - A-Line 031502 - Excavation Composite Sampling Results													
Bold	highlighted cells indi	cate values	in excess of the NMOCD ren	nedial action	guideline th	resholds: Ti	PH = 5000 m	ng/Kg; Benz	ene = 10 mg	/Kg; BTEX :	= 50 mg/Kg;	CI = 250 mg	ı/Kg	
Sample Date	Excavation Sampling Area	Depth (ft - bgs ¹)	SAMPLE ID#	VOC ²	GRO ³ mg/Kg	DRO⁴ mg/Kg	TPH ⁵ mg/Kg	BTEX ⁸ mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethyl Benzene mg/Kg	Total Xylenes mg/Kg	Cl ⁻ mg/Kg	
21-Mar	BottomHole	5-ft	SDAL32102BH	ppin	10	119/13			0.005	0.005	0.005		288.0	
26-Mar		 	00/100/1			' '		0.000	0.000	5.666	5.555			
2-Apr		10-ft	SDAL4202BH										256.0	
4-Apr														
21-Mar	SideWall - South	5-ft	SDAL32102SSW		10	340	350	0.232	0.005	0.058	0.031	0.138	400.0	
26-Mar														
2-Apr		10-ft	SDAL4202SSW										160.0	
4-Apr														
21-Mar	SideWall - East	5-ft	SDAL32102ESW		10	10	20	0.030	0.005	0.005	0.005	0.015	388.0	
26-Mar			 			·····								
2-Apr		10-ft	SDAL4202ESW										20794.0	
4-Apr		10-ft	SDAL4402ESW							,			80.0	
21-Mar	SideWall - West	5-ft	SDAL32102WSW		10	10	20	0.030	0.005	0.005	0.005	0.015	112.0	
26-Mar														
2-Apr		10-ft	SDAL4202WSW				i		_				832.0	
4-Apr		10-ft	SDAL4402WSW	-									96.0	
21-Mar	SideWall - North													
26-Mar		5-ft	SDAL32602NSW		10	10	20	0.030	0.005	0.005	0.005	0.015	304.0	
2-Apr		10-ft	SDAL4202NSW										144.0	
4-Apr														

¹ bgs = below ground surface
² VOC = Volatile Organic Constituents; (note: 100 ppm Isobutylene calibration gas = 101 ppm)

BTEX = Sum of CoC's (Detection Limits = 0.005 mg/Kg; 0.015 mg/Kg) Note: Reported detection limits are considered "de minimus" values and are included in the TPH and BTEX summations.

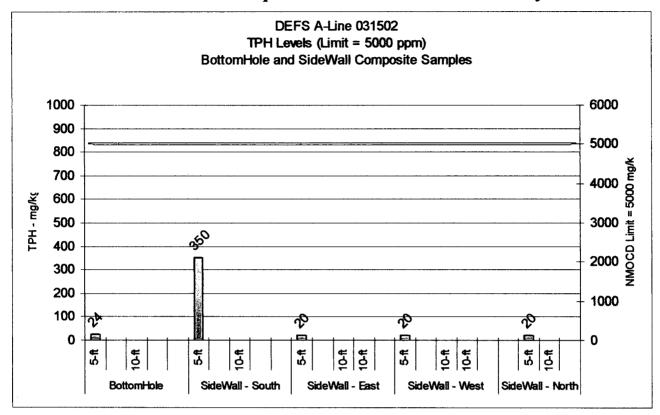


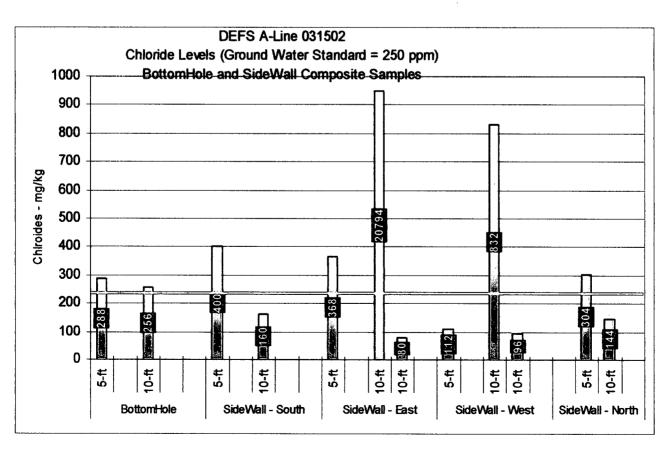
SGRO - Gasoline Range Organics (Detection Limit = 10 mg/Kg)

* DRO - Diesel Range Organics (Detection Limit = 10 mg/Kg)

* TPH - Total Petroleum Hydrocarbon (GRO+DRO)

Bar Charts: Composite TPH and Chloride Analysis





Lab Analysis Reports and Chain-of-Custody Forms

All analyses performed by Cardinal Laboratories, Hobbs, New Mexico



ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: PAT McCASLAND

P.O.BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 03/21/02 Reporting Date: 03/22/02

Project Owner: DUKE

Project Name: DUKE A LINE Project Location: OIL CENTER

Sampling Date: 03/21/02

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC Analyzed By: BC/HM

	GRO	DRO	
	(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	CI*
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)

ANALYSIS	DATE	03/21/02	03/21/02	03/22/02
H6610-1	SDAL32102SSW	<10.0	340	400
H6610-2	SDAL32102ESW	<10.0	<10.0	368
H6610-3	SDAL32102WSW	<10.0	<10.0	112
H6610-4	SDAL32102BH	<10.0	13.6	288
Quality Con	itrol	776	743	980
True Value	QC	800	800	1000
% Recovery	1	97.0	92.9	98.0
Relative Pe	rcent Difference	3.7	3.9	6.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI⁻: Std. Methods 4500-CI⁻B *Analyses performed on 1:4 w:v aqueous extracts.

CHemist J SHA GOODLE

Date



ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: PAT McCASLAND

P.O.BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 03/21/02 Reporting Date: 03/22/02

Project Owner: DUKE

Project Name: DUKE A LINE

Project Location: OIL CENTER

Sampling Date: 03/21/02

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DA	TE	03/21/02	03/21/02	03/21/02	03/21/02
H6610-1	SDAL32102SSW	<0.005	0.058	0.031	0.138
H6610-2	SDAL32102ESW	<0.005	<0.005	<0.005	<0.015
H6610-3	SDAL32102WSW	<0.005	<0.005	<0.005	<0.015
H6610-4	SDAL32102BH	<0.005	<0.005	<0.005	<0.015
Quality Control		0.109	0.104	0.105	0.304
True Value QC		0.100	0.100	0.100	0.300
% Recovery		109	104	105	101
Relative Perce	nt Difference	7.6	2.8	2.3	3.0

METHOD: EPA SW-846 8260

Chemis

Date

Cardinal Laboratories Inc.

2111 Beechwood, Abilene, TX 79603 915-673-7001 Fax 915-673-7020 101 East Marland, Hobbs, NM 88240 505-393-2326 Fax 505-393-2476

Company 1	Name Environmental Plu	ıs II	VC					性學		Bil	1,To		ne die	dine.	Analysis Request									
Project Mai	nager Pat McCasland											-												i
Address	BOX 1558																				l			
City, State, Zip Eunice New Mexico 88231																		i						
Phone#/Fax# 505-394-3481 / 505-394-2601						<		SA	\MI	Ξ						ĺ								
Project #/Owner Duke																								
Project Name Duke A Line												8021B	Σ				İ							
Project Location Oil Center												802	101	៦										
Sampler Na	ame CODY MILLER														BTEX	TPH 8015M	٥							
		P.				MA'	TRIX			PF	RESER	V.	SAMI	LING	BT	Ŧ								
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CUDE OIL	BOOM	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	тіме										
H6610-1	SDAL32102SSW	С	1			X					X		3/21/02	12:10	Х	X	X							
	SDAL32102ESW	U	1			x					X		3/21/02	12:20	X	X	X			L				
	SDAL32102WSW	U	1			x					х		3/21/02	12:30	Х	X	X			L				
-4	SDAL32102BH	C	2			x					x		3/21/02	12:40	X	Х	X							
																			<u> </u>		_			

Sampler Relinquished:	Received By:	Fax Results To Pat McCasland 505-394-2601
Catilla		REMARKS:
Relingaished by:	Received By: (lab staff)	
	Im Surely a Cook	
Delivered by Sampler	Sample Cool & Intact Yes No	



ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: PAT McCASLAND

P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 03/26/02 Reporting Date: 03/27/02

Project Owner: DUKE ENERGY

Project Name: DUKE A-LINE
Project Location: NOT GIVEN

Sampling Date: 03/26/02

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: BC

LAB NUMBE	ER SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS I	DATE	03/26/02	03/26/02	03/26/02	03/26/02
H6621-1	SDAL32602NSW	<0.005	<0.005	<0.005	<0.015
Quality Con	trol	0.098	0.095	0.099	0.286
True Value	20	0.100	0.100	0.100	0.300
% Recovery		98.3	94.9	99.4	95.2
Relative Per	rcent Difference	6.9	8.2	0.7	0.5

METHOD: EPA SW-846 8260

Chemist La Cook

Date



ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: PAT McCASLAND

P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 03/26/02 Reporting Date: 03/27/02

Project Owner: DUKE ENERGY

Project Name: DUKE A-LINE Project Location: NOT GIVEN

Sampling Date: 03/26/02 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC Analyzed By: BC/AH

ANALYSIS DATE	03/26/02	03/26/02	03/26/02
H6621-1 SDAL32602NSW	<10.0	<10.0	304
Quality Control	785	758	1030
True Value QC	800	800	1000
% Recovery	98.1	94.7	103
Relative Percent Difference	3.3	9.2	5.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl⁻: Std. Methods 4500-Cl⁻B *Analyses performed on 1:4 w:v aqueous extracts.

Burgey LACoshe Chemist 3/27/02

Date

Cardinal Laboratories Inc.

2111 Beechwood, Abilene, TX 79603 215-673-7001 Fax 915-673-7020 101 East Marland, Hobbs, NM 88240 505-393-2326 Fax 505-393-2476

Company Name EPT										Bil	To			A 174				- 1	nal	ysis	Req	uest				
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City, State,	Zip Eunice MM 88731																		}		ļ					ı
Phone#/Fa	x#(505)344-3481 Fox 39	4-2	160/															ł			Ì					
Project #/C	Owner Duke Engage																						.			
Project Nar	owner Duke Engl														118	₽		ļ					.		- 1	ı
Project Loca	ation														8021B	8015M										ı
Sampler Na	ame Brat CIAY							_							втех	TPH 8	-						. 1]		
		Œ.	,			MA	RIX			PF	RESER	V.	SAME	LING	ВТ	Ħ	U	ł						-		
LAB I.D.	SAMPLE I.D.	(G)RABOR (C)OMP.	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	отнея	DATE													
H6621-1	5DA132602NSW					X					X		2/1/02	8:21	X	X	X									
			<u> </u>							<u> </u>																·
			<u> </u>	<u> </u>						<u> </u>																
		L_								<u> </u>					<u> </u>					<u> </u>						
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				_	<u> </u>			<u> </u>	<u> </u>	<u> </u>				<u></u>	<u> </u>	<u> </u>				<u> </u>						
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l		Ī			1			1	1	1			1	1	1				l							

Sampler Relinquished:	Peceived By:	Fax Results To Pat McCasland 505-394-2601
Brut CIAY	17:15A4	REMARKS:
Relinquished by:	Time Received By: (lab staff) Surface August All Robbins	
Delivered by Sampler	Sample Cool & Untact Checked By:	



ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: PAT McCASLAND

P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 04/02/02 Reporting Date: 04/03/02

Project Owner: DUKE Project Name: A-LINE

Project Location: NOT GIVEN

Analysis Date: 04/03/02 Sampling Date: 04/02/02

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: AH

CI

LAB NUMBER	SAMPLE ID	(mg/Kg)
H6646-1*	SDAL4202NSW	144
H6646-2*	SDAL4202SSW	160
H6646-3	SDAL4202WSW	832
H6646-4	SDAL4202ESW	20794
H6646-5	SDAL4202BH	256
Quality Control		1040
True Value QC		1000
% Recovery		104
Relative Percent	Difference	1.0

METHOD: Standard Methods	4500-CIB

NOTE: Analyses performed on 1:4 w:v aqueous extracts.

*Matrix interference (color) observed.

Amy Hill chemist

4-3-02

Cardinal Laboratories Inc.

2111 Beechwood, Abilene, TX 79603 915-673-7001 Fax 915-673-7020 101 East Marland, Hobbs, NM 88240 505-393-2326 Fax 505-393-2476

Company 1	Name Environmental Plu	ıs Ir	ıc.		Bill To							Analysis Request														
Project Ma	nager Pat McCasland																							1	1 1	i
Address	PO Box 1558																				•			1		
City, State,	Zip Eunice, NM																							ì		
Phone#/Fa	1x# 505-394-2870/505-	394	-260	1]	Env	iron	me	ntal	Plu	s Inc.							l				1 1	1 1	
Project #/C	Owner Duke																		ļ							
Project Na	me A-Line														Z											
Project Loc	ation														ច	8015				ł	İ				1 1	
Sampler N	ame CODY MILLER															H 8				•				•	, 1	
						MA'	TRIX			PI	RESER	V.	SAMI	PLING		TPH				ł						
LAB I.D.	SAMPLE I.D.	(G)RABOR (C)OMP.	# CONTAINERS	GROUND WATER	WASTEWATER		CUDE OIL	SLUDGE	отнек:	ACID/BASE	ICE/COOL	ОТНЕЯ	DATE	TIME												
	SDAL4202 NSW	U	1			X					X		4/2/02	1:00	X											
-2	SDAL4202 \$5W	C	1			X					X		4/2/02	1:10	X						<u> </u>		L			
	SDAL4202 WSW	U	1			X				<u> </u>	X		4/2/02	1:20	X							<u> </u>	<u> </u>			<u> </u>
-4	SDAL4202 ESW	U	1	,		X					X		4/2/02	1:30	X											
-5	SDAL4202 BH	U	1	1		X					X		4/2/02	1:40	X				İ	Ĺ						
					1			`																		
								,																		

Sampler Relinquished:	Pete 4-2-W Received By:	Fax Results To Pat McCasland 505-394-2601
Gods Meller	Time 3:/7	REMARKS:
Relinquished by:	Time 25 Received By: (lab staff)	'
Delivered by Sampler	Sample Gool & Intact Yes No Checked By:	



ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: PAT McCASLAND

P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 04/04/02 Reporting Date: 04/05/02 Project Owner: DUKE

Project Name: A-LINE

Project Location: NOT GIVEN

Analysis Date: 04/05/02 Sampling Date: 04/04/02 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: AH

		CI
LAB NUMBER	SAMPLE ID	(mg/Kg)
H6648-1	SDAL4402ESW	80
H6648-2	SDAL4402WSW	96
Quality Control		1040
True Value QC		1000
% Recovery		104
Relative Percent	Difference	1.0

METHOD: Standard Methods 4500-CIB

NOTE: Analyses performed on 1:4 w:v aqueous extracts.

Chemist Chemist

04/05/2002 Date

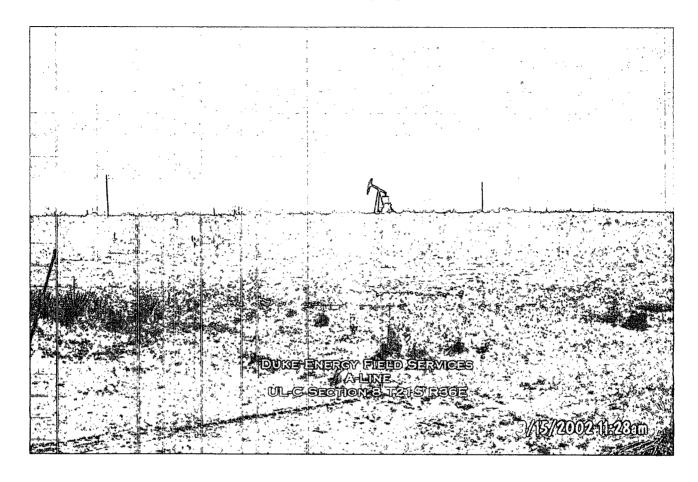


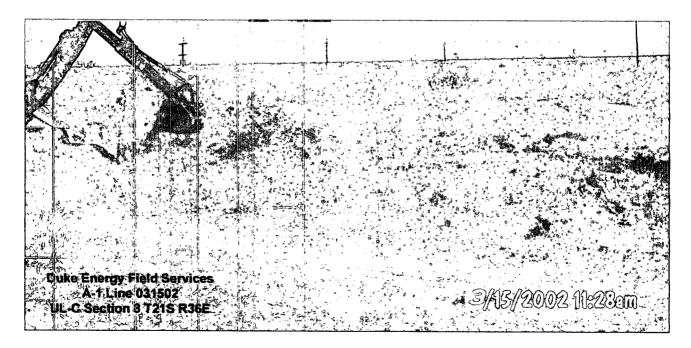
2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240

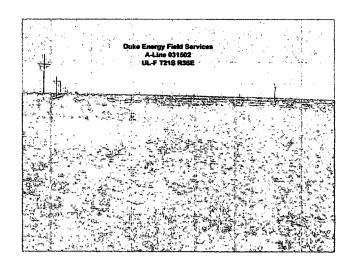
	(915) 673-7001 Fax (9	915) 673-702	0	(50	5) 3:	93-2	2326	Fax	k (50	D5)	393	-24	176				_				Page_		"		
Company Name	EPI											3//	LL TO					ANAL	YSIS	REC	QUES	šT			
Project Manager	By Melroun	' <i>b</i>							_). #:		_													
Address: 210	e Auso								Co	mpa	any:	j	EPI					1							
ity: Evance	•	State: ##1	Zip):_ <i>{</i>	182	-31			Att		•						i	}	į						
Phone #: 354	-1870 F	ax #: 394 -	24	0/					Ad	drec	\$ \$:													i 1	
Project #:	F	Project Owner	: 0	vk	E				Cit	y:								[
Project Name:	DUKE A-LME								Sta	rto:			Zip:												
Project Location									Ph	one	s.														
Sampler Name:	Case, Miller								Fax	(\$:														i I	
FOR LAB LISE ONLY							ATR	Ť	T-		SEF		SAMPLE	NG											
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Lab I.D.	Sample I.D).		Ž	Š	Š.	Q L	H	اعدا	3ASE	ğ	اي			7]						.]	
	•		(G)RAB OR (C)OMP	õ	õ	AST.		Š	THE	OID/E	E/0	핅	DATE	TIME	3									i 1	
H 1010(18-1	Challes	·\$144	崇	-	9	WASTEWATER	ν (C	100	0	₹	2	익	4.4.03				 	-		 					
-0	SDAL4402 W	Seal	C	17				+	H		1	┪	4.4.4	9.20	/		 								
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ampler Relingu	g out of or related to the parlamence of ea	nices hereunder by Can	-	-			euch d	dre la b	d u		y of Die	***	on stated research	Phone Res	enit.	D Yes	 No		hone						
1 -	·	14-4-02 Time:				-,							- 1	Fax Result	t:	(D) Yes	No	Add'i i							
and The	lle		_	Δ_										KEMAKKS	> :										
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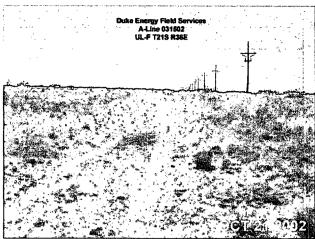
[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

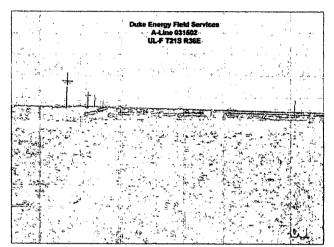
Site Photographs

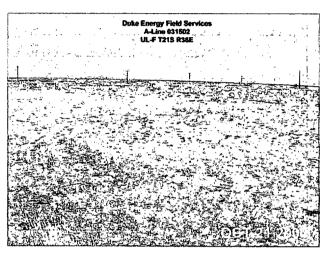


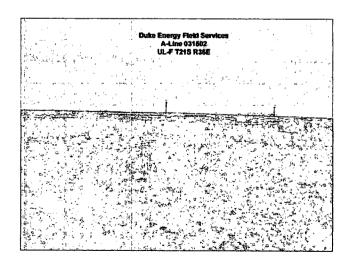












Final NMOCD C-141 Form

District I

1625 N. French Dr., Hobbs, NM 88240

State of New Mexico Energy Minerals and Natural Resources Form C-141

Revised March 17, 1999

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

Attach Additional Sheets If Necessary

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

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back

1220 S. St. Fra	ncis Dr., Santa	Fe, NM 87505						side of form
		Rel	ease Noti	ification a	and Corr	ective Action		
	(PERATO!	R			☐ Initial Report	☑ Final Report	
Name of Con		JI LIUI O			Contact	******	-	
Duke Energ		ces			Paul Mulkey	7		
Address	<i>y</i> 11010				Telephone N			······································
	Carlsbad Hv	WV	Hobbs, NM	88240	505-397-571			
Facility Name		<u> </u>	110000, 1 1111		Facility Type			
A-Line	•				Natural Gas			
A-Little					riaterar Gas	1 ipetitie		· · · · · · · · · · · · · · · · · · ·
Surface Own	er			Mineral Own	ner		Lease No.	
Billy Sartan								
y			LC	OCATION	OF RELEA	SE		
Unit Letter	Section	Township	Range	Feet from	Feet from	Longitude	Latitude	County:
		1		South Line	West Line	· ·		_ *
F	8	21S	36E	3875	2466	W103:17:15.03	N32:29:47.82	Lea
		•	ľ	NATURE O	F RELEAS	SE .		·
Type of Rele	ase				Volume of R	elease	Volume Recovered	
Natural Gas	and associa	ted liquid cor	nponents		40 bbl		30 bbl	
Source of Re	lease				Date and Ho	ur of Occurrence	Date and Hour of D	iscovery
Steel Natura	l Gas Pipeli	ne			3/15/02 10:0	0 AM	3/15/02 11:00AM	
Was Immedi	ate Notice Gi	ven?			If YES, To V	Vhom?		
	☑ Yes	□ No	□ Not R	equired		on - Hobbs NMOC	CD .	· · · · · · · · · · · · · · · · · · ·
By Whom?					Date and Ho			
Stan Shaver		••			3/15/02 1:00		•	
Was a Water	course Reach		- N-		E .	me Impacting the W	/atercourse.	
If a Waterman	ma una Imn	Yesacted, Describ	☑ No		NA			
n a waterco	uise was mip	acted, Descrit	c runy.					
IVA								
Describe Car	use of Problem	n and Remedi	al Action Tal	ken.*				
		red with clan						
·								
Describe Are	a Affected as	nd Cleanup Ad	tion Taken.*	•				
~10,600-ft ² s	surface area	ultimately af	fected by sha	allow excavat	ion. RCRA E	xempt Non-hazard	lous contaminated s	oil above
						tion attached)		
							nd that pursuant to NM for releases which may	
health or the er	operators are re avironment. Th	e acceptance of	a C-141 report	by the NMOCI) marked as "Fin	ial Report" does not rel	ieve the operator of liab	ility should the
operations hav	e failed to ade	quately investig	ate and remed	iate contaminat	ion that pose a	threat to ground water	er, surface water, huma	n health or th
environment.]	in addition, NM	OCD acceptanc	e of a C-141 re	eport does not re	elieve the operat	or of responsibility for	compliance with any oth	er federal, state
or local laws ar	nd/or regulation	S.						
Signature:	0 /2	21/1				OIL CONSERVA	ATION DIVISION	
	21/1	- Ru	7/		1			
Printed Name	e:	Paul Mulkey						
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		·		Approved by	District Supervisor	:	
Title:	Constructio	n & Mainten	ance Superv	isor	Annessal D-	ta:	Evaination Data:	
					Approval Da	uc.	Expiration Date:	T
Date:	10/31/02	Phone:	505-39	97-5716	Conditions	f Ammount.		Attached

Conditions of Approval:

Site Information and Metrics Form

Duke	Energy	Incident Date and N	MOCD Notified?	
FIELD C	Energy。 Services	3/15/02 11:00AM	3/15/02 1:00 PM	
		31302 11.00AM		ce #: A-Line 031502
SITE: A-Line Company:	Duke Ener	gy Field Services	Assigned Site Reference	æ#. A-Line 031302
Street Address:		st Carlsbad Hwy		
				
Mailing Address:		st Carlsbad Hwy		
City, State, Zip:	Hobbs, NM			
Representative:	Paul Mulke	<i></i>		
Representative Teleph	none: 505-397-57	716	<u> </u>	
Telephone:	(ALL) (OLL)	D	20 LLI	
Fluid volume released	· · · · · · · · · · · · · · · · · · · ·	Recovered (bbls):	30 bbl	
			24 hrs and submit form C-141 v	
) C=31 D2 (1 CF			plies to unauthorized releases o	of 50-500 met Natural Gas)
Leak, Spill, or Pit (LSF		A-Line 031502		
Source of contamination		Steel Natural Gas Pip		. C-:- TV 7E 400
Land Owner, i.e., BLM		Billy Sartan	223 N. Moore, Sulphur	
LSP Dimensions:			ow flowpath extending n	orth 2/0-ft (see Plate 3)
LSP Area:		~ 10,600 ft-sq		
Location of Reference				
Location distance and	direction from RP:			
Latitude:		N32:29:47.82		
Longitude:		W103:17:15.03		
Elevation above mean		3595-ft amsl		
Feet from South Section		3875		
Feet from West Section		2466	·	
Location - Unit or 1/4	1/4: UL-	F SI	1/4 of NW	1/4
Location - Section:		8		
Location - Township:		218		
Location - Range:		36E		
Surface water body wi	ithin 1000' radius of Site	e: None		
	ithin 1000' radius of Site			
	within 1000' radius of S	***************************************		
Domestic water wells	within 1000' radius of S	Site:		
Agricultural water wells	s within 1000' radius of	Site: None		
Agricultural water well	s within 1000' radius of	Site:		
	ells within 1000' radius			
Public water supply we	ells within 1000' radius	of Site:		
Depth (ft) from land su	urface to ground water	(DG): 154		
Depth (ft) of contamin	ation (DC):	10		
Depth (ft) to ground wa	ater (DG - DC = DtGW): 144		
1. Grour	nd Water	2. Wellhead	Protection Area	3. Distance to Surface Water Body
If Depth to GW <50 fe	et: 20 points	If <1000' from water	source, or, <200' from	<200 horizontal feet: 20 points
If Depth to GW 50 to 9	99 feet: 10 points	private domestic wat		200-100 horizontal feet: 10 points
If Depth to GW >100 f		<u> </u>	source, or, >200' from	>1000 horizontal feet: 0 points
Ground water Score:	0	Wellhead Protection		Surface Water Score: 0
Site Rank (1+2+3) =	0			
1		Site Ranking Score a	nd Acceptable Concen	trations
Parameter	20 or >		10	0
Benzene ¹	10 ppm _		10 ppm	10 ppm
BTEX ¹	50 ppm		50 ppm	50 ppm
TPH	100 ppm		1000 ppm	5000 ppm
	eadspace measuremer	nt may be substituted		j ooo phii
130 pp.ii. iieid 400 li		a may be substituted	ion iau analysis	

Certificate of Waste Status (RCRA Exempt)

ENVIRONMENTAL PLUS, INC.

Environmental Services & Land Farm

PERMIT # NM-01-0013

Certificate of Waste Status

"Exempt Waste"

COMPANY	: DUKE ENER	GY FIELD SERV	ICES		
ORIGIN:	UL or 1/41/2: F	SECTI	on: 08	Township: 218	RANGE: 36E
Source D	ESCRIPTION (PIPELINE, LEAS	e, Batter	Y, FLOWLINE, ETC.)	PIPELINE
A-LINE N	ATURAL GAS P	IPELINE			

"As a condition of acceptance for disposal,
I hereby certify that this waste is an exempt waste
as defined by the Environmental Protection Agency (EPA) July 1988
REGULATORY DETERMINATION AND TO MY KNOWLEDGE, THIS WASTE BEEN
CHARACTERIZED AS "NON-HAZARDOUS" PURSUANT TO THE PROVISIONS OF EPA 40 CFR
PART 261 Subpart C and has not been comingled with an EPA 40 CFR Part 261
Subpart D "Listed Waste."

I,	Paul	MULKEY	,THE UNDERSIGNED AGENT	
FOR	DUKE ENERG	Y FIELD SERVICES	, HEREBY CERTIFY THAT,	
BASED ON PERS	ONAL KNOWLED	GE, THE ABOVE STAT	TEMENT IS TRUE AND CORRECT	
	Name	PAUL MULKEY		
	TITLE	Maintenance & Construction Supervisor 11525 West Carlsbad Highway		
	ADDRESS			
		Hobbs, New Me	XICO 88240	
and the second s	SIGNATURE	Paul III	lky	
	DATE	MARCH 20, 2002		

District I	histrict I Sta ()		18/02			Form C-141		
625 N. French Dr., Hobbs, NM 88240 Energy Mine		Mine			Revised M	March 17, 1999		
District II 1301 W. Grand Avenue, Artesia, NM 88210								
District III	- David Alexander	NR 4 07410			ETTER	-	Submit 2 Copies	
1000 Rio Brazo	s Koad, Aztec,	NM 8/410		122				in accordance
District IV		r- \n.(07606		i			with Ku	e 116 on back
1220 S. St. Fra	icis Dr., Santa		BT 4º	e •			-	side of form
		Kel	ease Noti	ncation a	and Corr	ective Alion		
OPERATOR						☐ Initial Report	☑ Final Report	
Name of Company					Contact			
Duke Energy Field Services					Paul Mulkey			
Address					Telephone N			
11525 West		vy	Hobbs, NM	88240	505-397-571	<u> </u>		
Facility Name	•				Facility Type			ĺ
A-Line					Natural Gas	Pipeline		
Surface Own	er			Mineral Own	ner		Lease No.	
Billy Sartan				CATION	OF BELE	an	<u> </u>	
TIMIAT .44	Castie-	Torrackia			OF RELEA		T a64.3-	Comme
Unit Letter	Section	Township	Range	Feet from South Line	Feet from West Line	Longitude	Latitude	County:
. . . .	8	21S	36E	3875	2466	W103:17:15.03	N32:29:47.82	Lea
 ;				IATURE O	F RELEAS		T-7 -	
Type of Relea					Volume of Release Volume Recovered		1	
Natural Gas Source of Re		ea nquia cor	nponents		40 bbl 30 bbl Date and Hour of Occurrence Date and Hour of Discovery		iscovery	
Steel Natura		ne			3/15/02 10:00 AM 3/15/02 11:00AM			iscovery
Was Immedia					If YES, To Whom?			
	☑ Yes	□ No	□ Not R	equired	1	on - Hobbs NMOC	D	
By Whom?								
Stan Shaver					3/15/02 1:00			
Was a Water	course Reach	_	G N.		E .	me Impacting the W		
If a Watercou	ree was Impa	Yes	e Fully *		NA		100	78970
NA	use was mipa	cica, pescrio	c r uny.				1231	7891077
Describe Cau	se of Problen	n and Remedi	al Action Tal	cen.*			/ 6 /10	VI 3005
Describe Cause of Problem and Remedial Action Taken.* Corroded pipeline, repaired with clamp							LIVED	
I RECEIVED							CLIVED	
Describe Area Affected and Cleanup Action Taken.*								
~10,600-ft² surface area ultimately affected by shallow excavation. RCRA Exempt Non-hazardous contaminated soil above								
~10,600-ft² surface area ultimately affected by shallow excavation. RCRA Exempt Non-hazardous contaminated soil above remedial goals was excavated and disposed of by EPI. (Closure documentation attached)								
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: Paul Mulkey				Approved by District Supervisor:				
Title:	Title: Construction & Maintenance Supervisor			Approval Da				
Date:	10/31/02	Phone:	505 20	27_5716			• •	Attrabad
Date: 10/31/02 Phone: 505-397-5716 Conditions of Approval:								

ENVIRONMENTAL PLUS, INC. Mero-Blezzo Miro-Mario Cal

STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

October 31, 2002

Mr. Larry Johnson
Energy, Minerals, and Natural Resources Department
New Mexico Oil Conservation Division
1625 North French Dr.
Hobbs, New Mexico 88240

Subject: Duke Energy Field Services – A-Line 031502 Final C-141 and Closure Documentation

Dear Mr. Johnson:

Environmental Plus, Inc. (EPI), on behalf of Duke Energy Field Services submits for your consideration and approval the Final C-141 and Closure Documentation for the "A-Line 031502" remediation site. This report documents the vertical and horizontal extents of hydrocarbon contamination at the site, removal of contaminated soils above acceptable CoC levels, and the disposal of said contaminated soils at EPI's approved land farm consistent with the Initial C-141 and Remediation Plan submitted to NMOCD on March 20, 2002. EPI, on behalf of Duke Energy Field Services, therefore requests that the NMOCD consider the information provided within this documentation and require "no further action" at this site.

If there are any questions please call Mr. Ben Miller or myself at EPI's offices, or at 505-390-0288 or 505-390-9804 respectively. Mr. Paul Mulkey of Duke Energy Field Services can be contacted at 505-397-5716.

All official correspondence should be addressed to:

Mr. Paul Mulkey Duke Energy Field Services 11525 West Carlsbad Highway Hobbs, New Mexico 88240

Sincerely,

John Good, Environmental Consultant

cc: Paul Mulkey, Duke Energy Field Services, w/enclosure Sherry Miller, EPI President Ben Miller, EPI Vice President and General Manager Pat McCasland, EPI Technical Manager File



NIAL

ENVIRONMENTAL PLUS, INC.

Environmental Services & Land Farm

PERMIT # NM-01-0013

Certificate of Waste Status

Exempt Waste

COMPANY: DUKE ENERGY FIELD SERVICES						
ORIGIN:	UL or 1/41/4:	F	SECTION: 08	TOWNSHIP: 21S	RANGE: 36E	
SOURCE I	DESCRIPTION	(PIPELINE,	LEASE, BATTERY,	FLOWLINE, ETC.)	PIPELINE	
A-LINE N	ATURAL GAS	PIPELINE				

"As a condition of acceptance for disposal,
I hereby certify that this waste is an exempt waste
as defined by the Environmental Protection Agency (EPA) July 1988
REGULATORY DETERMINATION AND TO MY KNOWLEDGE, THIS WASTE BEEN
CHARACTERIZED AS "NON-HAZARDOUS" PURSUANT TO THE PROVISIONS OF EPA 40 CFR
PART 261 Subpart C and has not been comingled with an EPA 40 CFR PART 261
Subpart D "Listed Waste."

	I,	PAUL N	MULKEY	_ ,THE UNDERSIGNED AGENT
	FOR	DUKE ENERGY	FIELD SERVICES	, HEREBY CERTIFY THAT,
BASED	ON	PERSONAL KNOWLEDG	EE, THE ABOVE STAT	EMENT IS TRUE AND CORRECT.
		Name	Paul Mulkey	
		TITLE ADDRESS	MAINTENANCE & 11525 WEST CAR	CONSTRUCTION SUPERVISOR LSBAD HIGHWAY
		-	HOBBS, NEW MEX	SICO 88240
		SIGNATURE	To 12	Ok (678970:

MARCH 20, 2002

DATE