



SOIL REMEDIATION, CLOSURE DOCUMENTATION, AND FINAL C-141

North X-Line
Ref. # Historical

UL-C (NE¼ of the NW¼) of Section 15, R34E, T13S
Latitude 32°11'54.32"N and Longitude 103°29'57.51"W
Elevation ~4,154 'amsl

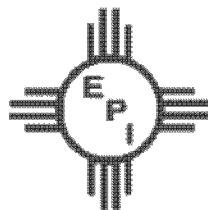
~11.25 miles southwest of Tatum, Lea County, New Mexico

Date

January 2005

Prepared by

Environmental Plus, Inc.
2100 Avenue O
P.O. Box 1558
Eunice, New Mexico 88231
Tele 505•394•3481 FAX 505•394•2601



STANDARD OF CARE

Environmental Assessment and Remediation Report

North X-Line
Ref. # Historical

The information provided in this report was collected consistent with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993), the NMOCD Unlined Surface Impoundment Closure Guidelines (February 1993), and the Environmental Plus, Inc. (EPI) Standard Operating Procedures and Quality Assurance/Quality Control Plan. The conclusions are based on field observations and laboratory analytical reports as presented in the report. Recommendations follow NMOCD guidance and represent the professional opinions of EPI staff. These opinions were arrived at with currently accepted geologic, hydrogeologic and engineering practices at this time and location. The report was prepared or reviewed by a certified or registered EPI professional with a background in engineering, environmental, and/or the natural sciences.

This report was prepared by:



Patrick W. McCasland

Date

This report was reviewed by:

Iain Olness, PG

Date

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DEFS - Duke Energy Field Services

NMOCD - New Mexico Oil Conservation Division

NMSLO - New Mexico State Land Office

Plains - Plains All American Pipeline

EPI - Environmental Plus, Inc.

BLM - U.S. Department of Interior Bureau of Land Management

Table of Contents

Standard of Care	i
Distribution List.....	ii
Table of Contents	iii
1.0 Introduction.....	1
2.0 Environmental Media Characterization.....	1
2.1 Geological Description.....	2
2.2 Ecological Description	2
2.3 Area Ground Water	2
2.4 Area Water Wells.....	2
2.5 Area Surface Water Bodies	2
3.0 NMOCD Site Ranking.....	2
4.0 Ground Water Investigation.....	3
5.0 Soil Remediation and Backfilling.....	3
6.0 Conclusion and Closure Request	3
Attachment I: Site Maps.....	5
Attachment II: Photographs	9
Attachment III: Analytical Reports and Summary	11
Attachment IV: Area Water Information.....	18
Attachment V: Site Metrics Form and Final NMOCD Form C-141	20

1.0 INTRODUCTION

This site is located in UL-C (NE¼ of the NW¼) of Section 15, R34E, T13S at Latitude 32°11'54.32"N and Longitude 103°29'57.51"W approximately 11.25 miles southwest of Tatum Lea County, New Mexico on property owned by the James McCrory. A topographical area map and the site map are included in Attachment I and photographs in Attachment II. The cause of the historical leak is not known nor is the release and recovery volumes. The line was observed to have been repaired. Approximately 776 square feet (ft²) (~30 x 40') of surface was affected. During the preliminary investigation, using information from the New Mexico Office of the State Engineer water well database, ground water was estimated to occur at approximately 60 feet below ground surface ('bgs). Reference the groundwater level report included in Attachment IV. There are no surface water bodies or domestic or agricultural water wells observed to be within 1,000 horizontal feet of the site. This gives the site a 20 point New Mexico Oil Conservation Division (NMOCD) ranking score for soil from 10'bgs to groundwater and 10 points for soil from the surface to 10'bgs that applies the following remedial guidelines for the "constituents/contaminants of concern" (CoCs):

CONSTITUENTS/CONTAMINANTS OF CONCERN	REMEDIAL GOALS	
	SOIL >10'BGS	SOIL TO 10'BGS
Benzene	10 mg/Kg	10 mg/Kg
BTEX (mass sum of benzene, toluene, ethylbenzene, and xylenes)	50 mg/Kg	50 mg/Kg
Total Petroleum Hydrocarbon 8015m (TPH ^{8015m})	100 mg/Kg	1,000 mg/Kg

During remediation of the site, approximately 894 cubic yards (yd³) of impacted soil was disposed of in the NMOCD approved and permitted Gandy Marley, Inc. Landfarm #NM-01-0019. After the verifying that the excavation bottom and sidewalls were below the NMOCD remedial goals, the excavation was backfilled with clean soil and contoured to the natural grade. Reference the analytical reports and summary in Attachment III. Environmental Plus, Inc. (EPI), on behalf of Duke Energy Field Services submits the final NMOCD C-141 included in Attachment V, requesting that the NMOCD require "no further action" at this site. Plans are to reseed in the spring of 2005 (between April and June after the spring winds subside) with a seed mix acceptable to the landowner.

2.0 ENVIRONMENTAL MEDIA CHARACTERIZATION

Chemical parameters of the soil and ground water were characterized consistent with the characterization and remediation/abatement goals and objectives set forth in the following NMOCD guidelines published in the following documents:

- 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, benzene, and the mass sum of benzene, toluene, ethylbenzene, and total

xylene (BTEX), was 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, and
- Distance to Surface Water Body, i.e., horizontal distance to all down gradient surface water bodies.

2.1 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 central Lea County as an intergrade of the Quaternary Alluvium (QA) sediments, i.e., fine to medium sand, with the Cenozoic Ogallala (CO) formation. Typically, the QA and CO formations in the area are capped by a thick interbed of caliche.

2.2 ECOLOGICAL DESCRIPTION

The area is typical of the transition zone between the Great Basin and Upper Chihuahuan Desert Biomes consisting primarily of flat to undulating hills covered with typical desert grasses and weeds and interspersed with Harvard Shin Oak (*Quercus harvardi*) and Honey Mesquite (*Prosopis glandulosa*). Mammals represented, include Orrd's and Merriam's Kangaroo Rat, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit, and the Mule Deer. Reptiles, Amphibians, and Birds are numerous and typical of area. A survey of Listed, Threatened, or Endangered species was not conducted.

2.3 AREA GROUND WATER

Ground water was estimated to occur at approximately 60'bgs and is based on the New Mexico Office of the State Engineer water well database. The groundwater elevation/level report is included in Attachment IV. According to the USGS, the ground water elevation decreases generally to the southeast.

2.4 AREA WATER WELLS

The New Mexico Office of the State Engineer database does not have any record of water well being located within 1,000 horizontal feet of the site. No wells are reported to be located in Section 15 T13S R34E.

2.5 AREA SURFACE WATER BODIES

There are no permanent or intermittent surface water bodies within 1,000 horizontal feet of the site.

3.0 NMOCD SITE RANKING

Based on the proximity of the site to protectable area water wells, surface water bodies, and depth to ground water, the site has an NMOCD ranking score of 20 points for soil from 10'bgs to groundwater and 10 points for soil from the surface

to 10'bgs that applies the following remedial guidelines for the “constituents/contaminants of concern” (CoCs):

CONSTITUENTS/CONTAMINANTS OF CONCERN	REMEDIAL GOALS	
	SOIL >10'BGS	SOIL TO 10'BGS
Benzene	10 mg/Kg	10 mg/Kg
BTEX (mass sum of benzene, toluene, ethylbenzene, and xylenes)	50 mg/Kg	50 mg/Kg
Total Petroleum Hydrocarbon 8015m (TPH ^{8015m})	100 mg/Kg	1,000 mg/Kg

1. Ground Water	2. Wellhead Protection Area	3. Distance to Surface Water Body	
If Depth to GW <50 feet: <i>20 points</i>	If <1000' from water source, or; <200' from private domestic water source: <i>20 points</i>	<200 horizontal feet: <i>20 points</i>	
If Depth to GW 50 to 99 feet: <i>10 points</i>		200-100 horizontal feet: <i>10 points</i>	
If Depth to GW >100 feet: <i>0 points</i>	If >1000' from water source, or; >200' from private domestic water source: <i>0 points</i>	>1000 horizontal feet: <i>0 points</i>	
<i>Ground water Score = 20</i>	<i>Wellhead Protection Area Score= 0</i>	<i>Surface Water Score= 0</i>	
<i>Site Rank (1+2+3) = 20 + 0 + 0 = 20 points</i>			
Total Site Ranking Score and Acceptable Remedial Goal Concentrations			
Parameter	>19 (>10'bgs)	10-19 (surface to 10'bgs)	0-9
Benzene ¹	10 ppm	10 ppm	10 ppm
BTEX ¹	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1000 ppm	5000 ppm

4.0 GROUND WATER INVESTIGATION

A groundwater investigation was not warranted based on the determination of the vertical extent of impact.

5.0 SOIL REMEDIATION AND BACKFILLING

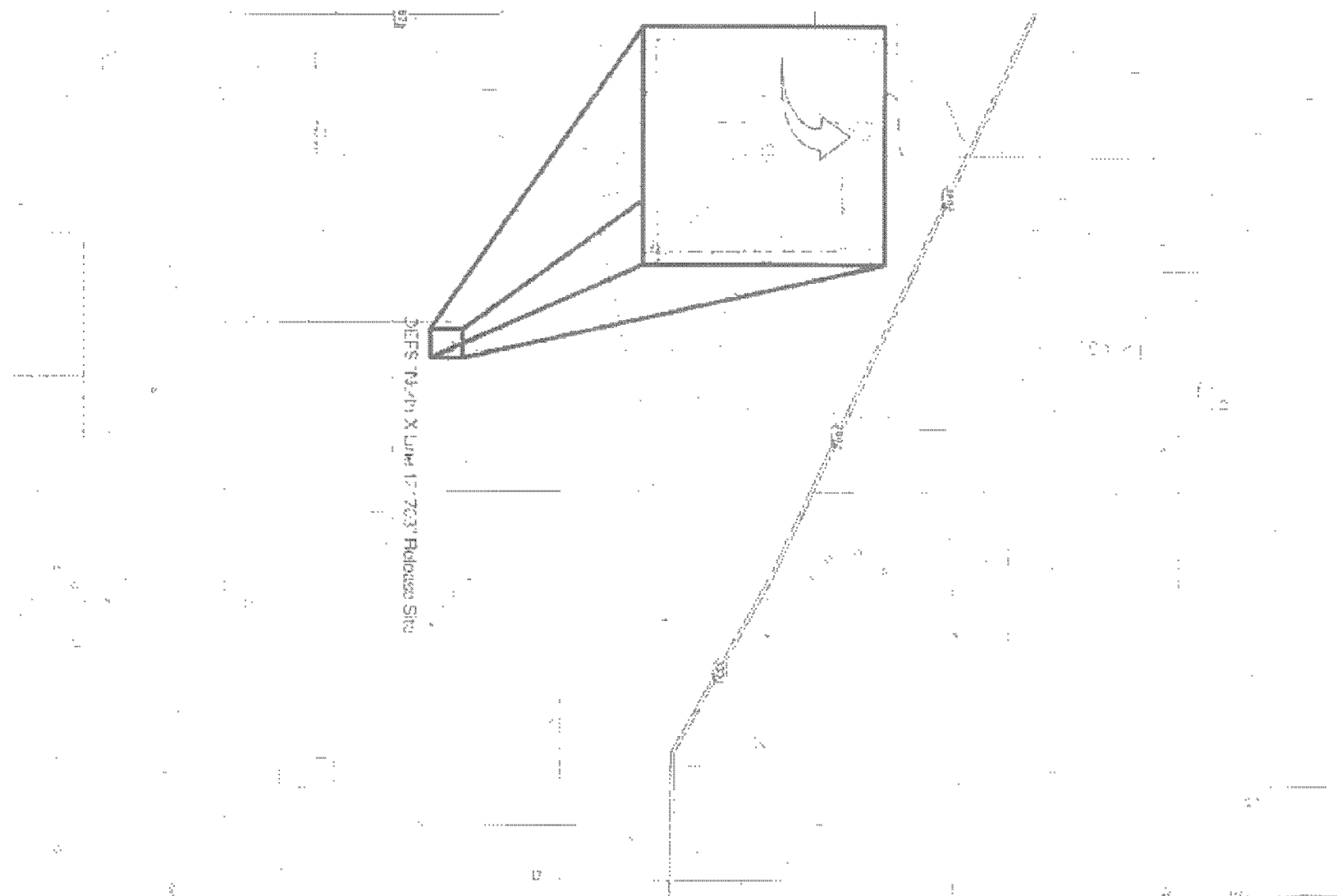
Approximately 894 cubic yards (yd³) of soil impacted above the CoC remedial goals were disposed of in the NMOCD approved and permitted Gandy Marley, Inc. Landfarm #NM-01-0019. On January 20, 2004, the excavation bottom and sidewalls were sampled for the CoCs and found to be below the NMOCD remedial goals. Subsequently, the excavation was backfilled with clean soil and contoured to the natural grade. Reference the analytical reports and summary in Attachment III. After the verifying that the excavation bottom and sidewalls were below the NMOCD remedial goals, the excavation was backfilled with clean soil and contoured to the natural grade. Reference the analytical reports and summary in Attachment III.


6.0 CONCLUSION AND CLOSURE REQUEST

Environmental Plus, Inc. (EPI), on behalf of Duke Energy Field Services submits the final NMOCD C-141 included in Attachment V, requesting that the NMOCD require “no further action” at this site. Plans are to reseed in the spring of 2005

(between April and June after the spring winds subside) with a seed mix acceptable to the landowner.

ATTACHMENT I: SITE MAPS



<p>Plate *</p> <p>Release Site Location</p> <p>Duke Energy Field Services</p> <p>North-X Line 121703</p>	<p>Lea County, New Mexico</p> <p>UL-C Section 15 T13S R34E</p> <p>N33° 11' 54.32" W103° 29' 57.51"</p> <p>Elevation: 4154-ft amsl</p>	<p>DWG BY Jonn Good</p> <p>December - 2003</p> <p>SCALE:</p> <p>0 5 Miles</p>	<p>REVISED:</p> <p>SHEET</p> <p>1 of 1</p>	
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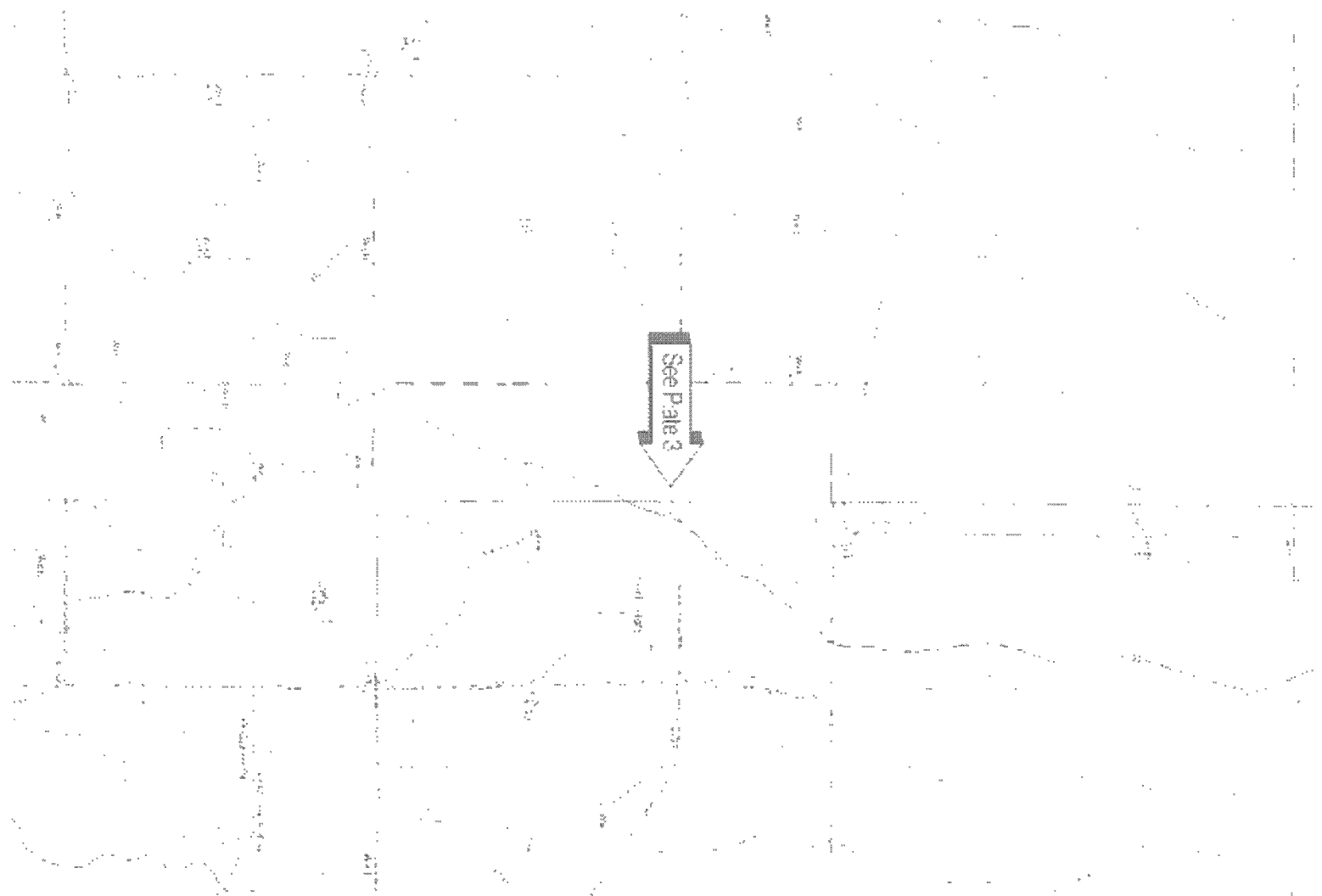




Plate 2 Release Site Topography Duke Energy Field Services North-X Line 121703	Lea County, New Mexico UL-C Section 15 T13S R31E N33° 11' 54.32" W103° 29' 57.51" Elevation: 4154-ft amsl	DWG BY John Good December 2003	REVISED	
		SCALE  0 1/2 1 Mile		

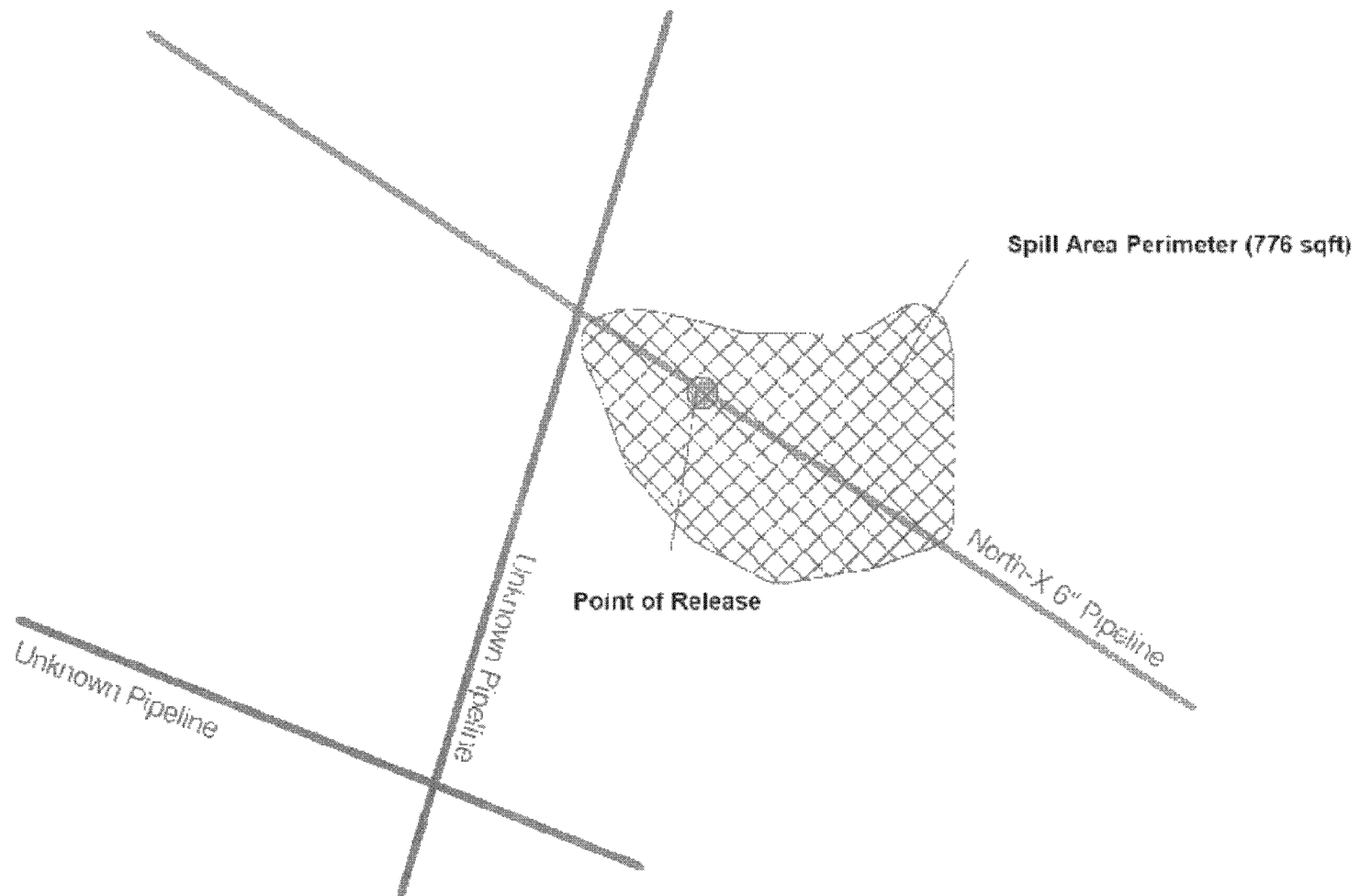


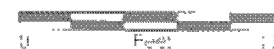
Plate 3 - Initial Site GPS Demarcations
Duke Energy Field Services
North-X Line 121703

Lea County, New Mexico
UL-C Section 15 T13S R34E
N33° 11' 54.32" W103° 29' 57.51"
Elevation: 4154-ft amsl

DWG BY: John Good
December - 2003

REVISED

SCALE:



ATTACHMENT II: PHOTOGRAPHS

DEFS North-X Line 121703
UL-C Section 15 T13S R34E
N33° 11' 54.32" W103° 29' 57.51"



DEFS North-X Line 121703
UL-C Section 15 T13S R34E
N33° 11' 54.32" W103° 29' 57.51"



ATTACHMENT III: ANALYTICAL REPORTS AND SUMMARY

Duke Energy Field Services
North X-Line Delineation Information

Sample Location	Vertical Sampling Interval (FT. BGS ¹)	SAMPLE ID#	Date	Lithology	VOC ⁹	GRO ³	DRO ⁴	TPH ⁵	BTEX	Benzene	Toluene	Ethylbenzene	m,p, & o Xylene	Sulfate	Chloride
					ppm	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
East Bottom Hole	8	SDNX010604EBH-8	1/6/2004		--	<10.0	129	129	1.022	<0.005	0.112	0.019	0.891	92	112
West Bottom Hole	2	SDNX010604WBH-2	1/6/2004		--	1760	15200	16960	176.862	0.202	12.6	1.06	163	--	--
West Bottom Hole	10	SDNX010604WBH-	1/6/2004		--	<10.0	<i>47.3</i>	47.3	0.026	<0.005	<i>0.006</i>	<0.005	<i>0.02</i>	--	--
West Bottom Hole	12	SDNX010604WBH-	1/6/2004		--	<10.0	<10.0	<10.0	<0.005	<0.005	<0.005	<0.005	<0.015	--	--
West Bottom Hole	15	SDNX010604WBH-	1/6/2004		--	<10.0	<10.0	<10.0	<0.005	<0.005	<0.005	<0.005	<0.015	48	112
Bottom Hole Composite	5-point:15	SDNX012004BHC-15	1/20/2004		--	<10.0	62.9	62.9	<0.005	<0.005	<0.005	<0.005	<0.015	--	--
East Sidewall	5-point: 3-15	SDNX012004ESW	1/20/2004		--	<10.0	<10.0	<10.0	<0.005	<0.005	<0.005	<0.005	<0.015	--	--
West Sidewall	5-point: 3-15	SDNX012004WSW	1/20/2004		--	<10.0	<10.0	<10.0	<0.005	<0.005	<0.005	<0.005	<0.015	--	--
North Sidewall	5-point: 3-15	SDNX012004NSW	1/20/2004		--	<10.0	<10.0	<10.0	<0.005	<0.005	<0.005	<0.005	<0.015	--	--
South Sidewall	5-point: 3-15	SDNX012004SSW	1/20/2004		--	<10.0	<10.0	<10.0	<0.005	<0.005	<0.005	<0.005	<0.015	--	--
New Mexico Oil Conservation Division Site Remedial Goals					100			100	50	<i>10</i>				WQCC	WQCC ⁷

¹bgs – below ground surface

³GRO-Gasoline Range Organics C₆-C₁₀

⁴DRO-Diesel Range Organics C₁₀-C₃₅

⁵TPH-Total Petroleum Hydrocarbon = GRO+DRO.

⁶Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter

⁷Soil chloride residuals must not be capable of impacting groundwater or surface water above Water Quality Control Commission (WQCC) standard of 250 mg/L.

⁸na - not analyzed

⁹VOC - Volatile Organic Constituent/Contaminant Headspace



PHONE (505) 670-7001 • 2111 BEECHAVILLE • ARLINE, TX 75603
PHONE (505) 393-2005 • 101 E. MARLAND • HOBBE, NM 88240

ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: JOHN GOOD
P.O. BOX 1558
SUNICE, NM 88231
FAX TO: (505) 394-2001

Receiving Date: 01/08/04
Reporting Date: 01/10/04
Project Number: DUKE ENERGY FIELD SERVICES
Project Name: DEFS NORTH-X LINE 121703
Project Location: UL C SECTION 15 T13S R34E

Sampling Date: 01/08/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NO	SAMPLE ID	GRO (C ₁ -C ₄) (mg/Kg)	DRO (C ₅ -C ₁₀) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:		01/08/04	01/08/04	01/09/04	01/09/04	01/09/04	01/09/04
H8342-1	SDNX010604WBH-2	1760	15200	0.202	12.6	1.06	163
H8342-2	SDNX010604EBH-9 (S)	<10.0	129	<0.005	0.112	0.319	0.891
H8342-3	SDNX010604WBH-10	<10.0	47.3	<0.005	0.006	<0.005	0.020
H8342-4	SDNX010604WBH-12	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H8342-5	SDNX010604WBH-15	<10.0	<10.0	<0.005	<0.005	<0.005	0.015
Quality Control		751	738	0.004	0.089	0.090	0.275
True Value QC		800	800	0.100	0.100	0.100	0.300
% Recovery		93.8	92.3	94.2	88.7	89.5	91.6
Relative Percent Difference		6.0	3.1	4.4	3.7	5.5	4.3

METHODS: TPH GRO & DRO - EPA SW-846 8015 M, 81EX SW 846 8260

Burgess J. A. Cooke
Burgess J. A. Cooke, Ph.D.

1/10/04
Date

H8342A.XLS
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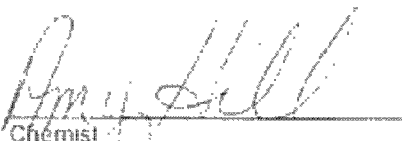
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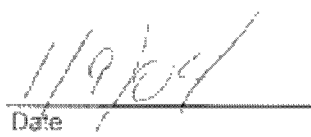
ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC
ATTN: JOHN GOOD
P.O. BOX 1558
LUNICE, NM 88231
FAX TO: (505) 394-2601

Receiving Date: 01/08/04
Reporting Date: 01/09/04
Project Owner: DUKE ENERGY FIELD SERVICES
Project Name: DEFS NORTH-X LINE 121703
Project Location: UL-C SECTION 15 T13S R34E

Sampling Date: 01/06/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AH

LAB NUMBER	SAMPLE ID	SO ₂ (mg/Kg)	Cl (mg/Kg)
ANALYSIS DATE		01/09/04	01/09/04
H8342-2	SDNX010604FBH-8	92	112
H8342-5	SDNX010604WBH-15	48	112
Quality Control			
True Value QC		53.65	1010
% Recovery		50.00	1000
Relative Percent Difference		107	101
		1.5	7.0
METHODS: EPA 600/4-79-020		375.4	SM 4500-Cl B


Chemist


Date

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915-673-7001 Fax 915-673-7020

Company Name		Environmental Plus, Inc.		Bill To				ANALYSIS REQUEST																						
EPI Project Manager		John Good																												
Billing Address		P.O. BOX 1558																												
City, State, Zip		Eunice New Mexico 88231																												
EPI Phone#/Fax#		505-394-3481 / 505-394-2601																												
Client Company		DUKE ENERGY FIELD SERVICES																												
Project Location		UL-C SECTION 15 T13S R34E																												
EPI Sampler Name		JOHN GOOD																												
LAB I.D.	SAMPLE I.D.	(GRAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			SAMPLING		BTX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄)	pH	TCLP	OTHER >>>									
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME																
168342-1	1 SDNX010604WBH-2	G	1			X					X		6-Jan	13:00	X	X														
-2	2 SDNX010804EBH-8	C	1			X					X		8-Jan	10:00	X	X	X	X												
-3	3 SDNX010604WBH-10	C	1			X					X		8-Jan	14:00	X	X														
-4	4 SDNX010604WBH-12	C	1			X					X		8-Jan	14:15	X	X														
-5	5 SDNX010604WBH-15	C	1			X					X		8-Jan	14:30	X	X	X	X												
6																														
7																														
8																														
9																														
10																														

Sample Received by: <i>John Good</i> Date: 1-8-14 Time: 4:25		Received By: Date: Time:		Fax Results To John Good 505-394-2601 REMARKS: Sample 2 As AP	
Relinquished by:		Received By (Lab staff): <i>Burke</i> Date: Time:			
Delivered by:		Sample Cool & Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Checked By:	

PHONE 1505 323 4226 • 1211 MARLAND • BOBBS NO 3421

Analized By: BC

METHODS: TPH GRO & DRO - EPA SW 846 8015 M BTEX SW 846 8260


1/23/04
Date

[illegible]

Cardinal Laboratories Inc.

101 East Marland, Hobbs, NM 88240
505-393-2326 Fax 505-393-2476

2111 Beechwood, Abilene, TX 79603
915-673-7001 Fax 915-673-7020

Company Name		Environmental Plus, Inc.		Bill To				ANALYSIS REQUEST																			
EPI Project Manager		John Good																									
Billing Address		P.O. BOX 1558																									
City, State, Zip		Eunice New Mexico 88231																									
EPI Phone#/Fax#		505-394-3481 / 505-394-2601																									
Client Company		DUKE ENERGY FIELD SERVICES																									
Project Location		UL-C SECTION 15 T13S R34E																									
EPI Sampler Name		Eddie Harper																									
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄)	pH	TCLP	OTHER >>>							
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE												TIME		
1-2-1	1 SDNX012004BHC-15	C	1			X				X		20-Jan	13:15	X	X												
-2-	2 SDNX012004ESW	C	1			X				X		20-Jan	13:20	X	X												
-3-	3 SDNX01204WSW	C	1			X				X		20-Jan	13:25	X	X												
-4-	4 SDNX01204NSW	C	1			X				X		20-Jan	13:30	X	X												
-5-	5 SDNX012004SSW	C	1			X				X		20-Jan	13:35	X	X												
6																											
7																											
8																											
9																											
10																											

Sample Received By:	Date: 1-21-04 Time: 4:08 PM	Received By:	Fax Results To John Good 505-394-2601
Revised By:	Date: 1-21-04 Time: 4:15 PM	Received By: (lab staff)	REMARKS:
Delivered by:	Sample Count & Intact (Yes) No	Checked By:	

ATTACHMENT IV: AREA WATER INFORMATION

New Mexico Office of the State Engineer Well Reports and Downloads

Township: 13S Range: 134E Sections: 10,11,9,16,15,14,21,22,23

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First): (Last): / Non-Domestic Domestic

• All

Well / Surface Data Report Avg Depth to Water Report

Water Column Report

Clear Form WATERS Menu Help

AVERAGE DEPTH OF WATER REPORT 01/13/2005

Bas	Twp	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg

01/13/2005 10:12:13 AM

ATTACHMENT V: SITE METRICS FORM AND FINAL NMOCD FORM C-
141

Duke Energy Field Services Site Information and Metrics		Incident Date:	NMOCD Notified: 12-18-03@1:30 PM
SITE: North X-Line		Assigned Site Reference #: Historical	
Company: Duke Energy Field Services		NATIONAL RESPONSE CENTER - 800.424.8802	
Street Address:		Notified Date/Time:	
Mailing Address: 370 17th Street, Suite 2500		Notified by: John Good - EPI	
City, State, Zip: Denver, Colorado 80202-5644		Person Notified:	
Representative: Steve Weathers		NRC Report# :	
Representative Telephone: 303.605.1718			
Telephone:			
Fluid volume released (bbls): unknown		Recovered (bbls): unknown	
>25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas)			
5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)			
Leak, Spill, or Pit (LSP) Name: North X-Line			
Source of contamination: 6" Steel Pipeline			
Land Owner, i.e., BLM, ST, Fee, Other: James McCrory			
LSP Dimensions ~30 x 40'			
LSP Area: 776 ft ²			
Location of Reference Point (RP)			
Location distance and direction from RP			
Latitude: 32°11'54.32"N			
Longitude: 103°29'57.51"W			
Elevation above mean sea level: 4,154 'amsl			
Feet from South Section Line			
Feet from West Section Line			
Location- Unit or ¼: NE¼ of the NW¼		Unit Letter: C	
Location- Section: 15			
Location- Township: T13S			
Location- Range: R34E			
Surface water body within 1000 ' radius of site: none			
Surface water body within 1000 ' radius of site:			
Domestic water wells within 1000' radius of site: none			
Domestic water wells within 1000' radius of site:			
Agricultural water wells within 1000' radius of site: none			
Agricultural water wells within 1000' radius of site:			
Public water supply wells within 1000' radius of site: none			
Public water supply wells within 1000' radius of site:			
Depth from land surface to ground water (DG) 60'bgs			
Depth of contamination (DC) - 15'bgs			
Depth to ground water (DG - DC = DtGW) - 45-feet			
1. Ground Water		2. Wellhead Protection Area	
If Depth to GW <50 feet: 20 points		If <1000' from water source, or;<200' from private domestic water source: 20 points	
If Depth to GW 50 to 99 feet: 10 points		If >1000' from water source, or;>200' from private domestic water source: 0 points	
If Depth to GW >100 feet: 0 points		Wellhead Protection Area Score= 0	
Ground water Score = 20		Surface Water Score= 0	
Site Rank (1+2+3) = 20			
Total Site Ranking Score and Acceptable Concentrations			
Parameter	>19	10-19	0-9
Benzene ¹	10 ppm	10 ppm	10 ppm
BTEX ¹	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1000 ppm	5000 ppm
¹ 100 ppm field VOC headspace measurement may be substituted for lab analysis			

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

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Duke Energy Field Services	Contact: Steve Weathers
Address: 370 17th Street, Suite 2500 Denver, Colorado 80202-5644	Telephone No. 303.605.1718
Facility Name North X-Line (Historical)	Facility Type 6" Steel Pipeline
Surface Owner: James McCrory	Mineral Owner Lease No.

LOCATION OF RELEASE

Unit Letter C	Section 15	Township T13S	Range R34E	Feet from the	North/South Line	Feet from the	East/West Line	County: Lea
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Latitude: 32°11'54.32"N Longitude: 103°29'57.51"W

NATURE OF RELEASE

Type of Release Natural Gas Pipeline Fluids	Volume of Release unknown barrels	Volume Recovered unknown barrels
Source of Release 6" Steel Pipeline	Date and Hour of Occurrence unknown	Date and Hour of Discovery 12/17/2003
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Larry Johnson	
By Whom? John Good - EPI	Date and Hour 12-18-03@1:30 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. NA	
If a Watercourse was Impacted, Describe Fully.* NA		
Describe Cause of Problem and Remedial Action Taken.* 6" Steel Pipeline: The line had been previously repaired. Approximately 894 cy of impacted soil was disposed of in the NMOCD approved and permitted Gandy-Marley, Inc. Landfarm #NM-01-0019, the excavation backfilled with clean soil, and the surface contoured to the natural grade.		
Describe Area Affected and Cleanup Action Taken.* 776 sqft ~30 x 40': Site soil has been remediated to NMOCD standards and the surface contoured. Remedial Goals: TPH 8015m = 100 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and Xylenes = 50 mg/Kg.		

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:	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Steve Weathers		
E-mail Address: SWWeathers@Duke-Energy.com	Approval Date:	Expiration Date:
Title: Environmental Projects Manager	Conditions of Approval:	Attached <input type="checkbox"/>
Date: January 13, 2005 Phone: 303.605.1718		

Attach Additional Sheets If Necessary