

DUKE ENERGY FIELD SERVICES Midland Regional Office 10 Desta Drive, Suite 400-West Midland, TX 79705

432 620 4000

July 6, 2005

Mr. Larry Johnson New Mexico Oil Conservation Division District I 1625 N. French Dr. Hobbs, NM 88240

RE: Closure Request C-Line Header and J-4-2-7-4 Line Dates of Occurrence: June 28, 2004 and June 21, 2004 respectively

Dear Mr. Johnson;

Duke Energy Field Services, LP (DEFS) respectfully submits the attached reports and request closure letters for releases identified as the "C-Line Header (June 28, 2004) and the J-4-2-7-4 (June 21, 2004).

The C-Line Header release occurred in Unit B, Section 32, Township 17S, Range 33E. Based on the New Mexico State Engineers Office website database, the depth to groundwater was greater than 100 feet below ground surface. Recommended Remedial Action Levels are 5,000 mg/Kg TPH, 10 mg/Kg Benzene, and 50 mg/Kg Total BTEX. The remedial action levels were achieved on July 12, 2004.

The J-4-2-7-4 release occurred in Unit M, Section 8, Township 19S, Range 35E. Based on the New Mexico State Engineers Office website database, the depth to groundwater was approximately 45 feet below ground surface. Recommended Remedial Action Levels are 100 mg/Kg TPH, 10 mg/Kg Benzene, and 50 mg/Kg Total BTEX. The remedial action levels were achieved on August 9, 2004.

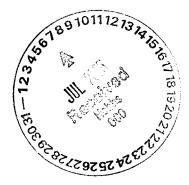
Based on the closure report documentation, DEFS respectfully requests that both sites be issued letters of "No further actions required".

If you have any questions, please feel free to contact either me at 432/620-4207.

Sincerely, Duke Energy Field Services, LP

Sy. Environmental Specialist Southern Division

Cc: R. Gilchrest (w/o enclosures) File: Gathering Line 2.1.1.1





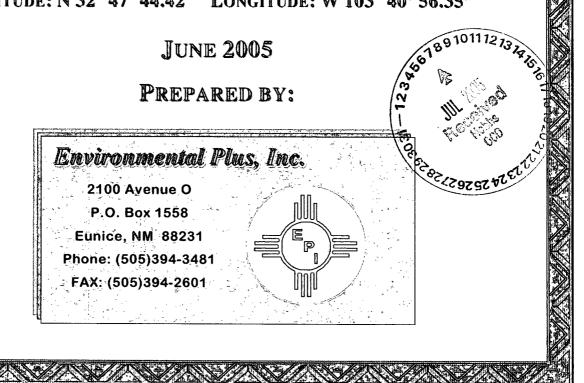
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SITE INVESTIGATION, REMEDIATION AND FINAL C-141 CLOSURE DOCUMENTATION

C-LINE HEADER RELEASE SITE DEFS Ref: 130005

UL-B (NW¼ OF THE NE¼) OF SECTION 32 T17S R33E ~6.25 Miles Southeast of Maljamar, Lea County, New Mexico Latitude: N 32° 47' 44.42" Longitude: W 103° 40' 56.35"





## **Distribution** List

Name	Title	Company or Agency	Mailing Address	e-mail
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Mark R. Owens	Construction Maintenance Supervisor	Duke Energy Field Services, LP	1625 West Marland Hobbs, NM 88240	mrowens@duke-energy.com
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NMOCD - New Mexico Oil Conservation Division EPI - Environmental Plus, Inc.

### **Standard of Care**

#### **Closure Report**

#### **C-Line Header Release Site**

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:

Jason Stegemoller, M.S.

**Environmental Scientist** 

July 1, 2005

This report was reviewed by:

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Iain A. Olness, P.G. Hydrogeologist

1 yuly 2005 Date

### **Table of Contents**

Project	Summary		ii
1.0	Introduction	n and Background	1
2.0	Site Descri	ption	2
	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 Features	2
3.0	NMOCD S	ite Ranking	2
4.0	Subsurface	Soil Investigation	3
5.0	Ground Wa	ter Investigation	4
6.0	Remediatio	n Process	4
7.0	Closure Jus	stification	4

#### **FIGURES**

Figure 1: Area Map Figure 2: Site Location Map Figure 3: Site and North Flowpath Sample Location Map Figure 4: Header Sample Location Map

#### TABLES

Table 1: Summary of Excavation Analytical Results

#### **APPENDICES**

Appendix I: Laboratory Analytical Reports and Chain-of-Custody Forms Appendix II: Project Photographs Appendix III: Final NMOCD C-141 Form and Site Information and Metrics Form

### **Project Summary**

### Site Specific:

- Company Name: Duke Energy Field Services
- Facility Name: C-Line Header Natural Gas Gathering Pipeline
- Project Reference 130005
- Company Contacts: Mark Owens
- Site Location: WGS84 N32° 47' 44.426"; W103° 40' 56.357"
- Legal Description: Unit Letter B (NW1/4 of the NE1/4), Section 32, T17S, R33E
- General Description: approximately 6.25-miles southeast of Maljamar, New Mexico
- ◆ Elevation: 4,055-ft amsl Depth to Ground Water: ≈160-ft
- Land Ownership: Caviness Family Trust
- EPI Personnel: Project Consultant Iain Olness

Site Foreman – Eddie Joe Harper

### **Release Specific:**

- Product Released: Natural Gas & NGL
- ◆ Volume Released: ≈60-bbl reported Volume Recovered: 50-bbl
- Time of Occurrence: 28-June-04 Time of Discovery: 28-June-04
- **Release Source**: 8" steel NG pipeline; structural integrity compromised; repaired by clamping.
- Initial Surface Area Affected: ≈9,205-ft<sup>2</sup>

### **Remediation Specific:**

- Final Vertical extent of contamination: 18-ft bgs; Remaining depth to ground water: >100-ft
- Water wells within 1,000-ft: 0
   Surf
  - Surface water bodies within 1,000-ft: 0
- NMOCD Site Ranking Index: 0 points
- Remedial goals for Soil: TPH 5,000 mg/kg; BTEX 10 mg/kg; Benzene 50 mg/kg.
- RCRA Waste Classification: Exempt
- Remediation Option Selected: a) Excavation of contaminated soil above NMOCD remedial goals; b) laboratory analyses to confirm removal of soil impacted above NMOCD remedial thresholds; c) blend excavated soil with surrounding clean soil and backfill the excavation.
- **Disposal Facility**: Artesia Aeration

Volume disposed of: 332-yd<sup>3</sup>

- Project Completion Date: 13 July, 2004
- Additional Commentary: None

## **1.0 Introduction & Background**

This report addresses the site investigation and remediation of the Duke Energy Field Services (DEFS) C-Line Header eight-inch natural gas header and pipeline remediation site. On June-28, 2004, Environmental Plus, Inc. (EPI) was notified by DEFS regarding a recently discovered natural gas and associated natural gas liquid (NGL) release along the C-Line Header and pipeline. This site is located approximately 6.25 miles southeast of Maljamar, Lea County, New Mexico (*reference Figure 1*). The initial C-141 Form submitted to the New Mexico Oil Conservation Division (NMOCD) on July 7, 2004, reports the release volume as approximately 60-barrels with approximately 50-barrels recovered. EPI performed GPS surveying, photography and characterization of the site on June 28, 2004. The initial site consisted of an approximate 9,205 square feet ( $ft^2$ ) visibly affected surface area (*reference Figure 3*).

Initial activities at the site consisted of excavating visibly NGL saturated soil from the flowpath area north of the header (*reference Figure 3*). On June 30, 2004, soil samples were collected from the excavation and analyzed in the field for the presence of organic vapors utilizing an UltraRae photoionization detector (PID) equipped with a 9.8 electron-volt (eV) lamp. In addition, samples were submitted for laboratory confirmation that hydrocarbon, chloride and sulfate impacted soil had been removed from the flowpath area. Analytical results confirmed remedial goals (as outlined in the Project Summary and Section 3.0) at the flowpath area were achieved.

Remediation of this site continued at the header area with the excavation of approximately 1,400 cubic yards (yds<sup>3</sup>) of NGL impacted soil from what was ultimately a 2,700-ft<sup>2</sup> excavation, to a maximum depth of 14-feet below ground surface (bgs). Approximately 332 yds<sup>3</sup> of contaminated soil was transported to the Artesia Aeration landfarm for treatment. The remaining NGL impacted soil was blended on site with clean soil purchased from Caviness Family Trust and obtained from the right-of-way. On July 1, 2004, during excavation activities, the header was punctured approximately eight-feet south of the original point of release. The line was repaired and excavation activities resumed. On July 7, 2004, samples were collected from the excavation sidewalls and from a soil boring advanced into the floor of the excavation. A portion of each sample was analyzed in the field for the presence of organic vapors utilizing an UltraRae PIDequipped with a 9.8 eV lamp, the remaining portion of each sample was submitted for laboratory quantification of benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons (TPH), chloride and sulfate. Analytical results indicated that hydrocarbon concentrations were below the NMOCD remedial thresholds (*reference Table 1*). On July 12, 2004, a soil sample was collected from the blended soil with a portion of the sample field analyzed and the remainder of the sample submitted for laboratory analyses. Reported TPH and BTEX constituent concentrations were below NMOCD remedial goals, as stated in the Project Summary above and outlined in Section 3.0. Analytical results indicated chloride and sulfate concentrations in the majority of the soil samples were below remedial goals (reference Table 1). The excavation phase of the site remediation commenced on June 30, 2004 and was completed with backfilling and contouring on July 13, 2004.

This release site is located in Unit Letter B (NW<sup>1</sup>/<sub>4</sub> of the NE<sup>1</sup>/<sub>4</sub>), Section 32, T17S, R33E, at a latitude of N32° 47' 44.42" and a longitude of W103° 40' 56.35". The site is approximately 6.25-miles southeast of Maljamar, New Mexico. The property is owned by Snyder Ranches (*reference Figures 1 through 3*).

## 2.0 Site Description

### 2.1 Geological Description

<u>The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and</u> <u>Ground-Water Conditions in Southern Lea County, New Mexico," A. Nicholson and A.</u> <u>Clebsch, 1961</u>, 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 Quercho Plains physiographic subdivision, described by Nicholson & Clebsch as a "vast sand dune area; which is stable or semi-stable over most of the area, but which locally drifts."

### 2.2 Ecological Description

The site is located in the Quercho Plains, a vast dunal area. Vegetation consists primarily of semi-desert grasslands interspersed with Honey Mesquite (*Prosopis glandulosa*) and, annual and perennial forbs. Mammals represented, include Orrd's and Merriam's Kangaroo Rats, 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.

### 2.3 Area Ground Water

The unconfined groundwater aquifer at this site is projected to be >100-ft bgs based on limited water depth data obtained from the New Mexico State Engineers Office data base. Ground water gradient in this area is generally to the east-southeast.

### 2.4 Area Water Wells

All recorded wells are greater than 1,000 horizontal feet from the site.

### 2.5 Area Surface Water Features

No surface water bodies exist within 1,000 horizontal feet of the site.

## 3.0 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 groundwater were characterized consistent with the characterization and remediation/abatement goals and objectives set forth in the following New Mexico Oil Conservation Division (NMOCD) publications:

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

Acceptable thresholds for contaminants/constituents of concern (CoC), were determined based on the NMOCD Ranking Criteria as follows:

• Depth to Groundwater (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 Bodies (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 groundwater 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 table presented below.

1. Grou	nd Water	2. Wellhead	d Protection Area	3. Distance to Surface Water
Depth to GW	<50 feet: 20 ints	,	n water source, or; vate domestic water	<200 horizontal feet: 20 points
	50 to 99 feet: oints		e: 20 points	200-1,000 horizontal feet: 10 points
•	W >100 feet: bints	>200' from priv	n water source, or; vate domestic water e: <i>0 points</i>	>1,000 horizontal feet: <i>0 points</i>
Ground Wat	ter Score = 0	Wellhead Pro	otection Score= 0	Surface Water Score= 0
	,	Site Rank (1+2+	(3) = 20 + 0 + 0 = 0 p	oints
	Total Site Rank	ing Score and A	cceptable Remedial	Goal Concentrations
Parameter	20 c	pr >	10	0
Benzene	10 p	pm	10 ppm	10 ppm
BTEX'	50 p	pm	50 ppm	50 ppm
ТРН	100	opm	1,000 ppm	5,000 ppm

A field soil vapor headspace measurement of 100 ppm may be substituted for a laboratory analysis of the benzene and BTEX concentration limits.

# 4.0 Subsurface Soil Investigation

Initial excavation activities consisted of excavating/scraping NGL saturated topsoil in the flowpath area north of the point of release (POR) (*reference Figure 3*). To confirm removal of NGL contaminated soil, four-point composite soil samples were collected on July 30, 2004. A portion of each sample was analyzed in the field for organic vapor concentrations utilizing an UltraRae PID equipped with a 9.8 eV lamp. Organic vapor concentrations ranged from 107 to 126 ppm, with an average of 111 ppm. The remaining portion of each sample was placed in a jar, set on ice for transport and submitted to an independent laboratory for analyses. Reported concentrations for benzene were <0.005; BTEX concentrations ranged from <0.03 to 0.04 mg/Kg; and TPH concentrations ranged from <20 to 228 mg/Kg. All hydrocarbon concentrations were below NMOCD remedial thresholds as outlined in Section 3.0. Analytical results indicated chloride concentrations ranged from 48 to 80 mg/Kg and sulfate concentrations ranged from <1 to 103 mg/Kg, below NMWQCC groundwater standards.

The vertical and lateral extents of contamination at the header and POR were determined with measurements of organic vapor concentrations as the excavation progressed outwardly from the POR. To verify removal of NGL contaminated soil, soil samples were collected on July 7, 2004 from the excavation sidewalls at 14-feet bgs, as well as from the bottom hole at 18-feet bgs (*reference Figure 4*). A portion of each sample was field analyzed for organic vapor concentrations

utilizing a PID; the remainder of each sample was submitted for laboratory analyses. Organic vapor concentrations ranged from 198 to 1,920 ppm. Analytical results indicated that TPH concentrations ranged from <20.0 to 481 mg/ Kg. Reported benzene concentrations were <0.002 and BTEX concentrations ranged from <0.03 to <0.022 mg/Kg. All hydrocarbon concentrations were below NMOCD remedial thresholds. Reported chloride concentrations were below NMWQCC groundwater standards of 250 mg/L, except for the samples collected from the north sidewall (SDECLH7704NSW) and the bottom hole (SDECLH7704BH). Reported chloride concentrations for the north sidewall sample was 720 mg/Kg and for the bottom hole was 352 mg/Kg. Sulfate concentrations ranged from <1 to 334 mg/Kg, all samples were below NMWQCC groundwater standards of 650 mg/L (*reference Table 1*).

On July 12, 2004, a soil sample was collected from the excavated NGL contaminated soil after blending with clean soil obtained from the right-of-way. A portion of the sample was analyzed in the field for organic vapor concentrations utilizing a PID. The remainder of the sample was submitted to an independent laboratory for quantification of TPH, BTEX constituents, chloride and sulfate concentrations. Analytical results indicated hydrocarbon concentrations were below NMOCD remedial thresholds for all samples. Reported chloride concentrations were 304 mg/Kg and sulfate concentrations were 1,002 mg/kg. (*reference Table 1*).

## 5.0 Ground Water Investigation

The projected depth to ground water at this site is >100-ft bgs. Excavation of the site was to a maximum depth of 18-feet bgs. Final field analyses for soil samples collected from the sidewalls and soil boring in the excavation indicated organic vapor concentrations ranged from 198 to 1,920 ppm. In addition, analytical results for samples collected from the sidewalls and base of the excavation indicated that hydrocarbon concentrations were below NMOCD remedial thresholds (*reference Table 1*).

The excavation was backfilled with the excavated material after it had been blended with clean soil purchased from the property owner and obtained from the right-of-way. Based on the treatment of impacted soil hydrocarbon concentrations to below NMOCD remedial threshold adequate depth to ground water (>100-feet bgs), there is no need for further groundwater investigation at this site.

## 6.0 Remediation Process

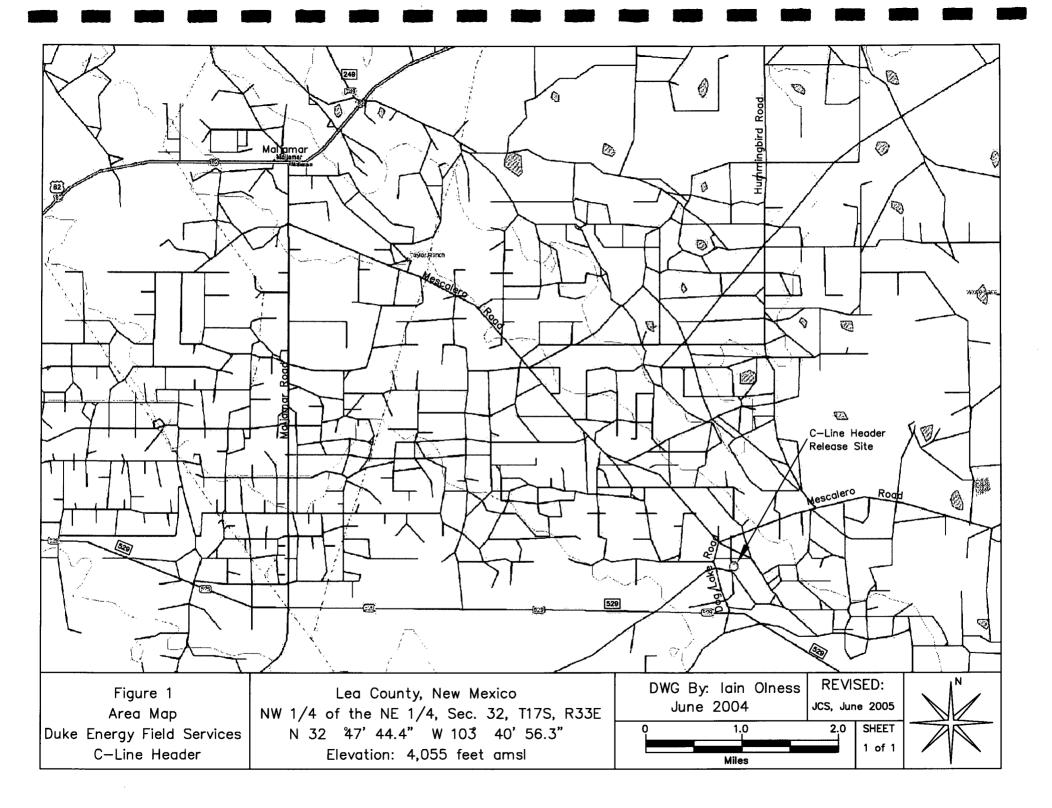
Remediation of the site commenced on June 30, 2004 and continued through July 13, 2004. Remedial activities at the site consisted of the excavation of approximately 1,400 yd<sup>3</sup> of NGL contaminated soil from the site. Approximately 332 yd<sup>3</sup> of NGL impacted soil was transported to the Artesia Aeration landfarm for treatment. The remaining contaminated soil was blended with clean soil purchased from the property owner and obtained from the right-of-way. After laboratory analyses of the excavation sidewalls, floor, soil boring and blending cell sample indicated TPH and BTEX constituent concentrations were below NMOCD remedial thresholds the excavation was backfilled with the blended soil. (*reference Table 1 and Appendix 1*). The backfilling and contouring of the site was completed on July 13, 2004.

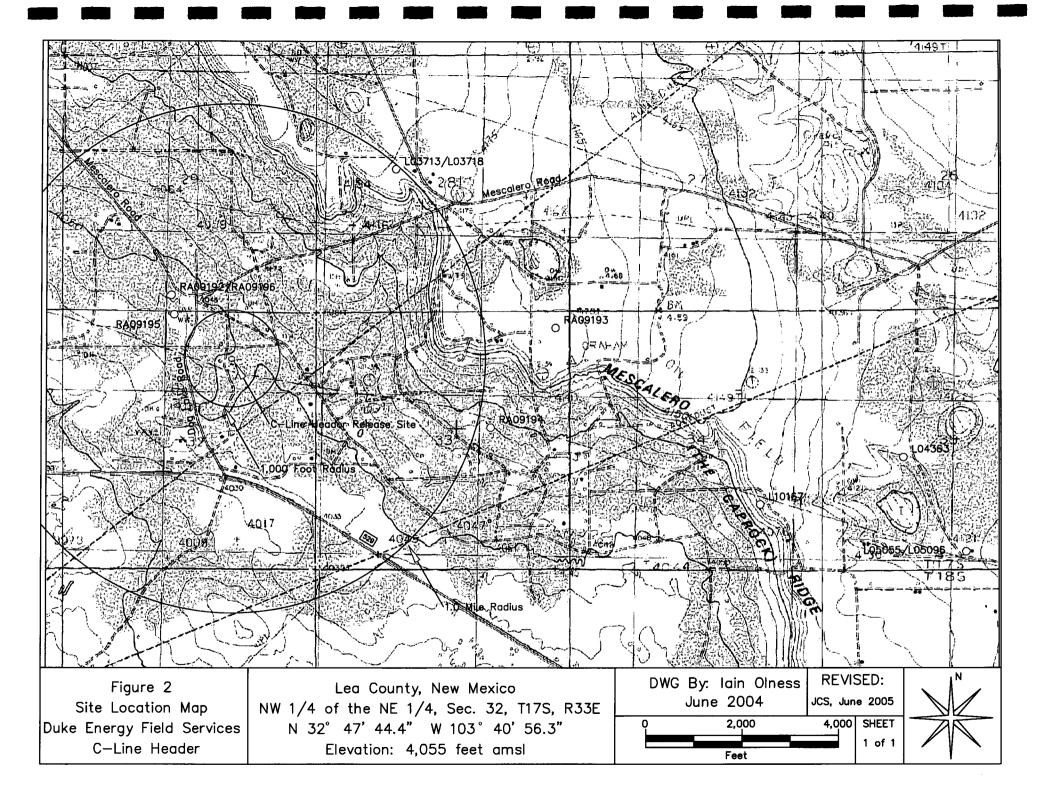
# 7.0 Closure Justification

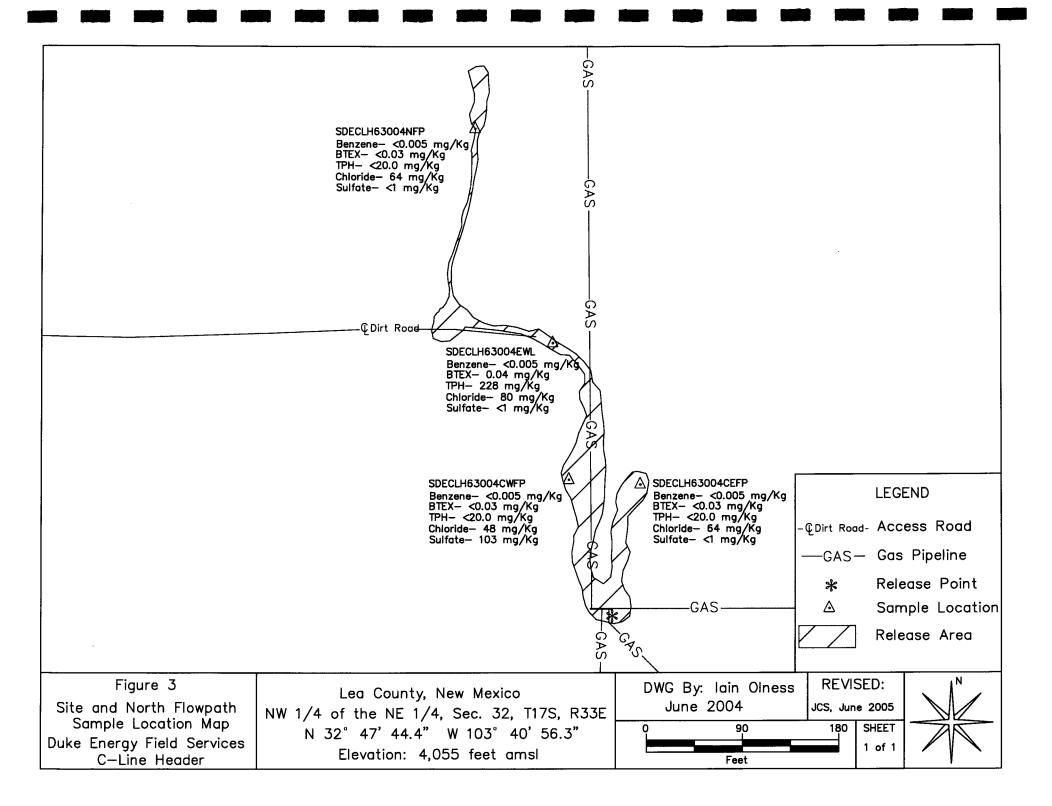
This report documents successful treatment of impacted soil above the NMOCD remedial thresholds discussed in Section 3.0 above and confirmed via laboratory analyses for this release site. Due to the depth to groundwater (i.e., >100-feet), it is suggested that the remaining chloride and

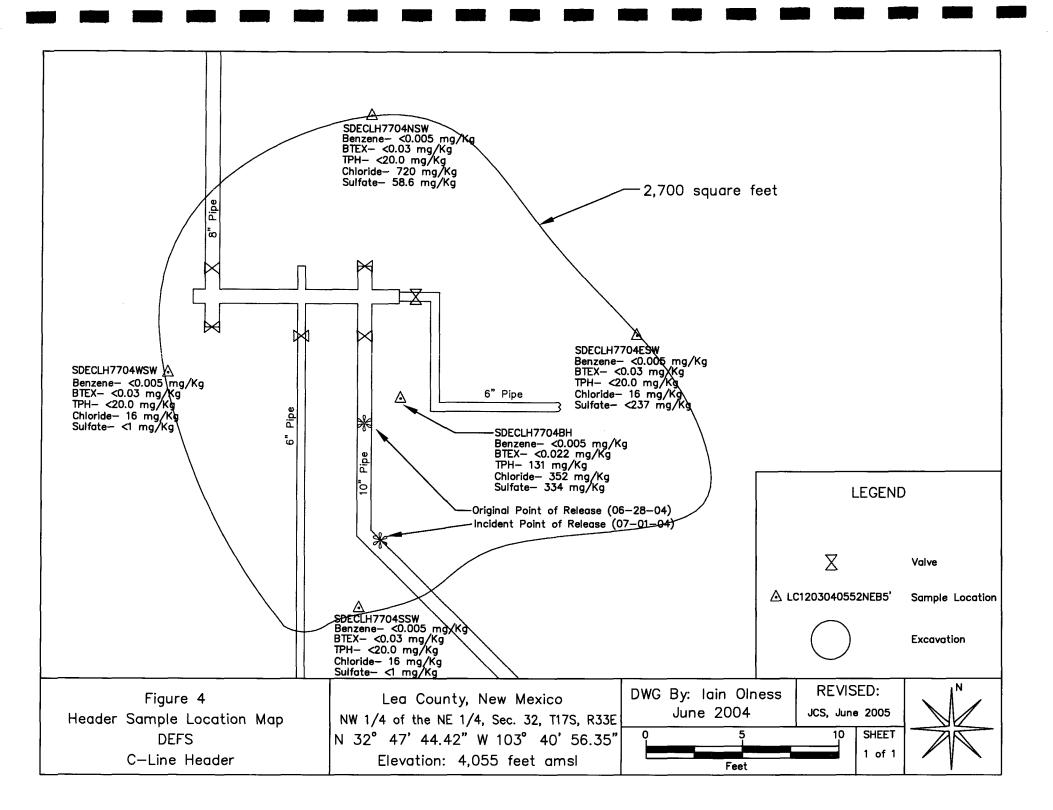
sulfate residuals in the soil will not impact the groundwater and can be left in place. The NGL impacted soil was excavated with a portion transported to the Artesia Aeration landfarm for treatment. The remaining NGL impacted soil was blended with clean soil purchased from the property owner and obtained from the right-of-way and returned to the excavation. 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 and issue a *Site Closure Letter*.

# **FIGURES**









# **TABLES**

Soil Boring	Depth (feet)	Sample Date	PID Reading (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)	Sulfate (mg/Kg)
SDECLH63004N FP	5	06/30/04	116	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	64	<1
SDECLH63004E WL	5	06/30/04	124	<0.005	0.017	0.018	<0.015	0.04	<10.0	228	228	80	<1
SDECLH63004C WFP	5	06/30/04	126	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	48	103
SDECLH63004C EFP	5	06/30/04	107	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	64	<1
SDECLH7704N SW	14	07/07/04	780	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	720	58.6
SDECLH7704W SW	14	07/07/04	820	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	16	<1
SDECLH7704SS W	14	07/07/04	198	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	16	<1
SDECLH7704ES W	14	07/07/04	1920	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	16	237
SDECLH7704B H	18	07/07/04	920	<0.005	<0.005	0.007	0.015	0.022	<10.0	131	131	352	334
SDECLH71204B CN	Surface	07/12/04	353	<0.005	0.047	0.189	0.668	0.904	<10.0	481	481	304	1,002
NMOCD Re	medial Th	resholds	100	10				50			1,000	2503	650 <sup>3</sup>

 TABLE 1

 Summary of Excavation Soil Field Analyses and Laboratory Analytical Results

 DEFS C-Line Header (Ref.# 130005)

<sup>1</sup>Bolded values are in excess of NMOCD Remediation Thresholds

<sup>2</sup> NA=Not Analyzed

<sup>a</sup>Chloride and Sulfate residuals may not be capable of impacting local groundwater above the NMWQCC standards of 250 mg/L and 650 mg/L respectively.

## **APPENDIX I**

# LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS



PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: IAIN OLNESS P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 07/08/04 Reporting Date: 07/09/04 Project Owner: DUKE ENERGY FIELD SERVICES Project Name: C LINE HEADER Project Location: NOT GIVEN Sampling Date: 06/30/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: BC

		GRO	DRO			ETHYL	TOTAL
LAB NO.	SAMPLE ID	(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSI	S DATE:	07/08/04	07/08/04	07/09/04	07/09/04	07/09/04	07/09/04
H8888-1	SDECLH63004NFP	<10.0	<10.0	< 0.005	< 0.005	< 0.005	<0.015
H8888-2	SDECLH63004EWL	<10.0	228	< 0.005	0.017	0.018	0.054
H8888-3	SDECLH63004CWFP	<10.0	<10.0	< 0.005	< 0.005	< 0.005	<0.015
H8888-4	SDECLH63004CEFP	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
Quality Co	ontrol	768	848	0.105	0.103	0.096	0.280
True Valu	e QC	800	800	0.100	0.100	0.100	0.300
% Recove	ery	95.9	106	105	103	96.3	93.2
<b>Relative</b> F	Percent Difference	2.6	3.7	0.8	1.4	5.3	3.0

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

H8888A.XLS

PLEASE NOTE: Llability 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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: IAIN OLNESS P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 07/08/04 Reporting Date: 07/09/04 Project Owner: DUKE ENERGY FIELD SERVICES Project Name: C LINE HEADER Project Location: NOT GIVEN Sampling Date: 06/30/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: AH

LAB NUMBER	SAMPLE ID	Sulfate (mg/Kg)	Cl (mg/Kg)
ANALYSIS DA	TE:	07/09/04	07/09/04
H8888-1	SDECLH63004NFP	<1	64
H8888-2	SDECLH63004EWL	<1	80
H8888-3	SDECLH63004CWFP	103	48
H8888-4	SDECLH63004CEFP	<1	64
Quality Control		48.21	1000
True Value QC		50.00	1000
% Recovery		96.4	100
Relative Perce	nt Difference	6.2	2.0
METHODS: EF	PA 600/4-79-02	375.4	SM 4500-CI <sup>-</sup> B

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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service QMAeevent 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

Cardinal	Laborator	ies In	c.																								
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505-393-2326 F	ax 505-393-2476						91	5-67	/3-7	001	F			673-7020						_							
<b>Company Name</b>	: Environm	ental Plus,	Inc.								dey e	Bil	l To						AN/	ALY	<b>'SIS</b>	RE		EST			1.1
EPI Project Man	ager: lain Olnes	S																			Γ						
Billing Address:	P.O. BOX	1558											95.22P	6				l		ł				i			
City, State, Zip:		ew Mexico 8	382	31							ź		Ш							l							
EPI Phone#/Fax	#: 505-394-3	481 / 505-3	394-	260	)1		<						e,														
<b>Client Company</b>	: Duke Ener	gy Field Sen	vices	5																				1			
Facility Name:	C-Line He	ader																									
Project Reference	<b>:e:</b> 130005																										
EPI Sampler Nar	ne: Eddie Joe	Harper																1									
							MA	TRIX	ζ		PF	RESE	ERV.	SAM	PLING	]											
LAB I.D.	SAMPLE I.	D.	(G)RAB OR (C)OMP.	# CONTAINERS	<b>GROUND WATER</b>	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (CI)	SULFATES (SO4 <sup>¬</sup> )	PH	TCLP	OTHER >>>					
H8888 - 1	SDECLH63004NFP		G	1			X				$\top$	X		30-Jun	13:05	X	X	X	X	İ –		$\square$					
	SDECLH63004EWL		G	1			X					X		30-Jun	14:10	X	X	X	X								_
- 3	SDECLH63004CWF	P	G	1			X			Γ	Γ	X	1	30-Jun	14:25	X	TX	X	X		Γ						
- 4	SDECLH63004CEF	)	G	1			Х					X		30-Jun	14:40	X	X	X	X		Γ						
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$\square$		Time										-	MAR		·····	-						·		<u> </u>			_
Reingaished by:	bab	Date 01-08-04 Time2:18	Reco		By: (1 hope	ab sta	₩ }~)	Mo			/			samples fo e<10 ppm	r chloride a	and s	sulfat	es if	TPH	<5,(	000 p	<b>p</b> m,	BTE	X <5	0 pp	m an	d
Delivered by:		Sample (Yes			act Io			Ċh	ecked	l By:																	

# Cardin



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: IAIN OLNESS P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 07/07/04 Reporting Date: 07/08/04 Project Owner: DUKE ENERGY FIELD SERVICES Project Name: C LINE HEADER Project Location: NOT GIVEN Sampling Date: 07/07/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: HM

LAB NUMBER	SAMPLE ID	Sulfate (mg/Kg)	CI (mg/Kg)
ANALYSIS DA	TE:	07/08/04	07/08/04
H8883-1	SDECLH7704NSW	58.6	720
H8883-2	SDECLH7704WSW	<1	16
H8883-3	SDECLH7704SSW	<1	16
H8883-4	SDECLH7704ESW	237	16
H8883-5	SDECLH7704BH	334	352
Quality Contro	l	48.21	1000
True Value Q0	)	50.00	1000
% Recovery		96.4	100
Relative Perce	ent Difference	6.2	2.0
METHODS: E	PA 600/4-79-02	375.4	SM 4500-CI B

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, graduing those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. This 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: IAIN OLNESS P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 07/07/04 Reporting Date: 07/08/04 Project Owner: DUKE ENERGY FIELD SERVICES Project Name: C LINE HEADER Project Location: NOT GIVEN Sampling Date: 07/07/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: BC

		GRO	DRO			ETHYL	TOTAL
LAB NO.	SAMPLE ID	(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSI	S DATE:	07/07/04	07/07/04	07/08/04	07/08/04	07/08/04	07/08/04
H8883-1	SDECLH7704NSW	<10.0	<10.0	< 0.005	< 0.005	< 0.005	<0.015
H8883-2	SDECLH7704WSW	<10.0	<10.0	< 0.005	<0.005	< 0.005	<0.015
H8883-3	SDECLH7704SSW	<10.0	<10.0	< 0.005	<0.005	< 0.005	<0.015
H8883-4	SDECLH7704ESW	<10.0	<10.0	< 0.005	<0.005	< 0.005	<0.015
H8883-5	SDECLH7704BH	<10.0	131	<0.005	<0.005	0.007	0.015
Quality Co	ontrol	778	819	0.106	0.102	0.091	0.091
True Valu	e QC	800	800	0.100	0.100	0.100	0.300
% Recove	ery	97.3	102	106	102	91.2	90.5
<b>Relative P</b>	Percent Difference	12.4	10.8	2.0	3.9	3.1	1.5

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

Date

H8883A.XLS

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Cardinal	Laboratories In	c.																								
101 East Marland	, Hobbs, NM 88240					211	11 B	eec	hwc	bod,	Abi	lene	e, TX 796	03												
505-393-2326 F	ax 505-393-2476					915	5-67	3-7(	001	Fa	ax 9	15-6	573-7020													
<b>Company Name</b>	Environmental Plus	s, Inc	c.								Bill	To				(1973) (1973)		AN	NEY	SIS	RE	QU	<b>EŞ</b> T			
EPI Project Mana	ager Iain Olness													_												
Billing Address	P.O. BOX 1558										. v 08	<u></u>	Maria													
City, State, Zip	Eunice New Mexico	882	231						1	Ś	16 19 19 - 19 19 - 19	Ш				[										
EPI Phone#/Fax#	\$505-394-3481 / 505-	394-	260	)1		<		165			-															
<b>Client Company</b>	Duke Energy Field S	ervic	e									J						<b> </b> .								
Facility Name	C-Line Header											HUI.														
Project Reference																1										
EPI Sampler Nan	ne Eddie Joe Harper								_		_															
						MAT	<b>FRIX</b>			PR	ESE	RV.	SAM	PLING							}					
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP	# CONTAINERS	<b>GROUND WATER</b>	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (CI)	SULFATES (SO₄ <sup>=</sup> )	Hd	TCLP	OTHER >>>	Sulfate	Chloride			
H8883 - 1	SDECLH7704 NSW					X					X		7-7-04	1:PM	X	Χ						X	X			
	SDECLHMOJUSW													1:10	ľ	[ ]										
- 3	SDECLH 7704 SSW													1:15	1	Z						$\left[ \right]$	$\left[ \right]$			
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- 5	SDECLH 7704 RH												)	1:30	1	K						$\Box$	3_			
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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: IAIN OLNESS P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 07/12/04 Reporting Date: 07/13/04 Project Number: 1300005 Project Name: DUKE ENERGY Project Location: C-LINE HEADER Sampling Date: 07/12/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC

	GRO	DRO			ETHYL	TOTAL
LAB NO. SAMPLE ID	(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	BENZENE	TOLUENE	BENZENE	XYLENES
	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DATE:	07/12/04	07/12/04	07/12/04	07/12/04	07/12/04	07/12/04
H8899-1 SDECLH71204BCN	<10.0	481	<0.005	0.047	0.189	0.668
Quality Control	787	738	0.091	0.091	0.087	0.264
True Value QC	800	800	0.100	0.100	0.100	0.300
% Recovery	98.4	92.2	91.2	94.3	86.9	88.0
Relative Percent Difference	6.6	3.3	8.5	3.8	3.3	<0.1

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

H8899A.XLS

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PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: IAIN OLNESS P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 07/12/04 Reporting Date: 07/14/04 Project Number: 1300005 Project Name: DUKE ENERGY FIELD SERVICES Project Location: C-LINE HEADER Sampling Date: 07/12/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: HM

LAB NUMBER SAMPLE ID	Sulfate (mg/Kg)	CI (mg/Kg)
ANALYSIS DATE:	07/09/04	07/09/04
H8899-1 SDECLH71	204BCN 1002	304
Quality Control	48.21	990
True Value QC	50.00	1000
% Recovery	96.4	99.0
Relative Percent Difference	6.2	1.0
METHODS: EPA 600/4-79-0	2 375.4	SM 4500-CI <sup>-</sup> B

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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, discluding those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. The 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	CUINAL LABORATORIES, INC 2111 Beechwood, Abilene, TX 7 (915) 673-7001 Fax (915) 673	9603											· .				۰.		Page	of	
Company Name:	Duke ENEIGH		1000	-/								783		1		ANA	Lysis	REC	QUEST		
Project Manager:	Paul Mulkey							P	.0. (	<b>#:</b>				<b></b>	ŀ	1		T			
Address:								c	om	pany:	E	PE		]			1			1	
City: Ho	66 s State: NM	Zip	2					A	ttn:		I	بذر به		1		}		ł	1		}
Phone #:	Fax #: 344	- 26	01					A	ddn	<b>95</b> \$;				1		1	1				ł
Project #: /300005 Project Owner:					c	City: EUNICE			J		1. *										
Project Name:								S	Late	): <i>X</i>	J.#	Zip: 882	3/	J		1				1	
Project Location:	C-LINE HEAder.							P	hon			94 - 348		].	}	1			1	]	
Sampler Name:	Eddie SHArps							F	ax i	F:				]	1			2		1	
FOR LAB USE ONLY	· · · · · · · · · · · · · · · · · · ·		T	L		MATI	RIX		T	PRES	ERY.	SAM	LING	]		\-	4 7	8			
Lab I.D.	Sample I.D.	GRABOR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE OTHER -	1000000	ACID/BASE: LCE / COOL	OTHER :	DATE	TIME	3.5	Hat		4/14	1.0.14.2			
118899-1	SDECLH 71204 BCN	G		L	$\square$	1			Τ	1	_	2-12-04	9Am	2	17			1	_	$\perp$	
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instyces. At claims, including the service. In no overs shall Candid	lamages, Cardinal's liability and client's exclusive remody for any claim at in ternaligence and any other cause shutsower shalt be deemed webed and it be folls for incidential or convergenced damages, including without instation, ut for related to the performance of services hereurder by Cerdind, regerder	iusa mando il: Intelmente inter	witting a maction	und recu s. love c	dracky X van, o	Curdin r lose c	ni witin A peofic	1 36 daya Bibliotek	L stin 1 by d	r comple Norti, its	tion of t subside	he applicable ries.		30	days past (	due at the	nierest w rate of 24 m, includin	% per ann	ed on all act um from the /s focs.	ounts mo original da	ne than ste of invoice,
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† Cardinal cannot accept verbal changes. Please fax written changes to (915) 673-7020.

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# **APPENDIX II**

# **PROJECT PHOTOGRAPHS**

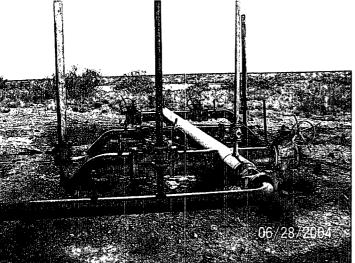


Photo #1: Release area, looking westerly at header. Dark soil indicates contamination.

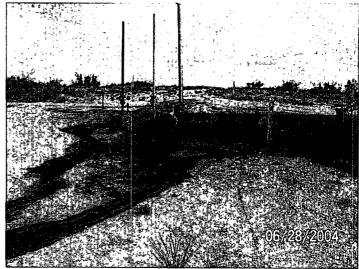


Photo #2: Release area, looking westerly at header. Dark soil indicates contamination



Photo #3: Release area, north of header, looking easterly. Dark soil indicates contamination.

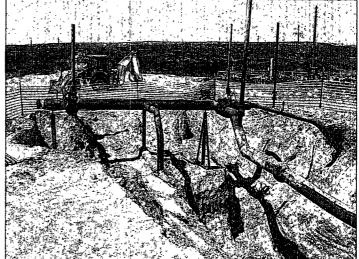


Photo #4: Excavation at header, looking northerly.

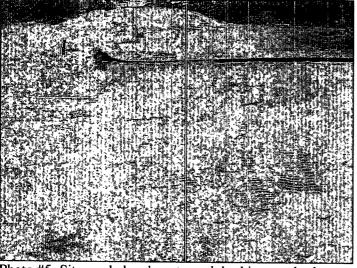


Photo #5: Site graded and contoured, looking northerly.

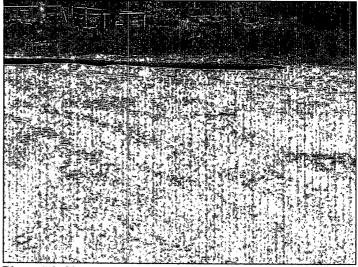


Photo #6: Site graded and contoured, looking northerly.

# **APPENDIX III**

# SITE INFORMATION AND METRICS FORM AND FINAL NMOCD C-141 FORM

#### Duke Energy. Field Services

0.	y Field Services Site tion and Metrics	Incident Da June 28, 20		NMOCD Not June 28, 2004			
Site: C-Line H		<u> </u>		Reference #: 1			
	uke Energy Field Services		Assigned Site	Kelerence #: 1	30003		
Street Address		•					
		Tichrory					
	ss: 11525 West Carlsbac			· · · · · · · · · · · · · · · · · · ·			
City, State, Zip		88240					
Representative		5716					
Representative	<b>Telephone:</b> (505) 397	-3710					
Telephone:			D				
Fluid volume r	eleased (bbls): $\approx 60$ bar			vered (bbls): 50 t submit form C-141 v			
				500 mcf Natural Gas			
	5-25 bbls: Submit form C-141	within 15 days	(Also applies to una	authorized releases o	f 50-500 mcf Natural Gas)		
Leak, Spill, or	Pit (LSP) Name: C-Li	ne Header					
	amination: 8" Steel Pipe						
Land Owner, i	.e., BLM, ST, Fee, Other	: Caviness Fa	amily Trust				
LSP Dimension	ns: 590 feet by 15.5 feet						
LSP Area: ≈9,	205 ft <sup>2</sup>						
Location of Re	ference Point (RP):						
	nce and direction from F	<u></u>					
Latitude: N 32	° 47' 44.42636"						
	103° 40' 56.35762"			·····			
	e mean sea level: 4,055						
	h Section Line:						
Feet from West							
	or 1/41/4: NW1/4 of the N	E <sup>1</sup> /4	Unit Lett	er: B			
Location- Sect	ion: 32	· · · · · · · · · · · · · · · · · · ·					
Location- Tow							
Location- Ran			······································				
		· · · · · ·					
Surface water	body within 1000 ' radiu	is of site: no			· · · · · · · · · · · · · · · · · · ·		
	r wells within 1000' radi				· · · · · · · · · · · · · · · · · · ·		
	ater wells within 1000' i						
	upply wells within 1000'				······································		
	nd surface to ground wa			d surface			
	mination (DC): Unknow		ioo below groun				
· · · · · · · · · · · · · · · · · · ·	nd water ( $DG - DC = Dt$		,	<u></u>			
	round Water		Vellhead Protect	ion Area	3. Distance to Surface Water Body		
	<50 feet: 20 points		om water source		S. Distance to Surface Water Body <200 horizontal feet: 20 points		
	50 to 99 feet: 10 points		estic water source		200-100 horizontal feet: 10 points		
	50 10 33 ICCl. 10 points		om water source		200-100 norizontal feet. To points		
If Depth to GW	>100 feet: 0 points		estic water source		>1000 horizontal feet: 0 points		
Ground water S	Score - 0		rotection Area S		Surface Water Score 0		
Site Rank (1+2)	and the second	weinead P	Tolection Area S	core=0	Surface Water Score= 0		
Sile Kunk (1+2-		4. Dar 1-2 6	N	<u></u>	4		
Demonster		te Kanking S		table Concentra			
Parameter			10-19		0-9		
Benzene			10 ppn	and the second se	10 ppm		
BTEX <sup>1</sup>	50 ppm		50 ppn		50 ppm		
TPH	100 ppm		1000 pp		5000 ppm		
+ 1 ()() mmm field	VOC headspace measurer	nent may be s	substituted for la	n analysis			

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 side of form

#### **Release Notification and Corrective Action**

	OPER	ATOR				Initial Report	🛛 Final	Report
Name	of Company	· · · <u>-</u> · · · · · · · ·			Contact			_
	Energy Field S				Mark Owens			
Addre	SS			· · · · · · · · · · · · · · · · · · ·	<b>Telephone</b> N	lo.		
1625 V	Vest Marland	, Hobbs, New Mexi	co 88240		505-397-554	1		
Facilit	ty Name				Facility Typ	e		
C-Line	Header				8" Steel Pipe	line		
	ce Owner			Mineral Owne	er	<u></u>	Lease No	•
Cavine	ess Family Tr	ust					L	
			L	OCATION O	F RELEAS	E		
Linit	Section	Townshin	Dange	Feet from the N	orth/South	Feet from the East/Wes	t County	Leo

Letter 32 T17S R33E Line Line Lat. N 32° 47' 44.420	26"
B Lon. W 103° 40' 56.3	

NATURE O	F RELEASE							
Type of Release Natural Gas Pipeline Fluids	Volume of Release 60 barrels	Volume Reco	overed					
Source of Release	Date and Hour of Occurrence		ur of Discovery					
8" steel pipeline operating at 20 lbs with a normal daily flow rate of 2.5	June 28, 2004 @ 1000	June 28, 2004						
million gallons per day	June 28, 2004 @ 1000	June 20, 2004	e 1550					
Was Immediate Notice Given?	If YES, To Whom?							
Yus Inniediate Notice Ofvent	Larry Johnson							
By Whom?	Date and Hour							
Lynn Ward of DEFS	June 28, 2004 @ 1355							
Was a Watercourse Reached? Ves X No	If YES, Volume Impacting the Wate	ercourse.						
	NA							
If a Watercourse was Impacted, Describe Fully.*	······································							
NA								
Describe Cause of Problem and Remedial Action Taken.*								
Steel line began leaking. Clamp Installed.								
Describe Area Affected and Observer Action Talan #								
<b>Describe Area Affected and Cleanup Action Taken.</b> * $\approx 332 \text{ yd}^3$ soil contaminated above the NMOCD Remedial Guidelines was disposed of at a state approved landfarm, the remaining soil was remediated								
	$\sim$ 552 yd son containinaed above the HWOCD Remedial Condennes was disposed of at a state approved randrami, the remaining son was remediated on site. Remedial Goals: TPH = 5,000 mg/Kg, benzene = 10 mg/Kg, and BTEX = 50 mg/Kg.							
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release noti	best of my knowledge and understand t	hat pursuant to	NMOCD rules and					
public health or the environment. The acceptance of a C-141 report by the N	MOCD marked as "Final Report" does	s for relieve the	operator of liability					
should their operations have failed to adequately investigate and remediate c								
health or the environment. In addition, NMOCD acceptance of a C-141 repo	ort does not relieve the operator of resp	onsibility for co	mpliance with any					
other federal, state, or local laws and/or regulations.	sit does not remeve the operator of resp	Sustemity for co						
	OIL CONSERVA	TION DIV						
Signature: / / and () uses			<u>1510N</u>					
Printed Name: Mark Owens								
E-mail Address: mrowens@duke-energy.com	Approved by District Supervisor:							
E-mail Audi cos, mrowens@duke-energy.com		- <u>I</u>						
Title: Construction Maintenance Supervisor	Approval Date:	Expiration I	Date:					
Date: 7-1-05 Phone: 505-397-5541			Attached					
<b>Date:</b> / - (-()) <b>Phone:</b> 505-397-5541	Conditions of Approval:							

\* Attach Additional Sheets If Necessary