

# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary Mark E. Fesmire, P.E. Director Oil Conservation Division

January 10, 2006

Lynn Ward Duke Energy Field Services 10 Desta Dr. Ste 400W Midland, TX 79705 lcward@duke-energy.com

Re: Closure Approval: B-Line - #130013 Site Reference UL-N, Sec-26 T-17S R-35E Initial Notification Date: September 6, 2004 Closure Request Dated: December 14,2005

Dear Ms Ward,

The **Final Closure Document** submitted to the New Mexico Oil Conservation Division (OCD) by Environmental Plus, Inc. for Duke Energy Field Services is **hereby approved**. According to the information provided, no further action is required at this time.

Please be advised that OCD approval does not relieve Duke Energy Field Services of liability should remaining contaminants pose a future threat to ground water, surface water, human health or the environment. Additionally, OCD approval does not relieve Duke Energy Field Services of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you have any questions or need assistance please feel free to call me at (505) 393-6161, x111 or email lwjohnson@state.nm.us

Sincerely,

Aduson

Larry Johnson - Environmental Engineer

Cc: Chris Williams - District I Supervisor Roger Anderson – Environmental Bureau Paul Sheeley - Environmental Engineer

# LETTER OF TRANSMITTAL



Date: <b>To:</b>	December 14, 2005 Larry Johnson
Company Name:	New Mexico Oil Conservation Division – Hobbs
Address:	1625 French Drive
City / State / Zip:	Hobbs, New Mexico 88240
From:	Jason Stegemoller
CC:	Cody Morrow – New Mexico State Land Office – Sante Fe
	Steve Weathers, DEFS – Denver; Lynn Ward, DEFS – Midland;
	Ronnie Gilchrest, DEFS – Hobbs; Mark Owens, DEFS – Hobbs
Project #:	130013
Project Name:	Duke Energy Field Services – B Line
Subject:	Remedial Investigation/Closure Report

# of originals	# of copies	Description
	1	Copy of the Duke Energy Field Services – B Line Remedial Investigation/Closure Report
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#### Remarks

Dear Mr. Johnson:

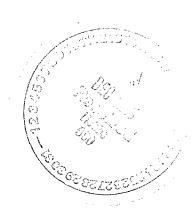
Enclosed is a copy of the Remedial Investigation/Closure Report for the above-referenced site. A copy of the Report was sent to the New Mexico State Land Office and appropriate Duke Energy personnel. Should you have any questions or concerns, please feel free to contact lain Olness or me at (505) 394-3481.

Sincerely,

Environmental Plus, Inc.

lanon Ategende

Jason Stegemoller



P. O. Box 1558 Eunice, NM 88240 (505) 394-3481 Fax: (505) 394-2601



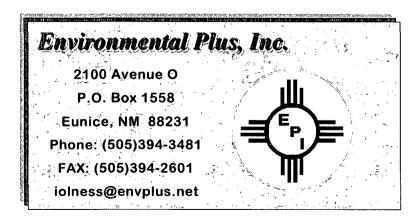
# **REMEDIAL INVESTIGATION/ CLOSURE REPORT**

# **B-LINE RELEASE SITE DEFS REF: 130013**

UL-N (SE<sup>4</sup> of the SW<sup>4</sup>) of Section 26, T17S, R35E ~4.37 Miles East of Buckeye Lea County, New Mexico Latitude: N 32° 47' 57.0" Longitude: W 103° 25' 49.0"

**DECEMBER 2005** 

**PREPARED BY:** 



### **Standard of Care**

#### **Closure Report**

#### B-Line (Ref. #130013)

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:

anon Ategemoli-

Jason Stegemoller, M.S. Environmental Scientist

Date

14 December 2005

This report was reviewed by:

Oren ant

Iain A. Olness, P.G. Hydrogeologist

14 December 2005

Date

#### **Distribution** List

#### Duke Energy Field Services- B Line (Ref. #130013)

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### **Project Summary**

### Site Specific:

- Company Name: Duke Energy Field Services
- Facility Name: B-Line
- Project Reference 130013
- Company Contacts: Mark Owens, DEFS-Hobbs, NM and Lynn Ward, DEFS, Midland, TX
- Site Location: WGS84 N32° 47' 57.026"; W103° 25' 49.000"
- Legal Description: Unit Letter N (SE¼ of the SW¼), Section 26, T17S, R35E
- General Description: approximately 4.37-miles east of Buckeye, New Mexico
- Elevation: 3,909-ft amsl Depth to Ground Water: ~54-ft
- Land Ownership: State of New Mexico
- EPI Personnel: Project Consultant Iain Olness

#### Site Foreman – Eddie Joe Harper

### **Release Specific:**

- Product Released: Natural Gas Liquids (NGL)
- ◆ Volume Released: ≈25 bbl Volume Recovered: 20-bbl
- Date of Occurrence: 16 September 2004 Date of Discovery: 16 September 2004
- Release Source: 8-inch steel pipeline, operating at 15-20 lbs
- Initial Surface Area Affected: ≈300-ft<sup>2</sup>

### Remediation Specific:

- Final Vertical extent of contamination: 20-ft bgs at maximum; Remaining depth to ground water: >30-ft
- Water wells within 1,000-ft: 0
  Surface water bodies within 1,000-ft: 0
- NMOCD Site Ranking Index: 20 points
- Remedial goals for Soil: TPH 100 mg/kg; BTEX 50 mg/kg; Benzene 10 mg/kg.
- RCRA Waste Classification: Exempt
- Remediation Option Selected: a) Excavation of contaminated soil above NMOCD remedial goals and transport to landfarm for treatment and blending; b) laboratory analyses to confirm removal of soil impacted above NMOCD remedial thresholds; c) backfill the excavation with blended and clean soil obtained from the surrounding area.
- Disposal Facility: South Monument Land Farm
  Volume disposed of: 324-yd<sup>3</sup>
- Project Completion Date: 18 October 2004
- Additional Commentary: None

### **1.0 Introduction & Background**

This report addresses the site investigation and remediation of the Duke Energy Field Services (DEFS) B-Line 8-inch natural gas pipeline remediation site. This release site is located in Unit Letter N (SE<sup>1</sup>/<sub>4</sub> of the SW<sup>1</sup>/<sub>4</sub>), Section 26, T17S, R35E, at a latitude of N32° 47' 57.026" and a longitude of W103° 25' 49.000". The site is approximately 4.4-miles east of Buckeye, New Mexico. The property is owned by the State of New Mexico and utilized for livestock grazing (reference *Figures 1* and 2).

On September 16, 2004, Environmental Plus, Inc. (EPI) was notified by DEFS regarding a recently discovered natural-gas and natural gas liquid (NGL) release along the B-Line pipeline. At the time of release the steel pipeline was being replaced with a polyethylene pipeline laid adjacent to the steel line. The Initial C-141 Form submitted to the New Mexico Oil Conservation Division (NMOCD) stated a release of 25 barrels (bbl) of NGL, with 20 bbl recovered. EPI performed GPS surveying, photography and characterization of the site on September 20, 2004. The release site consisted of an approximate 300 square feet ( $ft^2$ ) of visibly affected surface area (reference *Figure 3*).

On September 21, 2004, test trenches were excavated to the north, south, east and west of the pointof-release (POR) to determine extents of NGL impacts. Soil samples were collected 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 and for chloride concentrations utilizing a La Motte Chloride Test Kit. Field analytical results indicated vertical extents of NGL impacts at the POR were to 20-feet below ground surface (bgs) and lateral extents of contamination to the north and south of the POR were to a depth of 7-feet bgs (reference *Figure 4*).

Remedial excavation activities at the site consisted of excavating approximately 1,000 cubic yards (yds<sup>3</sup>) of NGL impacted soil and transporting approximately 324 yds<sup>3</sup> to the South Monument Land Farm for treatment (reference *Figure 5*). The remaining impacted soil was blended on site with clean soil purchased from Mr. Giles Lee and with soil obtained from the pipeline right-of-way. On September 23 and 24, and October 5, 2004, soil samples were collected from the excavation and analyzed in the field for the presence of organic vapors utilizing a photoionization detector and for chloride concentrations utilizing La Motte Chloride Test Kit. Field analytical results indicated organic vapor concentrations ranged from 0.0 to 15.2 parts per million (ppm) and chloride concentrations ranged from 100 to 160 milligram/kilogram (mg/Kg). In addition, samples were submitted for laboratory confirmation that NGL impacted soil above NMOCD thresholds had been removed. Analytical results confirmed that NMOCD remedial goals for total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene and total xylenes (BTEX) were achieved (reference *Table 1*). On October 7 through 12, 2004, soil samples were collected from the blended soil and submitted for laboratory analyses. Analytical results indicated that NMOCD remedial thresholds had been achieved.

The excavation phase of the site remediation commenced on September 20, 2004 and was completed with backfilling with blended soil and contouring on October 18, 2004.

### 2.0 Site Description

### 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 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 High Plains physiographic subdivision, described by Nicholson & Clebsch as an area that "is a flat, gently sloping plain, treeless, and marred only by slight undulations and covered with short prairie grass."

### 2.2 Ecological Description

The site is located in the High Plains. 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 Groundwater

The unconfined groundwater aquifer at this site is projected to be -54-ft bgs based on water depth data obtained from the New Mexico State Engineers Office data base (reference *Table 2*). Groundwater 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 (reference Figure 2).

### 2.5 Area Surface Water Features

No surface water bodies exist within 1,000 horizontal feet of the site (reference Figure 2).

### 3.0 NMOCD Site Ranking

Contaminant delineation and remedial work done at this site indicate 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:

- 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 were determined based on the NMOCD Ranking Criteria as follows:

- Depth to Groundwater (i.e., distance from the lower most acceptable concentration to the groundwater);
- 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 20 points with the soil remedial goals highlighted in the Site Ranking table presented below:

1. Gro	undwater	2. Wellhead	d Protection Area	3. Distance to Surface Water		
Depth to GW	/ <50 feet: 20 bints		n water source, or; /ate domestic water	<200 horizontal feet: 20 points		
Depth to GW 50 to 99 feet: 10 points			e: 20 points	200-1,000 horizontal feet: 10 points		
•	iW >100 feet: points	>200' from priv	n water source, or; vate domestic water ve: <i>0 points</i>	>1,000 horizontal f <del>ee</del> t: <i>0 points</i>		
		Site Rank (1+2+3	(3) = 20 + 0 + 0 = 20  p	points		
	Total Site Rank	king Score and A	cceptable Remedial	Goal Concentrations		
Parameter	20 c	pr >	10	0		
Benzene'	Benzene' 10 ppm		10 ppm	10 ppm		
BTEX	50 p	pm	50 ppm	50 ppm		
ТРН	100	ppm	1,000 ppm	5,000 ppm		

<sup>1</sup> 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

On September 21, 2004, test trenches were excavated north, south, east and west of the point-ofrelease (POR) to determine extents of NGL impacts. The excavation extents of the test trenches from the POR were 35-feet to the north, 58-feet to the south, 67-feet to the east and 45-feet to the west (reference *Figure 4*). 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 and for chloride concentrations utilizing La Motte Chloride Test Kit. Field analytical results indicated that vertical extents of NGL impacts at the POR were to 20feet below ground surface (bgs).

Excavation activities began after the vertical and lateral extents of hydrocarbon-impacted soil had been delineated. Remedial activities consisted of excavating NGL impacted soil, transporting a portion of the impacted soil to a land treatment facility and blending the remaining portion to below NMOCD remedial thresholds. To confirm removal of hydrocarbon-impacted soil, soil samples were collected from the north and south excavation walls and the excavation floor on September 23 and 24 and October 5, 2004. Samples were collected from the northern wall at the northwest, northeast, and two depths in the center and from the southern wall at the southwest, southeast and two depths in the center (reference *Figure 5*). The excavation floor was sampled on the northern and southern ends and the excavation center. A portion of each sample was placed in a jar, set on ice for transport and submitted to an independent laboratory for analyses of TPH, BTEX constituents, chloride and sulfates. The remaining portion of each sample was analyzed in the field for organic vapor concentrations utilizing an UltraRae PID equipped with a 9.8 eV lamp and chloride utilizing La Motte Chloride Test Kit. Organic vapor concentrations ranged from 0.0 to 15.2 ppm, with an average of 3.9 ppm. Chloride concentrations ranged from 100 to 160 mg/Kg (reference *Table 1* and *Figure 5*).

Analytical results for samples collected from the north wall indicated BTEX constituent concentrations were non-detectable (ND) at or above laboratory method detection limits (MDL). TPH concentrations ranged from non-detectable to 13.0 mg/Kg, chloride concentrations ranged from 48 to 64 mg/Kg and sulfate ranged from <1 to 124 mg/Kg. All hydrocarbon concentrations

from the north wall samples were below NMOCD remedial thresholds (reference *Table 1* and *Figure 5*).

Laboratory results for samples from the south wall indicated BTEX concentrations ranged from ND at or above laboratory MDL to 0.063 mg/Kg. TPH concentrations ranged from ND to 15.4 mg/Kg, chloride concentrations were 64 to 304 mg/Kg, and sulfate concentrations were <1 to 25 mg/Kg. All hydrocarbon concentrations from the south wall samples were below NMOCD remedial thresholds (reference *Table 1* and *Figure 5*).

Analytical results of samples collected from the excavation floor indicated BTEX concentrations were ND at or above laboratory MDL. TPH concentrations ranged from ND to 42.4 mg/Kg, chloride concentrations ranged from 64 to 112 mg/Kg and sulfate concentrations were <1 to 158 mg/Kg. All hydrocarbon concentrations from the excavation floor were below NMOCD remedial thresholds (reference *Table 1* and *Figure 5*).

Soil samples were collected from the stockpiled, NGL impacted soil after blending with clean soil. Samples were collected on October 7, 2004 from the northeast, northwest, southeast and southwest portions of the blended stockpile. Analytical results indicated BTEX and TPH concentrations were non-detectable at or above laboratory MDL. Chloride concentrations ranged from 80 to 320 mg/Kg and sulfate concentrations ranged from 111 to 137 mg/Kg. All hydrocarbon concentrations were below NMOCD remedial thresholds (reference *Table 1*).

On October 12, 2004, composite soil samples were collected from the northeast and southeast portion of the blending stockpiles after further blending with clean soil. A portion of each sample was submitted to an independent laboratory for quantification of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 368 to 480 mg/Kg (reference *Table 1*).

Composite soil samples were collected on October 14 from the northeast portion of the blending stockpile after further blending and submitted for laboratory quantification of chloride concentrations. Laboratory analytical results indicated chloride concentrations were 336 mg/Kg (reference *Table 1*).

On October 15, 2005, composite samples were collected from the northeast portion of the blending stockpile after further blending and submitted for laboratory quantification of chloride concentrations. Laboratory analytical results indicated chloride concentrations were 128 mg/Kg (reference *Table 1*).

### 5.0 Groundwater Investigation

The projected depth to ground water at this site is  $\approx$ 54-ft bgs. Excavation of the site was to a maximum depth of 20-feet bgs. Final field analyses for soil samples collected from the sidewalls and the excavation floor indicated organic vapor concentrations ranged from 0.0 to 15.2 ppm. In addition, laboratory analytical results for samples collected from the sidewalls and base of the excavation indicated hydrocarbon concentrations were below NMOCD remedial thresholds (reference *Table 1*).

Approximately 1,000 yd<sup>3</sup> of hydrocarbon-impacted soil were excavated with 324 yd<sup>3</sup> transported to the South Monument Land Farm for treatment. The remaining hydrocarbon-impacted soil was blended with clean soil obtained from Mr. Giles Lee and the pipeline right-of-way to below NMOCD remedial thresholds and returned to the excavation. Based on the treatment of impacted soil to below NMOCD remedial threshold and adequate depth to groundwater (>30-feet bgs), there is no need for further groundwater investigation at this site.

### 6.0 Remediation Process

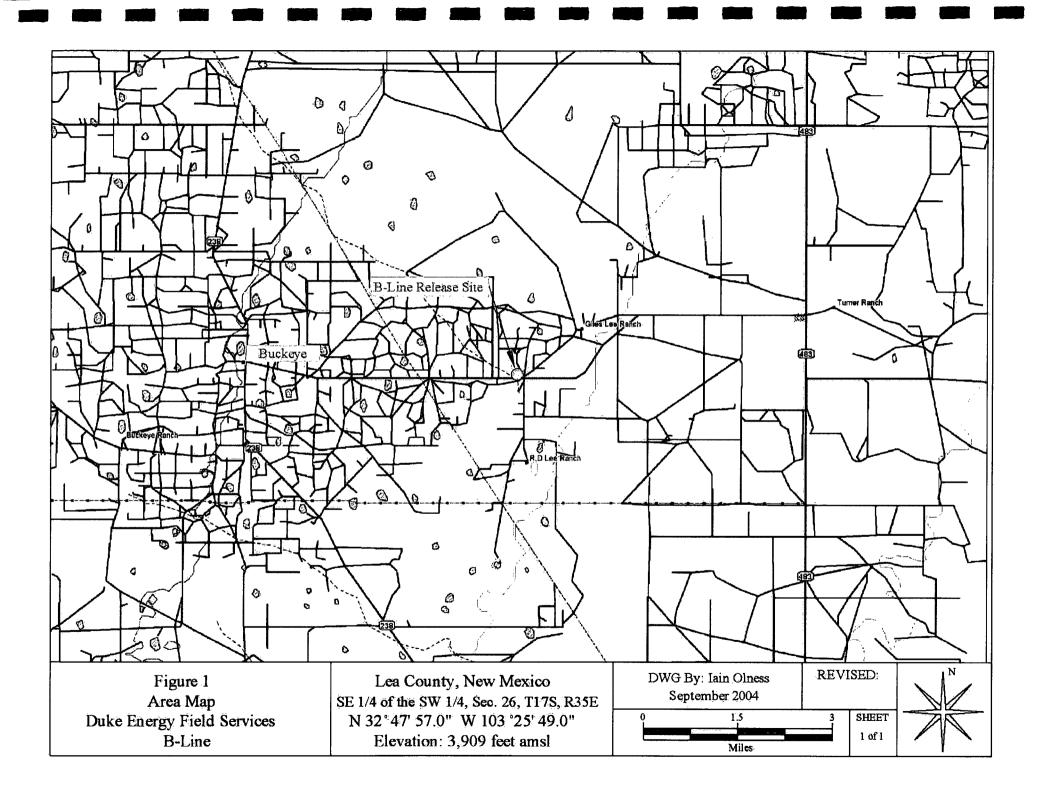
Remediation of the site commenced on September 20, 2004 and continued through October 18, 2004. Remedial activities at the site consisted of the excavation of approximately 1,000 yd<sup>3</sup> of NGL contaminated soil, of which 324 yd<sup>3</sup> were transported to the South Monument Land Farm for treatment. The remaining excavated soil was blended to achieve NMOCD remedial thresholds with clean soil purchased from Mr. Giles Lee and soil obtained from the pipeline right-of-way. After laboratory analyses of the excavation sidewall and floor samples and blended soil 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*).

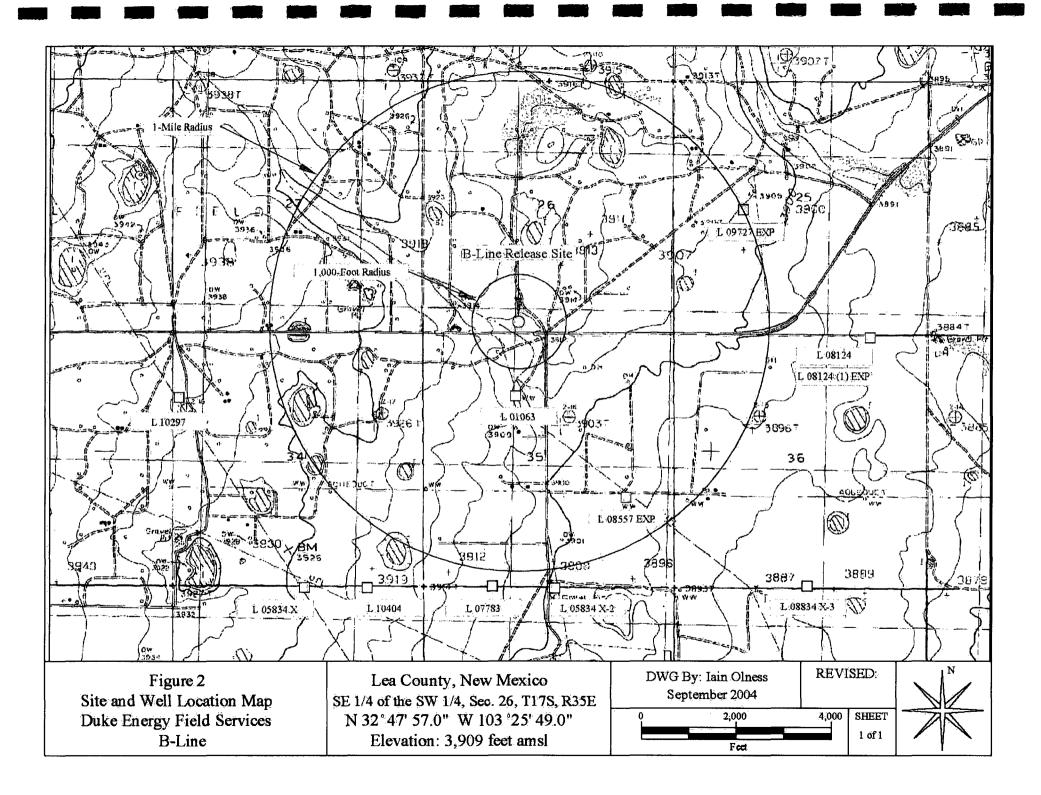
## 7.0 Closure Justification

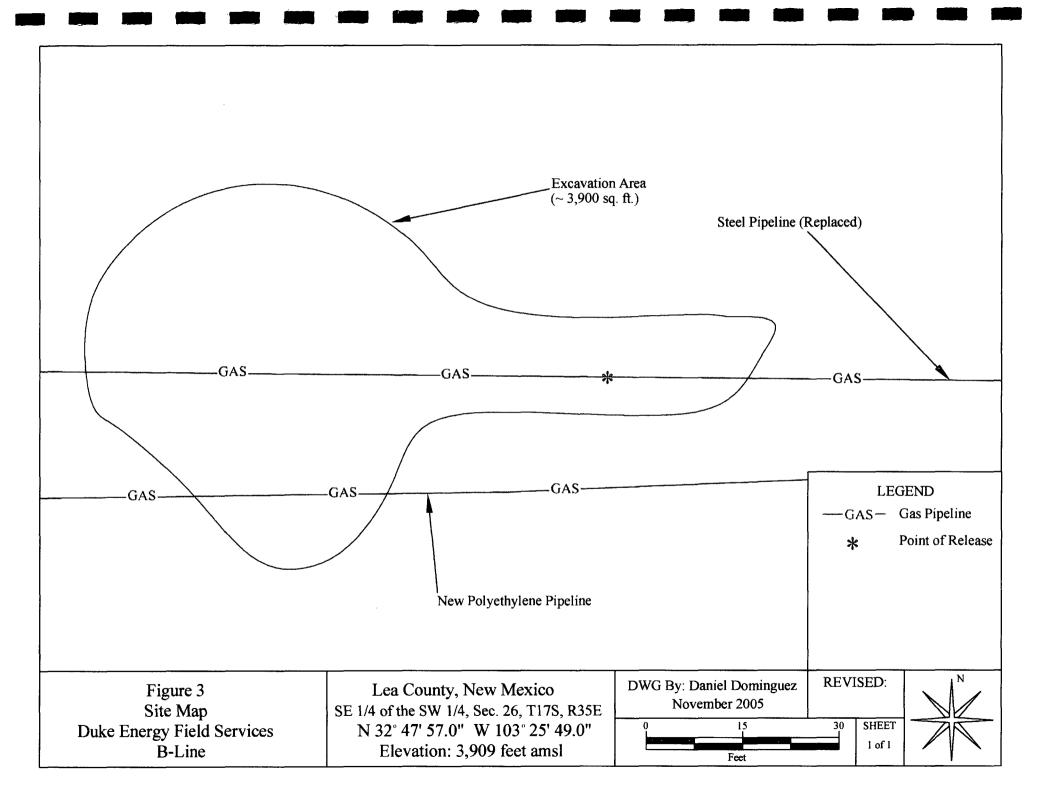
This report documents successful treatment of impacted soil above the NMOCD remedial thresholds discussed in Section 3.0 above and confirmed via laboratory analyses for this release site. The hydrocarbon-impacted soil was excavated with a portion transported to the South Monument Land Farm for treatment and the remainder blended with clean soil to achieve NMOCD remedial thresholds. Final remedial activities consisted of backfilling the excavation with blended soil, and contouring/grading to allow for 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 and issue a *Site Closure Letter*.

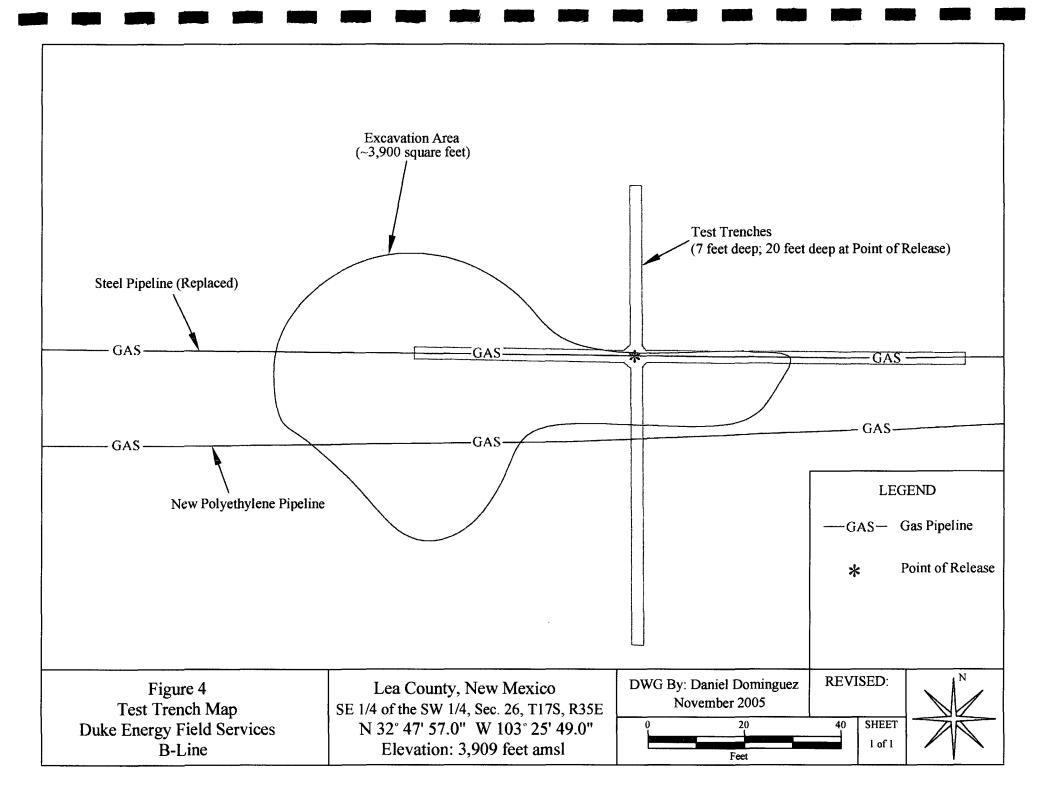
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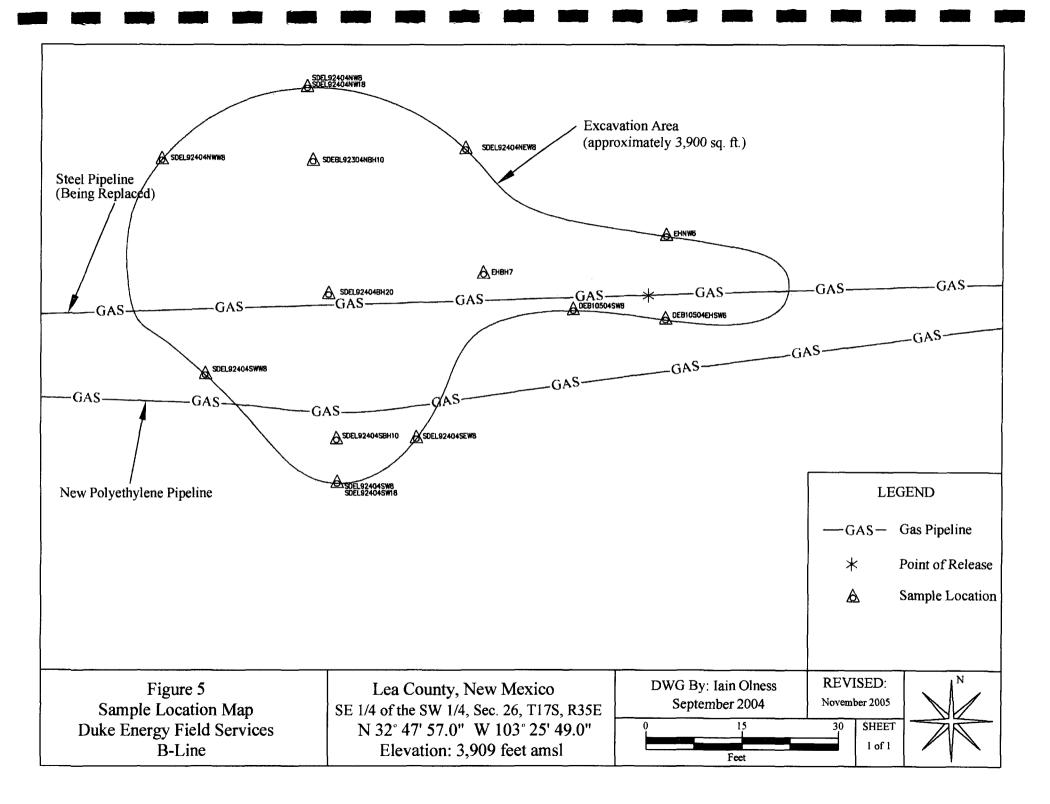
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# TABLES

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#### TABLE 1

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#### Summary of Excavation Soil Field Analyses and Laboratory Analytical Results

Field трн трн PID Reading Total Xylenes Total BTEX Total TPH Depth Benzene Toluene Ethylbenzene Sample Date Soil Status Chloride (as gasoline) (as diesel) Soil Sample ID (mg/Kg) (mg/Kg) (mg/Kg) (feet) (mg/Kg) (mg/Kg) (mg/Kg) (ppm) (mg/Kg) (mg/Kg) (ppm)

#### Duke Energy Field Services B-Line (Ref. #130013)

Chloride

(mg/Kg)

Sulfate

(mg/Kg)

	1														
SDEBL92304NBH10	10	23-Sep-04	In Situ	NA	NA	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	42.4	42.4	112	97
EHNW6	6	24-Sep-04	In Situ	0.8	NA	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	64	158
EHBH7	7	24-Sep-04	In Situ	8.1	NA	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	64	158
SDEL92404NWW8	8	24-Sep-04	In Situ	0.8	160	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	13.0	13.0	64	106
SDEL92404NW8	8	24-Sep-()4	In Situ	0.0	100	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	11.8	11.8	64	<1
SDEL92404NW18	18	24-Sep-04	In Situ	0.3	120	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	11.6	11.6	64	124
SDEL92404NEW8	8	24-Sep-04	In Situ	1.7	160	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	12.6	12.6	48	· <1
SDEL92404BH20	20	24-Sep-04	In Situ	0.4	160	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	64	<1
SDEL92404SWW8	8	24-Sep-04	In Situ	1.6	100	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	64	2.08
SDEL92404SW8	8	24-Sep-04	In Situ	9.9	160	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	304	1.64
SDEL92404SW18	18	24-Sep-04	In Situ	0.0	160	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	48	10.8
SDEL92404SBH10	10	24-Sep-04	In Situ	8.9	160	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	15.4	15.4	96	<1
SDEL92404SEW8	8	24-Sep-04	In Situ	15.2	160	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	112	<1
DEBL10504EHSW6	6	05-Oct-04	In Situ	NA	NA	<0.005	0.033	<0.005	0.030	0.063	<10.0	<10.0	<20.0	96	25
DEBL10504SW8	8	05-Oct-04	In Situ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	NA
NWBC	Comp	07-Oct-04	Blended	NA	NA	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	160	123

#### TABLE 1

#### Summary of Excavation Soil Field Analyses and Laboratory Analytical Results

Soil Sample ID	Depth (feet)	Sample Date	Soil Status	PID Reading (ppm)	Fleid Chioride (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)
SWBC	Сотр	07-Oct-04	Blended	NA	NA	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	80	111
NEBC	Comp	07-Oct-04	Blended	NA	NA	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	320	180
SEBC	Comp	07-Oct-04	Blended	NA	NA	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	368	137
NEBC	Comp	12-Oct-04	Blended	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	480	NA
SEBC	Comp	12-Oct-04	Blended	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	112	NA
NEBC	Comp	14-Oct-04	Blended	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	336	NA
NEBC	Comp	15-Oct-04	Blended	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	128	NA
NMOCD Reme	dial Three	sholds		100		10				50			100	250 <sup>3</sup>	650 <sup>3</sup>

Duke Energy Field Services B-Line (Ref. #130013)

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

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

\* Chloride and sulfate residuals may not be capable of impacting local groundwater above the New Mexico Water Quality Control Commission standards of 250 mg/L, respectively.

#### WELL / SURFACE DATA REPORT - 09/20/04\*

#### Duke Energy Field Services B Line - (Ref. #130013)

DB	File Nbr	Use	Diversion <sup>A</sup>	Owner	Well Number	Source	Twsp	Rng	Sec q q q	Latitude	Longitude	Start Date	Finish Date	Depth of Well (ft bgs)	Depth to Water (ft bgs)
L	04881	PRO	0	Noble Drilling Corp.	L 04881 APPRO	Shallow	17S	35E	26 4 1	N 32º 48' 7.4"	W 103º 25' 39.96"	22-Apr-62	24-Apr-62	137	50
L	04881(1)	PRO	0	Phillips Petroleum Company	L 04881 (1)		175	35E	26 1	N 32º 48' 20.63"	W 103º 26' 10.92"				[
L	04951	PRO	0	Noble Drilling Corp.	L 04951	Shallow	175	35E	26 222	N 32º 48' 33.57"	W 103° 25' 24.62"	15-Aug-62	16-Aug-62	137	50
L	01694	PRO	3	Giles Lee	L 01694	Shallow	175	35E	22 224		W 103º 26' 26.47"	15-Dec-52	17-Dec-52	105	48
L	01694(1)	PRO	0	Sun Oil Company	L 01694 (1)		175	35E	22 2 2 4	N 32° 49' 13.04"	W 103° 26' 26.47"				
L	10062	PRO	0	Mobil Production, TX & NM	L 10062	Shallow	175	35E	22 4 2	N 32º 48' 59.96"	W 103° 26' 26.46"	2-Fcb-89	2-Feb-89	142	50
L	03742	PRO	3	Zapata Drilling Co.	L 03742		175	35E	23 4 3	N 32º 48' 46.72"	W 103° 25' 39.95"	1			
L	05381	PRO	0	Hissom Drilling Company	L 05381	Shallow	175	35E	23 333	N 32º 48' 46.83"	W 103° 26' 10.94"	11-May-64	12-May-64	95	45
L	05381(1)	PRO	0	Hissom Drilling Company	L 05381 (1) EXP		17S	35E	23 333	N 32º 48' 46.83"	W 103° 26' 10.94"				
L	09901	STK	0	Giles M. Lee	L 09901 EXP		178	35E	23 34	N 32° 48' 46.77"	W 103° 25' 55.44"				
L	04503	PRO	3	Tri Service Drilling Co.	L 04503	Shallow	175	35E	24 2	N 32º 49' 12.51"	W 103° 24' 37.95"	8-Sep-60	10-Sep-60	90	43
					L 04503 APPRO	Shallow	17S	35E	24 2	N 32° 49' 12.51"	W 103° 24' 37.95"	8-Sep-60	10-Sep-60	90	43
L	10121	PRO	0	Giles M. Lee	L 10121		178	35E	24 132	N 32º 48' 59.44"	W 103° 24' 38.01"				
					L 10121 EXP		17S	35E	24 314	N 32° 48' 59.7"	W 103° 25' 9.28"				
L	10121(1)	STK	0	Oryx Energy Company	L 10121 (1) EXP		175	35E	24 314	N 32º 48' 59.7"	W 103° 25' 9.28"				
L	04875	PRO	0	A. W. Thompson, Inc.	L 04875	Shallow	178	35E	25 211		W 103° 24' 38.04"	12-Apr-62	12-Apr-62	130	71
L	06723	DOM	0	Giles M. Lee	L 06723 EXP		175	35E	25 1 4 2		W 103° 24' 53.61"				
L	08124	SIK	0	Hondo Drilling Company	L 08124	Shallow	178	35E	25 444	N 32º 47*53'82"	W 103º 24' 22.4"	2-Aug-79	3-Aug-79	*125	58
L		an den minsterne in de	and the second starts		L 08124 EXP	A	175	35E	25 4 4	N 32° 47' 53.82"	the state of the s		A		
L.	08124 (1)	STK	0	BTA Oil Producers	L 08124 (1) EXP		17S	-35E	25 444		W.103°24'22.4"				
L	08124 (2)	PRO	0	Pioneer Production Corp.	L 08124 (2) EXP	AND A CHEVE	175	35E	25 4 4 4		W 103° 24' 22.4"			and the second second	<u>, and an and the set of the set </u>
L	08124 (3)	PRO	0	BTA Oil Producers	L 08124 (3) EXP		178	35E	25 4 4 4	N 32° 47' 53.82"	W 103° 24' 22.4"				
Ē	09727	DOM O	0	Giles M. Lee	- L 09727 EXP	the state of the	17S-	35E	25 14.2		W103°24'53.61"			6. L D	178 4 0
L	04859	PRO	3	Noble Drilling Corp.	L 04859	Shallow	175	35E	27 4 4 4	and the state of the second statement	W 103° 26' 26.41"	4-Apr-62	4-Apr-62	145	85
Ľ	05207	PRO	0	Parker Drilling Company	L 05207	Shallow	175	35E	27	the second	W 103° 27' 12.93"	20-Jul-63	21-Jul-63	140	60
Ľ	10593	PRO	0	Henry Petroleum Company	L 10593	Older	175	35E	27 324		W 103° 27' 12.97"				
L	04618	PRO	3	A. W. Thompson, Inc.	L 04618	Shallow	175	35E	34 3 3		W 103° 27' 12.97"	31-Mar-61	31-Mar-61	128	55
		1110			L 04618 APPRO	Shallow	175	35E	34 3 3		W 103° 27' 12.97"	31-Mar-61	31-Mar-61	128	55
L	04727	PRO	3	Noble Drilling Corp.	L 04727	Shallow	17S	35E	34		W 103° 27' 12.97"	4-Oct-61	5-Oct-61	120	45
		110		Hooly Draining Corp.	L 04727 APPRO	Shallow	175	35E	34		W 103° 27' 12.97"	4-Oct-61	5-Oct-61	120	45
L	04775	PRO	3	Dale Mount Drilling Company	L 04775	Shallow	175	35E	34 14		W 103° 26' 57.43"	10-Dec-61	11-Dec-61	133	33
				2 and 11 count of the good party	L 04775 APPRO	Shallow	175	35E	34 1 4		W 103° 26' 57.43"	10-Dec-61	11-Dec-61	133	68
L	04793	PRO	3	Phillips Petroleum Co.	L 04793	Shallow	175	35E	34		W 103° 27' 12.97"	29-Jan-62	30-Jan-62	150	50
					L 04793 APPRO	Shallow	175	35E	34		W 103° 27' 12.97"	29-Jan-62	30-Jan-62	150	50
L	04793 (2)	PRO	0	Phillips Petroleum Co.	L 04793 (2)	Ginnett	175	35E	34		W 103° 27' 12.97"				
L	04793 (3)	PRO	0	Phillips Petroleum Co.	L 04793 (3)		175	35E	34 2 2		W 103º 26' 26.39"				
Ē	05834	IND	1150	Southwestern Public Service			175	35E	34.4		W 103: 26' 41.89"			а. С	1.241.3
L	07784	IND	0	Southwestern Public Service	L 07784	2000 - 1 To Long - 100	178	35E	34 4 3		A LOCAL CONTRACTOR	<u> </u>		225	<u> </u>
<u>.</u>	10297	SAN		Lasco Construction	L-10297	Shallow	17Š	35E		N 32º 47' 41.5"	W-103° 27' 12:94"	20-Fcb-92	20-Feb-92	150	42
<u> </u>	10404	STK	3 7	Lee Caftle Company LTD	L 10404	Shallow	175	3SE	34, 4.4.2		W 103* 26 26 35*	21-Jul-94	24-Jul-94	.115	115
Ľ	01063	DOM	3	H. Simpson	L 01063	Contrained of	175	35E	35 1.2.4		W 103º 25' 55:41"				
L	04632	PRO	0	Shoenfield Hunter & Kitch Drlg	L 04632 APPRO	Shallow	17S	35E	35 3 3		W 103° 26' 10.81"	21-Apr-61	23-Apr-61	130	40
<u> </u>	04632(1)	PRO	0	Phillips Petroleum Company	L 04632 (1) APPRO	54444011	175	35E	35 23		W 103° 25' 39.91"				
<u> </u>	04632 (1)	PRO	0	Phillips Petroleum Company	L 04632 (2)		175	35E	35 2 3		W 103° 25' 39.91"	I			
L	04632 (2)	PRO	0	Phillips Petroleum Company	L 04632 (3)		175	35E	35 2 3		W 103° 25' 39.91"				
ाः व	05834		1050	Southwestern Public Service	L 05834 X-2	ತ್ರಿಕ್ಷ ಕೆ. ಟ್ ಪ್ರಾಮ್ ಕೆ.	175	35E	35-4		W-103° 25' 39.86"	ngini ya takin a katini Ngini ya takini			بر ۳۰ میلاد . بر ۳۰ میلاد .
••• <b>`L</b>	05854	IND	350	Southwestern Public Service	L 07783	6	17S	35E	35 34		W-103°25'55:33"	Same ( Child and a started	al I and some the	- 225	1.16
- <b>- 1</b>	01103	in a HNL ine i	5	- obuutwestern rubbe bervice	5 L V 14/00		1,0		100 27	No. 200, 494, 155,0	10 100 100 100 100 100 100 100 100 100	a. a. 14		Sec. 3	

#### TABLE 2

#### WELL / SURFACE DATA REPORT - 09/20/04\*

#### Duke Energy Field Services B Line - (Ref. #130013)

DB	File Nbr	Use	Diversion <sup>A</sup>	Owner	Well Number	Source	Twsp	Rng	Sec q q q	Latitude	Longitude	Start Date	Finish Date	Depth of Well (ft bgs)	Depth to Water (ft bgs)
Ë.	08557	STK	0	R.D.Lee	L 08557 EXP		17 <b>S</b>	35E	35 421	N 32º 47/ 14.91"	W 103° 25' 24:41"				
L	08557(1)	PRO	0	Amoco Producing	L 08557 (1) EXP		178	35E	35 4 2 1	N 32º 47' 14.91"	W 103° 25' 24.41"				
L	8557 (2)	PRO	0	BTA Oil Producers	L 08557 (2) EXP		175	35E	35 4 2 1	N 32° 47' 14.91"	W 103° 25' 24.41"				
L	8557 (3)	PRO	0	BTA Oil Producers	L 08557 (3)		178	35E	35 4 2 1	N 32° 47' 14.91"	W 103° 25' 24.41"				
L	8557 (4)	PRO	0	Landis Drilling Company	L 08557 (4)		175	35E	35 4 2 1	N 32º 47' 14.91"	W 103° 25' 24.41"				
L	8557 (5)	PRO	0	Yates Petroleum	L 08557 (5) EXP		178	35E	35 4 2 1	N 32° 47' 14.91"	W 103° 25' 24.41"				
L	04553	PRO	3	Amerada Petroleum Corp.	L 04553	Shallow	17S	35E	36 3 1 1	N 32° 47' 14.84"	W 103° 25' 8.94"	21-Nov-60	22-Nov-60	110	60
					L 04553 APPRO	Shallow	175	35E	36 311	N 32° 47' 14.84"	W 103° 25' 8,94"	21-Nov-60	22-Nov-60	110	60
L	04603	PRO	3	Curley Oates Drilling Co.	1. 04603	Shallow	17S	35E	36 1 3	N 32° 47' 27.94"	W 103° 25' 8.97"	23-Feb-61	23-Feb-61	120	40
					L 04603 APPRO	Shallow	178	35E	36 1 3	N 32° 47' 27.94"	W 103° 25' 8.97"	23-Feb-61	23-Feb-61	120	40
L	04710	PRO	3	Noble Drilling Corp.	L 04710	Shallow	178	35E	36	N 32° 47' 1.74"	W 103° 25' 8.91"	28-Aug-61	30-Aug-61	121	50
					L 04710 APPRO EXP		17S	35E	36	N 32º 47' 1.74"	W 103° 25' 8.91"				
Г	05834	nnd 🤅	1150	Southwestern Public Service	L 05834 X-3	gan ng Signi Nasi ng	1 <b>7S</b>	35E	36 4	N 329 47 1.54"	W 103° 24' 37.92"	18 . C . L		a vera	

\* = Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state.nm.us:7001/iWATERS/wr\_RegisServlet1)

Shaded well information indicates well location shown on Figure 2

A = in acre feet per annum

IND = Industrial

STK = Livestock Watering

PRO = Prospecting or Development of Natural Resources

DOM = Domestic One Household

SAN = Sanitary in Conjunction with a Industrial Use

(quarters are 1=NW, 2=NE, 3=SW, 4=SE)

(quarters are biggest to smallest - X Y are in Feet - UTM are in Meters)

### **APPENDIX I**

# LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS



PHONE (915) 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: 09/23/04 Reporting Date: 09/29/04 Project Owner: DUKE ENERGY FIELD SERVICES Project Name: B-LINE Project Location: NOT GIVEN

Sampling Date: 09/23/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: GP Analyzed By: BC

LAB NO. SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:	9/28/04	9/28/04	09/23/04	09/23/04	09/23/04	09/23/04
H9180-1 SDEBL92304NBH10	<10.0	42.4	<0.005	<0.005	<0.005	<0.015
Quality Control	732	754	0.090	0.093	0.097	0.296
True Value QC	800	800	0.100	0.100	0.100	0.300
% Recovery	91.5	94.2	90.2	92.3	96.5	98.6
Relative Percent Difference	0.0	0.4	4.7	2.4	3.0	4.1

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

Burgess J. Al Cooker Ph. D.

7/29/04 Date

H9180A.XLS

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PHONE (915) 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: 09/23/04 Reporting Date: 09/24/04 Project Owner: DUKE ENERGY FIELD SERVICES Project Name: B-LINE Project Location: NOT GIVEN Sampling Date: 09/23/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: GP Analyzed By: AH

LAB NUMBER SAMPLE ID	SO₄ (mg/Kg)	Cl ( mg/Kg )
ANALYSIS DATE:	09/24/04	09/24/04
H9180-1 SDEBL92304NBH10	97	112
Quality Control	50.98	970
True Value QC	50.00	1000
% Recovery	102	97.0
Relative Percent Difference	1.2	6.2
METHODS: EPA 600/4-79-020	375.4	325.3

lemist

PLEASE NOTE: Liability and Dameges. 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. H9180

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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+ Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

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PHONE (915) 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: 09/23/04 Reporting Date: 09/30/04 Project Owner: DUKE ENERGY FIELD SERVICES Project Name: B-LINE Project Location: NOT GIVEN

Sampling Date: 09/24/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: GP 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:	9/28/04	9/28/04	09/29/04	09/29/04	09/29/04	09/29/04
H9185-1	SDEBL92404NWW8	<10.0	13.0	< 0.005	<0.005	< 0.005	< 0.015
H9185-2	SDEBL92404NW8	<10.0	11.8	< 0.005	<0.005	<0.005	< 0.015
H9185-3	SDEBL92404NEW8	<10.0	12.6	<0.005	<0.005	<0.005	<0.015
H9185-4	SDEBL92404NW18	<10.0	11.6	< 0.005	<0.005	< 0.005	<0.015
H9185-5	SDEBL92404SW18	<10.0	<10.0	<0.005	<0.005	< 0.005	<0.015
H9185-6	SDEBL92404BH20	<10.0	<10.0	<0.005	<0.005	<0.005	< 0.015
H9185-7	SDEBL92404SWW8	<10.0	<10.0	< 0.005	< 0.005	<0.005	< 0.015
H9185-8	SDEBL92404SW8	<10.0	<10.0	< 0.005	<0.005	<0.005	<0.015
H9185-9	SDEBL92404SBH10	<10.0	15.4	< 0.005	<0.005	< 0.005	<0.015
H9185-10	SDEBL92404SEW8	<10.0	<10.0	< 0.005	<0.005	<0.005	<0.015
Quality Co	ntrol	732	754	0.091	0.092	0.099	0.305
True Value	QC	800	800	0.100	0.100	0.100	0.300
% Recover	ĵy	91.5	94.2	90.8	91.9	99.4	102.0
Relative Pe	ercent Difference	0.0	0.4	6.8	5.2	4.3	3.5

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

9/30/04

Date

H9185A.XLS

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 thinty (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.



PHONE (915) 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: 09/24/04 Reporting Date: 09/30/04 Project Owner: DUKE ENERGY FIELD SERVICES Project Name: B-LINE Project Location: NOT GIVEN

Sampling Date: 09/24/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: GP Analyzed By: AH

		SO₄	Cl
LAB NUMBER	SAMPLE ID	( mg/Kg )	( mg/Kg )
ANALYSIS DAT	Г <b>Е</b> :	09/27/04	09/27/04
H9185-1	SDEBL92404NWW8	106	64
H9185-2	SDEBL92404NW8	<1	64
H9185-3	SDEBL92404NEW8	<1	48
H9185-4	SDEBL92404NW18	124	64
H9185-5	SDEBL92404SW18	10.8	48
H9185-6	SDEBL92404BH20	<1	64
H9185-7	SDEBL92404SWW8	2.08	64
H9185-8	SDEBL92404SW8	1.64	304
H9185-9	SDEBL92404BH10	<1	96
H9185-10	SDEBL92404SEW8	<1	112
Quality Control		50.98	1020
True Value QC		50.00	1000
% Recovery		102	102
<b>Relative Percer</b>	t Difference	1.2	4.9

METHODS: EPA 600/4-79-020	375.4	325.3
Note: Analyses performed on 1:4 w/v an	leous extracts	

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Chemist

PLEASE NOTE: Liability and Dameges. 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.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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PLEASE NOTE: Liability and Damages. Cardinal's lability and clerit's exclusive remetry for any biain anising whether bear analyses. All callins including those for negligience and any other cause whatsoever shall be deemed waived unless made acritice. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business i atilitates or successors anishing out of or related to the performance of services hereunder by Cardinal, jegardess of whether atilitates or successors anishing out of or related to the performance of services hereunder by Cardinal, jegardess of whether atilitates or successors anishing out of or related to the performance of services hereunder by Cardinal, jegardess of whether							made h Ness in	in Writi terrup	ing and tions,	d néce Jõss c	ived b rf use,	y Cardin of loss (	ai within of profits	e amount paid by 30 days after co s incurred by clien	mpletion o st, its subsi	f the i Idiarië	applicat 15.			30	daye paist	due at th		4% per ar	unum from l	l accounts r he original d	nore than ate of invoic		
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† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

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PHONE (915) 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: 09/23/04 Reporting Date: 09/30/04 Project Owner: DUKE ENERGY FIELD SERVICES Project Name: NOT GIVEN Project Location: B-LINE

Sampling Date: 09/24/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: GP 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:	9/28/04	9/28/04	09/29/04	09/29/04	09/29/04	09/29/04
H9186-1 EHNW6	<10.0	<10.0	< 0.005	<0.005	< 0.005	<0.015
H9186-2 EHBH7	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
Quality Control	732	754	0.091	0.092	0.099	0.305
True Value QC	800	800	0.100	0.100	0.100	0.300
% Recovery	91.5	94.2	90.8	91.9	99.4	102.0
Relative Percent Difference	0.0	0.4	6.8	5.2	4.3	3.5

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

9/80/04

Date

H9186A.XLS

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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: 09/24/04 Reporting Date: 09/30/04 Project Owner: DUKE ENERGY FIELD SERVICES Project Name: B-LINE Project Location: NOT GIVEN Sampling Date: 09/24/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: GP Analyzed By: AH

LAB NUMBER SAMPLE ID	SO₄ ( mg/Kg )	Cl ( mg/Kg )
ANALYSIS DATE:	09/27/04	09/27/04
H9186-1 EHNW6	54	48
H9186-2 EHBH7	158	64
Quality Control	50.98	1020
True Value QC	50.00	1000
% Recovery	102	102
Relative Percent Difference	1.2	4.9
METHODS: EPA 600/4-79-020	375.4	325.3

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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PHONE (915) 673-7001 @ 2111 BEECHWOOD @ ABILENE, TX 79603

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

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

Receiving Date: 10/05/04 Reporting Date: 10/08/04 Project Number: DUKE ENERGY FIELD SERVICES Project Name: NOT GIVEN Project Location: B-LINE

Sampling Date: 10/05/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH 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:	10/07/04	10/07/04	10/07/04	10/07/04	10/07/04	10/07/04
H9209-2 DEBL10504EHSW6	<10.0	<10.0	<0.005	0.033	<0.005	0.030
Quality Control	749	747	0.092	0.093	0.098	0.301
True Value QC	800	800	0.100	0.100	0.100	0.300
% Recovery	93.7	93.4	91.5	92.5	97.9	100
Relative Percent Difference	4.2	<0.1	2.4	2.5	5.6	5.3

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

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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: 10/05/04 Reporting Date: 10/06/04 Project Owner: DUKE ENERGY FIELD SERVICES Project Name: NOT GIVEN Project Location: B-LINE Sampling Date: 10/05/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: AH

		SO4	CI
LAB NUMBER	SAMPLE ID	( mg/Kg )	( mg/Kg )
ANALYSIS DA	TE:	10/06/04	10/06/04
H9209-1	DEBL10504SW8	· _	64
H9209-2	DEBL10504EHSW6	25	96
Quelit. Contro			1050
Quality Contro		50.98	1050
True Value QC	;	50.00	1000
% Recovery		102	105
Relative Perce	ent Difference	1.2	2.9
METHODS: E	PA 600/4-79-020	375.4	325.3

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

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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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+ Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

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PHONE (915) 673-7001 @ 2111 BEECHWOOD @ ABILENE, TX 79603

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

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

Receiving Date: 10/07/04 Reporting Date: 10/08/04 Project Number: DUKE ENERGY FIELD SERVICES Project Name: 130017 Project Location: B-LINE

Sampling Date: 10/07/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: BC

	GRO	DRO			ETHYL	TOTAL
LAB NUMBER SAMP	$LE ID (C_6 - C_{10})$	(>C <sub>10</sub> -C <sub>28</sub> )	BENZENE	TOLUENE	BENZENE	XYLENES
	(m <b>g/Kg</b> )	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DATE:	10/07/04	10/07/04	10/07/04	10/07/04	10/07/04	10/07/04
H9219-1 NWBC	C <10.0	<10.0	< 0.005	< 0.005	< 0.005	<0.015
H9219-2 SWBC	<b>C</b> <10.0	<10.0	< 0.005	< 0.005	< 0.005	<0.015
H9219-3 NEBC	<10.0	<10.0	< 0.005	< 0.005	< 0.005	<0.015
H9219-4 SEBC	<10.0	<10.0	<0.005	< 0.005	<0.005	<0.015
Quality Control	793	774	0.088	0.092	0.098	0.305
True Value QC	800	800	0.100	0.100	0.100	0.300
% Recovery	99.1	96.8	87.6	91.8	98.2	102
<b>Relative Percent Diffe</b>	rence 1.6	4.1	4.5	0.8	0.3	1.2

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

aghe Burgess

H9219A.XLS

TI32 I 34.ALO PLEASE NOTE: Liability and Dameges. 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: 10/07/04 Reporting Date: 10/08/04 Project Owner: DUKE ENERGY FIELD SERVICES Project Name: 130017 Project Location: B-LINE Sampling Date: 10/07/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: AH

	SO4	CI
LAB NUMBER SAMPLE ID	( mg/Kg )	(mg/Kg)
ANALYSIS DATE:	10/085/04	10/08/04
H9219-1 NWBC	123	160
H9219-2 SWBC	111	80
H9219-3 NEBC	180	320
H9219-4 SEBC	137	368
Quality Control	50.98	1050
True Value QC	50.00	1000
% Recovery	102	105
Relative Percent Difference	1.2	2.9
METHODS: EPA 600/4-79-020	375.4	SM 4500-CI

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

emist

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† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

Sample Condition Cool Intact | Yes ||Yes || No || No

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PHONE (915) 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: 10/11/04 Reporting Date: 10/12/04 Project Number: 130013 (DEFS) Project Name: B-LINE Project Location: NOT GIVEN Analysis Date: 10/12/04 Sampling Date: 10/11/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl <sup>—</sup> (mg/Kg)
H9227-1	NEBC	480
H9227-2	SEBC	112
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Quality Control		1050
True Value QC		1000
% Recovery		105
Relative Percent	Difference	2.9

METHOD: Standard Methods4500-Cl<sup>-</sup>BNote: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

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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: 10/14/04 Reporting Date: 10/15/04 Project Number: 130013 Project Name: B-LINE Project Location: NOT GIVEN Analysis Date: 10/14/04 Sampling Date: 10/14/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: GP Analyzed By: AH

CI\_

LAB NUMBER

SAMPLE ID

(mg/Kg)

H9238-1 NEBC	336
Quality Control	1050
True Value QC	1000
% Recovery	105
Relative Percent Difference	2.9

METHOD: Standard Methods4500-CIBNote: Analysis performed on a 1:4 w:v aqueous extract.

emist

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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: 10/15/04 Reporting Date: 10/15/04 Project Number: NOT GIVEN Project Name: B-LINE Project Location: NOT GIVEN Analysis Date: 10/15/04 Sampling Date: 10/15/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: GP Analyzed By: AH

CL

LAB NUMBER

SAMPLE ID

(mg/Kg)

H9241-1 NEBC	128
Quality Control	1050
True Value QC	1000
% Recovery	105
Relative Percent Difference	2.9

METHOD: Standard Methods4500-CI<sup>-</sup>BNote: Analysis performed on a 1:4 w:v aqueous extract.

emist

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Sampler - UPS - B		2.12.0000	- Co	xol Intac Yes X- No (	4				ais)				un della conce	11 al office of the second				<u></u>		<u></u>	tory POLIS		

† 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. Note that the steel Photo #2: Initial excavation activities, looking westerly. line is being replaced with a polyethylene line.



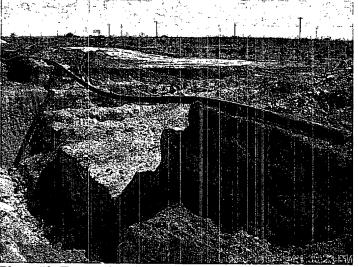


Photo #3: Excavation, looking northeasterly.

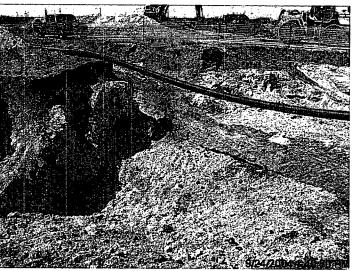


Photo #4: Excavation, looking northwesterly.

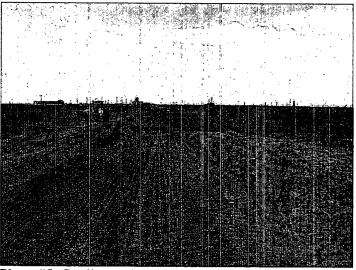


Photo #5: Grading and contouring, looking westerly.

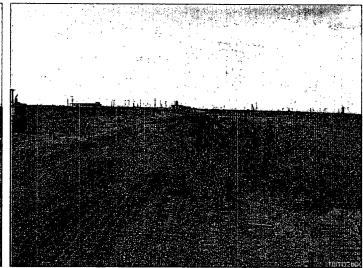


Photo #6: Site graded and contoured, looking westerly.

## **APPENDIX III**

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

					Duke Energy Field Services
Duke Energ	y Field Services Site	Incident Da	te:	NMOCD Not	ified:
	ation and Metrics	16 Septembe	x 2004	16 September	
Site: B-Line			Assigned Site	Reference #: 1	30013
	uke Energy Field Services	ŝ	- Barre Part		
Street Address			·		
and the first and and the first of the first of the second	ss: 1625 West Marland		<u></u>	· <u></u>	<u>, , , , , , , , , , , , , , , , , , , </u>
City, State, Zi		88240			
	e: Mark R. Owens				
Représentative		-5541	·		
Telephone:					
	released (bbls): 25 barre	ls	Recov	ered (bbls): 20 t	parrels
<u>i sta tradimitta a di lucita ta ta a a</u>	>25 bbls: Notify N	MOCD verbally	within 24 hrs and si	ubmit form C-141 w	rithin 15 days.
			horized releases >5		
Thele Chill on	5-25 bbls: Submit form C-141 Dit (I SD) Normal D.L.	the second s	Also applies to unat	ithorized releases of	r 50–500 mci Natural Gas)
	Pit (LSP) Name: B-Li	22.3	habler due to later	nation The	clamp installed and line replaced.
	i.e., BLM, ST, Fee, Other		many one to inten	nal corrosion. Line	ciamp instance and time replaced.
	ns: 15 feet by 20 feet	A STATE LANG			
LSP Dimensio LSP Area: ≈3					
	eference Point (RP):				
	nce and direction from F	)D.		<u></u>	
Location dista		<u>.</u>			
	103° 25' 49.000"				· · · · · · · · · ·_
	ve mean sea level: 3,909				
	th Section Line:	, 			
	it Section Line:				
	t or 1/1/4: SE1/4 of the SW	76	Unit Letter	• N	and the second
Location- Sect	the second transformer to the second to the		Clint Extern	<u>•</u> . +,•	
Location- Tow					·····
Location- Ran				<u></u>	
1.0Cation Tai	<b>50</b> 100011				
Surface water	body within 1000 ' radii	is of site: nor	18.		
	r wells within 1000' rad				Mass
[46] J. 208, A. M.	vater wells within 1000'	αα <u>μ</u> ατιμε α <u>τ</u> με τη «τ		<u> </u>	
	upply wells within 1000'				
	nd surface to ground wa			surface	
	mination (DC): $\approx 20'$		- oolo n Brounia		
	nd water (DG – DC = Dt	<b>GW</b> ): <50 fee			
	Fround Water		ellhead Protecti	on Area	3. Distance to Surface Water Body
	<50 feet: 20 points		om water source,	the second s	<200 horizontal feet: 20 points
	7 50 to 99 feet: 10 points		estic water source		200-100 horizontal feet: 10 points
			om water source,		
If Depth to GW	1>100 feet: 0 points		estic water source		>1000 horizontal feet: 0 points
Ground water	Score = 20	A	otection Area Sc		Surface Water Score= 0
Site Rank (1+2		· · · · · · · · · · · · · · · · · · ·			1
, <u>227 7. 7 7. 7 7. 7 7. 7 7. 7 7. 7 7. 7</u>		ite Ranking S	core and Accept	able Concentra	tions
Parameter	>19		10-19		0-9
Benzene	10 ppm		10 ppm		10 ppm
BTEX	50 ppm		50 ppm		50 ppm
TPH	100 ppm	······	1000 ppr		5000 ppm
1 W	VOC headspace measurer	ment may he si			
A state Library state	and the second state of the second state of the			and the grade of the second	

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1625 N. E District []	French Dr., Hobb I	s, NM 88240	Fner		lew Mexico nd Natural Res	anutres	Form C-141 Revised March 17, 1999
	Grand Avenua, A	Artostic, NM 88210	أيتحددهم				Submit 2 Copies to appropriate
1000 Rio	Emizos Reed, As	nc, NM 87410			ation Divisio		District Office in accordance
District [ 1220 S. S		nia Fc, NM 87505			St. Francis D	τ.	with Rule 116 on back side of form
		-			NM 87505		
	OPER		elease No	otification	and Corre	ctive Action	t 🔀 Final Report
Name	of Company	1101			Contact		
	Energy Field S	ervices			Lynn Ward	and the second se	
Addres					Telephone		
	na Drive, Suite	400-W, Midland,	TX 79705		(432) 620-4		
B-Line					Facility Ty 8" Steel Pig		
	~~~~~						
	e Owner f New Mexico			Mineral Ow	mer		Lense No.
viaite vi		,					
			L		OF RELEA		
Unit	Section	Township	Range	Feet from the	North/South	Feet from the East/M	
Letter N	26	T1 <b>7S</b>	RJSE				Lat. N 32° 47' 57.026" Lon. W 103° 25' 49.000"
							j Lou. W 103 23 49.000
				NATURE C	F RELEAS		
	<b>Release</b> Gas Pipelino F	L.:			Volume of Re 25 barrols	case	Volume Recovered
	of Release	nurcia				r of Occurrence	20 barrels Date and Hour of Discovery
8" steel million	pipeline operat	ing at 15-20 lbs with ay	a normal daily	flow rate of 5	16 September		16 September 2004
Was Im	amediate Notic			Not Required	If YES, To W Larry Johnson,	hem? Hobbs office of the N	IMOCD
By Who Sam Du					When?	2004 at 11:00 am	
	Watercourse R	leached? 🔲 Yes	X No			2004 at 11:00 am ne Impacting the Wat	tercourse.
If a Wa	itercourse was	Impacted, Describe	e Faily.*			····	······································
NA	· · · · · · · · · · · · · · · · · · ·						
Describ	c Cause of Pri	them and Remedia	d Action Take	B.4			······································
077	une ocean leak	ing, probably due to	internal corros	non. Linc clamp	installed and line	replaced with polyeth	
8" steel	to A man A finate	ed and Cleanup Act aminated above the l	NMOCD Remo				and approximately 676 yd' was 30
Describ ≈ 324 y	yet' of soil cont	modial Goals: TPH =	- 100 mg/Kg, b	cuzeno = 10 mg/	Kg, and BTEX =	50 mg/Kg.	
Describ ≈ 324 y remedia I horeby regulati public h should t health o	yd' of soil cont and on site, Ren y certify that that ions all operator health or the em- their operations or the environge	nedial Goals: TPH = e information given a rs are required to rep vironment. The acce have failed to adequ	above is true an ort and/or file optance of a C- untely investiga 10CD acceptor	id complete to the certain release no 141 report by the no and remediate	e best of my know tilications and pe NMOCD marked contamination th	viodgo and understand rform corrective action as "Final Report" don at pose a threat to grou	that pursuant to NMOCD rules and no for releases which may ordanger as not relievo the operator of liability and water, surface water, human ponsibility for compliance with any
Describ ≈ 324 y remedia I horeby regulati public h should t health o	yd' of soil cont and on site. Ren y certify that that ions all operator health or the em- their operations or the environment wheral, state or	nedial Goals: TPH = e information given a s are required to rep vironment. The acce have failed to adequ ent. In addition, NM beal laws and/or reg	above is true an ort and/or file optance of a C- untely investiga 10CD acceptor	id complete to the certain release no 141 report by the no and remediate	e best of my know tilications and pe NMOCD markes contamingtion th port does not reliv	viedgo and understand rform corrective action as "Final Report" don at pose a threat to grou ove the operator of res	ne for releases which may ordanger as not relievo the operator of liability and water, surface water, human
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Describ ~ 324 y remedia I horeby regulati public h should the health o other for Signatur Printed E-mail Title: 1	vd' of soil contained on site. Ren week on site. Ren week of the solution of the solution week of the solutions of the environment whereal, state or the solution of the solution whereal, state or the solution of the solution whereas a solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the sol	nodial Goals: TPH = e information given a rs are required to rep vironment. The acce have failed to adeque ent. In addition, NM beal laws artd/or reg beal laws artd/or reg beal laws artd/or reg beal laws artd/or reg	above is true ar ort and/or file optance of a C- pately investiga tOCD acceptor gulations.	id complete to the certain release no 141 report by the no and remediate	e best of my know tilications and pe NMOCD markes contamingtion th port does not relia	viedge and understand rform corrective action as "Final Report" don at pose a threat to grou ove the operator of resp DIL CONSERV by District Supervisor	ns for releases which may endanger as not relievo the operator of liability and water, surface water, human ponsibility for compliance with any <u>ATION DIVISION</u>