Clay Cooper #4 Closure Report Duke Energy Field Services Lea County, New Mexico

#### OCTOBER 12, 2001

**Prepared For:** 

Duke Energy Field Services P. O. Box 5493 Denver, CO 80217

Site Name:

CLAY COOPER #4 (CC#4)

Site Location:

# T20S, R36 E, SECTION 24, UNIT O

**Prepared By:** 

ENVIRONMENTAL

PO Box 7624 Midland, Texas 79708



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON Governor Jennifer A. Salisbury Cabinet Secretary

November 16, 2001

Lori Wrotenbery Director Oil Conservation Division

Duke Energy Field Services Attn: Stephen Weathers POB 5493 Denver, CO 80217

Re: Spill Site Closure Approval for Duke Energy Field Services, LP (DEFS) Clay Cooper sites #2, #3, #4 and #5. Site Location(s): UL-O, Sec 24-T20S-R36E (#2, #3 and #4) and UL-J, Sec 24-T20S-R36E (#5) Submitted: November 13, 2001

The Spill Sites Closure Reports referenced above and submitted to the New Mexico Oil Conservation Division (OCD) by Trident Environmental for DEFS are **hereby approved**.

Clay Cooper #6, Jimmy Cooper #3 and J-4-2 are on hold pending further examination.

Please be advised that OCD approval of this plan does not relieve DEFS of liability should their operations fail to adequately investigate and remediate contaminants that threaten ground water, surface water, human health or the environment. In addition, OCD approval does not relieve DEFS 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 write or call me at (505) 393-6161, x113 or email psheeeley@state.nm.us

Sincerely,

 Paul Sheeley-Environmental Engineer
 Cc: Roger Anderson - Environmental Bureau Chief Chris Williams - District I Supervisor
 Bill Olson - Hydrologist
 Larry Johnson - Environmental Engr.
 Mr. Gilbert J. Van Deventer - Trident Environmental October 12, 2001

Mr. Steve Weathers Duke Energy Field Services, LP P. O. Box 5493 Denver, Colorado 80217

Re: Removal of Hydrocarbon-Impacted Soils from the CC #4 site Township 20 South, Range 36 East, Section 24, Unit O



Dear Mr. Weathers:

Trident Environmental (Trident) was retained by Duke Energy Field Services, LP. (DEFS) to oversee the removal of hydrocarbon-impacted soil from an area along a pipeline right-of-way operated by DEFS near Monument, New Mexico in Lea County. The site (CC #4) is located in Section 24 (Unit O), Township 20 South, Range 36 East on property owned by Dale Cooper and managed by Clay Cooper. The location of the CC #4 site is shown on the topographic map in Attachment A. The work was conducted in accordance with the work plan submitted to the New Mexico Oil Conservation Division (OCD). Trident personnel periodically collected soil samples to characterize the extent of hydrocarbon-impact and to verify when cleanup target levels had been achieved. This letter report describes the methods and results of the excavation, sampling, waste disposition, and backfilling operations for documentation that closure requirements have been satisfied.

#### **Excavation and Sampling Procedures**

Walton Construction Company, Inc. (Hobbs, New Mexico) performed excavation. Walton Construction used one trackhoe, one dozer, one loader, and 12 yd<sup>3</sup> dump trucks for earthmoving services. An area was excavated where Mr. Cooper identified indications of hydrocarbon-impacted soils. During excavation operations, subsurface soil samples were collected and submitted to an analytical laboratory to characterize the approximate lateral and vertical extent of hydrocarbon-impacted soil in each area. Samples were collected by Trident with stainless steel trowels. Composite samples consisting of a minimum of three aliquots and grab samples were collected from the floor and walls (north, south, east, and west), as specified in the site data form in Attachment A. During the course of excavation activities, samples were also collected for headspace analysis using an organic vapor meter (OVM) which was calibrated to assume a benzene response factor. All soil sampling, headspace analysis, and laboratory analysis were performed in accordance with OCD "Guidelines for Remediation of Leaks, Spills, and Releases" (August 13, 1993). Excavation operations were completed when laboratory analysis of collected samples indicated the extent of hydrocarbon-impacted soils remaining in the excavation were below the following concentrations:

- 100 milligrams per kilogram (mg/kg) of total petroleum hydrocarbons (TPH),
- 10 mg/kg benzene,
- 50 mg/kg total benzene, toluene, ethylbenzene, and xylenes (BTEX)

Soil samples were submitted to Environmental Laboratory of Texas (Odessa, Texas) and analyzed for gas and diesel range organics (GRO and DRO) using EPA Method 8015 to determine TPH concentrations.

BTEX analyses were conducted for soil samples that exceeded OVM readings of 100 ppm or when GRO and/or DRO concentrations were above 100 mg/kg.

#### Soil Stockpiling, Waste Disposition, and Backfilling

An effort to segregate clean versus impacted soil during excavation was made. Only hydrocarbonimpacted soil that exceeded 100 mg/kg GRO/DRO, 10 mg/kg benzene, and/or 50 mg/kg total BTEX was transported to the South Monument Landfarm. These target cleanup levels are based on the ranking criteria in the OCD "Guidelines for Remediation of Leaks, Spills, and Releases". A total ranking score of greater than 19 points was assumed since groundwater is less than 50 feet below ground surface based on landowner's claims and well records from the Office of the State Engineer.

Approximately 2,328 cubic yards of hydrocarbon-impacted soils were transported by Walton Construction to cell B-5 at the South Monument Landfarm, which is owned and operated by Ms. Kena Kay Cooper (OCD Rule 711 Permit Approval NM-01-0032). Completed Request for Approval to Accept Solid Waste form (C-138), Generator Certificate of Waste Status form (C-143), and Release Notification and Corrective Action forms (C-141) are included in Attachment A.

Excavated soils below the remediation action levels and as agreed upon by Mr. Cooper were returned to the excavation after sampling and analysis verification. Also, native soil from adjacent sand dunes in the area was provided by Mr. Cooper and used as additional backfill in the excavation to restore the excavation to a level grade.

#### **Results**

At the completion of excavation activities all areas had petroleum hydrocarbon concentrations below the OCD standards listed above. Soil sample locations and site features are depicted on the site map in Attachment A. A Site Data Form that includes a summary of the analytical results and photo documentation are also provided in Attachment A. Laboratory analytical reports, and chain-of-custody documentation for the samples collected are provided in Attachment B. Copies of the field logbook are in Attachment C.

Sincerely,

At O Va lt

Gilbert J. Van Deventer, REM Project Manager

Attachments

cc: Clay Cooper, landowner - Hobbs, NM

C:DEFS\COOPER\CC4\CC4CLOSE.DOC

## ATTACHMENT A

#### **TOPOGRAPHIC MAP**

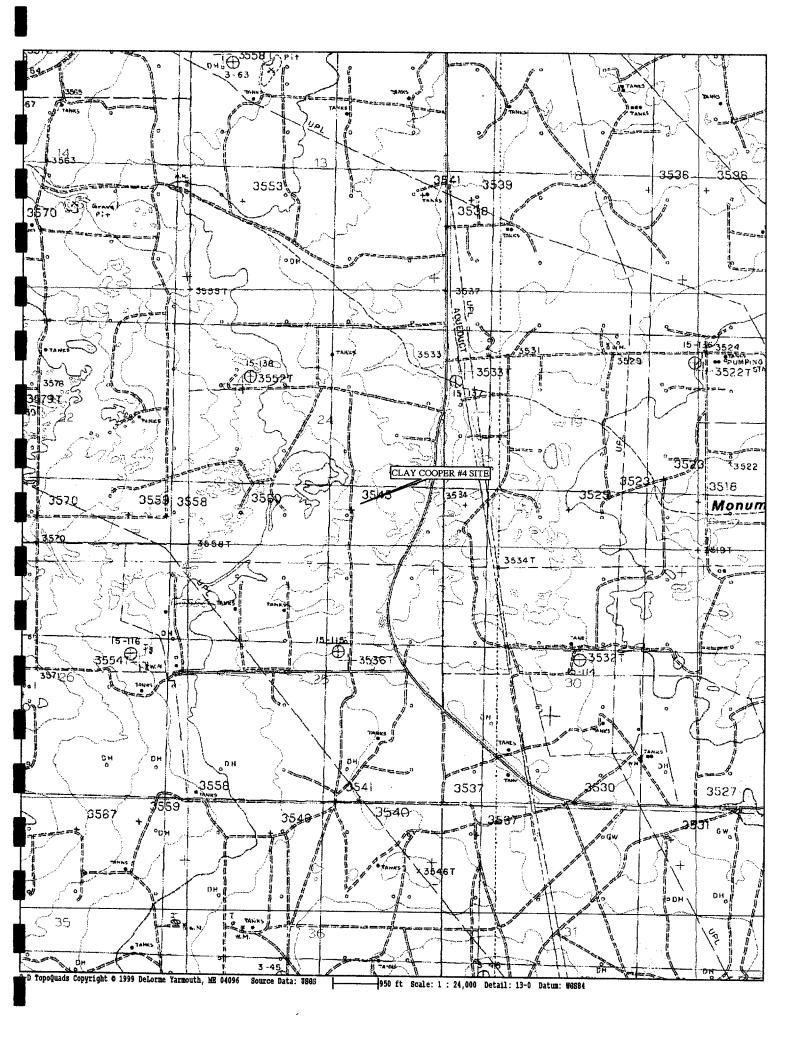
#### • SITE MAP

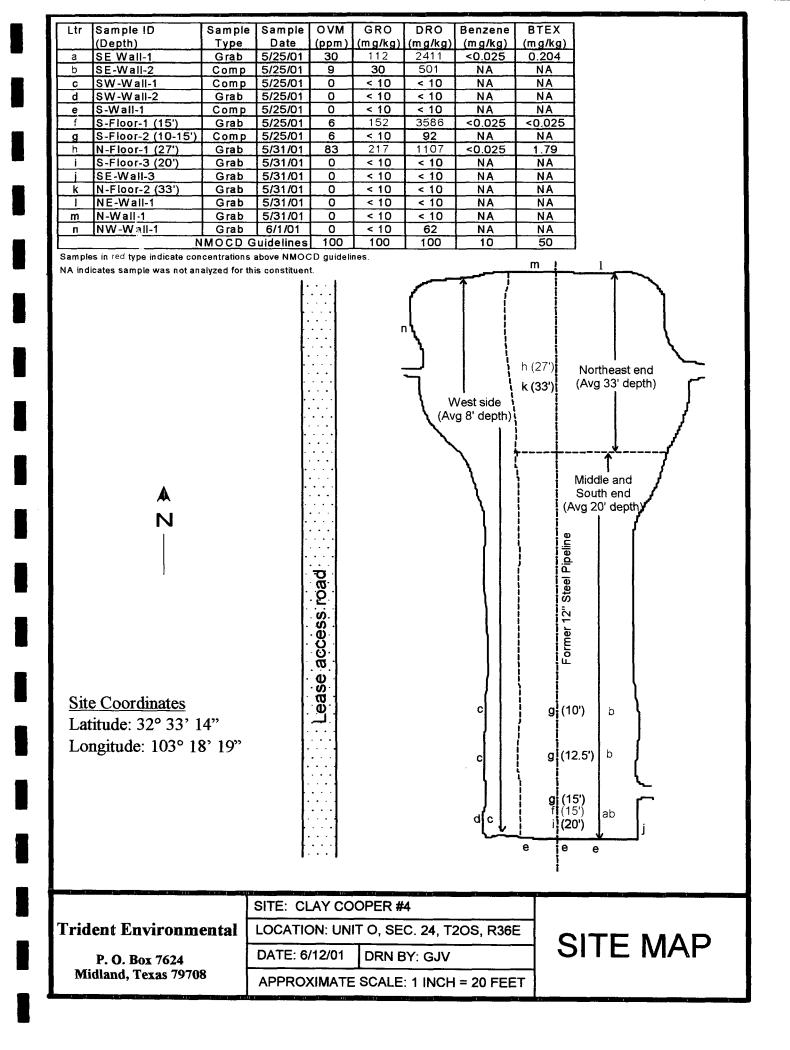
# SITE DATA FORM

## SUMMARY OF ANALYTICAL RESULTS

# C-138, C-141, AND C-143 FORMS

### **PHOTODOCUMENTATION**





	IDENT								
			S	ite Da	ta For	m			
TRW Tec	hnician: <u>JMF/GJV</u>	Excavatio	on Crew Nam	nes: Walto	on Construct	ion	Site ID: 0	Clay Cooper # 4	
	tion: Latitude <u>/32°3</u>								cico
Township     20 South     Range     36 East     Section     24     Unit     O									
Begin Excavation (Date/Time)       03/25/01         Complete Excavation (Date/Time)       6/12/01									
LAND USE:      □ Residential      □ Recreational      □ Farm land      Industrial     □ School/Daycare      ■ Range land									
(Check	all that apply)	Oil & Gas		🛛 Rural			□ Other:		
Wellhead Distance		> 1,000 fe	et from a way $\blacksquare > 1,000$	ter source	□ < 200 200 – 1,000	0 feet from p feet	< 200 feet	water source	
	AVATION	Lengt		W	Vidth	Average		Maximum Dept	h
	IE EXCAVATED:								
VOLUM							NDFARM:	2,328	<u>yc</u>
r	······································	· · · · · · · · · · · · · · · · · · ·			·····		CENTRATION		
Ltr	Sample ID (Depth)	Sample	Sample Date	OVM (ppm)	GRO (mg/kg)	DRO (ma/ka)	Benzene	BTEX	
2	SF Wall-1	Type Grab				(mg/kg)	(mg/kg) <0.025	(mg/kg)	
a b	SE Wall-1 SE-Wall-2	Grab	05-25-01	30	112	2411	<0.025	0.204	
b	SE-Wall-2	Grab Comp	05-25-01 05-25-01	30 9.0	112 <b>30</b>	2411 501	<0.025 NA	0.204 NA	
b c	SE-Wall-2 SW-Wall-1	Grab Comp Comp	05-25-01 05-25-01 05-25-01	30 9.0 0.0	112 30 <10	2411 501 < 10	<0.025 NA NA	0.204 NA NA	
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b c d	SE-Wall-2 SW-Wall-1 SW-Wall-2 S-Wall-1	Grab Comp Comp Grab Comp	05-25-01 05-25-01 05-25-01 05-25-01 05-25-01	30 9.0 0.0 0.0 0.0	112 30 < 10 < 10 < 10	2411 501 <10 <10 <10	<0.025 NA NA NA NA	0.204 NA NA NA NA	
b c d e f	SE-Wall-2 SW-Wall-1 SW-Wall-2 S-Wall-1 S-Floor-1 (15')	Grab Comp Comp Grab Comp Grab	05-25-01 05-25-01 05-25-01 05-25-01 05-25-01 05-25-01	30 9.0 0.0 0.0 0.0 6.0	112       30       < 10	2411 501 <10 <10 <10 3586	<0.025 NA NA NA NA <0.025	0.204 NA NA NA NA 0.204NANA<0.025	
b c d e f g	SE-Wall-2 SW-Wall-1 SW-Wall-2 S-Wall-1 S-Floor-1 (15') S-Floor-2 (10-15')	Grab Comp Grab Comp Grab Comp	05-25-01 05-25-01 05-25-01 05-25-01 05-25-01 05-25-01 05-25-01	30 9.0 0.0 0.0 0.0 6.0 6.0	112       30       < 10	2411 501 <10 <10 3586 92	<0.025 NA NA NA NA <0.025 NA	0.204 NA NA NA NA <0.025 NA	
b c d e f g h	SE-Wall-2 SW-Wall-1 SW-Wall-2 S-Wall-1 S-Floor-1 (15') S-Floor-2 (10-15') N-Floor-1 (27')	Grab Comp Grab Comp Grab Comp Grab	05-25-01 05-25-01 05-25-01 05-25-01 05-25-01 05-25-01 05-25-01 05-25-01	30 9.0 0.0 0.0 6.0 6.0 83	112       30       < 10	2411 501 <10 <10 3586 92 1107	<0.025 NA NA NA NA<0.025	0.204 NA NA NA NA NA<0.025	
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b c d e f g h i j k 1 m B5 B5	SE-Wall-2         SW-Wall-1         SW-Wall-2         S-Wall-1         S-Floor-1 (15')         S-Floor-2 (10-15')         N-Floor-1 (27')         S-Floor-3 (20')         SE-Wall-3         N-Floor-2 (33')         NE-Wall-1         N-Wall-1         NW-Wall-1         Exc. Soil-1         Exc. Soil-2	Grab Comp Grab Comp Grab Comp Grab Grab Grab Grab Grab Grab Grab Comp Comp	05-25-01 05-25-01 05-25-01 05-25-01 05-25-01 05-25-01 05-25-01 05-31-01 05-31-01 05-31-01 05-31-01 05-31-01 05-31-01 05-31-01 05-31-01 05-31-01 05-25-01 06-01-01	30           9.0           0.0           0.0           0.0           6.0           83           0.0	112         30         < 10	$\begin{array}{r} 2411 \\ 501 \\ <10 \\ <10 \\ 3586 \\ 92 \\ 1107 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ <10 \\ \\ 1633 \\ 1128 \end{array}$	<0.025 NA NA NA NA NANA<0.025	0.204 NA NA NA NA NA 	
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Soil-2         Backfill-1         Backfill-3         BF-3a	Grab Comp Grab Comp Grab Comp Grab Grab Grab Grab Grab Grab Grab Comp Comp Comp Comp Comp	05-25-01 05-25-01 05-25-01 05-25-01 05-25-01 05-25-01 05-25-01 05-31-01 05-31-01 05-31-01 05-31-01 05-31-01 05-31-01 05-31-01 05-31-01 05-25-01 06-01-01 06-01-01 06-01-01 06-01-01 06-01-01	30         9.0         0.0         0.0         0.0         6.0         83         0.0         14	$ \begin{array}{r} 112 \\ 30 \\ < 10 \\ < 10 \\ 152 \\ < 10 \\ 217 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ 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b c d e f g h i j k 1 m B5 B5 BF BF BF BF BF BF BF BF	SE-Wall-2         SW-Wall-1         SW-Wall-2         S-Wall-1         S-Floor-1 (15')         S-Floor-2 (10-15')         N-Floor-2 (10-15')         N-Floor-3 (20')         SE-Wall-3         N-Floor-2 (33')         NE-Wall-1         NW-Wall-1         Exc. Soil-1         Exc. Soil-2         Backfill-1         Backfill-3         BF-3a         BF-3b         BF-3c	Grab Comp Grab Comp Grab Comp Grab Grab Grab Grab Grab Grab Grab Comp Comp Comp Comp Comp Comp Comp	05-25-01 05-25-01 05-25-01 05-25-01 05-25-01 05-25-01 05-25-01 05-31-01 05-31-01 05-31-01 05-31-01 05-31-01 05-31-01 05-31-01 05-25-01 06-01-01 06-01-01 06-01-01 06-06-01 06-06-01 06-06-01	30         9.0         0.0         0.0         0.0         6.0         83         0.0         14         31         13	$ \begin{array}{r} 112 \\ 30 \\ < 10 \\ < 10 \\ 152 \\ < 10 \\ 217 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\ < 10 \\$	$\begin{array}{r c c} 2411 \\ 501 \\ \hline \\ \hline \\ 501 \\ \hline \\ $	<0.025 NA NA NA NA NA <0.025 NA <0.025 NA NA NA NA NA S S S S S S S S S S S S	0.204 NA NA NA NA NA NA NA NA NA NA	
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District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised March 17, 1999

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Attached

			Relea	ise No	otification a	and Cor	rective Action					
			<u></u>		OPERA	TOR		Initial Rep	ort Final Report			
Name of Co		Energy Fiel	d Service	e Inc		Contact	-NAr-Sta	Wanthar	······			
Address	Duke	Ellergy Fler	u service	55 Inc.		(Mr. Steve Weathers)       Telephone No.						
		5493, Denve	er, Color	ado 802	217	(303) 605-1718						
Facility Nar	ne	/Site Name:	:-CC-#4			Facility Type Natural Gas Pipeline						
Surface Ow				T	Mineral Owner							
Surface Ow		e Cooper 3		ς		Unkn	own	Logs	EMSU			
LOCATION OF RELEASE												
Unit Letter	Section	Township	Range			South Line	and the second	st/West Line	e County			
0	24	205	36E		32°	33' 14" N	. 103	3° 18' 19" W	/ Lea			
L	J.,		J				A <u>anaa</u>					
Time of Dala					NATURE O	Volume of		Volu	me Recovered			
Type of Release						volume of	Unknown		$2,328 \text{ yd}^3$ soil removed			
Source of Re	lease	/ Pipeli	na-1			Date and I	Iour of Occurrence Unknown	Dat	te and Hour of Discovery Unknown			
Was Immedia	ate Notice (					If YES, To		l	UIKIOWI			
			Yes 🗌	No	Not Required		Donna Williams	s, NMOCD I	District 1			
By Whom?		Steve We	athers			Date and I	lour					
Was a Water	course Read	ched?				If YES, Vo	olume Impacting the W	atercourse.				
				No		N/A						
If a Watercou	rse was Im	pacted, Descr	ibe Fully.	<b>*</b> ,								
N/A												
Describe Cau	se of Probl	em and Reme	dial Actio	on Taken	*							
							ed with 6" plastic line ndowner (Clay Cooper)		original 10" steel pipeline			
100 mg/kg. I transported to	over-excava Final excava o cell B-5 at	tion was initia ation dimension t the South M	ated. Exca ons varied onument	avation c l from ar	prox. 22 - 60 ft v	vide x 114 lo	ng x 5 -33 ft deep. Ap	proximately	r and walls were below 2,328 cu yds of soil was report, analytical results,			
photographs,	and site ma	ap are attached	d. ven above	e is true	and complete to t	he best of m	knowledge and under	stand that nu	T2000 excavated			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.												
	0	1					OIL CONSERV	ATION	DIVISION			
Signature:							Approved by District Supervisor:					
Printed Name		hen Weathers	cialist			Approval	Date:	Expirati	on Date:			

Conditions of Approval:

Date: <sup>11/9/01</sup> Phone: (303) 605-1718 \* Attach Additional Sheets If Necessary

U	D	/	v	4/	20	U 1	10	):	00	- <b>r</b>	A.1	L .	21	10	 0	σ	0 0	,

District I - (505) 593-6161 1625 N. French Di Hobbs, NM 88240 District II - (505) 748-1283 811 S. First Artesia NM 88210 District III - (505) 334-6178 1000 Rio Brazos Road Arter, NM 87410 District TV - (505) 827-7131 2040 S. Pacheco Sauta Fc. NM 87505

Generator Signature:

Print Name:

New Mexico **Energy Minerals and Natural Resources Department** Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

3/15/00

WUVZIUVZ

Submit to OCD Permitted Surface Waste Management Facility

#### **GENERATOR CERTIFICATE OF WASTE STATUS**

1. Waste Generator Name and Address: 2.Permit Number (if waste generated at an OCD permitted facility) Duke Energy Field Services Inc. P. O. Box 5493 Denver, Colorado 80217 3. Description of Waste and Generating Process: 4. Location of Waste (Street address &/or ULSTR): Exempt oilfield waste Hydrocarbon-impacted soil from pipeline leak Sec 24 T20S R36E Unit J Site Name: Clay Cooper #4 5. Destination (Surface Waste Management Facility): 6. Transporter: Walton Construction South Monument Landfarm (Permit NM-01-0032) 7. Estimated Volume 1000 cy/bbls For NON-EXEMPT waste only, the following documentation is attached (check appropriate items): MSDS Information RCRA Hazardous Waste Analysis (With Chain of Custody). Other (Description) Generator certifies that, according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (check appropriate classification) X EXEMPT oilfield waste. NON-EXEMPT oilfield waste that is non-hazardous pursuant to 40 CFR Part 261. (Attach appropriate documentation) In addition, Generator certifies that nothing has been added to this exempt or non-exempt non-hazardous waste and that this waste does not contain Naturally Occurring Radioactive Material (NORM) regulated pursuant to 20 NMAC 3.1 Subpart 1403. \_\_\_\_\_ Date: \_\_\_\_\_

Environmental Specialist Title:

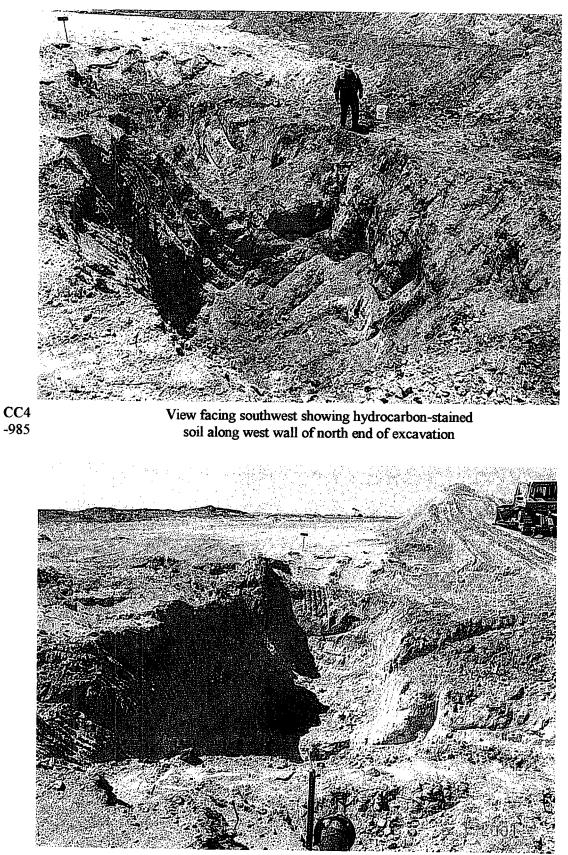
Steve Weathers

Form C-143

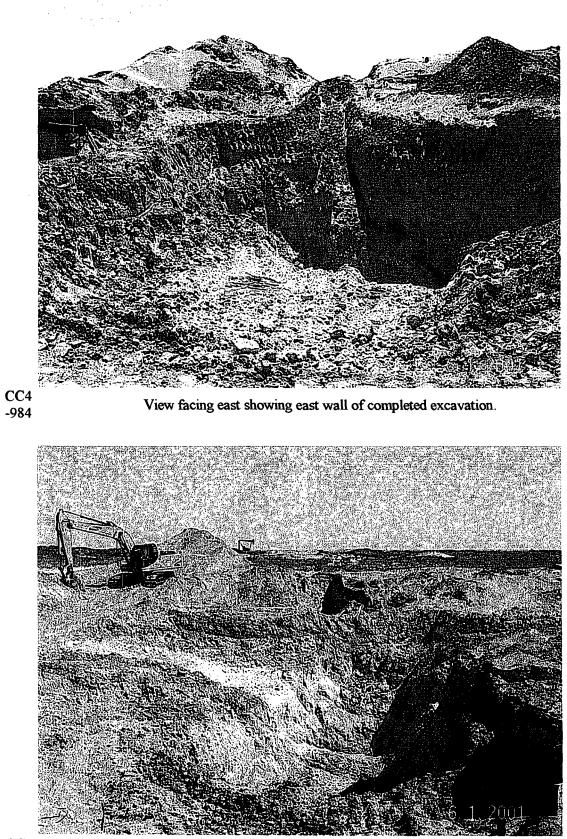
(2017)4) I Cat' N. Trunds Dr., Blobbe, NHE WEZOU	State of New Moxico Energy Minorals and Natural Resu	Form C-13 Permit General Marine
Dirig 11 913 Gunh Fire, Armie, 1431 982 10 Di <u>ckiel II</u> Diekiel II Diekiel IV 2008 North Pathon, Kores IV, 1478 8750 8	Oil Conservation Division 2040 South Pacheco Santa Pc, NM 87505	Submit Origin
REQUEST FOR	APPROVAL TO ACCEPT	SOLID WASTE
		4. Generator: Duke Energy Field Svcs
1. NCKA Exempt: Will Non-Exempt I: Vorbal Approval Received: Yes	₩¢ []	5. Originating Site T208 R3GE 524 Uni
2. Management Pacifily Destination: South I	Monument Lundiarm (NM-01-0032)	5. Timasporter Walton Countraution
3. Address of Facility Operator: \$34 West Co	uld, 11,05hs, NM 88240	N. State: New Maxim
7. Location of Material (Street Address or U	LSTR): T205 RJGE Sec24 Unit J	Site Name (CH4
Une certificate per job. B. Alt requests for approval to accept non- inuterist is not-hazardous and the Gene approved All transporters must carrify the wanne dy BRIEF DESCRIPTION OF MATERIAL: (i)Ifield exampt waste (hydrocurbon-impocted	erator's contituation of oright. No wash	c chrodificat hozandons by Tistung as leating wi
B. All requests for approval to accept non- instantial is not-hazardous and the Gene approved All transporters must carrily the manue di BRIEF DESCRIPTION OF MATERIAL:	erator's contituation of oright. No wash	c chrodificat hozandons by Tistung as leating wi
B. All requests for approval to accept non- instantial is not-hazardous and the Gene approved All transporters must cartify the vanue de BRIEF DESCRIPTION OF MATERIAL: (bi)field exempt waste (hydrocuteon-imported	ennar's continuetion of oright. No want <u>diversed are only those sumsigned for or</u> Sooil generated from historic leak in na Sumon Volume (to be colored by the sp	ernior of the end of the hould
B. All requests for approval to accept non- instantial is not-hazardous and the Gene approved All transporters must carvify the vanue de BRIEF DESCRIPTION OF MATERIAL: (bi)field energy wests (hydrocurbon-imported	ennar's continuetion of oright, No want elivered are only those considered for an is soil generated from historic leak in na is soil generated from historic leak in na from your volume (in he entered by the op from you	ection of the end of the hould

TO:

#### DIGITAL PHOTOGRAPHS OF THE CLAY COOPER #4 SITE



View facing south showing excavation of CC#4 site. Backfilled CC#3 site shown in background.





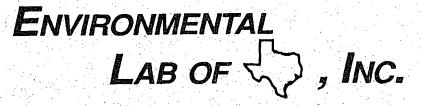
View of completed excavation facing north.

## ATTACHMENT B

### LABORATORY ANALYTICAL REPORTS

#### AND

## CHAIN-OF-CUSTODY DOCUMENTATION



"Don't Treat Your Soil Like Dirt!"

TRIDENT ENVIRONMENTAL ATTN: MR. GILBERT VAN DEVENTER P.O. BOX 7624 MIDLAND, TEXAS 79708 FAX: 682-0727

Sample Type: Soil Sample Condition: Intact/ Iced/ -1.0 deg C Project #: V-106 Project Name: Duke Energy Field Services Project Location: CC #4

Sampling Date: 06/01/01 Receiving Date: 06/01/01 Analysis Date: 06/01/01

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE ma/ka	o-XYLENE ma/ka	 
40656	Exc. Soil-2	<0.025	<0.025	<0.025	0.117	0.070	

	the part of the second seco				<ul> <li>Non-example of the state</li> </ul>	· · · ·
	QUALITY CONTROL	0.093	0.096	0.096	0.211	0.100
	TRUE VALUE	0.100	0.100	0.100	0.200	0.100
•	% INSTRUMENT ACCURACY	93	96	96	106	100
;;	SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
΄.	ORIGINAL SAMPLE	<0.025	<0.025	<0.025	<0.025	<0.025
	SPIKE	0.097	0.099	0.098	0.219	0.103
	SPIKE DUP	0.090	0.091	0.091	0.200	0.096
	% EXTRACTION ACCURACY	97	99	98	110	103
	BLANK	<0.025	<0.025	<0.025	< 0.025	<0.025
•	RPD	7	7	7	9	7

METHODS: EPA SW 846-8021B ,5030

eine Celey D. Keepe

06/04/01

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TRIDENT ENVIRONMENTAL ATTN: MR. GILBERT VAN DEVENTER P.O. BOX 7624 MIDLAND, TEXAS 79708 FAX: 682-0727

Sample Type: Soil Sample Condition: Intact/Iced/ -1.0 deg C Project #: V-106 Project Name: Duke Energy Field Services Project Location: CC #4

Sampling Date: 06/01/01 Receiving Date: 06/01/01 Analysis Date: 06/01/01

	ELT# FIELD CODE		GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg		
•	40652 CC4-M-NW-Wall-	-1	<10	62		
	40653 CC4-Backfill-1		<10	<10		
	40654 CC4-Backfill-2 40655 CC4-Backfill-3		<10 <10	<10 121		
	40656 Exc. Soil-2		79	1128		
		<ul> <li>A second sec second second sec</li></ul>	e de la companya de l		the state of the state of the	e se se en

QUALITY CONTROL	551	539
TRUE VALUE	500	500
% INSTRUMENT ACCURACY	110	108
SPIKED AMOUNT	476	476
ORIGINAL SAMPLE	<10	62
SPIKE	535	533
SPIKE DUP	544	547
% EXTRACTION ACCURACY	112	99
BLANK	<10	<10
RPD	2	3

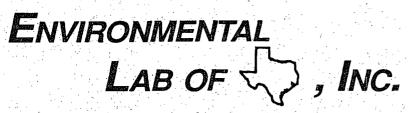
Methods: EPA SW 846-8015M GRO/DRO

Celey D. Kepne 06/04/01 Date

12600 West I-20 East • Odessa, Texas 79765 • (915) 563-1800 • Fax (915) 563-1713

	r Iran P	.0. Box	7624																		V	<b>-1</b> 0	)6-0	CC4	4-04 ody	Ļ
TRIDEN	L (9	1idland, 15) 682 15) 682	TX 797 -0808 -0727(	08 Fax)												Па	te (a	<b>C</b> ,-1-0							ody	1
															abro					·	age _		VI .			
Lab Name: <u>t</u> Address: <u>12</u>	600 W	1-20E		· · · · · · · · · · · · · · · ·										AI	alys		eque	=SL			ŗ		<u> </u>		<u> </u>	
Telephone:	dessa, Tr	- 7976	3		<u>e</u>																		1			ers
Telephone:	915, 56	3-1800			- un	<b>1</b> B)	<del>1</del> B)	6		<u>_</u>	~			ହ	ධ	<u> </u>										Containers
Samplers (SIGNATURES)	Vale	24			Sample Type: G - Grab, C- Composite	X (EPA 802	MTBE (EPA 8021B)	SVOC (EPA 8270)	(EPA 8270	VOC (EPA 8260)	TPH (EPA 418.1)	(TX-1005)	ТРН (ТХ-1006)	GRO (EPA 8015G)	) (EPA 8015	TDS (EPA 160.1)	Anions/Cations	Total Metaks	TCLP Metals							Number of Co
Sample Identification	on	Matrix	Date	Time	Sam G - C	BTE	МТВ	svo	РАН	NOC VOC	Hall	HdT	НЧТ	GRC	DRC	TDS	Anio	Tota	TCL							NUN
CCH- M-NW-W		Soil	6-1-01	1035	6									$\checkmark$	<u>`</u>					4	0	6	5	2		1
CCY - Backfill - 1		5011	6-1-01	1040	C									$\checkmark$	~					4	0	2	5	3		1
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ce 4 - Backfill-	3	50;1	6-1-01	1100	C									2	~					4	0	6	5	5	/	Ī
Exc. Soil -2		Soil	6-1-01	TILS	C	$\checkmark$								2	~					4	0	6	5	6		Γ
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Project Info	ormation		Sam	ple Receipt			uished						Relinq (2) (Co	uished	•						quisheo ompany	•				
Project Name: Dulce Ev	ner ny Fi	eld Sucs	Total Contain	ers:			ent E		onme	ntal											er in dan ie					
Project Location: CC			COC Seals:	<u></u>	1	(Printed N	<sup>sme)</sup> G	il Var	n Dev	enter			(Printed	Name)						(Printe	d Name	)				
Project Manager: Gil	Van Deven	ter	Rec'd Good (	Cond/Cold:	-1.0°	(Signé	Wer	(and )	ll 3	6			(Signat	ure)						(Signa	ture)					
Cost Center No.: V-1	06		Conforms to	Records:	-	(Date).	-1-0	21	1	(Time) 3:2	.5 p	h	(Date)			1	(Time)			(Date)				(Time)		
Shipping ID No.:			Lab No.:			Recei	ved By: ompanv)						Recelv (2) (Co								ved By ompany					
	e Energy Fie		<u> </u>				vicor		nta l	Lat	oof T															
-	: Steve Wea	thers				Je	d Name)	hem	YCM.	Are	1			i Name							d Name				<u></u>	
	3ox 5493					(Signa	ture) Can	re7	ncr	nen	Nez		(Signat	ure)						(Signa						
Den	ver, CO 802	217				(Dafe) (J	-01-	-01		(Time) 152	5		(Date)				(Time)			(Date)				(Time)		

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"Don't Treat Your Soil Like Dirt!"

TRIDENT ENVIRONMENTAL ATTN: MR. GILBERT VAN DEVENTER P.O. BOX 7624 MIDLAND, TEXAS 79708 FAX: 682-0727

Sample Type: Soil Sample Condition: Intact/ Iced/ 4.0 deg C Project #: V-106 Project Name: Duke Energy Field Services Project Location: CC #4 Sampling Date: 06/06/01 Receiving Date: 06/06/01 Analysis Date: See Below

ELT# FIELD CODE	BENZENE	TOLUENE	ETHYLBENZENE	m,p-XYLENE	o-XYLENE
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
40747 BF-3b	<0.025	<0.025	<0.025	<0.025	<0.025
40749 BF-3d	<0.025	<0.025	<0.025	<0.025	<0.025
QUALITY CONTROL	0.103	0.101	0.098	0.216	0.100
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% INSTRUMENT ACCURACY	103	101	98	108	100
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	<0.025	<0.025	<0.025	<0.025	<0.025
SPIKE	0.101	0.100	0.098	0.218	0.102
SPIKE DUP	0.100	0.101	0.099	0.224	0.105
% EXTRACTION ACCURACY	101	100	98	109	102
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025
RPD	1	1	1	3	3
ANALYSIS DATE	6/06/01	6/06/01	6/06/01	6/06/01	6/06/01
40746 BF-3a	<0.025	<0.025	<0.025	<0.025	<0.025
QUALITY CONTROL	0.101	0.099	0.097	0.214	0.099
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% INSTRUMENT ACCURACY	101	99	97	107	99
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	<0.025	<0.025	<0.025	<0.025	<0.025
SPIKE	0.104	0.104	0.103	0.223	0.108
SPIKE DUP	0.108	0.109	0.107	0.223	0.112
% EXTRACTION ACCURACY	104	104	103	112	112
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025
RPD	4	5	4	0	4
ANALYSIS DATE	6/07/01	6/07/01	6/07/01	6/07/01	6/07/01

METHODS: EPA SW 846-8021B ,5030

1 5 Tuttle

·8 •D Date

"Don't Treat Your Soil Like Dirt!"

LAB OF

TRIDENT ENVIRONMENTAL ATTN: MR. GILBERT VAN DEVENTER P.O. BOX 7624 MIDLAND, TEXAS 79708 FAX: 682-0727

<sup>3</sup>, *Inc.* 

Sample Type: Soil Sample Condition: Intact/Iced/ 4.0 deg C Project #: V-106 Project Name: Duke Energy Field Services Project Location: CC #4

ENVIRONMENTAL

Sampling Date: 06/06/01 Receiving Date: 06/06/01 Analysis Date: 06/06/01

	ELT# FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	
	40746 BF-3a	<10	549	
5.	40747 BF-3b	<10	<10	
· •••	40748 BF-3c	<10	<10	
	40749 BF-3d	<10	<10	

QUALITY CONTROL	443	427
TRUE VALUE	500	500
% INSTRUMENT ACCURACY	111 - <b>111</b>	104
SPIKED AMOUNT	476	476
ORIGINAL SAMPLE	<10	<10
SPIKE	534	506
SPIKE DUP	530	494
% EXTRACTION ACCURACY	111	-104
BLANK	<10	<10
RPD	<b>1_</b>	2

Methods: EPA SW 846-8015M GRO/DRO

Kel-dkt Raland K. Tuttle

6-7-01 Date

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F.O. Box TRIDENT Midlan GIST G GIST G GIST G	7624 J, Tx 82-02	79705	3										·							of (	Cu	sto	4-05 ody	
			1	r								A					- 01	ł	age		01			
Lab Name: <u>Chylichn mental</u> Address: <u>17600 W T-z</u> <u>D dessa.</u> <u>Tx 7</u> Telephone: <u>A 15) 563-18</u> Samplers (SIGNATURES) Sample Identification Matrix	OE	<u>+ 7x</u>	Sample Type: G - Grab, C- Composite	TEX (EPA 8021B)	MTBE (EPA 8021B)	SVOC (EPA 8270)	PAH (EPA 8270)	VOC (EPA 8260)	TPH (EPA 418.1)	ТРН (ТХ-1005)	TPH (TX-1006)	GRO (EPA 8015G)	DRO (EPA 8015D)	IDS (EPA 160.1)	Anions/Cations		TCLP Metats							Number of Containers
BF-3 a Soil		1400	0 0 (	Ĩ	2	S	<u> </u>	>	F	F	F	° ⁄		F	A			4	D	7	4	+		, ,
BF-3 6 Soil	6-6-01	1	C	7								1	V /					1ú	0	$\frac{1}{2}$	$\frac{1}{1}$	12	<u>├──┼</u>	,
BF-3 c Soil	6-6-01		$\overline{c}$	Ť														14	0	17	4	3	<u>├</u> ─── <del>│</del>	;
BF-3d 5011	6-6-01	1	C	$\checkmark$								~	$\sum$					4	0	7	4	9		
			$\left  - \right $																<u> </u>			+		
							-											<b> </b>			╞	<u> </u>		
	· · · · · · · · · · · · · · · · · · ·		┣—																	<b> </b>	–	╉╾┙┦		_
Project Information	.1	ple Receipt	I	(1) (C	uisheo vneamv	<u>۲</u>	<b>ل</b> ے۔۔۔۔ :		l			ulshed mpany)	•			<u> </u>			quishe ompan		<u> </u>			-
Project Name: Duke Energy Field Service Project Location: CC#4)	COC Seals:	iers:	{	1							(Printed	d Name)						(Printe	d Nam	e)				_
Project Location: (CC#4) Project Manager: Gil Van Deventer	Cond/Cold:	40	(Signa	urey /	iil Var	RS				(Signat	ture)						(Signa	ture)						
Cost Center No.: V-106					-6-0			Time) 4	5500	<u>ر</u>	(Date)				(Time)			(Date)				(Time)	<sup></sup>	
Shipping ID No.:	Lab No.:	· · · · · · · · · · · · · · · · · · ·	•	Recei (1) (Co	ved By omoanv	: 1						ved By: ompany)					,		ved B ompan					
Bill to (see below):         Duke Energy Field Services           Special Instructions:         Attn: Steve Weathers						2.00	ner	Hal	Labo	fðx	(Printer	d Name)				<u></u>		(Printe	d Nam	e)	<b></b> ,-	<del></del>		
POBox 5493	dd BTEX Rs per G.V 6-7-01	BF-3a	r	ر (Signat	an ture)	ner					(Signat							(Signa						_
Denver, CO 80217	6-7-01	@ 1130		(Date)	1 Quan	-01	M.	Time)	nur 1659	2	(Date)				(Time)			(Date)				(Time)		_

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# ENVIRONMENTAL LAB OF $\langle \rangle$ , INC.

"Don't Treat Your Soil Like Dirt!"

TRIDENT ENVIRONMENTAL ATTN: MR. GILBERT VAN DEVENTER P.O. BOX 7624 MIDLAND, TEXAS 79708 FAX: 682-0727

Sample Type: Soil Sample Condition: Intact/Iced/ -0.5 deg C Project #: V-106 Project Name: Duke Energy Field Services Project Location: CC #4

Sampling Date: 05/31/01 Receiving Date: 05/31/01 Analysis Date: 05/31/01

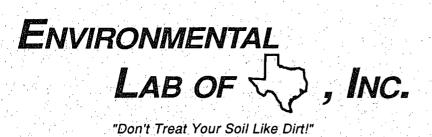
 ELT#	FIELD CODE			GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg		
 10004							<u> </u>
40604	N-Floor-1 (27')			217	1107	공항 이 가지 않는	· •
40605	S-Floor-3 (20')		and the second state	<10	<10		
40606	SE-Wall-3	e de la companya de l		<10	<10		· .
40607	N-Floor-2 (33')			<10	<10	and the state	-, '
 40608	NE-Wall-1		and the second	<10	<10		
40609	N-Wall-1			<10	<10		
· .				e par la constante		and the second second	

(a) A set of the se	and the second second	
QUALITY CONTROL	532	552
TRUE VALUE	500	500
% INSTRUMENT ACCURACY	106	110
SPIKED AMOUNT	476	476
ORIGINAL SAMPLE	<10	<10
SPIKE	549	539
SPIKE DUP	561	574
% EXTRACTION ACCURACY	115	113
BLANK	<10	<10
RPD	2	6

Methods: EPA SW 846-8015M GRO/DRO

Celey D. Keene 06/01/01 Date

12600 West I-20 East • Odessa, Texas 79765 • (915) 563-1800 • Fax (915) 563-1713



TRIDENT ENVIRONMENTAL ATTN: MR. GILBERT VAN DEVENTER P.O. BOX 7624 MIDLAND, TEXAS 79708 FAX: 682-0727

Sample Type: Soil Sample Condition: Intact/ Iced/ -0.5 deg C Project #: V-106 Project Name: Duke Energy Field Services Project Location: CC #4 Sampling Date: 05/31/01 Receiving Date: 05/31/01 Analysis Date: 05/31/01

	ELT#	FIELD CODE		BENZENE mg/kg	TOLUENE mg/kg	ETŀ	IYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
- 1	40604	N-Floor-1 (27')	1° 2 1 - 2	<0.025	0.430		0.278	0.745	0.337

		and the second	a shekara shekara shekara shekara shekara shekara s		
•	QUALITY CONTROL	0,094 0.0	0.094	0.204	0.096
	TRUE VALUE	0.100 0.1	00 0.100	0.200	0.100
١.	% INSTRUMENT ACCURACY	94 9	5 94	102	96
:	SPIKED AMOUNT	0.100 0.1	00 0.100	0.200	0.100
	ORIGINAL SAMPLE	<0.025 <0.0	025 <0.025	<0.025	<0.025
•	SPIKE	0.100 0.1	01 0.101	0.226	0.105
·`	SPIKE DUP	0.097 0.0	99 0.098	0.219	0.102
	% EXTRACTION ACCURACY	100 10	)1 101	113	105
<u>}</u> .	BLANK	<0.025 <0.0	025 <0.025	<0.025	<0.025
	RPD	3 2	2 3	3	3

METHODS: EPA SW 846-8021B ,5030

Keine in Celey D. Keene

06/01/01 Date

TRIDENT TENVIRONMENTAL	P.O.Box Midlan (915) 68 (915) 68		<b>9</b> 708 28 27 Fax				,			, -					Da	ite				10	of (	Cu	CC4	bc	
Lab Name: Environ	mental L	ab of	Tx	1									Ar	nalys	is R	eque	est								
Address: <u>72600</u> <u>Odessa</u> Telephone: <u>(9157's</u> Samplers (SIGNAPORES) Sample Identification	$ \begin{array}{c} w  I-2 \\ \hline T \times  29 \\ \hline 3-7800 \\ \hline \end{array} $ Matrix	0 <u>5</u> 76 5	Time	Sample Type: G - Grab, C- Composite	TEX (EPA 8021B)	MTBE (EPA 8021B)	SVOC (EPA 8270)	PAH (EPA 8270)	VOC (EPA 8260)	TPH (EPA 418.1)	ТРН (ГХ-1005)	ТРН (ГХ-1006)	GRO (EPA 8015G)	DRO (EPA 8015D)	TDS (EPA 160.1)	Anions/Cations	Total Metals	TCLP Metals							Number of Containers
9 N-Floor-1 (27-)	SUTI	5-31-01		6	<u></u>			Ľ.	>				<u>ہ</u>			<			4	0	6	0	4		$\frac{2}{1}$
h S-Floor-3(20')	Soil	5-31-01	1115	4	Ť	1							v v	Č					4	0	16	0	ς		<u>′</u>
	SE-Wall-3 Soil S-31-01 11-			G		1				<u> </u>									4	0	6	0	6		
j N-Floor -2 (33')				2	1								~						4	0	6	0	17		 /
K NE-Wall-1	5011	5-31-01	1	6	1								~						4	0	6	0	B		1
K NE-Wall-1 & N-Wall-1	Soil	5-31-01			1	1							~		-				4	0	6	0	9	·	/
					Ι														<b></b>						
																·									
				Τ	Τ																				
Project Information		San	nple Receipt			quisheo ompany	•						ulshec moanv	•	·					quishe ompanv	•				
Project Name: Pike Energy	FieldSus	Total Contair	ners:		Trid	ent E	Enviro	onme	ental																
Project Location: CC#4	·	COC Seals:				lame)	Sil Va	ן Dev	rente	-		(Printed	d Name	)		·····			•••	d Name	ı)				
Project Manager: Gil Van Dev	enter .	Rec'd Good	Cond/Cold: -	0.5%	(Sigra		-k	]£	5			(Signat	ure)						(Signa	ture)					
Cost Center No.: V-106	Cost Center No.: V-106 Conforms to Records:				(Date)	71-	01	,	(Time)	60	υ	(Date)				(Time)			(Date)				(Time)		
Shipping ID No.:					IRECE	wed By ompany	<i>l</i> :					Receiv (2) (Co	ved By moanv							ved By ompany		,			
					1									<u></u>							<del></del>				
Special Instructions: Attn: Steve W	/eathers	Rust	-> % Å	5 im	J		nel	ЧСА	1ur	rey			d Name	)						d Name	יי 			<u> </u>	
POBox 5493		6211				ture) Yer	nne	m	m	une	8	(Signat	ure)			(The)			(Signa				(Times)	,	
Denver, CO 8	10217				OS	-31-	-01		(Time)	llaτ		(Date)				(Time)			(Date)				(Time)		

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ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TRIDENT ENVIRONMENTAL ATTN: MR. GILBERT VAN DEVENTER P.O. BOX 7624 MIDLAND, TEXAS 79708 FAX: 682-0727

Sample Type: Soil Sample Condition: Intact/ Iced/ 0.5 deg C Project #: V-106 Project Name: Duke Energy Field Services Project Location: CC#4 Sampling Date: 05/25/01 Receiving Date: 05/25/01 Analysis Date: 05/29/01

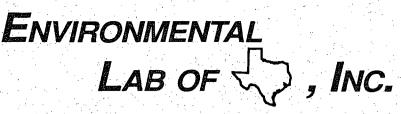
				GRO C6-C10	DRO >C10-C28	
ELT#	FIELD CODE	and the second	at a second s	mg/kg	mg/kg	e per el composito de la compos
40526	SE-Wall-1		the second second	112	2411	
40527	SE-Wall-2		and a product and a	30	501	
40528	SW-Wall-1			<10	<10	
40529	SW-Wall-2		<ul> <li>A state of the second se</li></ul>	<10	<10	
40530	S-Wall-1			<10	<10	
40531	S-Floor-1		· · · · · · · · · · · · · · · · · · ·	152	3586	and the second second
40532	S-Floor-2			<10	92	e se transformation de la companya d

	the second s	e de la complete de l
QUALITY CONTROL	518	509
TRUE VALUE	500	500
% INSTRUMENT ACCURACY	107	98
SPIKED AMOUNT	500	500
ORIGINAL SAMPLE	<10	<10
SPIKE	543	481
SPIKE DUP	552	476
% EXTRACTION ACCURACY	114	101
BLANK	<10	<10
RDP	2	1

Methods: EPA SW 846-8015M GRO/DRO

. d / nd K. Tuttle

5-29-01 Date



"Don't Treat Your Soil Like Dirt!"

TRIDENT ENVIRONMENTAL ATTN: MR. GILBERT VAN DEVENTER P.O. BOX 7624 MIDLAND, TEXAS 79708 FAX: 682-0727

Sample Type: Soil Sample Condition: Intact/ Iced/ 0.5 deg C Project #: V-106 Project Name: Duke Energy Field Services Project Location: CC#4 Sampling Date: 05/25/01 Receiving Date: 05/25/01 Analysis Date: 05/25/01

na internationale La catalante			BENZENE	TOLUENE	ETHYLBENZENE	m,p-XYLENE	o-XYLENE	
ELT#	FIELD CODE		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
		an a	the starts			n test in the second		
40526	SE-Wall-1	And the second	<0.025	<0.025	0.065	0.139	< 0.025	
40531	S-Floor-1		<0.025	<0.025	<0.025	<0.025	<0.025	
				and the second				

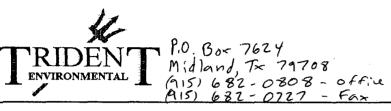
						1. S.
	QUALITY CONTROL	0.091	0.088	0.088	0.191	0.092
	TRUE VALUE	0.100	0.100	0.100	0.200	0.100
	% INSTRUMENT ACCURACY	91	88	88	96	92
	SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
	ORIGINAL SAMPLE	<0.025	<0.025	<0.025	<0.025	<0.025
	SPIKE	0.107	0.109	0.107	0.241	0.113
	SPIKE DUP	0.097	0.099	0.096	0.214	0.101
	% EXTRACTION ACCURACY	97	99	96	107	101
÷,	BLANK	<0.025	<0.025	<0.025	<0.025	<0.025
	RPD	10	10	11	12	12

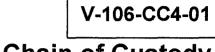
METHODS: EPA SW 846-8021B ,5030

CUCK Raland K. Tuttle

5-29-0 Date

12600 West I-20 East • Odessa, Texas 79765 • (915) 563-1800 • Fax (915) 563-1713





Chain of Custody Date 5-25-61 Page 1 of 1

	Lab Name: <u>Environm</u>	iental La	h of TC	ras										An	alys	is R	eque	est								
	Lab Name: <u>Environm</u> Address: <u>17600</u> Odess Telephone: <u>915-56</u>	J I-20								۰.																
	Odgsa	Tre			e													•				!				S
ļ	Telephone: <u>915-56</u>	3-1800			osit	<u>s</u>	<u></u>								_						ļ	( !				aine
					Ĕ	121E	0216	270)	6	â	÷			15G	15D)	÷										ont
	Samplers (SIGNATURES)	٨			ii O B d	A 80	A 8(	A 8;	827	826	418	005	006	80	801	160	ions	<u>v</u>	ম্ম							S S
		A			P a	EP.	Ē	Ē	A	ΒA	Υ.	ž	Ϋ́	EPA	EPA	ΡĀ	\Cat	feta	Metals							er
	/LI Van Ke	$\sim$			Sample Type: G - Grab, C- Composite	ы	MTBE (EPA 8021B)	SVOC (EPA 8270)	PAH (EPA 8270)	VOC (EPA 8260)	TPH (EPA 418.1)	TPH (TX-1005)	тРН (ТХ-1006)	GRO (EPA 8015G)	DRO (EPA 8015D)	TDS (EPA 160.1)	Anions/Cations	Totał Metals	TCLP				l			Number of Containers
1	Sample Identification	Matrix	Date	Time	တီပ	ВТ	Σ	S	Ρø	Š.	₽	₽.	Ē	ъ.	ď	β.	Ā	Ŷ	12						_	Ž
Ł	a SE-Wall-1	50;1	5-25-01		4	$\checkmark$						T			1					4	0	5	2	6		1
t	6 SE-Wall-2	Soil	5-2501		C							1			1					Ý	0	5	2	$\left  7 \right $		١
	c_SW-W_11-1	50:1	5-25-01		C							A	1	7	1					4	0	5	2	8		1
[	d SW-Wally	soil	5-25-01		G							A			$\checkmark$					4	0	5	2	9		\$
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Ľ	Project Name: Duke Energy Field	(Services	Total Contain	ers:		Tride	ent E	nviro	nme	ntal												<del></del>				
	Project Location: CC#4		COC Seals:			(Printed Net		il Var	<u>, Dev</u>	enter				i Name)	)					· ·	d Name	)				
	Project Manager: Gil Van Dever	nter	Rec'd Good (	Cond/Cold:	05	(Signat		21	Va	De	X	-	(Signat	ure) -						(Signat	ture)					
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r	Bill to (see below): Duke Energy F	ield Services	1						امز) ل	abo	of Te		21100	ni Dan Vi							110¢11¥	,				
	Special Instructions: Attn: Steve We		* Need	result	h.	(Printed	d Name)						(Printed	Name)	)					(Printe	d Name	)				-
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# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TRIDENT ENVIRONMENTAL ATTN: MR. GILBERT VAN DEVENTER P.O. BOX 7624 MIDLAND, TEXAS 79708 FAX: 682-0727

Sample Type: Soil Sample Condition: Intact/ Iced/ 0.5 deg C Project #: V-106 Project Name: Duke Energy Field Services Project Location: CC#4 Sampling Date: 05/25/01 Receiving Date: 05/25/01 Analysis Date: 05/29/01

			-			GRO	DRO		
	and and a second se				•	C6-C10	>C10-C28	 ,	1
ELT#	FIELD CODE	a da antes da series				mg/kg	mg/kg	 1	
				· · ·		11 A.		· , ·	
40533	Exc. Soil-1		· . ·		2 A.	176	1633	•••••	

	5 A 1		211.012	· · ·
QUALITY CONTROL		51	8	509
TRUE VALUE		50	0	500
% INSTRUMENT ACCURACY		10	7	98
SPIKED AMOUNT	· · · · ·	50	0	500
ORIGINAL SAMPLE	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	<1	.0	<10
SPIKE		54	.3	481
SPIKE DUP		55	2	476
% EXTRACTION ACCURACY		11	4	101
BLANK		<1	.0	<10
RDP	· · · ·	- 2		1.

Methods: EPA SW 846-8015M GRO/DRO

R. J. ck pa

Raland K. Tuttle

5-29-01

Date

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TRIDENT ENVIRONMENTAL ATTN: MR. GILBERT VAN DEVENTER P.O. BOX 7624 MIDLAND, TEXAS 79708 FAX: 682-0727

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		BENZENE	TOLUENE	ETHYLBENZENE	m,p-XYLENE	o-XYLENE
ELT#	FIELD CODE	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
1						
40533	Exc. Soil-1	<0.025	0.528	0.293	0.837	0.467

			· · · · · · · · · · · · · · · · · · ·		
QUALITY CONTROL	0.091	0.088	0.088	0.191	0.092
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% INSTRUMENT ACCURACY	91	88	88	96	92
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	<0.025	<0.025	<0.025	<0.025	<0.025
SPIKE	0.107	0.109	0.107	0.241	0.113
SPIKE DUP	0.097	0.099	0.096	0.214	0.101
% EXTRACTION ACCURACY	97	99	96	107	101
BLANK	<0.025	<0.025	<0.025	< 0.025	<0.025
RPD	10	10	11	12	12

METHODS: EPA SW 846-8021B ,5030

LNK Raland K. Tuttle

5-29-01 Date

12600 West I-20 East • Odessa, Texas 79765 • (915) 563-1800 • Fax (915) 563-1713

<b>T</b> RIDI	<b>K</b>	P.O. Box	7624	-																					4-02
	ENTAL T	Midland (915) G (915) G	, Tx 7 82-0 82-0	9708 808 -0 727 -	offi Fax	¢ و					-					Dai	te_ <u>5</u>	<b>C</b>	<b>h</b> a	ain / ⊧	O age	f C	Cu:	sto	ody
Lab Name	Environm	ental La	6 .+ Te	<u>xas</u>	T									Ar	alys	is Re	eque	est							
Address	:: <u>Environm</u> :: <u>12600</u> :: <u>0 dessa</u> :: <u>915-5</u>	W 1-20 TX 63-180	е. 0		mosite	(1B)	21B)	70)	()	()	()			2G)	5D)	6									
Samplers (SIGNATUR	In his	A	T	Time	Sample Type: G - Grab, C- Composite	TEX (EPA 802	MTBE (EPA 8021B)	SVOC (EPA 8270)	PAH (EPA 8270)	VOC (EPA 8260)	TPH (EPA 418.1)	трн (тх-1005)	ТРН (ТХ-1006)	GRO (EPA 8015G)	DRO (EPA 8015D)	TDS (EPA 160.1)	Anions/Cations	Total Metaks	TCLP Metals						
Exc. Soil		Matrix So()	Date 5-25-01	1345	s o C	$\mathbb{I}$	2	S	<u> </u>	>	F	F	F	و د		F	¥.	μ	1 L	$\mathcal{L}$	0	S	२	3	
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Project Information Sample Receipt			nple Receipt			uisheo mpany							ulshec mpanv							Relinquished By: (3) (Company)					
Project Name: Dyte	Energy Fidd	Serviles	Total Contai	ners:		1		Inviro	onme	ental															
Project Location:	CC#4		COC Seals;			(Printed Name) Gil Van Deventer					(Printed Name) (Print						(Printed	ted Name)							
roject Manager:	Gil Van Deve	nter	Rec'd Good Cond/Cold:			(Signature) Kill com kit (Signature)							(Signature)												
cost Center No.:	V-106		Conforms to Records:			(Date) 5-25-01 (Time) 1645 (D			(Date) (Time) (Date				(Date)	te) (Time)											
Shipping ID No.:	Lap No ·			-	Received By: June monuney Received By: (1) (Company) June (2) (Company)					Received By: Received By: (2) (Company) (3) (Company)															
Bill to (see below):	Duke Energy F	ield Services	1			En	I'ror	nner	Hal	Lab	of 7	×	121100							101100	anv.	,			
Special Instructions: Attn: Steve Weathers				(Printe	d Name	nel	MCN	Jun	rei		(Printed	Name	)					(Printed Name)							
POBox 5493				(Signat	hure)						(Signat	ure)						(Signature)							
Denver, CO 80217				$\begin{array}{c} (\text{Date}) & (\text{Date}) \\ \hline 5 - 25 - 01 & 1645 \\ \end{array} $								(Date) (Time)													

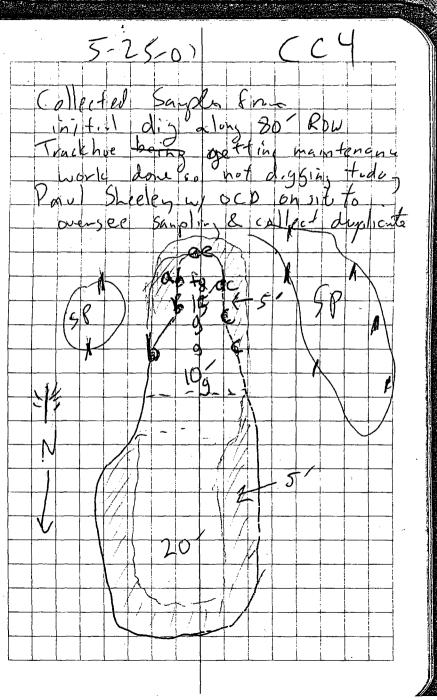
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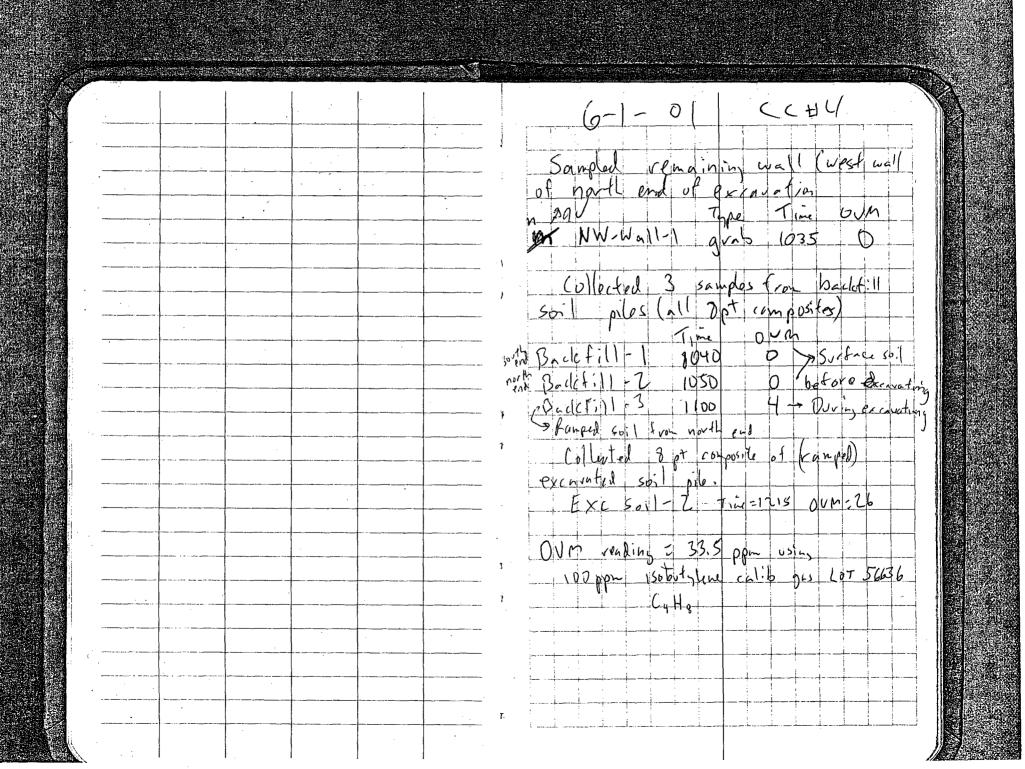
# ATTACHMENT C

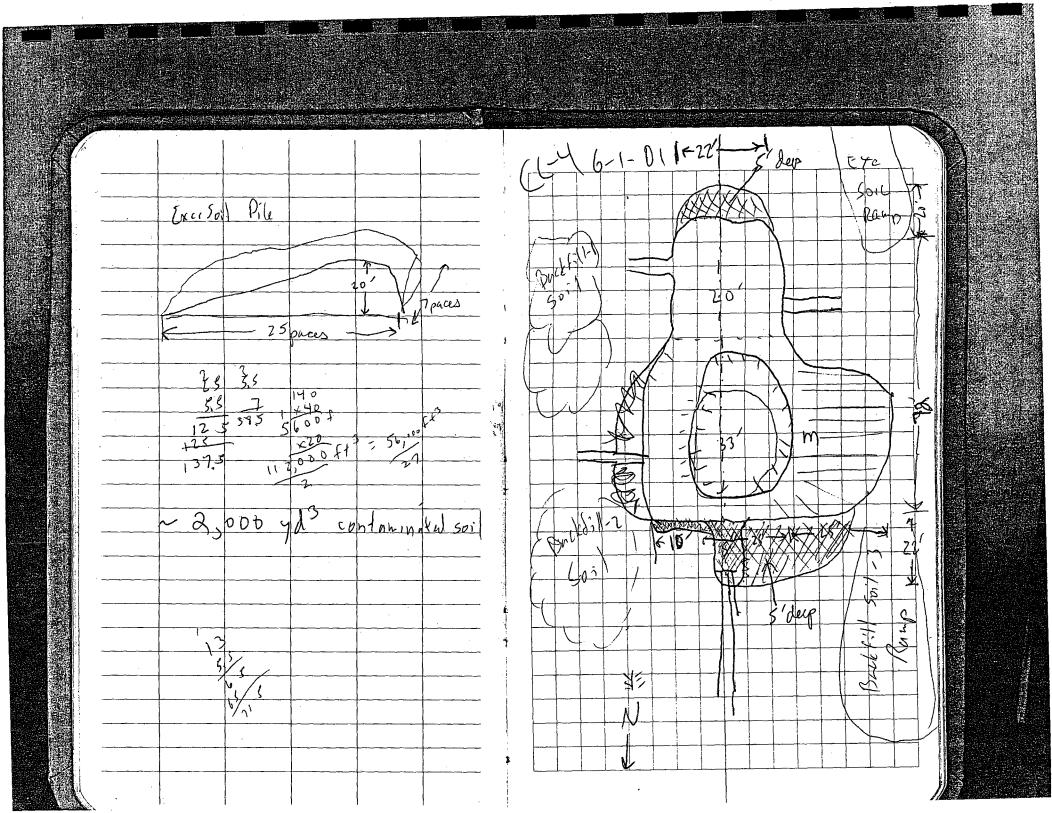
# **FIELD BOOK NOTES**

5-29-0 CC4On site of CCHY to begin excavation, Un site Mike Neagle Walton Conflorethe Martin Robledo - - (Igade-) Equip on site Trackhee Samsung SE210 LC-3 Londer JD 6449 Poul Sheday of NMUCD called to say he's on the way Clay Cooper said he's running late will arrive later Stan Shave plans to come out -9:30 and - Aiscuss re-connecting line. 5-25-01 OVM Time SE-Wall-1 grabs 30 215 SE-Wall-2 conp 1220 C SW-Wall-1 D Comp 1225 SW-W11-2 0 grab 1240 S-Wall-1 Grab 1245 D F S-Floor-1 6 1320 g S-F100r-2 Exc Soil-1 6 1330 Comp 51 1345 Komp



5-31-01 DTL 6/20105 9:30 MST Drive Midland to CCHY maxtand Sor 0700 Sching Choper Do 5 10:30 Collected floor sample at depth of 27' (grad sample directly below leak at Excavation north end of excavation OVM = 83 ppm Equipment on site: -5 Arno 0900 5/31/01 - Al Wall Track are (Mile Neugle) Dur Londer 0 A -N (Whit Lickon) CAT Collected the following grab samples Time 4 N. Floor -1 (271) N-FIJON-1(27) N- -1031-2(33) OUM = 83 (030 5. Floor-3 (20) 11:15 OD SE-Wall-3 11:20 INE wall-T 0,0 N-Floor-2 (33-) 11:40 0,0 NE-Wall-~120 11:55 725-351 010 totatio. N-Wall-1 2:05 0.D form p: petting ho! 05-Floor 95E-Wall-3

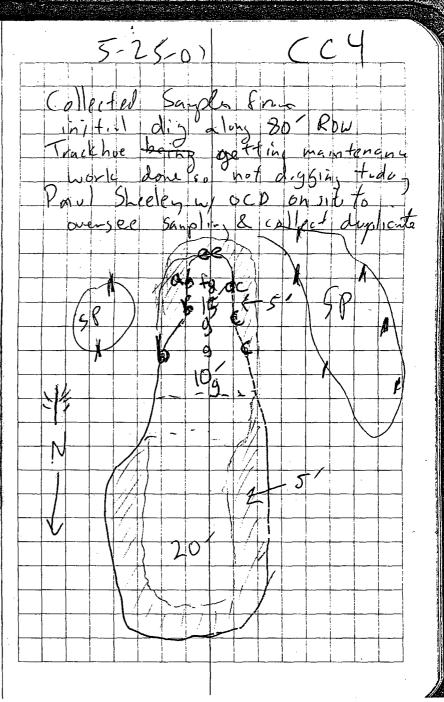




(240) CCHY CCHU 12-5 Spign hawling contantel Confirmed w/ Stere Weathers that all samples were clean stere said it would be alright to S. Monument landton vals (444 to yds) begin backfilling with chan par Mila Neate Sterk said to resauple Backfill - 3 pile 10 to 4 sections NU-wall-16RUK10 DROSCO Also venaved some suspect roil Back A.11-1 210 Cia From this stackple and soil Back A:11-2 210 C/D Bule 611-3 going to lan Kan prior to CID 171 Exc. Spil-2 resamplin Phul Sheele, 4 Not: Fiel NMOCH -the Hubbs init A reads in ere 514 GR - 11 Alour badd filling wall samples wer 4 DU E 100 40/103 ( E10 47/K3 north cases

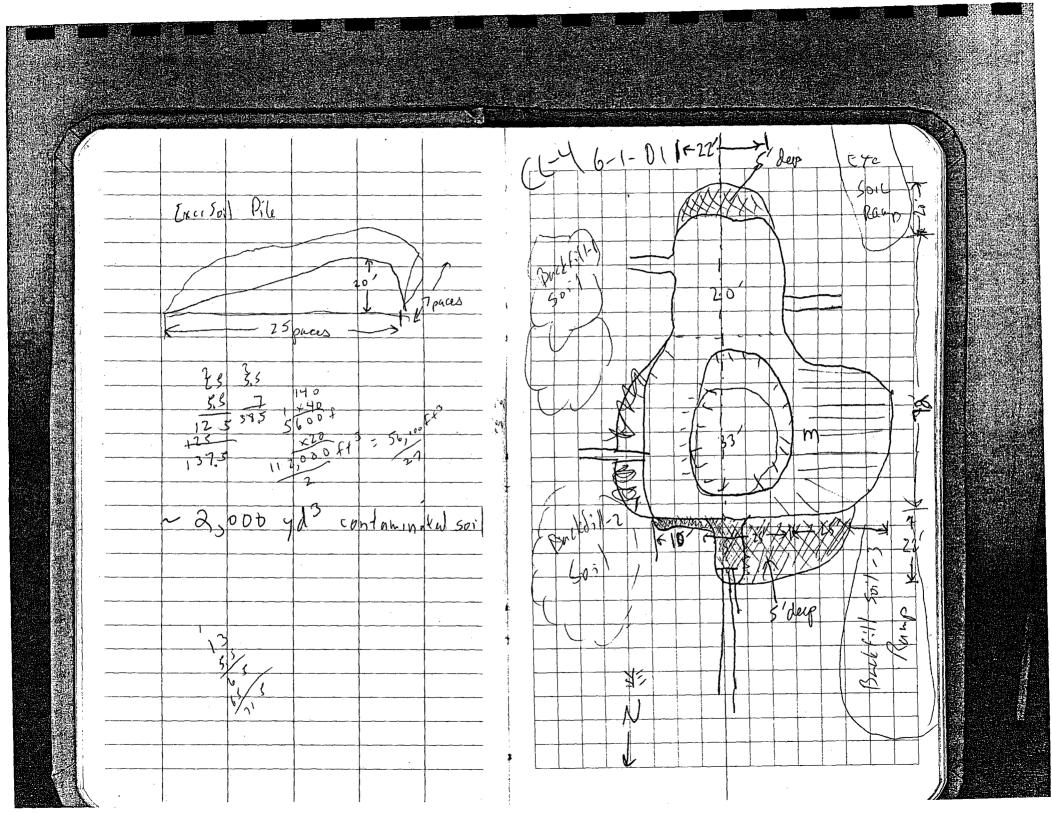
6-6-01 6-6-0 OVM ime CCHY BE-3a 1400 Back on site to oversee hauling & backfilling & resample Backfill-B pile 14 to 4 sections BE-36 BE-30 1410 3 1420 BE-3 1430 Buckfill-3 stac AI1 Buckfill-1 & Backsill-2 stades of were LIU GRO & DRO 30 the ave back in the excavation. Stock pile Segregated approx. 30-40-13 of sort & m Brockfill- 3 as it From from Was taken 320 yd3) 5 B yesterday 650  $\cap$ lond Cell trudes M:16 From a Tocation close to The look aven. Tidin with a duzer & backhoe (loader broke down) dup Invite showed up to at 2 pm spiltron Exc Soil 2 stockni +611 101 4 ~ 300 305 Leff+ - 30 + 0 4 00 1 eff 22 inte site at Vab (Env. Lab of 仑 sumples to 640

5-29-0 C4On site at CCHY to begin excavation, On site Milce Nengle Walton Conflorethe Martin Roblado " ~ (Igade-) Zyvip on site Trackhee Samsung SEZ10 LC-3. Londer JD 6440 Poul Sheday of NMUCD called to say he's on the way Clay Cooper said he's running late will arrive later Stan Shaver plans to come out - 9:30 an to discuss re-connecting line. 5-25-01 Time OVM SE-Wall-1 grab 1215 30 SE-Wall-2 conp 1220 SW-Wall-1 1225 D Comp 52-6-11-2 0 17.40 grab e S-Wall-1 1245 D Corp F S-Floor-1 grab 6 1320 g S-F-100r-2 Exc Soil -1 6 1330 Comp 1345 51. Komp

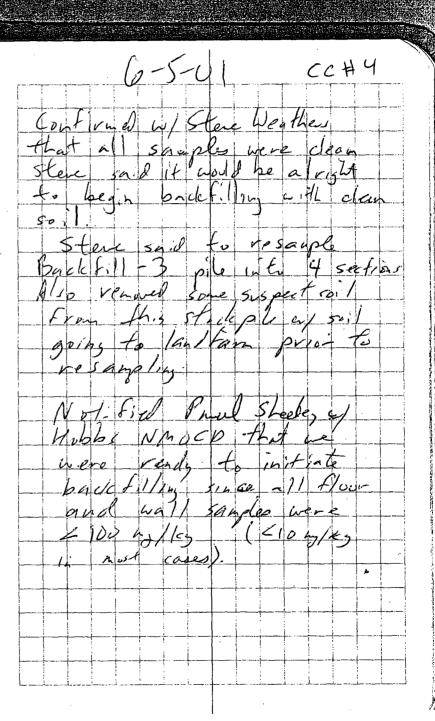


5-31-01 DTL 6120105 Q:20 MST Drive Midland to CCHY matane Sor 0700 Choper No. S 10:30 Jumin & Collected floor sample at depth of 27' (grab sample directly below leak at north end of excavation) OVM = 83 ppm Equipment on site: Track noe (Mike Neugle) Dote-Loade Excavartion - 5 Avrio 0900 5/31/01 2 -N CAT (Whit Liceon) Collected the following grab samples Time 1 N. Floor -1 (271) OUM = 83 N- -1000-1(27) N- -1000-2(33) 1030 5. Floor-3 (20) 11:15 OD SE-Wall-3 11:20 The will-T 0,0 N-Floor-2 (33-) 11:40 0,0 NETWAll-1 11:35 ~120 425-351 010 Dea N-Wall-1 12:05 no. £0 1. pettine 201 5-Floor-SE-Wall-3

		(0-1-01 CCHU
· · ·		
		Samped remaining wall (west wall
		of north and of exportion
		- n 29/ Type Time GUM
· · · · · · · · · · · · · · · · · · ·		191 NW-Wall-1 grab 1035 D
		Collected 3 samples from backet:11
		- Soil piles (all opt compositor)
· · · · · · · · · · · · · · · · · · ·		Time over
		101 Backfill-1 2040 D >Surface soil
		north Badletill - Z 1050 0 before decaration
		- Decletin1 -3 1100 4 + During exclusion
· · · · · · · · · · · · · · · · · · ·		> fanged soil tron north end
		- Collepted 3 pt corposite of (canped)
		- exeminitive soil pile:
		- Exc Soil - 2 - Time=1215 OUM:26
		OVM reading = 33.5 ppm using
		100 ppm 150 but fine chlib pis Lot 56636
· · · · · · · · · · · · · · · · · · ·		
·	+	
		J.



1240 CCHU Deizin hawling conformited to S. Monument landbar 7 loads (444 to yds) 31 par Mila Neate NU-wall-16ROKID DRO -62 Bade A.11-1 410 Cid Bade 4:11-2 40 < ID Bule 611.3 CIO 171 Exc. 50;1-2



6-6-0 10-6-01 Time οV CCDY BF-3a 1400 Back on site to oversee hauling & backfilling & resample Backfill-B pile 19to 4 section BF-30 BF-30 MID 2 1420 4 sections BE-3d 1430 All Got carpostes of Buckfill-3 stock pi Buckfill-1 & Backfill-2 students were CID GRO 6000 30 the ave back in the excavetion. stock pile 320 yd3) 5 B yesterday 650/ Segregated approx. 30-40-13 of son From Brockfill- 3 as it only 0 Cell From Was token trudes) M:16 l~ Fran a Tocation close to The track aven, T. din Jost & dozer & backhoe Gloader broke down duip trulle showed up to at 2 min spil tron Exc Soil -2 stockgile Ho 4611 ١٥٢ Ĩ, (~ 300 , d3 to 400 ft site at 2 left+ 22 inte 2 mm MST to VUSL Vob (Env. Lab of site at sumples to 1× 660