**Clay Cooper #13 Closure Report Duke Energy Field Services Lea County, New Mexico** 

#### SEPTÉMBER 9, 2002

**Prepared For:** 

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

1RP-206 10-24.05

Site Name:

## **CLAY COOPER #13 (CC#13)**

Site Location:

## T20S, R36 E, SECTION 25, UNIT D

**Prepared By:** 

RIDE ENVIRONMENT

PO Box 7624 Midland, Texas 79708



## NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON Governor Betty Rivera Cabinet Secretary Lori Wrotenbery Director Oil Conservation Division

October 23, 2002

Duke Energy Field Services, LP (DEFS) Attn: Stephen Weathers POB 5493 Denver, CO 80217

Re: Spill Site Closure Approval for Duke Energy Field Services, LP Clay Cooper #9: UL-A, Sec 25-T20S-R36E. Dated: May 14, 2002 Clay Cooper #10: UL-A, Sec 26-T20S-R36E. Dated: may 20, 2002 Clay Cooper #12: UL-D, Sec 25-T20S-R36E. Dated: September 30, 2002 Clay Cooper #13: UL-D, Sec 25-T20S-R36E. Dated: September 9, 2002

Dear Mr. Weathers,

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

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 write or call: (505) 393-6161, ext. 113, or e-mail: <u>psheeeley@state.nm.us</u>

Sincerely,

m blen

Paul Sheeley-Environmental Engineer Cc: Roger Anderson - Environmental Bureau Chief Chris Williams - District I Supervisor William Olson - OCD Hydrologist Larry Johnson - Environmental Engineer



September 9, 2002

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

Re: Removal of Hydrocarbon-Impacted Soils from the CC #13 site Township 20 South, Range 36 East, Section 25, Unit D

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 #13) is located in Section 25 (Unit D), Township 20) (South, Range 36 East on property owned by Dale Cooper and managed by Clay Cooper. The location of the CC #13 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. 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 only for the soil samples with OVM, GRO, or DRO concentrations exceeding 100 ppm.

Mr. Steve Weathers September 9, 2002 Page 2 of 2

#### 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.

#### 2628

Approximately 876 cubic yards of hydrocarbon-impacted soils were transported by Walton Construction to cell C-5 at the South Monument Landfarm, which is owned and operated by Ms. Kena Kay Cooper (OCD Rule 711 Permit Approval NM-01-0032). A completed Release Notification and Corrective Action (C-141) form is 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 are depicted on the Site Map in Attachment A. 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.

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Gilbert J. Van Deventer, REM **Project Manager** 

Attachments

cc: Clay Cooper, landowner - Hobbs, NM

C:DEFS\COOPER\CC13\CC10CLOSE.DOC

# ATTACHMENT A

**TOPOGRAPHIC MAP** 

# SITE MAP

# SITE DATA FORM

## C-141 FORM

PHOTODOCUMENTATION





TRIDEN	Г		<b>C:4</b>	a Date	Form				
The state of the s					a Forn				<u> </u>
Trident Technician: <u>I</u>	$\underline{JIL}$ EX	cavation Cre	w names:	walton Co	onstruction	Sit	e ID: <u> </u>	ay Cooper # 15	
Site Location: Latitude	32° 33'	<u>5.0" N</u> Lo	ngitude _	/ 103° 18	3' 52.6" W	County:	Lea_	State: <u>New</u>	Mexico
Township 20 Sou	th	Range	36 E	ast	_ Section	25	Uni	t D	
Begin Excavation (Date/	Time)	07/17/02	2	Complete E	xcavation (	Date/Time)	07/25	/02	
LAND USE: (Check all that apply)	🗆 Inc	sidential lustrial l & Gas		l Recreatio l School/D l Rural			□ Farm la ■ Range l □ Other:		
Depth to Groundwater: Wellhead Protection Are Distance to Nearest Surf:	a: ■ > :	1,000 feet fro	m a water	source	□ < 200 f			stic water source	<u></u>
SURFACE SOILS:	■ Sai □ Ca	nd liche		Gravel Clay		□ Silt ■ Other	<u>Si</u>	lty clay at depth	
EXCAVATION DIMENSIONS		Length 40	feet	Wida 50	h feet	Average	-	Maximum 1 20	-
VOLUME EXCAVAT	ED:	<u>1,600</u> yo	1 <sup>3</sup>	VOLUM	E HAULE	D TO LAN	DFARM:	876	<u>5</u> yd <sup>3</sup>
	Ч	.900' SUM	MARY OI	F ANALYI	FICAL RE	SULTS			
Sample ID	Sample Type	Date	OVM (mg/m <sup>3</sup> )	GRO (mg/kg)	DRO (mg/kg)	Benzene (mg/m <sup>3</sup> )	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
A) N. Floor-1 (5.5')	Grab	07-18-02	59	1720	4270	< 0.025	0.169	1.77	0.766
B) SE Floor-1 (4')	Grab	07-18-02	13	742	3770				
C) SE Floor-2 (15')	Grab	07-19-02	14	35.6	84.3	< 0.025	< 0.025	< 0.025	< 0.025
D) N. Floor-2 (8')	Grab	07-19-02	1	< 10	16.0			<b></b>	
E) E. Wall-1 (10')	Grab	07-19-02	1	< 10	16.1				
F) W. Wall-1 (12')	Grab	07-19-02	3	< 10	< 10				
G) S. Wall-1 (12')	Grab	07-19-02	75	1650	2040				
H) N. Wall-1 (6')	Grab	07-19-02	1	< 10	12.8				
I) SE Floor-3 (20')	Grab	07-24-02	0	< 10	< 10				
J) EXSE Floor-3 (10')	Grab	07-24-02	0	< 10	< 10			、	
K) S. Wall-2 (12')	Grab	07-24-02	0	< 10	< 10			***	
Stockpile-1 (land farm)	Comp	07-18-02	15	895	4990	< 0.025	< 0.025	< 0.025	< 0.025
Backfill	Comp	07-19-02	0	< 10	*10				
Note: The south wall and fle floor samples.	oor was exc	avated further	until conce	ntrations we	re below OC	D guidelines	s as confirme	ed by subsequent w	vall and

.

Release I	Notification a	and Cor	rective Actio	)n	
	OPERA	TOR	[	Initial R	eport 🗾 Final Report
Name of Company Duke Energy Field Services Inc		Contact	Мг	Steve Weath	hers
Address	P	Telephon		Steve weath	
P. O. Box 5493, Denver, Colorado 8	80217	<b>T</b>		03) 605-171	8
Facility Name Site Name: CC #13		Facility T		ral Gas Pipe	line
Surface Owner	Mineral Owner	· · · · · · · · · · · · · · · · · · ·		<u>&amp;</u>	ase No.
Dale Cooper		Unkne	own		
	LOCATION (	OF RELI	ASE		
Unit Letter Section Township Range Fee		South Line	Feet from the	East/West Li	ine County
D 25 208 36E	32° 3	3' 5.0" N	1	03° 18' 52.6'	"W Lea
	NATURE		CE		
Type of Release	NATURE O	Volume of		Vo	blume Recovered
Condensate			Unknown		876 yd <sup>3</sup> soil removed
Pipeline			our of Occurrence Unknown		Date and Hour of Discovery Unknown
Was Immediate Notice Given?	Not Required	If YES, To Whom? Larry Johnson, NMOCD District 1			
By Whom?		Date and Hour			
Steve Weathers Was a Watercourse Reached?				117-4	
Yes Was a watercourse Reached?		If YES, VO N/A	lume Impacting the	watercourse	3.
If a Watercourse was Impacted, Describe Fully.*		L			
I N/A					
Describe Cause of Problem and Remedial Action Tak	en.*				
Historical condensate release caused by subsurface ex	ternal corrosion. Re	moval of imi	acted soil requested	d by landown	er (Clay Cooper).
			·····		(eu) (copu).
Describe Area Affected and Cleanup Action Taken.*					······
On 07/17/02 over-excavation was initiated. Excavation approx. 40 ft wide by 50 ft long. Approximately 876	on continued until 07 cu vds of soil was tra	/24/02. The	excavation was rela	atively shallow	w (3 ft to 20 ft) and measured Land Farm Backfilling of
excavation was completed on 07/25/02. Closure report	t, analytical results,	photographs	, and site map are a	ttached.	-
I hereby certify that the information given above is tru and regulations all operators are required to report an	e and complete to the d/or file certain relea	e best of my ase notificati	knowledge and uncons and perform con	lerstand that rective action	pursuant to NMOCD rules ns for releases which may
endanger public health or the environment. The accept of liability should their operations have failed to adeq	otance of a C-141 rep	ort by the NI	MOCD marked as "	Final Report"	does not relieve the operator
water, human health or the environment. In addition,	NMOCD acceptance	e of a C-141	report does not reli	eve the opera	to ground water, surface
compliance with any other federal, state, or local laws	s and/or regulations.		OIL CONSER	VATION	IDIVISION
Simpler fort			<u>OIL CONSE</u>	<u>VATION</u>	DIVISION
Signature:		Approved l District Su			
Printed Name: Stephen Weathers					
Title: Environmental Specialist		Approval I	late:	Expira	ation Date:
Date: 10/2/02 Phone: (30	03) 605-1718	Conditions	of Approval:		Attached
* Attach Additional Sheets If Necessary			3102 clos		



View facing east showing hydrocarbon-stained soil between the out of service pipeline (right) and in service (left). Drip pot has been removed as shown in background (07-18-02).



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View facing southeast showing east and south walls at completion of excavation activities (07-24-02).



3 View facing west showing west wall at completion of excavation activities (07-24-02).



4 View facing north showing excavation at completion (07-24-02).

# ATTACHMENT B

# LABORATORY ANALYTICAL REPORTS AND

# CHAIN-OF-CUSTODY DOCUMENTATION

# CC#13 (1)

# ANALYTICAL REPORT

## **Prepared for:**

GILBERT VAN DEVENTER TRIDENT ENVIRONMENTAL P.O. BOX 7624 MIDLAND, TX 79708

**Project:** 

 Order#:
 G0203967

 Report Date:
 07/23/2002

<u>Certificates</u> US EPA Laboratory Code TX00158

## ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

TRIDENT ENVIRONMENTAL	Order#:	G0203967
P.O. BOX 7624		V-106
MIDLAND, TX 79708	Project Name:	Duke Energy Field Services None-Given CC 413
682-0727	Location:	None Given CC 413

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

Lab ID:	Sample : Floor-2 SE (15')	<u>Matrix:</u> SOIL		Date / Time <u>Collected</u> 7/19/02		ate / Time <u>Received</u> 7/19/02	Container 4 oz Glass	Preservative
0203967-01		Rejected:	No	8:10		13:21 0.5C	4 02 Class	ite
	<u>b Testing:</u> 8015M 8021B/5030 BTEX	Kejecieu.			emp:	0.50		
0203967-02	Floor-2 N (8')	SOIL		7/19/02 8:15		7/19/02 13:21	4 oz Glass	Ice
<u>La</u>	<u>b Testing:</u> 8015M	Rejected:	No	Te	emp:	0.5C		
0203967-03	East-1 (10')	SOIL		7/19/02 8:20		7/19/02 13:21	4 oz Glass	Ice
	<u>b Testing:</u> 8015M	Rejected:	No	Te	emp:	0.5C		
0203967-04	West-1 (12')	SOIL		7/19/02 8:25		7/19/02 13:21	4 oz Glass	Ice
Lai	<u>b Testing:</u> 8015M	Rejected:	No	Te	emp:	0.5C		
0203967-05	South-1 (12')	SOIL		7/19/02 8:30		7/19/02 13:21	4 oz Glass	Ice
<u>Lai</u>	<u>b Testing:</u> 8015M 8021B/5030 BTEX	Rejected:	No	Te	mp:	0.5C		
0203967-06	North-1 (6')	SOIL		7/19/02 8:35		7/19/02 13:21	4 oz Glass	Ice
<u>Lal</u>	<u>b Testing:</u> 8015M	Rejected:	No	Te	mp:	0.5C		
0203967-07	Backfill	SOIL		7/19/02 8:40		7/19/02 13:21	4 oz Giass	Ice
Lal	<u>b Testing:</u> 8015M	Rejected:	No	Te	mp:	0.5C		

## ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

Order#:

**Project:** 

Project Name: Location: G0203967

None Given

#### GILBERT VAN DEVENTER TRIDENT ENVIRONMENTAL

P.O. BOX 7624 MIDLAND, TX 79708

Lab ID: Sample ID:

0203967-01 Floor-2 SE (15')

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Anałyzed</u> 7/22/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	<u>Method</u> 8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	35.6	10.0
DRO, >C12-C35	84.3	10.0
TOTAL, C6-C35	120	10.0

#### 8021B/5030 BTEX

Method Blank	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	<u>Analyst</u>	Method
0002491-02		7/22/02	1	25	СК	8021B
		18:47				

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: Sample ID: 0203967-02 Floor-2 N (8')

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 7/22/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	<u>Method</u> 8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	16.0	10.0
TOTAL, C6-C35	16.0	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 4

## ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

······································	
GILBERT VAN DEVENTER	Order#: G0203967
TRIDENT ENVIRONMENTAL	Project:
P.O. BOX 7624	Project Name:
MIDLAND, TX 79708	Location: None Given

Lab ID:
Sample ID:

0203967-03 East- 1 (10')

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Anaiyzed</u> 7/22/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	<u>Method</u> 8015M
	Parameter		Resu		RL	
C	GRO, C6-C12		<10	.0	10.0	
I	DRO, >C12-C35		16.	1	10.0	
1	TOTAL, C6-C35	1	16.	1	10.0	

Lab ID: 02 Sample ID: We

0203967-04 West-1 (12')

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 7/22/02	8015M Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	Method 8015M
	Parameter		Result mg/kg	;	RL	
	GRO, C6-C12		<10.0		10.0	
	DRO, >C12-C35		<10.0		10.0	
	TOTAL, C6-C35		<10.0		10.0	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

# ENVIRONMENTAL LAB OF TEXAS

GILBERT VAN I TRIDENT ENVI P.O. BOX 7624 MIDLAND, TX	RONMENTAL			Order#: Project: Project Name Location:	G0203 : None (		
Lab ID: Sample ID:	0203967-05 South-1 (12')						
				8015M			
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 7/22/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 5	<u>Analyst</u> CK	Method 8015M
		Parameter		Result mg/kg		RL	
		GRO, C6-C12		1650		50.0	
		DRO, >C12-C35		2040		50.0	
		TOTAL, C6-C35		3690		50.0	
			8021B	x/5030 BTEX			
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	<u>Analyst</u>	Method
		Prepared		-		<u>Analyst</u> CK	<u>Method</u> 8021B
	Blank	Prepared	<u>Analyzed</u> 7/23/02	Amount	<u>Factor</u> 25		
	Blank	Prepared	<u>Analyzed</u> 7/23/02	Amount 1 Result	Factor 25	CK RL 0.025	
	Blank	Prepared Parameter Benzene Ethylbenzene	<u>Analyzed</u> 7/23/02	Amount 1 Result mg/kg <0.025 0.052	Factor 25	CK RL 0.025 0.025	
	Blank	Prepared Parameter Benzene Ethylbenzene Toluene	<u>Analyzed</u> 7/23/02	Amount 1 Result mg/kg <0.025 0.052 <0.025	Factor 25	CK RL 0.025 0.025 0.025	
	Blank	Prepared Parameter Benzene Ethylbenzene	<u>Analyzed</u> 7/23/02	Amount 1 Result mg/kg <0.025 0.052	Factor 25	CK RL 0.025 0.025	

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 7/22/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	<u>Method</u> 8015M
Γ	Parameter		Resi		RL	

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	12.8	10.0
TOTAL, C6-C35	12.8	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

## ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

GILBERT VAN DEVENTER	Order#:	G0203967
TRIDENT ENVIRONMENTAL	Project:	
P.O. BOX 7624	<b>Project Name:</b>	
MIDLAND, TX 79708	Location:	None Given

Lab ID: Sample ID:	0203967-07 Backfill						
				8015M			
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 7/22/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	Method 8015M
		Parameter		Rest mg/l		RL	

GRO, C6-C12

DRO, >C12-C35

<10.0

10.0

Approval: <u>KOMM ON Jeccos</u> Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

10.0

10.0

7-23-02

Date

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

## ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

### 8015M

Order#: G0203967

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0002477-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0203967-01	120	952	1200	113.4%	. · · · · · · · · · · · · · · · · · · ·
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0203967-01	120	952	1170	110.3%	2.5%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	• RPD
TOTAL, C6-C35-mg/kg		0002477-05		1000	1170	117.%	

## ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT 8021B/5030 BTEX

Order#: G0203967

BLANK	DIL LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0002491-02			<0.025		
Ethylbenzene-mg/kg	0002491-02			<0.025		
Toluene-mg/kg	0002491-02			<0.025		,
p/m-Xylene-mg/kg	0002491-02			<0.025		
o-Xylene-mg/kg	0002491-02			<0.025		
MS sc	DIL LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0203965-04	0	0.1	0.099	99.%	
Ethylbenzene-mg/kg	0203965-04	0	0.1	0.104	104.%	
Foluene-mg/kg	0203965-04	0	0.1	0.103	103.%	
p/m-Xylene-mg/kg	0203965-04	0	0.2	0.219	109.5%	
o-Xylene-mg/kg	0203965-04	0	0.1	0.104	104.%	
MSD sc	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0203965-04	0	0.1	0.100	100.%	1.%
Ethylbenzene-mg/kg	0203965-04	0	0.1	0.104	104.%	0.%
Foluene-mg/kg	0203965-04	0	0.1	0.103	103.%	0.%
p/m-Xylene-mg/kg	0203965-04	0	0.2	0.216	108.%	1.4%
o-Xylene-mg/kg	0203965-04	0	0.1	0.103	103.%	1.%
SRM so	IL LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0002491-05		0.1	0.104	104.%	
Ethylbenzene-mg/kg	0002491-05		0.1	0.109	109.%	
Foluene-mg/kg	0002491-05		0.1	0.107	107.%	
o/m-Xylene-mg/kg	0002491-05		0.2	0.227	113.5%	
-Xylene-mg/kg	0002491-05	·····	0.1	0.107	107.%	

DR0/GR0 > 100

K nen U

# V-106-CC13-02



**Trident Environmental** P.O. Box 7624 Midland, Texas 79708 (915) 682-0808 (915) 689-4578 (Fax)

## Chain of Custody

Date 7-14-52 Page \_\_\_\_\_ of \_\_\_\_

		ab Name: Environmental Lab of Texas, Inc.				Γ	Analysis Request																				
	Address	: 12600 West I-													1	3											
	Telephone	Odessa, TX 7 (915) 563-180	the second s	Fax: (915)	563-1713	omposite	1B)	21B)	(0)	0	(	(			$\sim$	$\dot{\sim}$	-										Containers
	Samplers (SIGNATUR	ES) Dal	Thu	tysh		Sample Type: G - Grab, C- Co		MTBE (EPA 8021B)	SVOC (EPA 8270)	PAH (EPA 8270)	VOC (EPA 8260)	TPH (EPA 418.1)	трн (тх-1005)	гРН (ТХ-1006)	GRO (EPA 8015G)	DRO (EPA 8015D)	TDS (EPA 160.1)	Anions/Cations	Totai Metais	TCLP Metals							Number of Col
7	Sample Ide	ntification	Matrix	Date	Time	o Sar	BTE	Ξ	svo	PA	ŏ >	μŢ	뵤	ם	ğ	DRC	ğ	Anic	Tota	1 C							Nur
91	Floor - 2	SE (15)	Seil	7/14/02	0810	6	$\swarrow$								マ	V											)
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do	North-1	(6')	1 \	<u>т.</u>	0835	6-									レ	イ											١
57	Backsill	<u>`</u>	: . 	15	0840	<u>C</u>									v	レ											١
	Pro	ject Information		Sam	nple Receipt			quishec ompany							(uished mpany)						Relinq (3) (Co	uished mpanv					
1	Project Name:	Duke Energy Fi	ield Services	Total Contai	ners:	<u> </u>	Trid		Inviro																		
	Project Location:	CC#13		COC Seals:			(Printed Ne		101		++(	hينز>	. <b>n</b>		d Name)	)					•	d Name	)				
	Project Manager:	Gil Van Deven	nter	Rec'd Good	Cond/Cold:	0.5	(Signal	· · ~	<u>کد</u>	LT	Lo	ttě.	Jr.								(Signat	ture)					
	Cost Center No.:	V-106		Conforms to	Records:		(Date)		a/c:	<u>ະ</u> "	'ime)	235		(Date)			·ت)	ime)			(Date)			n	lime)		
5	Shipping ID No.:			Lab No.:				ved By ompany							ved By: mpany)		,					ved By mpany					
	Bill to (see below):	Duke Energy Fi					E	<u>20</u>	<u> &gt;·</u>							-											
5	Special Instructions:	Attn: Steve Wea	athers				(Printe	d Name Kc	lar	nd l	< 7	tHI.			d Name)	)						1 Name	)				
		POBox 5493					(Signa)	$\mathcal{R}$	nl.	.d/	k1-	mì		(Signat	ture)						(Signat	ure)					
		Denver, CO 802	217				(Date)	7-19	1.02	<u>п</u>	ime)	12	35	(Date)			(TI	me)			(Date)			П	lime)		

need Non day

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# CCH(3 (3)

# ANALYTICAL REPORT

## **Prepared for:**

GILBERT VAN DEVENTER TRIDENT ENVIRONMENTAL P.O. BOX 7624 MIDLAND, TX 79708

Project:Duke Energy Field ServicesOrder#:G0203993Report Date:07/25/2002

<u>Certificates</u> US EPA Laboratory Code TX00158

## ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

TRIDENT ENVIRONMENTAL	Order#:	G0203993
P.O. BOX 7624	Project:	V-106
MIDLAND, TX 79708	Project Name:	Duke Energy Field Services
682-0727	Location:	CC #13

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u> 0203993-01 <u>Lat</u>	<u>Sample :</u> Floor-3 SE 20' <u>5 <i>Testing:</i></u> 8015M	<u>Matrix:</u> SOIL Rejected:	No	Date / Time <u>Collected</u> 7/24/02 9:30 Ten	Date / Time <u>Received</u> 7/24/02 12:15 ap: 3.0 C	Container 4 oz głass	Preservative Ice
0203993-02	Floor-3 EXSE 10'	SOIL		7/24/02 9:40	7/24/02 12:15	4 oz glass	Ice
Lal	<u>b Testing:</u> 8015M	Rejected:	No	9.40 Ten			
0203993-03	South Wall-2 12'	SOIL		7/24/02 9:50	7/24/02 12:15	4 oz glass	Ice
	9 <i>Testing:</i> 8015M	Rejected:	No	Tem	ир: 3.0 C		

## **ENVIRONMENTAL LAB OF TEXAS** ANALYTICAL REPORT

GILBERT VAN DEVENTER	Order#:	G0203993
TRIDENT ENVIRONMENTAL	Project:	V-106
P.O. BOX 7624	Project Name:	Duke Energy Field Services
MIDLAND, TX 79708	Location:	CC #13

Lab ID: Sample ID: 0203993-01 Floor-3 SE 20'

			801:	5M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date Analyzed		Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
	7/24/02	7/24/02		1	1	CK	8015M
	Parameter			Resul mg/kg	-	RL	
	GRO, C6-C12			<10.0		10.0	
	DRO, >C12-C35			<10.0		10.0	

<10.0

10.0

#### Lab ID: 0203993-02 Sample ID:

Floor-3 EXSE 10'

TOTAL, C6-C35

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u> 7/24/02	Date <u>Analyzed</u> 7/24/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	<u>Method</u> 8015M
	Parameter		Resu mg/k	1	RL	
	GRO, C6-C12		<10.0	0	10.0	
	DRO, >C12-C35		<10.0	0	10.0 ·	
	TOTAL, C6-C35		<10.	0	10.0	

#### N/A = Not Applicable RL = Reporting Limit

## **ENVIRONMENTAL LAB OF TEXAS** ANALYTICAL REPORT

GILBERT VAN DEVENTER TRIDENT ENVIRONMENTAL P.O. BOX 7624 MIDLAND, TX 79708					
		Project Name:	Duke Energy Field Services		
		Location:	CC #13		
Lab ID:	0203993-03				
Sample ID:	South Wall-2 12'				
		001816			

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u> 7/24/02	Date <u>Analyzed</u> 7/24/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	Method 8015M
	Parameter		Result mg/kg		RL	
	GRO, C6-C12		<10.0		10.0	
	DRO, >C12-C35		<10.0		10.0	
	TOTAL, C6-C35		<10.0		10.0	

Approval: and Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

7-25-02 Date

N/A = Not Applicable RL = Reporting Limit

Page 2 of 2

ENVIRONMENTAL LAB OF TEXAS I, LTD. 12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

# ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

### 8015M

Order#: G0203993

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0002530-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0203993-01	0	909	808	88.9%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0203993-01	0	909	815	89.7%	0.9%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0002530-05		1000	842	84.2%	

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Need by first thing 7/25 AM.

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# CC 13 (1)

# ANALYTICAL REPORT

## **Prepared for:**

3

GILBERT VAN DEVENTER TRIDENT ENVIRONMENTAL P.O. BOX 7624 MIDLAND, TX 79708

Project:Duke Energy Field ServicsOrder#:G0203953Report Date:07/23/2002

<u>Certificates</u> US EPA Laboratory Code TX00158

## ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

TRIDENT ENVIRONMENTAL P.O. BOX 7624 MIDLAND, TX 79708

682-0727

Order#: G0203953 Project: Project Name: Duke Energy Field Servics Location: CC #13

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u> 0203953-01 <u>La</u>	Sample : Floor-1 (5.5') b Testing:	<u>Matrix:</u> SOIL Rejected:		Date / Time <u>Collected</u> 7/18/02 7:20 Temp	Date / Time <u>Received</u> 7/18/02 9:04 -1 C	Container 4 oz glass	Preservative Ice
	8015M 8021B/5030 BTEX			-			
0203953-02	SE Floor-1 (4')	SOIL		7/18/02 7:30	7/18/02 9:04	4 oz glass	lce
	<u>b Testing:</u> 8015M	Rejected:	No	Temp	: -1 C		
0203953-03	Stockpile-1	SOIL		7/18/02 7:40	7/18/02 9:04	4 oz glass	Ice
	<u>b Testing:</u> 8015M 8021B/5030 BTEX	Rejected:	No	Тетр	: -1 C		

## ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

GILBERT VAN DEVENTER TRIDENT ENVIRONMENTAL	Order#: Project:	G0203953
P.O. BOX 7624	<b>Project Name:</b>	Duke Energy Field Servics
MIDLAND, TX 79708	Location:	CC #13

Lab ID: Sample ID: 0203953-01 Floor-1 (5.5')

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 7/19/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 5	<u>Analyst</u> CK	<u>Method</u> 8015M
	Parameter		Result mg/kg		RL	
	GRO, C6-C12		1720		50.0	
	DRO, >C12-C35		4270		50.0	
	TOTAL, C6-C35		5990		50.0	

#### 8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0002491-02		7/23/02	1	25	СК	8021B
		9:46				

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	1.77	0.025
Toluene	0.169	0.025
p/m-Xylene	0.660	0.025
o-Xylene	0.106	0.025

#### Lab ID: Sample ID:

0203953-02 SE Floor-1 (4')

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 7/19/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 10	<u>Analyst</u> CK	<u>Method</u> 8015M
	Parameter		Res mg/		RL	

Parameter	Result mg/kg	RL	
GRO, C6-C12	742	100	
DRO, >C12-C35	3770	100	
TOTAL, C6-C35	4512	100	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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## ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

Order#:

**Project:** 

Location:

Project Name:

G0203953

CC #13

**Duke Energy Field Servics** 

#### GILBERT VAN DEVENTER TRIDENT ENVIRONMENTAL P.O. BOX 7624 MIDLAND, TX 79708

MIDLAND, 1X 79708

Lab ID: Sample ID: 0203953-03 Stockpile-1

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 7/19/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 10	<u>Analyst</u> CK	<u>Method</u> 8015M
	Parameter		Resul mg/kg		RL	
	GRO, C6-C12		895		100	
	DRO, >C12-C35		4990		100	
	TOTAL, C6-C35		5885		100	

#### 8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	<u>Analyst</u>	Method
0002491-02		7/23/02 10:53	1	25	СК	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Approval: Kalandt Juli 7-23-02 Date

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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Page 2 of 2

# ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

### 8015M

Order#: G0203953

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0002473-02			<10.0		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0002473-03		952	927	97.4%	
CONTROL DUP	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0002473-04		952	978	102.7%	5.4%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0002473-05		1000	1090	109.%	

## ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT 8021B/5030 BTEX Ord

Order#: G0203953

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0002491-02			<0.025		
Ethylbenzene-mg/kg	<u> </u>	0002491-02			<0.025		
Toluene-mg/kg		0002491-02			<0.025	T	<u></u>
p/m-Xylene-mg/kg		0002491-02			<0.025		
o-Xylene-mg/kg		0002491-02		+	<0.025		,
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0203965-04	0	0.1	0.099	99.%	
Ethylbenzene-mg/kg		0203965-04	0	0.1	0.104	104.%	
Toluene-mg/kg		0203965-04	0	0.1	0.103	103.%	····
p/m-Xylene-mg/kg		0203965-04	0	0.2	0.219	109.5%	
o-Xylene-mg/kg		0203965-04	0	0.1	0.104	104.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0203965-04	0	0.1	0.100	100.%	1.%
Ethylbenzene-mg/kg		0203965-04	0	0.1	0.104	104.%	0.%
Toluene-mg/kg		0203965-04	0	0.1	0.103	103.%	0.%
p/m-Xylene-mg/kg		0203965-04	0	0.2	0.216	108.%	1.4%
o-Xylene-mg/kg		0203965-04	0	0.1	0.103	103.%	1.%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0002491-05		0.1	0.104	104.%	
Ethylbenzene-mg/kg	<u></u>	0002491-05		0.1	0.109	109.%	
Toluene-mg/kg		0002491-05		0.1	0.107	107.%	
p/m-Xylene-mg/kg		0002491-05		0.2	0.227	113.5%	
o-Xylene-mg/kg		0002491-05		0.1	0.107	107.%	



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# ATTACHMENT C

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I

FIELD BOOK NOTES

7/14/02 Field Screening









6-20-02 cc-n 6/18 25 londs harded to C-5 backfillal 6/19 ~ 20 loads handal h.(-5 6/20 Mesly will repair Tuffy's road with 18 louis of aliche 6-25-02 Received call from Roy with Following information: > 45 loads total contaminated soil haved to cell C-S at land form · 16 loads calido hauled in to repair Tuffy's road/drive · Danaged aren 30'x150' + 120'×175' 120' 150" 175'



and a stand of the second second and a second se

7/18/02 DTL 1250 - league Ethindise Site Son Junch, (100 mi) 1340 - leave Junch for CC-13 1355 - Arnue at CC-13, strous HC Gase in South wall, OCD (Larry) arrived there Dit looked at CC-14 (Photos) Will return Friday Mornins to sample (8:00 MT) Leave CC-13, travel. 1440 to Ethnice Ranch to help John 130 1455 Arrive at Eldridge Runch M Travel from Eldvidge to 1949 H-565 2010 Arvive in Hobbs 7/19/02 0715 leave Hobbs for ((-13 0755 Avrive ( - 13 - ( 21 mi fun Hobbs) Rained Yesterday /last hight pit muldy, but up standing Wath



ledate fan gebruiker de sterne in de sterne. Referingen

(F) DTC 7/24/02 7/19/02 (5)ATL Laboratory Samples [P10] - Novth \* Floor-2 # SE (15') [Floor-1] q' Live Dead [Floor\_6] \* Floor -2 N (8') \* East -1 (101) [ East-1] \* West - 1 (12') [west-2] [suth-2] scientits \* South -1 (12') 1E 6 \*- South 3 \* North-1 (6') [North-37 \$> \* Backfill (6) 176  $\cdot 2^{i}$ 3 1100 Leave CC-13 for hal 7' 1315 Arnie at Midland (280mi) Severying South (2 7/24/02 numberry 0720 Leave Midland Soy (C-13 15 0913 Avvioc at site recover Soil samples from Dit (see attached Seveen map) ٦S 1000 Check PID Cal (98 ppm) Lab Samples + Meter Samples (Screening) FLOOR - 3 SE 20' [FLOOR ST South -1 - 5' - 0 PPM Floor-3 EXSE 101 [Floor 37 VScuth-2 - 12' - 0 ppm South - 2 12' [ south - 2], EUST-1 - 8' - 0 ppm + gs of mon (7/22) hours 23 loads to Floor-1 -8' - 0 ppm Floor- 2 - 10" - 0 ppm C-5 1035 Leave site for hab J Floor - 3 - 10' - 0 ppm Floor - 4 - 81 - 0 ppm Floor - 5 - 20. - 0 Ppm



January 8, 2003

Mr. Paul R. Sheeley New Mexico Oil Conservation Division 1625 North French Drive Hobbs, New Mexico 88240

Re: Work Plan for Removal of Hydrocarbon-Impacted Soils along Pipeline right-of-way operated by Duke Energy Field Services near Monument, New Mexico (C-23-2 sites)

#### Dear Mr. Sheeley:

Trident Environmental (Trident) was retained by Duke Energy Field Services, LP (DEFS) to prepare this work plan for the removal of hydrocarbon-impacted soil at three locations along the "C-23-2" pipeline right-of-way operated by DEFS near Monument, New Mexico in Lea County. The purpose of this work plan is to develop procedures that meet the requirements of the landowner, New Mexico Oil Conservation Division (OCD), and DEFS. Walton Construction Co., Inc. (Walton) will perform the soil excavation and transport the soil to the South Monument Surface Waste Facility L.L.C. (Permit No. NM-01-0032). Walton will be responsible for contacting the New Mexico One Call for all line location requests. Trident Environmental personnel will also periodically collect soil samples to characterize the extent of hydrocarbon-impact and advise DEFS when cleanup target levels have been achieved where practicable.

#### Site Location

The latitude, longitude, and legal coordinates of the three sites are listed below:

Site Name	Latitude	Longitude	Township-Range-Section-UL
C-23-2 (Site #1)	32° 33.081'	103° 18.614'	T20S-R36E-S25-UL-C
C-23-2 (Site #2)	32° 33.077'	103° 18.535'	T20S-R36E-S25-UL-C
C-23-2 (Site #3)	32° 33.072'	103° 18.357'	T20S-R36E-S25-UL-B

#### Soil Sampling Procedures

During excavation operations, subsurface soil samples will be collected and submitted to an analytical laboratory to characterize the approximate lateral and vertical extent of hydrocarbon-impacted soil at each site. Samples will be collected by Trident with stainless steel trowels and/or hand augers. During the course of excavation activities, samples will also be collected for headspace analysis using an organic vapor meter (OVM), which will be calibrated to assume a benzene response factor. The headspace analysis will be used as guidance for continuation or cessation of excavation activities. All soil sampling, headspace analysis, and laboratory analysis will be performed in accordance with OCD "Guidelines for Remediation of Leaks, Spills, and Releases" (August 13, 1993). Excavation operations will cease when laboratory analysis of collected samples indicates the extent of hydrocarbon-impacted soils remaining in the excavation is 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)

Upon completion of excavation activities, closure samples will be collected as follows:

- A minimum of one grab sample collected along each wall (north, south, east and west sides) in closest proximity to the location with the highest OVM reading and/or the location where most staining/pooling has been observed.
- A minimum of one grab sample will be collected from the floor of the excavation in closest proximity to the location with the highest OVM reading and/or the location where most staining/pooling has been observed.

Soil samples submitted to the laboratory shall be analyzed for gas and diesel range organics (GRO and DRO) using EPA Method 8015 to determine TPH concentrations. Samples with OVM readings or GRO levels above 100 ppm will also be analyzed for BTEX using EPA Method 8021B.

#### Soil Stockpiling and Backfilling

An effort to segregate clean versus impacted soil during excavation will be made. Only hydrocarbonimpacted soil that exceeds 100 mg/kg TPH, 10 mg/kg benzene, and/or 50 mg/kg total BTEX will be 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 is assumed since groundwater is reportedly less than 50 feet below ground surface. Any excavated soils below the remediation action levels may be returned to the excavation after sampling and analysis verification. The landowner will provide nonhydrocarbon-impacted native soil and it will be used as additional backfill in the excavation until the original grade of the excavated site is restored as practicable.

#### **Recordkeeping and Waste Disposition**

A field logbook and photographs will also be used to record work related activities. Site data forms that will document pertinent information (Attachment A) will be completed for each site. The site data forms will include:

- Date and time of arrival/departure
- Site location (unit letter, section, township, range, and latitude/longitude)
- Site map (excavated area, sample locations, and pertinent structures)
- OVM readings (sample screening)
- Depth and areal extent of excavation (explanation and site sketch)
- Volume of excavated soil in cubic yards
- Comments (weather, visitors, crew names)
- Copy of notes from field book

Mr. Paul R. Sheeley New Mexico Oil Conservation Division January 8, 2003

A letter report will be prepared by Trident Environmental describing the excavation procedures, sample methods, analytical results, and supporting documentation (site data forms, C-141 form, laboratory analytical reports, and photodocumentation). The letter report will be submitted to the District OCD office along with a request from DEFS for no further action.

If you find the procedures proposed in this work plan acceptable please acknowledge your approval verbally followed with written backup at your convenience. Work is scheduled to begin January 13, 2003. DEFS and Trident look forward to working with the OCD in getting closure to the affected site. Please feel free to contact Mr. Steve Weathers (DEFS) at (303) 605-1718 or myself at (915) 682-0808 if you have any questions.

Sincerely,

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Gilbert J. Van Deventer, REM Project Manager

Attachments

xc: Steve Weathers, DEFS - Denver, CO Clay Cooper, landowner – Hobbs, NM

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#### Sheeley, Paul

From:Sheeley, PaulSent:Wednesday, January 08, 2003 10:38 AMTo:'Gilbert J Van Deventer'Subject:RE: Work plan for soil cleanup along DEFS C-23-2 pipeline ROW

Gil,

The referenced remediation project for the locations described herein is hereby approved according to previous Clay Cooper sites. Please continue to adhere to OCD guidelines, existing routine work plan and 48-hr. sampling notification.

Thanks, Paul S.

> -----Original Message----- **From:** Gilbert J Van Deventer [mailto:kickbooty@juno.com] **Sent:** Wednesday, January 08, 2003 9:34 AM **To:** PSheeley@state.nm.us **Cc:** LWJohnson@state.nm.us; swweathers@duke-energy.com; kcooper763@aol.com **Subject:** Work plan for soil cleanup along DEFS C-23-2 pipeline ROW

Paul:

Please acknowledge your approval for DEFS to begin soil cleanup activities along the C-23-2 pipeline ROW which is scheduled to begin Monday January 13th. This is a continuation of the same work done on Clay Cooper property (CC-1 through CC-14). DEFS has just changed the site/project names to reflect the pipeline designation. The site locations are as follows:

<u>C-23-2 (Site #1)</u> T20S, R36E, Sec 25, UL C Latitude: N 32 33.081' Longitude: W 103 18.614'

<u>C-23-2 (Site #2)</u> T20S, R36E, Sec 25, UL C Latitude: N 32 33.077' Longitude: W 103 18.535'

<u>C-23-2 (Site #3)</u> T20S, R36E, Sec 25, UL B Latitude: N 32 33.072' Longitude: W 103 18.357'

Thanks, Gil

Gilbert J. Van Deventer, REM Trident Environmental Office: 915-682-0808 Fax/Home: 915-682-0727 Mobile: 915-638-3106

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