

May 14, 2002

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

1 RP- 19.05

Re: Removal of Hydrocarbon-Impacted Soils from the CC #9 site Township 20 South, Range 36 East, Section 25, Unit A

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 #9) is located in Section 25 (Unit A), Township 20 South, Range 36 East on property owned by Dale Cooper and managed by Clay Cooper. The location of the CC #9 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 yd³ 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 readings exceeding 100 ppm.

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 1,556 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.

<u>Results</u>

At the completion of excavation activities all areas had petroleum hydrocarbon concentrations below the OCD standards listed above, with the exception of the floor sample taken at a depth of 42 feet (GRO <10 mg/kg and DRO = 106 mg/kg) and the sample taken from the west wall of the main excavation and immediately adjacent to County Road 41 (GRO = 1080 mg/kg and DRO = 5120 mg/kg). The floor sample is considered to be close enough to the 100 mg/kg guideline to warrant no further excavation. In addition, there was a concern for safety in expediting backfilling operations and eliminate the traffic hazard of a relatively deep excavation adjacent to a much used oilfield traffic road. The west wall could not be excavated further to the west due to the presence of the county road. However, an excavation was conducted on the west side of the road to a depth of 13 feet directly beneath where the abandoned pipeline had been. A sample taken from the excavation floor on the west side of the road indicated GRO and DRO concentrations below the laboratory detection limit of 10 mg/kg. Soil sample locations are depicted on the Site Map 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,

Gilbert J. Van Deventer, REM Project Manager

Attachments

cc: Clay Cooper, landowner - Hobbs, NM



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Site Data Form

TRW Technician: GJV Excavation Crew Names: Walton Construction Site ID: Clay Cooper # 9 Site Location: Latitude 32° 33' 5" N Longitude 103° 18' 5" W County: Lea State: New Mexico Township 20 South Range 36 East Section 25 Unit A Begin Excavation (Date/Time) $t02/12/02$ Complete Excavation (Date/Time) $02/28/02$ LAND USE: Residential Recreational Farm land Industrial School/Daycare Range land (Check all that apply) 0il & Gas Rural Other: Depth to Groundwater: > 100 feet 50 - 99 < 50 feet Wellhead Protection Area: > 1,000 feet from a water source < 200 feet from private domestic water source Distance to Nearest Surface Water Body: > 1,000 feet I200 - 1,000 feet < 200 feet SurFACE SOILS: Sand Gravel Silt Silt Caliche Clay Other Sandy silty clay at depth DIMENSIONS 72_feet 45 feet 20-42_feet 42_feet					
Township 20 South Range 36 East Section 25 Unit A Begin Excavation (Date/Time) 02/12/02 Complete Excavation (Date/Time) 02/28/02 LAND USE: Residential Recreational School/Daycare Range land Other: Depth to Groundwater: > 100 feet 50 - 99 < 50 feet Other: > 1,000 feet from a water source < 200 feet form private domestic water source < 200 feet < 200 feet < 200 feet < 200 feet < < 	TRW Technician: <u>GJV</u>	_Excavation Crew Names:	Walton Construction	Site ID:(Clay Cooper # 9
Begin Excavation (Date/Time) 102/12/02 Complete Excavation (Date/Time) 02/28/02 LAND USE: Residential Recreational Farm land (Check all that apply) Industrial School/Daycare Range land Oil & Gas Rural Other: Depth to Groundwater: > 100 feet 50 - 99 < 50 feet	Site Location: Latitude 3	<u>2° 33' 5" N</u> Longitude	<u>103° 18' 5" W</u> C	County:L	eaState: <u>New Mexico</u>
LAND USE: Residential Recreational Farm land Range land Other: Other: (Check all that apply) Oil & Gas Rural Other: Other: Other: Stance to Nearest Surface Water Body: > 1,000 feet from a water source < < <<	Township 20 South	Range 36	East Section	25	Unit A
(Check all that apply) Industrial School/Daycare Range land Oil & Gas Rural Other: Depth to Groundwater: > 100 feet 50 - 99 < 50 feet	Begin Excavation (Date/Tin	ne) <u>102/12/02</u>	Complete Excavation (I	Date/Time)0	2/28/02
Wellhead Protection Area: > 1,000 feet from a water source $\Box < 200$ feet from private domestic water source Distance to Nearest Surface Water Body: > 1,000 feet $\Box 200 - 1,000$ feet $\Box < 200$ feet SURFACE SOILS: Sand \Box Gravel \Box Silt Caliche \Box Clay \Box Other Sandy silty clay at depth EXCAVATION Length Width Average Depth Maximum Depth DIMENSIONS -72 feet 45 feet $20 - 42$ feet 42 feet		Industrial	School/Daycare	🖬 Rai	nge land
Caliche Clay Other Sandy silty clay at depth EXCAVATION Length Width Average Depth Maximum Depth DIMENSIONS 72 feet 45 feet 20-42 feet 42	Wellhead Protection Area:	\blacksquare > 1,000 feet from a wate	er source \Box < 200 fe	-	
DIMENSIONS ~72 feet 45 feet 20-42 feet 42 feet	SURFACE SOILS:				Sandy silty clay at depth
VOLUME EXCAVATED: 3000 yd ³ 9000 VOLUME HAULED TO LANDFARM; 1,556 yd				• •	-
	VOLUME EXCAVATED	: <u>~3,000</u> yd ³ 9000'	VOLUME HAULEI) TO LANDFAR	RM: <u>1,556</u> yd ³

SUMMARY OF ANALYTICAL RESULTS

Sample ID	Sample	Sample	OVM	GRO	DRO	Benzene	Toluene	Ethylbenzene	Xylenes
(Depth)	Туре	Date	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Floor-1 (20')	Grab	02-14-02	110	515	5160	< 0.025	0.160	0.274	1.74
Floor-2 (38')	Grab	02-18-02	144	< 10	209	<0.025	<0.025	<0.025	0.046
Floor-3 (42')	Grab	02-20-02	29	< 10	106				
S. Wall-1 (10')	Grab	02-14-02	151	192	3480	< 0.025	< 0.025	0.161	0.458
S. Wall-2 (12')	Grab	02-20-02	0	< 10	< 10		******		
S. Wall-3 (25')	Grab	02-20-02	0	< 10	< 10	*******			
E. Wall-1 (10')	Grab	02-12-02	0	< 10	< 10				
W. Wall-1 (10')	Grab	02-14-02	338	1080	5120	0.392	1.38	1.37	5.31
W. Side of Road	Cart	02-20-02	1	< 10	< 10				
Floor-1 (13')	Grab	02-20-02	1	< 10	< 10	*******		******	
N. Wall-1 (10')	Grab	02-14-02	5	< 10	< 10			******	
Exc. Soil-1	Comp	02-14-02	199	287	2210	0.041	0.219	0.649	1.29
Backfill-1	Comp	02-14-02	2	< 10	< 10				

Samples analyzed by Environmental Lab of Texas (Odessa, Texas) using EPA Method 8015M for Gas Range Organics (GRO) and Diesel Range Organics (DRO) and EPA Method 8021B for benzene, toluene, ethylbenzene, and xylenes. Indicates sample not analyzed for this constituent. Values in red indicate concentrations exceed Oil Conservation Division cleanup guidelines.

District I 1625 N. French	n Dr., Hobbs,	NM 88240				f New Me and Natu	exico ral Resources				rm C-141
District II 811 South First	t, Artesia, NN	vi 88210				•				Revised Marc	
District III 1000 Rio Brazo	os Road, Azt	ec, NM 87410			ervation D outh Pacl			Submit 2 Distri	2 Copies to a ct Office in a	ccordance	
District IV 2040 South Pa	checo, Santa	Fe, NM 87505				Fe, NM 87				with Rule 11	6 on back de of form
-			Relea	se Notificat	tion a	and Cor	rective Act	ion			
				(OPER	ATOR	····	🗌 Ini	tial Report	Fin	al Report
Name of Co		Energy Field	d Service	s Inc		Contact	Mr	. Steve V	Veathers		
Address						Telephone	e No.			<u>_</u>	<u> </u>
Facility Nan		5493, Denve	er, Colora	ido 80217		Facility T		303) 605	5-1718		
		Site Name:	CC #9			Tacinty 1		ural Gas	Pipeline)	
Surface Own	ier			Mineral	Owner				Lease N	0.	
	Dale	e Cooper			····	Unkn	own				
<u>, , , , , , , , , , , , , , , , , , , </u>	<u> </u>			LOCAT						<u> </u>	
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/W	est Line	Cou	nty
A	25	205	36E		<u>32°</u>	33' 5" N		103° 1	8' 5" W	Le	a
				NATU	RE O	F RELEA	ASE				
Type of Relea	ise					Volume of	Release	· <u>····</u> ··		Recovered	·
Source of Rel	ease	Conden	sate			Unknown~1,556 yd³ soil removedDate and Hour of OccurrenceDate and Hour of Discover					
Was Immedia		(Pipeli	ne***				Unknown			Unknown	
was immedia	ite Notice G		es 🔲	o Not Requi	red	If YES, To		eley, NM	OCD Distrie	ct 1	
By Whom?		Steve We		<u> </u>		Date and H	lour				
Was a Watero	ourse Reac	hed?			<u> </u>	If YES, Vo	lume Impacting th	ne Watero	ourse.	<u></u>	<u></u>
		ł		0		N/A					
If a Watercou	rse was Imj	pacted, Descri	be Fully.*	1							
N/A									_		
Describe Cau	se of Proble	em and Remed	dial Action	n Taken.*							
Historical	idensate)rel	ease caused b	y subsurfa	ice external corrosi	ion. 10'	" steel pipeli	ne was removed in	1991, pr	ior to initiat	ion of excava	ation
work. Remov	val of impac	cted soil reque	ested by la	ndowner (Clay Co	oper).						
		and Cleanup A		en.* avation continued	until 07	(20/02 Ein	l evenuation dima			45 A	
long x 12 -42	ft deep. A	pproximately	1,556 cu	ds of soil was tran	1sported	to cell C-5 a	t the South Monu				
				lytical results, phote is true and complete				derstand	that nursua	nt to NMOCI	Dirules
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				acceptance of a C adequately invest							
water, human	health or the	he environmer	nt. In add	ition, NMOCD acc	ceptance						
compliance v	vith any oth	er tederal, sta	te, or loca	l laws and/or regul	ations.	r	OIL CONSI	ERVA	TION DI	VISION	
Signature:											
Printed Name	a. Stan	hen Weathers		·····	·	Approved by District Supervisor:					
Title:	Envi	ironmental Sp	ecialist			Approval	Date:	[Expiration 1	T	
Date:	ditional	heets If Nece		: (303) 605-1718		Condition	s of Approval:			Attached	
Апасп Аб	umunat N	neers it inece	SSALV								



1 View (facing southwest) showing CC #9 excavation site and its proximity to County Road 41.



View facing west showing hydrocarbon-impacted soil beneath release point, where drip pot was located (center of photo). An abandoned steel pipeline (removed in 1991) was located directly above the drip pot. An active 10-inch polyethylene gas pipeline is located approx. 12 feet to the north (right side of photo) of the drip pot and abandoned pipeline.

DIGITAL PHOTOGRAPHS OF THE CLAY COOPER #9 SITE



³ View facing east showing east end of excavation (center) and non-impacted stockpile (left background). The polyethylene 10-inch gas line to the left (north) of the excavation is in service.



4 View facing north showing the north wall beneath the active 10-inch polyethylene pipeline.



5 View facing southwest showing south side of main excavation at 12 feet depth. County Road 41 is in background (top of photo)



6 View facing southeast showing floor of excavation at maximum depth (42 feet).



View facing west showing west wall of main excavation at completion of excavation activities.
 Excavation activities on the west side of County Road 41 is shown in the background (top of photo)



8 View facing south showing south wall of excavation at maximum depth (42 feet).

ATTACHMENT A

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TOPOGRAPHIC MAP

SITE DATA FORM

C-141 FORM

PHOTODOCUMENTATION



<u>District I</u> 1625 N. French District II	ı Dr., Hobbs,	, NM 88240		Energy		of New Me s and Natu	exico ral Resources			For Revised Marc	rm C-141	
811 South First District III	, Artesia, NM	M 882 10				ervation E			Submit	2 Copies to a	nnronriate	
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			Relea	se notifi			rective Act				1.5	
Name of Co	mpany				OPER	Contact			nitial Report	Fin	al Report	
	• •	Energy Fiel	d Service	s Inc.		Tuluation		r. Steve	Weathers		. <u></u>	
Address	P. O. Box	5493, Denve	er, Colora	ido 80217		Telephon		(303) 60	5-1718			
Facility Nam	ne	Site Name	: CC #9	·		Facility T		tural Ga	s Pipeline			
Surface Owr				Mine	eral Owner				Lease N	о.		
	Dale	e Cooper		<u>)</u>		Unkn	own	•• ,				
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A	25	205	36E	<u> </u>	32°	33' 5" N	<u> </u>	103°	18' 5" W	Le	<u>a</u>	
				NAT	TURE O	FRELE						
Type of Relea	ise	Conden	isate			Volume of	Volume of Release Volume Recovered Unknown ~1,556 yd ³ soil rem					
Source of Rel	ease	Pipeli	ne			Date and H	lour of Occurrenc Unknown	e	Date a	nd Hour of D Unknown	iscovery	
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By Whom?		 	- <u></u> -			Date and H					w	
Was a Watero	ourse Reac					If YES, Ve	olume Impacting t	he Water	rcourse.		<u> </u>	
	-			0		N/A						
If a Watercou	rse was Imp	pacted, Descri	ibe Fully.*									
N/A												
Describe Cau	se of Proble	em and Reme	dial Action	1 Taken.*								
				ice external co ndowner (Clay		" steel pipeli	ne was removed in	n 1991, p	rior to initiat	ion of excava	tion	
											<u> </u>	
	over-excav	ation was init	tiated. Exc	avation contin			al excavation dime					
							at the South Monu ap are attached.	iment La	nd Farm. Bad	kfilling of ex	cavation	
I hereby certi	fy that the i	nformation gi	ven above	is true and co	mplete to t	ne best of my	knowledge and up ons and perform co					
endanger pub	lic health o	or the environm	nent. The	acceptance of	a C-141 re	port by the N	MOCD marked as	s "Final I	Report" does	not relieve th	ne operator	
							contamination that report does not re					
				l laws and/or r								
Signatura							OIL CONS			<u>v 1510N</u>		
Signature: Printed Name	e: Step	hen Weathers		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		Approved District Su						
Title:		ironmental Sp				Approval Date: Expiration Date:						
Date:				: (303) 605-17	118		s of Approval:			Attached		
	ditional SI	heets If Nece	essary	. (303) 00341	1 Conumon	s or Approval.						

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ATTACHMENT B

LABORATORY ANALYTICAL REPORTS

AND

CHAIN-OF-CUSTODY DOCUMENTATION

ENVIRONMENTAL LAB OF \checkmark I, LTD.

"Don't Treat Your Soil Like Dirt!"

TRIDENT ENVIRONMENTAL ATTN: GILBERT VAN DEVENTER P.O. BOX 7624 MIDLAND, TEXAS 79708 FAX: 682-0808

Sample Type: Soil Sample Condition: Intact/ Iced/ 2.0 deg C Project Name: Duke Energy Field Services Project #: V-106 Project Location: CC#9 Sampling Date: 02/14/02 Receiving Date: 02/14/02 Analysis Date: 02/14/02

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	
0202603-01	Floor-1 (20')	515	5160	
0202603-02	S. Wail-1 (10')	192	3480	
0202603-03	W. Wall-1 (10')	1080	5120	
0202603-04	N. Wall-1 (10')	<10	<10	
0202603-05	Exc. Soil-1	287	2210	
0202603-06	Backfill-1	<10	<10	

QUALITY CONTROL TRUE VALUE % INSTRUMENT ACCURACY SPIKED AMOUNT ORIGINAL SAMPLE SPIKE SPIKE DUP % EXTRACTION ACCURACY BLANK	570 500 114 500 <10 531 520 104 <10 2.09	625 500 125 500 <10 591 580 116 <10
RPD	2.09	1.88

Methods: SW 846-8015M

une Celey D. Kee Raland K /Tuttle

02/15/02 Date

ENVIRONMENTAL LAB OF \checkmark I, LTD.

"Don't Treat Your Soil Like Dirt!"

TRIDENT ENVIRONMENTAL ATTN: GILBERT VAN DEVENTER P.O. BOX 7624 MIDLAND, TEXAS 79708 FAX: 682-0808

Sample Type: Soil Sample Condition: Intact/ Iced/ 2.0 deg C Project Name: Duke Energy Field Services Project #: V-106 Project Location: CC #9 Sampling Date: 02/14/02 Receiving Date: 02/14/02 Analysis Date: 02/14/02

	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
0202603-01	Floor-1 (20')	<0.025	0.160	0.274	1.74	0.270
0202603-02	S. Wall-1 (10')	< 0.025	<0.025	0.161	0.458	0.138
0202603-03	W. Wall-1 (10')	0.392	1.38	1.37	5.31	0.528
0202603-05	Exc. Soil-1	0.041	0.219	0.649	1.29	0.265

QUALITY CONTROL	0.111	0.115	0.109	0.227	0.102
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% INSTRUMENT ACCURACY	111	115	109	114	102
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	0.041	0.219	0.649	1.29	0.265
SPIKE	0.116	0.122	0.139	0.279	0.120
SPIKE DUP	0.116	0.117	0.142	0.285	0.127
% EXTRACTION ACCURACY	114	113	113	114	109
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025
RPD	0.00	4.18	2.14	2.13	5.67

METHODS: EPA SW 846-8021B ,5030

Celey D. Keene Raland K. Tuttle

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Trident Environmental P.O. Box 7624 Midland, Texas 79708 (915) 682-0808 (915) 682-0727 (Fax)

V-106-CC9-01 Chain of Custody

Date 2-13-02 Page _____ of ____

Lab Name: Envir	ronmental Lab of Tex	as, Inc.		T									A	nalys	sis R	eque	est]
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Project Name: Duke	Energy Field Services	Total Contair	iers:		Trid	ent E	nviro	nme	ental																
Project Location: CC#	9	COC Seals:			(Printed N	ም"	il Var	n Dev	/enter	r		(Printe	d Name	9)					(Printed	1 Name)				
Project Manager: Gil V	an Deventer	Rec'd Good (Cond/Cold:	200	(Sigra	M/a	kī	/				(Signat	ture)						(Signati	ure)					7
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* RUSH BOIS only

Copy signed original form for Trident Environmental records



"Don't Treat Your Soil Like Dirt!"

TRIDENT ENVIRONMENTAL ATTN: GILBERT VAN DEVENTER P.O. BOX 7624 MIDLAND, TEXAS 79708 FAX: 682-0808

Sample Type: Soil Sample Condition: Intact/ Iced/ 4.0 deg C Project Name: Duke Energy Field Services Project #: V-106 Project Location: CC#9 Sampling Date: See Below Receiving Date: 02/18/02 Analysis Date: 02/18/02

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	SAMPLE DATE	
0202622-01	E. Wall-1 (10')	<10	<10	02/12/02	
0202622-02	Floor-2 (38')	<10	209	02/18/02	

QUALITY CONTROL	477	550
TRUE VALUE	500	500
% INSTRUMENT ACCURACY	95	110
SPIKED AMOUNT	476	476
ORIGINAL SAMPLE	<10	<10
SPIKE	593	644
SPIKE DUP	563	598
% EXTRACTION ACCURACY	118	126
BLANK	<10	<10
RPD	5.19	7.41

Methods: SW 846-8015M

Celey D. Keene

Raland K. Tuttle

-19-02 Date

ENVIRONMENTAL LAB OF \checkmark I, LTD.

"Don't Treat Your Soil Like Dirt!"

TRIDENT ENVIRONMENTAL ATTN: GILBERT VAN DEVENTER P.O. BOX 7624 MIDLAND, TEXAS 79706 FAX: 682-0727

Sample Type: Soil Sample Condition: Intact/ Iced/ 4.0 deg C Project Name: Duke Energy Field Services Project #: V-106 Project Location: CC #9 Sampling Date: 02/18/02 Receiving Date: 02/18/02 Analysis Date: 02/18/02

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
0202622-02	Floor-2 (38')	<0.025	<0.025	<0.025	0.046	<0.025

QUALITY CONTROL	0.091	0.094	0.086	0.186	0.086
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% INSTRUMENT ACCURACY	91	94	86	. 93	86
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	0.092	0.096	0.093	0.201	0.091
SPIKE DUP	0.088	0.092	0.089	0.192	0.088
% EXTRACTION ACCURACY	92	96	93	100	91
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025
RPD	4.44	4.26	4.40	4.58	3.35

METHODS: EPA SW 846-8021B ,5030

Celey D. Keene

Raland K. Tuttle

2-19-02 Date

Environmental Lab of Texas, Inc.

12600 West I-20 East Phone: 915-563-1800										СН	ain c	DF C	ust	ODY	REC	ORD	ANI		VALY	rsis F	REQU	EST			
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ENVIRONMENTAL LAB OF \checkmark I, LTD.

"Don't Treat Your Soil Like Dirt!"

TRIDENT ENVIRONMENTAL ATTN: GILBERT VAN DEVENTER P.O. BOX 7624 MIDLAND, TEXAS 79708 FAX: 682-0808

Sample Type: Soil Sample Condition: Intact/ Iced/ 3.5 deg C Project Name: Duke Energy Field Services Project #: V-106 Project Location: CC#9 Sampling Date: 02/20/02 Receiving Date: 02/20/02 Analysis Date: 02/20/02

FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	
West Side of Road-Floor-1 (13')	<10	<10	
5. Wall-2 (25')	<10	<10	
S. Wall-3 (12')	<10	<10	
	West Side of Road-Floor-1 (13') 5. Wall-2 (25')	FIELD CODE C6-C10 mg/kg West Side of Road-Floor-1 (13') <10	FIELD CODE C6-C10 mg/kg >C10-C28 mg/kg West Side of Road-Floor-1 (13') <10

QUALITY CONTROL TRUE VALUE % INSTRUMENT ACCURACY SPIKED AMOUNT ORIGINAL SAMPLE SPIKE	463 500 93 476 <10 515	530 500 106 476 <10 603
	••••	
	515	603
SPIKE DUP	536	587
% EXTRACTION ACCURACY	113	123
BLANK	<10	<10
RPD	4.00	2.69

Methods: SW 846-8015M

Celey D. Keene Raland K. Tuttle

aliler

Trident Environmental P.O. Box 7624 Midland, Texas 79708 (915) 682-0808 (915) 682-0727 (Fax)



V-106-CC9-02 Chain of Custody

Date 2.20-0L Page / of /

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ANALYTICAL REPORT

Prepared for:

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

Project:Duke Energy Field ServicesOrder#:G0202643Report Date:02/27/2002

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

ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

TRIDENT ENVIRONMENTAL P.O. BOX 7624

MIDLAND, TX 79708 915-682-0727 Order#:G0202643Project:V-106Project Name:Duke Energy Field ServicesLocation:CC#9

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.

			Date / Time	Date / Time		
<u>Lab ID:</u>	Sample :	<u>Matrix:</u>	Collected	<u>Received</u>	<u>Container</u>	Preservative
0202643-01	Floor-3 (42')	SOIL	02/20/2002	02/21/2002	4 oz glass	Ice
			9:30	10:25		
Lat	b Testing:	Rejected: No	Tem	p: 3.5 C		
	8015M TPH GRO/DR	0				

ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

Order#:

Project:

Location:

Project Name:

G0202643

Duke Energy Field Services

V-106

CC#9

GILBERT VAN DEVENTER TRIDENT ENVIRONMENTAL

P.O. BOX 7624 MIDLAND, TX 79708

0202643-01

Lab ID: Sample ID:

Floor-3 (42')

Method <u>Blank</u> 0000701-02	Date <u>Prepared</u>	Date <u>Analyzed</u> 02/24/2002 14:32	PH GRO/D Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	<u>Method</u> 8015
	Parameter		Resu mg/k		RL	
	GRO, C6-C12		< 10.	.0	10.0	
	DRO, >C12-C28		106	i	10.0	

2-27-02 Approval:

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

Date

N/A = Not Applicable RL = Reporting Limit

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT 8015M TPH GRO/DRO

Order#: G0202643

BLANK	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
GRO, C6-C12-mg/kg	0000701-02			<10		
DRO, >C12-C28-mg/kg	0000701-02			<10		
MS	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
GRO, C6-C12-mg/kg	0202645-01	0	480	530	111.1%	
DRO, >C12-C28-mg/kg	0202645-01	0	480	550	115.1%	
MSD	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
GRO, C6-C12-mg/kg	0202645-01	0	480	520	108.6%	2.3%
DRO, >C12-C28-mg/kg	0202645-01	0	480	560	116.6%	1.3%
SRM	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
GRO, C6-C12-mg/kg	0000701-05		500	480	97.%	0.%
DRO, >C12-C28-mg/kg	0000701-05		500 .	470	94.8%	0.%

Trident Environmental P.O. Box 7624 Midland, Texas 79708 (915) 682-0808 (915) 682-0727 (Fax)

V-106-CC9-03 Chain of Custody

Date 2-21-02 Page ____ of ____

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ATTACHMENT C

FIELD BOOK NOTES

2-12-02 Objective Begin excavation of site located adjacent to county roul. Eventhe (leave, coul (50°s), breezy Porsonne / Equipment Mike Neasley Trackhor 2 Pozers with operators Roy Dozens had to push sand denes back to make norm for stockpling and access. Did a little exiguation along 10" Drisco DEPS pipelino from rouge (dital) formands past. No other pipelines in area when we are working. One Rice Operating line a ways horth per Roy. County is doing road work (watering blading, compacting, etc). Jin Jones Works For Lea County Road Dept.

2-12-02 2-12-02 Concentrated on dissing small avea near road (west end) East end looks very clean all the 20064 Nay to the pipeline marker where 10" Divisco connects f. 12" steel Another live used to be adjacent to the existing DEFS pipeline (sorth) but was removed - yrs -go - old pipeline ROW (pipe no linger in place. At first we thought we tound a vennant of old pipeline but it turned out to bre a drip pot and was the apparent surce of some localized contamination the "drip pot" is a short (~6 ft) section of 12" steel pilpe oned to collect liquids and periodiculty (old lim) (old lim) (ounty Rad was drained

CCHQ 2-14-02 (C#19 2-13-02 -New cattle guest being installed by void dept. Excavated a bit more around drip pot, Contamination appears localized to drip pot area and Canty Road extends toward road County voal dept. suggested DÉFS lower the pipeline where it 20 crosses the road. I notified stan Shave of this & he de made a site visit to discuss with road dept Should be read to collect Sove samples tomorrow Task photos.

21402 (CH9 2.15-02 CC#9 Called in the Mike my Valta to Collected samples from floor (20) give him and that possite and and 3 wills (south, west, & north) isstudied him to continue excavaling midway down (10 bas). south walk and deeper. Mile said he would have to spand Sangle ID Time OVM some time on the track have to * Floor-1 (20') 1320 110 build a sheld on south side to * SW211-1 (10') 1324 151 ke able to get deeper Wourt W, W, 11-1 (10') 338 1336 N.WA11-1 (10) be ready to Sample anything 1345 5 unt. Monday, 199 Exc Soil 1353 BackFill-1 Z 1400 2-13-02 3.00 pm Back on sit to collect floor Délivered samples to lab (Env. Lab of F; & requested rush analysis (8015 only) sample at 38 bass Johnon with OCP also deve up on site Sand tike OV M Calib record OUM read 86 pph - Span gas (100 ppm isobut the so re-calibrated instrument to read 100ppm with span gas.

2-18, 02 CC#9 0900 - 1100 Durine Milland to CCH9 1100 the Stopped by CCH 9 sil to check on status the is about 30 bys and night be close at that depth. There is a lease of highroundown stained soil about 2' thick above a bed of caliche (about the 25-27 level bys) Instructed more to dig out more of the south wall & to the 30' depth level Swill be back later to sample it they're Verdy .. Last CCH9 sit to lo 08m at Kiham Rand Plant 3100 pm back on site to collect Floor sample at 38 bgs Paul Sheeley & Larry Johnson (NMOCD) also drove up on site at some time. Then doserved excavation & scrap pipe (From drip pot).

2-18-02 OUN Calibration record . Betwe calibration 100 ppm isobutylene 3pan gas measured 36 ppm. Att Attac calibration it read 100 ppm. Collected floor sample the at 2:20 pm MST Floor-2(38') OUM - 144 ppm At first Paul Sheden suggestal that he would require us to excavate under the road but said he would be satisfied if we dug a trench and sampled there. Still needs excavation along South

2-20-02 (049 2.20.02 Cver exerciced south wold for the Expanded have to 42 bys and also excavated on west side of road divertly below abundaned 12 steel pipe line Cullerteil samples Time HTT Floor -3(42') GVM 29 0930 W. Road-Floor-1(13) 1000 5. Wall-3 (25') 1030 0 D 5. Wall 3 (12') 1040 E. W. 11-160 OVM measured 40 ppm will calibration gas (100 ppm isobut fine) before and after sample measurements. Good calibration 420 5.441-1(10') - j s. Wall - 3 (12') Y'l ... - 2 (3;) K-12'- 14 W. W. 11 1 (10') - Flore -- 3 (42')