1R-425-23

REPORTS

DATE:

9-28-09

BD K-2 EOL 2009

1R426-231

RECEIVED

APP - 6 2010

Environmental Bureau Oil Conservation Division

CLOSURE

RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

 $\Delta PP - 6 2010$

Environmental Bureau Oil Conservation Division

	-				BOX LOC						//3/07:
	SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSH	P R	ANGE	COUNT	Y BOX D	IMENSIONS -	FEET Depth
	Blinebry-Drinkard (BD)	K-2 EOL	K	2	22\$		36E	Lea	Length	eliminated	
	LAND TYPE: E	BLM	STATE_X	FEE LAI	NDOWNER	₹			OTHER		
	Depth to Grour	ndwater	130	feet	NMOC	D SIT	E ASSE	ESSMEN	T RANKING S	CORE:	0
	Date Started	7/24/	/2009	Date Cor	mpleted_	8/	7/2009	oc	D Witness	no	
	Soil Excavated	44.4	cubic yar	ds Exc	cavation	_ength	10	Wie	dth10	Depth	12 feet
	Soil Disposed	0	cubic yar	rds Of	fsite Facili	y	n.	/a	Location	n/	<u>a</u>
FINA	L ANALYTI	CAL RE	SULTS:	Samp	le Date_	7	7/30/200	9	Sample De	pth	12 ft
	ure 5-point com ratory test resul	•	•								
	Sample	Benzei	ne Toluer	ne Ethyl Benz	zene Total X	ylenes	GF	₹0	DRO	Chloride	
	Location	mg/kg	g mg/kg	g mg/kg				J/kg	mg/kg	mg/kg	
	WALL COMP.	<0.05			0 <0.	300		0.0	1,370	48	
	TTOM COMP.) = 0.8 (field)				0.0	11	48	
BLE	IDED BACKFIL		PID	= 88.0 (field)			<1	0.0	1,150	64	l
the pipe	al Description	lacement pro	gram. After	the former ju	nction box	was re	moved			RIDE FIELD	
an inves	stigation was con-	ducted using	a backhoe to	collect soil s	samples at	regula	r interval	ls	LOCATION	DEPTH	mg/kg
produci	ng a 10x10x12-ft	excavation.	Each sample	was field tes	sted for chlo	orides	and		4-wall comp.	n/a	228
yielded low concentrations. Organic vapors were measured using a PID and yielded bottom comp. 12' 302											
elevated	d concentrations.	Representa	tive composi	te samples w	ere collect	ed and	l analyze	d	olended backfill	n/a	195
by a cor	nmercial laborate	ory which yiel	ded low cond	centrations of	chloride, a	nd TPI	H and		background	6"	204
BTEX c	oncentrations tha	it were below	NMOCD gu	idelines. The	excavated	soil w	as			2'	211
blended	on site and retur	ned to the ex	cavation to	ground surfac	e and cont	oured	to the		vertical delineation	4'	150
surroun	ding area. On 8/	7/2009, the s	ite was seed	ed with a bler	nd of native	veget	ation and	d	trench at 5 ft	6'	270
is expec	ted to return to a	productive of	apacity at a	normal rate.			,		west of the	8'	291
			enclosures	s: photos, lab	results, Pli	O (field	d) screen	ning,	junction	10'	238
		-		BTEX con	nparison st	udy, ch	nloride cu	urve	(source)	12'	144
								L		<u> </u>	
	I HEREBY	CERTIFY	THAT THE		ION ABO				MPLETE TO T	HE BEST O	PF MY
SITE SU	PERVISOR	Jordan Wood	ffin SIGI	NATURE		<u>ida</u>	Wo	orl	COMPANY	RICE OPERA	TING COMPANY
	PORT EMBLED BY	Katie Jone	s	INITIAL	<u>K)'</u>			V			
PROJEC	T LEADER	arry Bruce Bal	ker Jr. SIGI	NATURE	long.	Bru	u B	alox J	DATE	<u> ૧- </u>	5-09

BD K-2 EOL



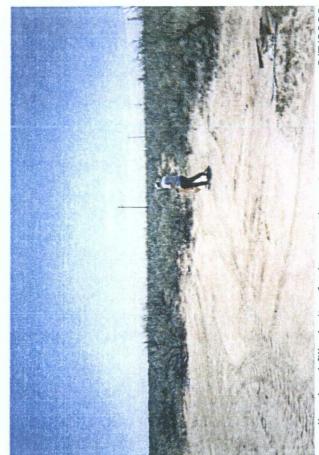
site prior to excavation, facing west



final 10x10x12-ft excavation, facing north

Unit K, Section 2, T22S, R36E





seeding backfilled site, facing southeast



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: JORDAN WOODFIN 122 W. TAYLOR

HOBBS, NM 88240:

COPI

Receiving Date: 07/30/09
Reporting Date: 08/04/09
Project Number: NOT GIVEN
Project Name: BD JCT K-2 EOL
Project Location: BD JCT K-2 EOL

Sampling Date: 07/30/09 Sample Type: SOIL

Sample Condition: INTACT Sample Received By: ML Analyzed By: AB/HM

ANALYSIS (DATE	07/31/09	07/31/09	07/34/09
H17902-1	5 PT BTM. COMP.	<10.0	11.0	48
H17902-2	4 WALL COMP.	<10.0	1,370	48
H17902-3	BLENDED BACKFILL	<10.0	1,150	64
Quality Cont	rol	506	594	500
True Value 0	QC	500	500	500
% Recovery		101	119	100
Relative Per	cent Difference	1.4	4.0	<0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB *Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight. Not accredited for GRO/DRO and Chloride.

Chemist

Date



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: JORDAN WOODFIN

122 W. TAYLOR HO88S, NM 88240

> Sampling Date: 07/30/09 Sample: Type: SO!L

> > Sample: Condition: INTACT Sample: Received By: ML

Analyzed By: ZL

Receiving Date: 07/30/09
Reporting Date: 08/03/09
Project Number: NOT GIVEN
Project Name: BD JCT K-2 EOL
Project Location: BD JCT K-2 EOL

				ETHYL	TOTAL
		BENZEME	TOLUENE	BENZENE	XYLENES
LAS NUMB	EF SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS	DATE	07/31/09	07/3:1/0:9	07/31/09	07/31/09
H17902-2	4WALL COMP	<0.050	<0.050	<0.050	<0.300
H17902-C	COMPOSITE OF NORTH,	<0.050	<0.050	< 0.050	<0.300
	SOUTH, EAST & WEST WALLS			BENZENE (mg/kg) 9 07/31/09 0 <0.050 0 <0.050 4 0.052 0 0.050 3 104	
Quality Con	trol	0.053	0.054	0.052	0.160
True Value		0.050	0.050		0.150
% Recovery	,	106	108	104	107
Relative Per	rcent Difference	2.1	2.0	<1.0	1.3

METHOD: EPA SW-846 8021B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES. Reported on wet weight.

Chemist

Date

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Mame	CUMPANY MAINE, K.CF OPERATING								TIC	DI THE						¥	NAL	7515	Х П	ANALYSIS KEQUESI					_
Project Manage	Project Manager: Juscal Incustral						P.O. #:	#							-	(-			-		<u> </u>	-		
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City: 4/0 RBS	タマシ State: A//M Zip: 合き	√ Zip:	ďΰ	\ (C)	QX2		Attın:									<i>f</i>	Ť	(r							
Phone #: 2-2 ->170	3・シノフン Fax#:						Add	Address	.,								サ	7							
Project#:	Project Owner:	ЭГ.	İ				City:											5						•	
Project Name:	BD JET 6-2 606						State:	e.		Zip:									->						
Project Location:	11. 12. 12. 12. 12. 10. 11. 11. 12. 12. 11. 11. 11. 11. 11. 11						Pho	Phone #:																	
Sampler Name:		\ \ \ \ \					Fax#:	#:		ı				13											
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Lab I.D.	Sample I.D.	.9MO(3) RO 8AЯ(8)	# СОИТАІМЕРВ В КОПИДУМЕТЕР	AETAWGNOOAS AETAWETSAW	PIOS	SENDGE OIL	: A∃HTO	ACIDIBASE:	ICE / COOL OTHER :	DATE		TIME	-717	108 HTT. X9+08	Kotok										
1-5097111	Spit Barrel Colony		-		\searrow	ب	-			7.30 8	0 (1.21)	50	X	· ~											
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PLEASE NOTE: Libring	PLEASE 1357Et 13528ty and Damages. Caudinal's liability and dients exclusive remedy for any claim arising whether based in connect or bot, shall be hinted to the amount paid by the client for the	ur any claim	guisire.	whether	r based	in contra	oct on har	t, shall to	e Shaited	tu the and	unt paid by the	client for the	υ												

ENAIL TOWN HE TO SURE TO SURE TO SURVER TO SUR ☐ Yes ☐ No Add'l Phone #: manipass, and dealing this control of the properties of the proper Phone Result: Fax Result: REMARKS: Time: 4.26 Date: 20-02 Date: JURDAN MOUNTAN Relinquished By:

CHECKED BY: (Initials) Sample Condition
Cool Infact.

Ves Ves

Time:

/Sampler - UPS - Bus - Other: Delivered By: (Circle One)

JUNOS DETIN PO

-- † Cardinal cannor accept verbal changes. Please tax written changes to 505-393-2476

* on ice leocling process had began

RICE OPERATING COMPANY

122 West Tayor Hobbs, NM 88240; PHONE: (575) 393-9174 FAX: (575) 397-1:47^[1] PID METER CALIBRATION & FIELD REPORT FORM



		Check Mod	el Number:		
	Model: PGM 7300	Serial No: 590-000183		Model: PGM 7600	Serial No: 110-023920
1	Model: PGM 7300	Serial No: 590-000508		Model: PGM 7600	Serial No: 110-013744
\(\(\)	Model: PGM 7300	Serial No: 590-000504		Model: PGM 7600	Serial No: 110-013676

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 08 3475	EXPIRATION DATE: 8- 69-09
FILL DATE: 2-29-08	METER READING ACCURACY: (02)

ACCURACY: +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
BP	K-2 EOC	ic	2	225	360 E

SAMPLE ID	PID	SAMPLE ID	PfD
North Wall	113	pt 1	0.3
South Wall	1.3	pi Z	୍ଷ
EAST Wall	41.7	pf 3	23
West Wall	130	pt 4	1.5
Uwill Comp.	108	pt5	E
,		Spt Btm Comp	0.3
Blanded Backfill	88.0		
		· · · · · · · · · · · · · · · · · · ·	

I verify that I have calibrated the above instrument in accordance to the manufacture operation manual

SIGNATURE De la C- walf

DATE 7-30 - 25

2009 BTEX Study

Revised Junction Box Upgrade Plan (2003)

BD System: Site:

K-2 EOL

Sampler: Date:

Jordan Woodfin 7/30/2009

Laboratory:

Laboratories

Cardinal

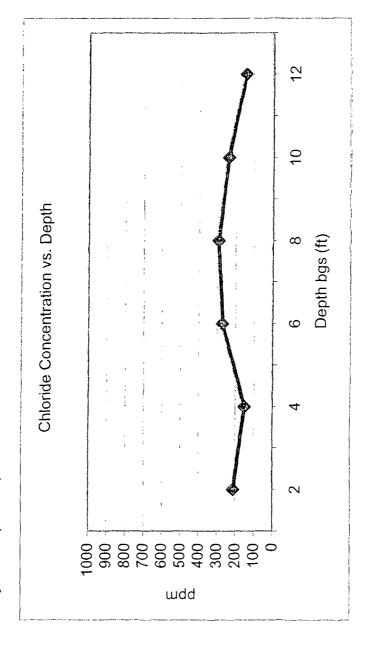
Location	Component	PID reading		FIELD COMPOSITE	(TE (mg/kg)		
	mannadima	(mdd)	Benzene	Toluene	Ethyl Benzene	Total Xylenes	
4-WALL	NORTH wall	113.0					
COMPOSITE	SOUTH wall	1.8	0300/	0300			
from	EAST wall	41.2	00.07	00.0>	050.0>	<0.300	
10x10x12 ft	WEST wall	130.0					
	·			LAB COMPOSITE	lE (mg/kg)		
			<0.050	<0.050	<0.050	<0.300	

Field PID tests <100 ppm are considered final for BTEX. If PID is >100 ppm, the components of the BTEX composite sample will be collected individually and will be composited under laboratory conditions to prevent excessive volatilization. A 15-box, 30-sample study will be made to compare field-compositing with lab-compositing BTEX samples. Composite Revised Junction Box Upgrade Work Plan (July 16, 2003) components are collected in a skewed 'W' pattern.

BD K-2 EOL Unit 'K', Sec. 2, T22S, R36E

Backhoe samples at 5 ft west of the junction (source)

_							
"中人人人" "一下一天"	[Cl:] ppm	211	150	270	291	238	144
3.5	Jepth bgs (1t)	2	4	9	8	10	12



Groundwater = 130 ft