1R - 427 - 107

REPORTS

DATE:

4-18-2001

RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

				BOX LOC					
SWD SYSTEM	JUNCTION	UNIT	SECTIO	N TOWNSHIP	RANGE	COUNTY		DIMENSIONS -	
E.M.E.	K-1	ĸ	1	20 S	36 E	Lea	Length 13`	Width 11	Depth 6'
LAND TYPE: B	LMS	TATE X	FEE	LANDOWNER	Climax (Chemical CC	OTHER		
Depth to Groun	dwater	26`	feet	NMOCD	SITE ASSE	ESSMENT	RANKING S	CORE:	20
Date Started	04/15/2	001	Date 0	Completed	04/18/2001	OCD	Witness No		
Soil Excavated	135	cubic yar	ds E	Excavation Le	ngth 13`	Width	11`	Depth 11`	
Soil Disposed	0	cubic yar	ds (Offsite Facility	no	one	Location	n	one
NAL ANALY	TICAL RE	SULTS	S: Sam	ple Date	April 18,	2001	Sample Do	epth	11' BGS
. E	BTEX and Chi		•	st results comes pursuant to		-	oved lab an	d testing	
Sample	Benzene	Tolu		Ethyl Benzene	Total Xyler		RO	DRO	Chlorides
Location SIDEWALLS	mg/kg <0.005			mg/kg 0.006	mg/kg 0.028		a/kg 50	mg/kg <50	mg/kg 160
BOTTOM	<0.005	<0.0		<0.005	0.019		50	<50	304
idelines. Impact idelines and use						en a	OCATION	DEPTH	mg/kg
iter tight junction					stalled. The	ila L	N wall	2'-5' BGS	
							E wall	2`-5` BGS	1
						}	S wall	2"-5" BGS	50 pp
			-				W wall	2`-5` BGS	50 pp
						v	/all Comp.	2`-5` BGS	50 pp
							ttom Comp.	6' BGS	650 pp
						Bo	ttom Comp.	7 1/2" BG	3 1450 p
		······································				Во	ttom Comp.	10° BGS	450 pp
						Bo	ttorn Comp.	11' BGS	250 pp
I HEREB	Y CERTIFY T	HAT THE	INFORM	AATION ABOV	VE IS TRUE	AN COMP	LETE TO T	HE BEST O	F MY
			KI	NOWLEDGE A					
TE	April 1			PR	INTED NAME		Chris	Rodriguez	
SNATURE M	ris Ros	liqu	u		TITLE		Environme	ental Techniciar	1
		00)						



ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: CHRIS RODRIGUEZ 122 W. TAYLOR HOBBS, NM 88240

FAX TO:

Receiving Date: 04/16/01 Reporting Date: 04/17/01

Project Number: K-1

Project Name: BOX UPGRADE

Project Location: E.M.E.

Sampling Date: 04/12/01 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC Analyzed By: BC/AH

. '	•	GRO	DRO	
•		(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	CI*
LAB NUMBER SAMPLE ID		(mg/Kg)	(mg/Kg)	(mg/Kg)

ANALYSIS	DATE	04/16/01	04/16/01	04/17/01
H5790-1	BOTTOM COMPOSITE	<50	<50	1060
H5790-2	SIDES	<50	<50	160
			ļ	ļ
	 		 	
Quality Con	trol	776	726	960
True Value	QC	800	800	1000
% Recovery	1	97.0	90.7	96.0
Relative Pe	rcent Difference	1.3	2.7	6.3

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB *Analyses performed on 1:4 w:v aqueous extracts.

Chemist

5-4-

APR 2 0 2001 L/ APR 2 0 2001 L/ HOSBS, NM

H5790A.XLS



ANALYTICAL RESULTS FOR RICE OPERATING CO.

ATTN: CHRIS RODRIGUEZ

122 W. TAYLOR HOBBS, NM 88240

FAX TO:

Receiving Date: 04/16/01 Reporting Date: 04/17/01 Project Number: K-1

Project Name: BOX UPGRADE

Project Location: E.M.E.

Sampling Date: 04/12/01

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: BC

0.100

101

10.8

0,300

100

8.5

LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS D	ATE	04/16/01	04/16/01	04/16/01	04/16/01
H5790-1	BOTTOM COMPOSITE	<0.005	<0.005	<0.005	<0.015
H5790-2	SIDES	<0.005	0.005	0.006	0.028
Quality Contro	ol	0.107	0.100	0.101	0.301

0.100

107

11.0

METHOD: EPA SW-846 8260

Relative Percent Difference

Chemist

True Value QC

% Recovery

Date

0.100

99.9

8.9

ARDINAL LABORATORIES, INC.
2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240

	□ No □ H6	Sampler - UPS - Bus - Other:
	Cool Intact (Initials)	Delivered By: (Circle One)
	15	10000 th
		Toplay Time:
ΩΎes Ω No		//
T 7	Celved By:	Sampler Relinguished: Date: Received By:
and all service of collections, brakeling channey's from	-	
	rded and an other base whate expect to my data which whom back is custed a 150, that to think to the invest ped by the clerk in the tracked of the custed of the custed of the control of the production of the pr	PLEASH 1971: Liebby and Danmon, Cardenius bashiy and deally exclusive remarks of my owns. In the control of the
	1	
-		
		1
7	2ch X	THE STAND TO WOULD AND THE
	GF W/ SC CF SL OT	
3716	ROUN ASTE DIL RUDE UDGE THER EID/BA E/CC)PAB
	: SE:	Lab I.D. Sample I.D.
	ER	ОМР
	MATRIX PRESERV SAMPLING	FOR LAB CHLY
	Fax#:	Sampler Name:
	Phone # 393-9174	Project Location: E. M.E.
	States: W.W. Zips FB2 40	Project Hame: Bux upgrade
	City: Mobbs	Project #: /C - / Project Owner:
	Address: /2 2 W. TA Wor	Phone # 393-9/14 Fax #:
	CHCAN	City: Hobbs State: Zip:
	Company: Lice	Address: 122 W TAYlor
	P.O.映·	Project Manager. Chais Rolle; West
ANALYSIS REQUEST		Company Name: Received tind
Pageof	(505) 393-2326 Fax (505) 393-2476	(915) 673-7001 Fax (915) 673-7020

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ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: CHRIS RODRIGUEZ 122 W. TAYLOR HOBBS, NM 88240

FAX TO:

Receiving Date: 04/17/01 Reporting Date: 04/18/01 Project Number: K-1

Project Name: BOX UPGRADE

Project Location: E.M.E.

Sampling Date: 04/16/01

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: GP Analyzed By: BC/GP

GRO DRO CI* (C_6-C_{10}) (>C₁₀-C₂₈) LAB NO. SAMPLE ID (mg/Kg) (mg/Kg) (mg/Kg)

ANALYSIS DATE	04/17/01	04/17/01	04/17/01
H5793-1 K-1 BOX UPGRADE //'863	<50	<50	304
Quality Control	776	726	960
True Value QC	800	800	1000
% Recovery	97.0	90.7	96.0
Relative Percent Difference	1.3	2.7	6.3

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB *Analysis performed on a 1:4 w:v aqueous extract.



ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: CHRIS RODRIGUEZ 122 W. TAYLOR HOBBS, NM 88240 FAX TO:

Receiving Date: 04/17/01 Reporting Date: 04/18/01

Project Number: K-1
Project Name: BOX UPGRADE

Project Location: E.M.E.

Sampling Date: 04/16/01 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: GP

Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS	DATE	04/17/01	04/17/01	04/17/01	04/17/01
H5793-1	K-1 BOX UPGRADE //'865	<0.005	<0.005	<0.005	0.019

				1
·				
				·
Quality Control	0.101	0.097	0.100	0.290
True Value QC	0.100	0.100	0.100	0.300
% Recovery	101	96.7	100	96.6
Relative Percent Difference	5.8	3.3	1.2	3.7

METHOD: EPA SW-846 8260

Chemist / Cophe

Date RICE OPERATING HOBBS, NM

5

A ARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476 (915) 673-7001 Fax (915) 673-7020

ANALYSIS REQUEST 0 MS188, BOT Address: 122 W. Tyylar 31408 TIME and by the deal to the State: N. M. Zip: 8729 SAMPLING 11/1/1/ BILL TO Phone # 393-9/7, DATE Company: KICC CHY: //066 PRESERV. : ABHTO ICE / COOF P.O. * Attn: ACID/BASE: : ЯЗНТО SCUDGE MATRIX CKUDE OIL ROIT *RETAWETER* State: 1. 1. Zip: 89.140 **ВЕТАМОИ ОРЕЕ** (C) (G) RAB OR (C) OMP 11'865 (Edd 1071): Ushing and Commons. Cardinals halby and shorts metaston remarks for my da Project Owner: BOX 4 PG ROOG Fax #: Sottom Composito Sample I.D. Project Name: K-1 Box Upg & Ade Company Name: Rice Operating TA Y/02 Project Location: E. M. E イン Address: 122 W. Sampler Refinquished Phone #: 5/2 - 9/2 Project Manager: Sampler Name: 115793-1 POR LAB URE CHLY CITY: H. 665 Lab I.D. Project #.

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

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

CHECKED BY: (Infilate)

Sample Condition

Cool Intact

Received By: (Lab Staff)

Date: | 200 | 2:40 PM

Time:

Mis Labia

Relinquished By:

O No Add Phone #:

Phone Result:

RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

BOX LOCATION

SWD S	YSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX	DIMENSIONS -	- FEET
E.N	1.E.	K-1	К	1	20 S	36 E	Lea	Length	Width	Depth
L	<u> </u>		L	<u> </u>	<u> </u>	<u> </u>		13`	11`	6`
LAND T	YPE: !	BLM	STATE	XFEE LA	NDOWNER	Climax (Chemical CC	OTHE	₹	
Donth t	o Grou	ndwater	36.	foot	NMOCD	SITE ASSE	ECCMENT I	PANKING (SCORE:	20
Deptili	o Grou	iluwatei	20	_ieei	INIVIOUD	SITE ASSE	LOGIVILLINT	IVANIVING (300NL	20
Date	Started	04/15	5/2001	_ Date Co	mpleted	04/18/2001	OCD	Witness No)	
Soil Exc	cavated	00	cubic ya	irds Exc	cavation Le	ngth <u>13`</u>	Width	11`	Depth <u>11`</u>	fee
Soil Di	sposed	I <u> </u>	cubic ya	irds Of	fsite Facility	Sundance	e Disposal	Location	1E	.M.E.
	NIALS	TION E	NEOLU T	.						
-INAL A	MAL	Y HUAL F	(E20L)	5. Sampi	e Date	04/18/2	2001	_Sample D	epth	11' BGS
	Pr	ocure 5-poir	nt composit	e sample of	bottom and	4-point con	nposite sam	note of side	walls. TPH.	
					results com					
				procedures	pursuant to	NMOCD gu	uidelines.		_	
Samp	ulo.	Benzene	Tol	uene E	thyl Benzene	Total Xyler	nee C	RO I	DRO	Chlorides
Locati		mg/kg	1	g/kg	mg/kg	mg/kg		g/kg	mg/kg	mg/kg
SIDEW		<0.005		005	0.006	0.028		50	<50	160
BOTT	OM	<0.005	<0	.005	<0.005	0.019		50	<50	304
	-				hauled off it was s. A compacte			CHLO	RIDE FIELD	TESTS
was installed	. Then a	water tight jui	nction box wa	s added and t	hen backfilled.			OCATION	DEPTH	mg/kg
								N wall	2`-5` BG	S 50 ppm
								E wall	2`-5` BG	S 50 ppm
								S wall	2`-5` BG	S 50 ppm
				•				W wall	2`-5` BG	S- 50 ppm
								Vall Comp.		1
								ottom Comp		
							Вс	ottom Comp	···	
***							Вс	ottom Comp	10° BG	3 450 ppm
				·			Bo	ttom Comp	. 11' BGS	S 250 ppm
		·				·				
1	HEREE	Y CERTIFY	THAT TH		TION ABO			PLETE TO	THE BEST (OF MY
DATE		04	/18/2004	, ,, 10				CL-	o Bodriousz	
	1		/18/2001 // /	-	PR	INTED NAME		Chr	s reounguez	·
SIGNATURE		Mus I	odry	US_		TITLE		Environm	ental Technicia	an
				/)						



ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: CHRIS RODRIGUEZ 122 W. TAYLOR HOBBS, NM 88240

FAX TO:

Receiving Date: 04/16/01 Reporting Date: 04/17/01

Project Number: K-1

Project Name: BOX UPGRADE

Project Location: E.M.E.

Sampling Date: 04/12/01

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC Analyzed By: BC/AH

•	GRO	DRO	
·	(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	CI*
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)

ANALYSIS DATE		04/16/01	04/16/01	04/17/01	
H5790-1 BOTTOM COMPOSITE		<50	<50	1060	
H5790-2	SIDES	<50	<50	160	
Quality Control		776	726	960	
True Value QC		800	800	1000	
% Recovery		97.0	90.7	96.0	
Relative Percer	nt Difference	1.3	2.7	6.3	

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB *Analyses performed on 1:4 w:v aqueous extracts.

HOBBS, NM

H5790A.XLS



ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: CHRIS RODRIGUEZ 122 W. TAYLOR HOBBS, NM 88240

FAX TO:

Receiving Date: 04/16/01 Reporting Date: 04/17/01 Project Number: K-1

Project Name: BOX UPGRADE

Project Location: E.M.E.

Sampling Date: 04/12/01 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS [DATE	04/16/01	04/16/01	04/16/01	04/16/01
H5790-1	BOTTOM COMPOSITE	<0.005	<0.005	<0.005	<0.015
H5790-2	SIDES	<0.005	0.005	0.006	0.028
Quality Cont	rol	0.107	0.100	0.101	0.301
True Value C	QC	0.100	0.100	0.100	0.300
% Recovery		107	99.9	101	100
Relative Per	cent Difference	11.0	8.9	10.8	8.5

METHOD: EPA SW-846 8260

Chemist

Date

H5790B.XLS

ARDINAL LABORATORIES, INC.

Relinquished By: Sampler Relinquished Sampler Name: Sampler - UPS - Bus - Other: TEMERITATION AND THE Project Location: E. M.E. Project Name: Bux Company Name: C.C. City: Hobbs Delivered By: (Circle One) Project #: Phone *: 393-9/14 Project Manager: Chais Address: 122 W Lab I.D. POR LAB USE ONLY gest, //f. thibro inchalling these for magignates and any other lea. In the event whell Combail he labbe for heldwald at come H87584 2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020 mga. Carbut's halfly and about suctains remark for my data which whoch broad in test, while he finded to for created public to dat for the so he replymes and any other cases wholesower shall be desired unbess made in swilling and resolved by Carbut within 30 days after completion of the app he hade for heldward or corresponded demagne, brishing whent findeding headers biggraphine, here of some, or here of profits broated by chief, he substitutes, WPGRAde TAYlor ted to the partwent Sample I.D. perAting Rocke : gliez TOTTON COME ころごと Time: Fax # Date: Project Owner: State: 4000 nunder by Cardinal, regarding of shadler such debte is based upon my of the shore clothed reason in the Cardinal By: Zip: (F2K) (G)RAB OR (C)OMP Received By: (Lab Stat) 101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476 # CONTAINERS GROUNDWATER No No Sample Condition WASTEWATER MATRIX SOIL CRUDE OIL SLUDGE OTHER FEX States: W.W. Zips City: 110665 Attn: P.O. # Phone # 393-9/74 Company: Lice Address: / 7 2 W. ACID/BASE: PRESERV CHECKED BY: ICE / COOL (Initials) BILL TO OTHER: transplantar emphasion of the applicable transplants, in substitution, SAMPLING DATE F8240 TA Y/or Phone Result: Fax Result: REMARKS: IME BTBY, FORM, П Хев □ □ ₹ ₹ ANALYSIS REQUEST Add'l Fax #: Add'l Phone #: Terras and Conditions: Interest will be storaged up all too. 36 days park the at its rate of 36% per aroun been ing a and all each of orthodors, including attempts inco. 9 THE REAL PROPERTY.



ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: CHRIS RODRIGUEZ 122 W. TAYLOR HOBBS, NM 88240 FAX TO:

Receiving Date: 04/17/01 Reporting Date: 04/18/01 Project Number: K-1

Project Name: BOX UPGRADE

Project Location: E.M.E.

Sampling Date: 04/16/01

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: GP Analyzed By: BC/GP

ANALYSIS DATE	04/17/01	04/17/01	04/17/01
H5793-1 K-1 BOX UPGRADE	<50	<50	304
Quality Control	776	726	960
True Value QC	800	800	1000
% Recovery	97.0	90.7	96.0
Relative Percent Difference	1.3	2.7	6.3

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB *Analysis performed on a 1:4 w:v aqueous extract.

Buy 4 A. Coshe

Date Date

HOBBS, NM



ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: CHRIS RODRIGUEZ

122 W. TAYLOR HOBBS, NM 88240

FAX TO:

Receiving Date: 04/17/01 Reporting Date: 04/18/01

Project Number: K-1

Project Name: BOX UPGRADE

Project Location: E.M.E.

Sampling Date: 04/16/01

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: GP

Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS	DATE	04/17/01	04/17/01	04/17/01	04/17/01
H5793-1	K-1 BOX UPGRADE	<0.005	<0.005	<0.005	0.019
Quality Con	itrol	0.101	0.097	0.100	0.290
True Value	QC	0.100	0.100	0.100	0.300
% Recovery	1	101	96.7	100	96.6
Relative Pe	rcent Difference	5.8	3.3	1.2	3.7

METHOD: EPA SW-846 8260

Chemist

1/18/01 Date

RICE OPERATING HOBBS, NM

H5793B.XLS

Page / of /

ZARDINAL LABORATORIES, INC. 2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Company Name: 1/20	Niep, Duration						ANAI VSIS DEGITECT		Γ
2 000/	perking					`[•		1
- V - V - V - V - V - V - V - V - V - V			P.O. #.						
Address: 124 W. TA	TAYlor		company: R.CC						
CHy: Hobbs	State: N. M. ZIP: 89240	Up: 89240	Attn:						
Phone # 5/2 -9174	Fax #:		Address: 124 W. TAYlar	TXILOR					
Project €: K-/	Project Owner:		CHy: Hobbs						
Project Name: K - $/$ $\mathcal{E}_{\theta X}$	UNDRAGE		State: A. M. Zip: (129)	218					===
Project Location: E. M.	ξ. 0		Phone # 393-9/74	S.					
Sampler Name: Sottom	Sottom Composito		F8X #:		U				
POR LAB LINE CHLY		MATRIX	PRESERV. SAMPLING	NG P	U)				_
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP. CONTAINERS SOUNDWATER VASTEWATER SOIL SOIL SUIDE OIL SLUDGE	: язьятс :: эзья,сі:>,сір,ча,сі; : язнтс : язнтс		D. EV. 8615	. 70			
135793-1 K-1	Box 4 pe 1206	D	K C	+-	7 7 7	F			T
									TT
			1 1						
1 , 2	hakily and alsoft certainto remedy for any or of any other easter windersows that he does that or empressed departs, building the			ofer completes of to applicable			Terms and Confidence, balved of Mr. yes	[[]	1
situates or exposurem arising set of or related to the parter	- 81	ass of services handsider by Cardinal regardens of whether such claim is base	ed upon any of the above as	a character.		- 1			Į
Company was reading		received by:		Fax Result		2 <u>2</u>	Add1 Fax #:		
Church Lodings				REMARKS:					
Relinquished By: // <	1 200 / 1/200 / 1 1 1 1 1 1 1 1 1 1	Received By: (Lab Staff)							
Delivered By: (Circle One)		Sample Condition	H E						
Sampler - UPS - Bus - Other:	Jef.:						,		····

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.