1R - 427-29

REPORTS

DATE:

11-21-2003

IR0427-29

FINAL

REPORT

RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

				BOX LOC		r-22			
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNT		IMENSIONS - FE Width	
EME	P-34	Р	34	198	36E	Lea	Length	ed 73 ft southwes	Depth
		······································	L			L.,,,	1000	ed 73 it southwes	<u> </u>
LAND TYPE:	3LM	STATE	FEE LA	NDOWNER	James /	A. Foster,	Jr. OTHER	<u> </u>	
Depth to Groun	ndwater	47	feet	NMOCE	SITE ASSI	ESSMEN	T RANKING S	CORE:	20
Date Started	9/10/2	2003	Date Co	mpleted	10/3/2003	oci	O Witness	No	
Soil Excavated	200	cubic ya	rds Exc	cavation Le	ength25	Wid	ith 16	Depth	12 feet
Soil Disposed	0	cubic ya	rds Of	fsite Facility	n.	/a	Location	n/a	a
	ocure 5-poin	t composite	e sample of oratory test	bottom and results com	4-point com	nposite sa sing an ap	Sample De ample of sidew proved lab an	alls. TPH,	2 ft bgs
Sample Location SIDEWALLS BOTTOM BACKFILL	PID ppm 13.1 26.7 18.1		RO g/kg 0.0 xx 0.0	DRO mg/kg <10.0 xxx <10.0	Chloride mg/kg 528 800 384		CHLOR	IDE FIELD TE	STS
					*		LOCATION	DEPTH (ft)	ppm
Seneral Descriptio	n of Remedia	al Action:	This junction	box site was o	delineated	1	ertical @ source	6	907
vith a backhoe while o					·····	——		8	917
	 	 	7						
mpact was minimal ar		 	***********	 	····			10	690
chloride concentration	·····	·····	······································	·····		<u> </u>		12	1165
hloride declination we	ere not determi	ned within the	e 25 x 16 x 12	?-ft-deep excav	vation. The	-		14	603
xcavation was backfil	lled with the ble	ended excava	ited material i	up to 6 ft bgs.	To inhibit furth	ner	5 ft North	6	1753
ownward migration o	f chloride impa	ct, a 1.5 ft co	mpacted clay	barrier was in	stalled at 6 ft b	ogs		7	1109
nd extended over she	elves made to s	surround the	original excav	/ation (see dia	gram). The			9	890
emaining blended ma	iterial was then	backfilled or	top of the cla	ay up to the su	rface. The			10	735
isturbed surface was	re-seeded with	native vege	tation on 10/1	5/2003 and wi	ill be monitored	d		12	555
or growth.		······································			**************************************		bottom comp.	12	682
	sures: lab resu	ilts, chloride (oraphs, photo	s. clav density	test	l	4-wall comp.	n/a	784
		 	section of exc	······································			backfill	n/a	694
	Y CERTIFY		KNO	OWLEDGE /	'E IS TRUE AND BELIEF INTED NAME	=,	MPLETE TO T	HE BEST OF	MY
IGNATURE &	Vousin -	Janin)		TITI F		Proje	ct Scientist	

EME jet. P-34



Undisturbed Junction Box Prior to NORM Removal



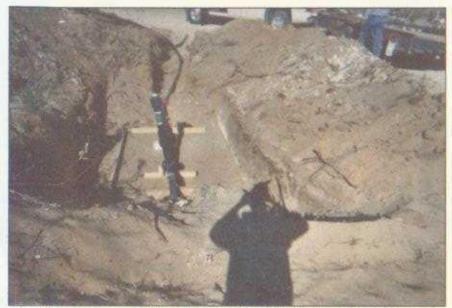
Compacting and Testing Clay Liner at 6 ft BGS 10/2/2003



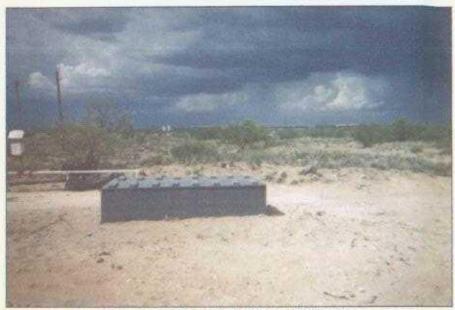
Excavation Sept. 2003



Backfilled Site with ID Plate Marking Clay Below



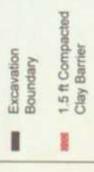
Construction of New Junction Box With New Plumbing

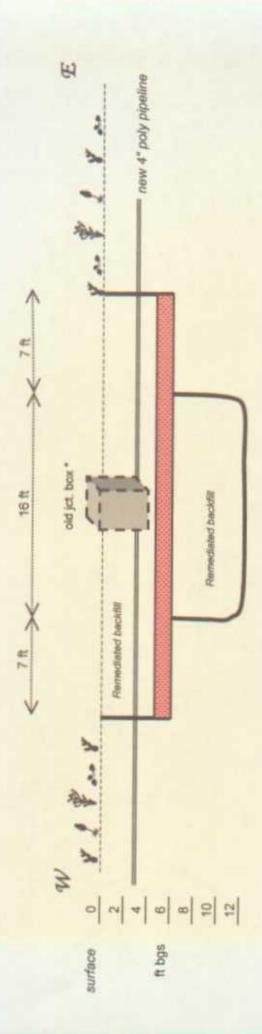


Completed Box 73 ft SW 8/29/2003



Seeding Disturbed Area 10/15/2003





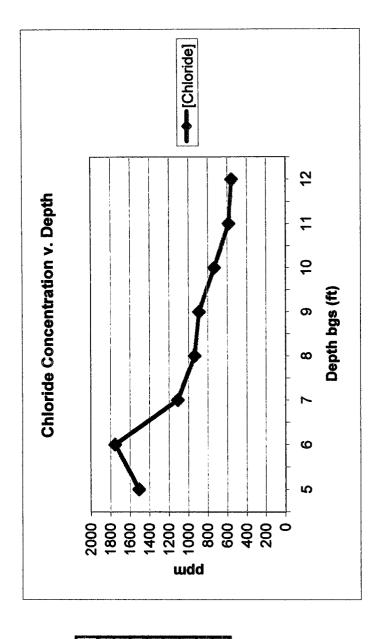
^{*} New junction box has been built 73 ft Southwest from old junction.

EME jct. P-34 T198, R36E

5 ft North from Junction

5 1508 6 1753 7 1109 8 937 9 890 10 735 11 585	Depth bgs (ft)	[CIT] ppm
	5	1508
	9	1753
	7	1109
	80	937
	6	890
11 585	10	735
	11	585
12 555	12	555

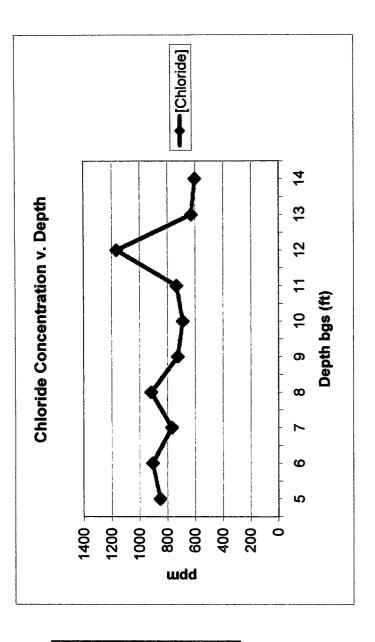
Groundwater = 47 ft



EME jct. P-34 T19S, R36E

[CI] ppm	852	206	692	917	726	969	735	1165	628	603
Depth bgs (ft)	5	9	7	8	6	10	11	12	13	14

Groundwater = 47 ft





LABORATORY TEST REPORT PETTIGREW and ASSOCIATES, P.A.

1110 N. GRIMES HOBBS, NM 88240 (505) 393-9827



DEBRA P. HICKS, P.E./L.S.I. WILLIAM M. HICKS. III, P.E./P.S.

To:

Rice Operating Corporation

Attn: Carolyn Haynes

122 W. Taylor

Hobbs, NM 88240

EME Junction P-34

Date of Test:

Project:

October 2, 2003

Depth:

Material:

Test Method:

Finished Subgrade

Red Clay

ASTM: D 2922

Test No.

Location

Dry Density % Maximum

% Moisture

Depth

SG-1

Pit - 10' W. & 5' N. of the SE Corner

97.5

18.5

Control Density:

104.2

ASTM: D 698

Optimum Moisture:

23.1%

Required Compaction:

95%

Lab No .:

03 6187-6188

Copies To:

Rice Operating

PETTIGREW and ASSOCIATES



PHONE (325) 673-7001 . 2111 BEECHWOOD . ABILENE, TX 79603

PHONE (505) 393-2326 - 101 E. MARLAND - HOBBS, NM 88240

ANALYTICAL RESULTS FOR

RICE OPERATING CO.

ATTN: KRISTIN FARRIS

122 W. TAYLOR

HOBBS, NM 88240

FAX TO: (505) 397-1471

Receiving Date: 11/19/03

Reporting Date: 11/19/03

Project Number: NOT GIVEN

Project Name: EME P-34

Project Location: LEA COUNTY

Analysis Date: 11/19/03

Sampling Date: 09/16/03

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: AH

LAB NUMBER SAMPLE ID (mg/Kg)

H8187-1 E	BOTTOM 12' COMP.	800
,		
Quality Control		. 1000
True Value QC		1000
% Recovery		100
Relative Percent Diffe	erence	2.0

METHOD: Standard Methods 4500-CFB

Note: Analysis performed on a 1:4 w.v aqueous extract.

My AU

11119103 Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any cizim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (90) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

18187

9/42565809 07:51 F007/61/TT

CHAIN OF CUSTODY AND ANALYSIS REQUEST

RARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79503 101 East Marland, Hobbs, Yim 86240

Company Name: RICE Opticating Campany 1-13/84 Figlisct # Samplar Maine: Address: 122 W. Taylor Sumpler - UPS - Bus - Others Relinquished By: strates and the second terms of the second second second second riplect Hama: 1 Halber infact Lacution: 1116-242 # airuit KURI BERKE CHIN Delivered By: EARE 197(E: Likely and Destrayon, Candrad's inbility and about a such about seconds for any should untake behavior 1 at 1.0 13 Company X (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2410 (Circle One) Sallar 047 Ves Sample I.D. 7 rand odmirome plad to domindrahaj kihas pada in adig malryoshod by Cankal vikin kilaja shi vaja kila vi azpikalik Ayustid immiya, tekilag viktod irakata, badoori tooriyibre, kod staa, or kas ülpaka kazailiky dad in adalana, 55 12, July Jima: Project Owner: Fax #: 797-147 State: NM Zip: 82240 (G)RAB OR (C)OMP Received By: It ab Staff G F CONTAINERS GROUNDWATER WASTEWATER BOIL MATRIX ICRUDE OIL SLUDGE Addinosa OTHER : TAX F State: City Allu ₽O.₩ Phone # Company: PHESEAV IACID/BASE. HOE / COO. (Indital) IOTHEF. 1318 7/18 2 race of paid by Was clear has the SAMPI HIG DATE. Phone Result; Fax Yushik: HELPARKS: 10:15 1403. Kay 2 Chloride ∏Yea □Yea X 1000 Add'l Phone #: ANALYSIS REQUEST Al days pout don at the emb of 24th per arrain tron the explaint that of thereign and at coats of cohordran, behinds attentions from . Page 9





PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

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

FAX TO: (505) 397-1471

Receiving Date: 09/26/03

Reporting Date: 09/27/03

Project Number: NOT GIVEN Project Name: EME P-34

Project Location: LEA CO., NM

Sampling Date: 09/22/03

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC Analyzed By: BC/AH

ANALYSIS	DATE	09/26/03	09/26/03	09/26/03
H8039-1	BOTTOM 6' COMPOSITE	<10.0	<10.0	1070
H8039-2	4 WALL COMPOSITE	<10.0	<10.0	528
H8039-3	STOCKPILE 5 POINT	<10.0	<10.0	384
Quality Con	trol	765	803	980
True Value	QC	800	800	1000
% Recovery	/	95.7	100	98.0
Relative Pe	rcent Difference	7.4	2.3	2.0

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

Buy eff A Cothe

Date

H8039.XLS

K	
N A	į

RDINAL LABORATORIES, INC.

(915) 673-7001 Fax (915) 673-7020	0 (505) 393-2326 Fax (505) 393-2476	05) 393-2476		Page of	
Company Name: RICE Operating Company	_ :	DIL 110		ANALYSIS REQUEST	
tin Faccits	P.O.	0. #:	and the second second		
Address: 122 W. Taylor	Cc	Company: RICE			
City: Hobbs State: NM	Zip: 88240 AI	Atin:			
-9174 F		Address:			
		Clly:			
Project Name: EmE -34	St	State: Zip:			
Project Location:	Ph	Phone #:	10		
Sampler Name: ()	7.	Fax e:			
	MATRIX	PRESERV SAMPI ING	J		
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL CRUDE OIL SLUDGE OTHER:	IACID/BASE: ICE / COOL IOTHER :	THN		
NBB9-1 Boxtom o' Composite	6 1	1 9-22-03	13:46 4 4		
- J well comperciate	7 9 5	A. 22.03/	13:08 + +		
3 Stockpile 5 point	C & X	1 9-22-03/	15.29 t		
REASE NOTE: Libbily and Damages, Candina's hisbilly and clears, so taken cannot be and be supported to be a smooth pick by the clear for the impact. It clears to be a smooth pick by the clear for the impact, and clears in the cannot be cannot be cannot be desired worked a team made in writing and recorded by Cannot be also be been produced in writing and control by Cannot be also be been been been produced in the cannot be also be been been been produced in the cannot be also been produced by Cannot be also been been been produced by Cannot be also been produced by Cannot been produced by Cannot be also been produced by Cannot been produced by Cannot be also bee	claim arthing whether based in contract or bot, at most waked is less mode in writing and received i bout limitation, business interruptions, bost of use milest recording of whether such thair is based in	2 2 4	lier to the an of the applicable balanches,	Terms and Conditions: laivest will be charged on all seconds mose from 30 days part das at the case of 24% par arrum from the original date of the and all costs of collections, trailably expense/s from.) medica
Sampler Relinquished: Time: Received By:	Received By:	1	Phona Rasult: 11 Yes L Fax Rasult: 11 Yes L REMARKS:		
Relinquished By: Date: 5-26-03 Colivered By: (Circle One)	Received By: (Lab Staff)	CHECKED BY:	for copy	To Rice	
Suffer - UPS - Bus - Other:	Cool Intact	(h.itlals)			

ETGI

25-X 18 X 12 deep

JUNCTION BOX FINIL report Bottom /4 Well / Stockpile composite
SITE EXCAVATION INFORMATION

DATE	DEPTH	CL	PID	TPH	SOIL COMPOSITION
				Jony Re	
9-16-03	Bottom 12	682	26.7	سرر	miy
	ywall.	592	30,0	32	<u> </u>
	Stockpile	772	21.5	23	
(N.W.LLT	426	26.5	34	
	5. Wall 18'	27/	28.7	·	i (
<u> </u>	w. well B'	7 2 سی	21.5	199	1
!	E. W. 118	628	23.4	30	<u> </u>
	:		:	:	1
	:				i
	• 🕆		i .	:	
	;		: :		
			;		:
	-		:	`	
	<u> </u>				
····	`				
					:
-				,	:
		· · · · · · · · · · · · · · · · · · ·	!		
		· · · · · · · · · · · · · · · · · · ·		·	
				·	· · · · · · · · · · · · · · · · · · ·
	:		-		:
	·		: :		
				<u> </u>	
	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		A
		·	i	1	
				:	
·	·····	· · · · · · · · · · · · · · · · · · ·		!	
	· · · · · · · · · · · · · · · · · · ·			:	
	· · · · · · · · · · · · · · · · · · ·			;	
		······································		:	***
				İ	

May Stort

ETSI

SITE EXCAVATION INFORMATION EME 1-34 CL LAB PID TPH SOIL COMPOSITION DATE DEPTH Tons RE 166 C 9-22.03 Battomb' 989 100 15.5 48 €6 € 13.1 49 \subset 18.1 69454 62 5 for Kall N.W.167' 737 14.7 5 67 20 667 18.2 5. Cu 14 18 W. well 15 24 13.6 494 E. Wall 15" 800 17.1 73

Jones Adul