1R - 427 - 145_

REPORTS

DATE:

8-5-04

EME JG. 0-24-1

[R\$42)-145

FINAL

REPORT

RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

BOX LOCATION

	SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNT	Y BOX	DIMENSIONS - FE	ET	
	ЕМЕ	O-24-1	0	24	208	36E	Lea	Length	Width minatedno box	Depth	
				<u> </u>	.]	<u> </u>		e e	minated-no box		
	LAND TYPE: E	BLMSTAT	TE	_FEE LAND	OWNER_D	ale Cooper F	amily Tru	ist_OTHER			
	Depth to Groun	ndwater 36-	117?	_feet	NMOCD	SITE ASSE	SSMEN	IT RANKING S	CORE:	?*	
	Date Started	5/19/200)4	_ Date Co	mpleted	6/16/2004	oc	D Witness	No		
	Soil Excavated	44	cubic ya	ırds Ex	cavation Le	ngth10	w	idth 10	Depth	12feet	
	Soil Disposed 0 cubic yards Offsite Facility n/a Location n/a										
	FINAL ANALYTICAL RESULTS: Sample Date 5/21/2004 Sample Depth 12 ft Procure 5-point composite sample of bottom. TPH and Chloride laboratory test										
		d by using an ap		b and testir				CHLOF	RIDE FIELD TE	STS	
		. 4771	galo				[LOCATION	DEPTH (ff)	ppm	
Г	Sample	PID	G	RO	DRO	Chloride		Vertical	6	449	
	Location	ppm	me	g/kg	mg/kg	mg/kg		at source	7	359	
	воттом	0.0 (grab)	<1	0.0	<10.0	42.5			8	689	
	BACKFILL	0.0	<1	10.0	<10.0	48			9	929	
-					A STATE OF THE STA				10	539	
									11	629	
Ge	neral Descriptio	n of Remedial A	ction:	Delineation	and excavation	were perform	ed		12	299	
at ti	nis junction box site	e with a backhoe as	chloride fiel	ld tests and F	ID field screen	ings were		5 ft West	6	149	
con	ducted at regular ir	ntervals. Vertical de	lineation at	the box yield	ed an overall tr	end of chloride	e		8	179	
dec	line and low conce	ntrations. A spike w	as observe	d at around 9	ft indicating a	mass of histor	ical		10	179	
chlo	ride that has been	flushed through the	loose sand	by recent ra	ins (see graph)	. The graph			12	149	
indi	cates non-saturate	d vadose conditions	that are no	t threatening	to groundwate	r. All PID		5 ft East	6	119	
rea	dings were 0.0 ppm	and laboratory res	ults confirm	ed TPH conc	entrations well	below			8	209	
NM	OCD guidelines. S	Soils from the 10×1	0 x 12-ft de	ep excavation	were blended	before they			10	179	
wer	e backfilled into the	e hole. The surface	has been c	ontoured and	will be seeded	with a blend of	of		12	89	
nati	ve vegetation. Thi	s junction has been	eliminated	with a new pi	peline re-plumb	ed straight					
	native vegetation. This junction has been eliminated with a new pipeline re-plumbed straight through. * Depth to groundwater here is ambiguous. USGS maps indicate that the site is located on a hydrogeologic boundary or fault north of which groundwater is around 36 ft but is enclosures: groundwater map, chloride graph, photos, lab results, PID field screenings 117 ft to the south.										
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.											
SIT	E SUPERVISOR	Rob Elam	SIG	SNATURE	KI CL	<u> </u>	co	OMPANY Curt's E	EnvironmentalOd	essa, TX	
REI	PORT ASSEMBLE	D BY Kris	tin Farris P	оре	SIGNATURE	Kni	2110	Annie	Pope		
	D	ATE	8/5/2004	<u>.</u>	TITLE	<u> </u>		Project Scient	ist /		

EME jct. 0-24-1

unit 'O', Sec. 24, T20S, R36E



Undisturbed junction box





backhoe delineation





seeding disturbed surface

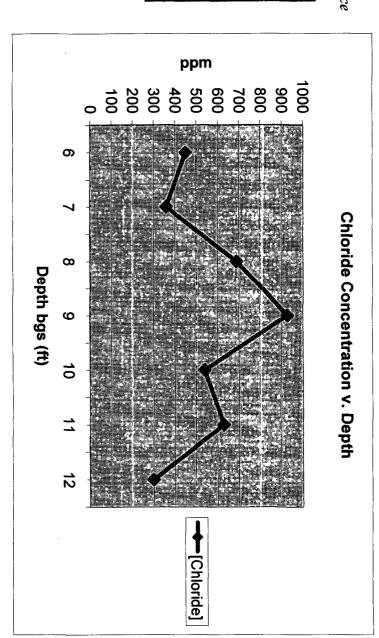
8/4/2004

EME jct. O-24-1 T20S, R36E

Vertical Delineation at Source

12	11	10	9	8	7	6	Depihibys (II)
299	629	539	929	689	359	449	

Groundwater = 36-117 ft







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

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: ROY RASCON 122 W. TAYLOR HOBBS, NM 88240 FAX TO: (505) 397-1471

Receiving Date: 07/30/04

Reporting Date: 08/02/04

Project Number: NOT GIVEN Project Name: JCT O-24-1

Project Location: EME

Sampling Date: 07/30/04

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: HM Analyzed By: BC/AH

 $\begin{array}{cccc} & & & GRO & DRO \\ & & (C_6-C_{10}) & (>C_{10}-C_{28}) & & Cl^{\star} \\ \text{LAB NUMBER SAMPLE ID} & & (mg/Kg) & (mg/Kg) & (mg/Kg) \\ \end{array}$

ANALYSIS DATE	08/02/04	08/02/04	08/02/04
H8961-1 BACKFILL COMPOSITE	<10.0	<10.0	48
Quality Control	785	749	1000
True Value QC	800	800	1000
% Recovery	98.1	93.7	100
Relative Percent Difference	0.6	2.2	1.0

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

Chemist

Date

H8961.XLS

ARDINAL LABORATORIES, INC.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2111 Beechwood, Abliens, TX 78603 101 East Marland, Hobbs, NM 88240	be, NM 88240	•
(915) 673-7001 Fex (915) 673-7020 (605) 393-2328 Fex (605) 393-2478	35) 393-2476	eSed
Company Name: RICE Obercation	SHILL TO	ANALYSIS REQUEST
Project Manager: Roy Raskon	P.O.#:	
Address: 123 W. Taylor	Company:	
City: Hobbs State: NW 219: 88240	Attn:	
Phone #: 393-9174 Fax#: 397-1471	Address:	
Project 0wner:	Ofty:	
Project Name: Jet 0.24-1	State: Zip:	

Phone 🗱

Fax #:

Sampler Name: Keb ElAM FOLLS USE OF INTERPRETATION OFFICIAL OFFICI

Project Location: EME

Terms and Canditione: filtered will be charged on all accounts more than 50 days post due at the miss of 24% por annum from the original date of in and all costs of culterform, including attorney's fers. 9:40 力製品 7-30-04 DATE : ABHTO OIF TIOS MASTEWATER (G)RAB OR(C)OMP. IASE NOTE. Labdity and Demisgra. Cardinals lability and client's exclusin remedy for any claim arisin Composite Backf:11 18461-

CY101:902

5108

Sample I.D.

Lab I.D.

20.08 May ampler

Time: /0.20

Hope & Holen Received By: (Lab Staff) 20 - 30 - 24 - 24 - 24 - 25 - 24 Sampler - UPS - Bus - Other: Delivered By: (Circle One)

BAK FAX PEPART PLEME

+ Cardinal cannot accept verbal changes. Please fax written changes to (915) 673-7020.



Analytical Report

Prepared for:

Kristin Farris
Rice Operating Co.
122 W. Taylor
Hobbs, NM 88240

Project: Jct. O-24-1

Project Number: None Given

Location: EME

Lab Order Number: 4E25002

Report Date: 05/28/04

Rice Operating Co.

122 W. Taylor Hobbs NM, 88240 Project: Jct. O-24-1

Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported: 05/28/04 10:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
12' Bottom	4E25002-01	Soil	05/21/04 16:30	05/25/04 08:05

Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
05/28/04 10:47

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
12' Bottom (4E25002-01) Soil									, , , , , , , , , , , , , , , , , , ,
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE42503	05/25/04	05/26/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	*	-	•	•	•		
Total Hydrocarbon C6-C35	ND	10.0		*	n	*	Ħ		
Surrogate: 1-Chlorooctane		95.6 %	70-1.	30	n	п	"	n	
Surrogate: 1-Chlorooctadecane		98.8 %	70-1.	30	n	Ħ	•	"	

Environmental Lab of Texas

Raland Kashell

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Quality Assurance Review

Page 2 of 6

Project: Jct. O-24-1

Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported: 05/28/04 10:47

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
12' Bottom (4E25002-01) Soil Chloride	42.5	20.0 m	ng/kg Wet	2	EE42609	05/26/04	05/26/04	SW 846 9253	
% Solids	86.0		%	1	EE42605	05/25/04	05/25/04	% calculation	

Environmental Lab of Texas

Raland Kethels

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Quality Assurance Review

Page 3 of 6

Project: Jct. O-24-1

Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported: 05/28/04 10:47

Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
								-		
Batch EE42503 - Solvent Extraction (GC)				- 10		06/26/04				
Blank (EE42503-BLK1)				Prepared &	Analyzed:	05/25/04				
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	*							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	43.3		mg/kg	50.0		86.6	70-130			
Surrogate: 1-Chlorooctadecane	43.4		"	50.0		86.8	70-130			
.CS (EE42503-BS1)				Prepared &	k Analyzed:	05/25/04				
Gasoline Range Organics C6-C12	417		mg/kg	500		83.4	75-125		1.71	
Diesel Range Organics >C12-C35	448		•	500		89.6	75-125			
Total Hydrocarbon C6-C35	865		*	1000		86.5	75-125			
Surrogate: 1-Chlorooctane	47.5		,	50.0		95.0	70-130			
Surrogate: 1-Chlorooctadecane	35.9		"	50.0		71.8	70-130			
Calibration Check (EE42503-CCV1)				Prepared: (05/25/04 A	nalyzed: 05	/27/04			
Gasoline Range Organics C6-C12	403		mg/kg	500		80.6	80-120			
Diesel Range Organics >C12-C35	479		•	500		95.8	80-120			
Total Hydrocarbon C6-C35	882		*	1000		88.2	80-120			
Surrogate: 1-Chlorooctane	55.9		n	50.0		112	70-130	* * * * * * * * * * * * * * * * * * * *		
Surrogate: 1-Chlorooctadecane	43.7		**	50.0		87.4	70-130			
Matrix Spike (EE42503-MS1)	Sou	rce: 4E25003	J-02	Prepared: (05/25/04 A	nalyzed: 05	/26/04			
Gasoline Range Organics C6-C12	469	10.0	mg/kg dry	556	ND	84.4	75-125			
Diesel Range Organics >C12-C35	522	10.0		556	ND	93.9	75-125			
Total Hydrocarbon C6-C35	991	10.0		1110	ND	89.3	75-125			
Surrogate: 1-Chlorooctane	57.1		mg/kg	50.0		114	70-130		·	
Surrogate: 1-Chlorooctadecane	40.8		"	50.0		81.6	70-130			
Matrix Spike Dup (EE42503-MSD1)	Sou	rce: 4E25003	3-02	Prepared: (05/25/04 A	nalyzed: 05	6/26/04			
Gasoline Range Organics C6-C12	512	10.0	mg/kg dry	556	ND	92.1	75-125	8,77	20	
Diesel Range Organics >C12-C35	539	10.0		556	ND	96.9	75-125	3.20	20	
Total Hydrocarbon C6-C35	1050	10.0		1110	ND	94.6	75-125	5.78	20	
Surrogate: 1-Chlorooctane	59.9		mg/kg	50.0		120	70-130			
Surrogate: 1-Chlorooctadecane	43.1		~	50.0		86.2	70-130			

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Roland Kestule

Project: Jct. O-24-1

Project Number: None Given Project Manager: Kristin Farris Fax: (505) 397-1471

Reported: 05/28/04 10:47

General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE42605 - General Preparation (Prep)										
Blank (EE42605-BLK1)				Prepared &	Analyzed:	05/25/04				
% Solids	100		%							
Duplicate (EE42605-DUP1)	Sou	rce: 4E24004	-01	Prepared &	Analyzed:	05/25/04				
% Solids	70.0		%		71.0			1.42	20	
Batch EE42609 - Water Extraction								·		
Blank (EE42609-BLK1)				Prepared &	Analyzed:	05/26/04				
Chloride	ND	20.0	mg/kg Wet							
Matrix Spike (EE42609-MS1)	Sou	rce: 4E25002	-01	Prepared &	Analyzed:	05/26/04				
Chloride	510	20.0	mg/kg Wet	500	42.5	93.5	80-120			
Matrix Spike Dup (EE42609-MSD1)	Sou	rce: 4E25002	-01	Prepared &	Analyzed:	05/26/04				
Chloride	521	20.0	mg/kg Wet	500	42.5	95.7	80-120	2.13	20	
Reference (EE42609-SRM1)				Prepared &	k Analyzed:	05/26/04				
Chloride	5000		mg/kg	5000		100	80-120			

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Raland Kestell

 Rice Operating Co.
 Project: Jct. O-24-1
 Fax: (505) 397-1471

 122 W. Taylor
 Project Number: None Given
 Reported:

 Hobbs NM, 88240
 Project Manager: Kristin Farris
 05/28/04 10:47

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Quality Assurance Review

Raland Kethelle

Page 6 of 6

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Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763

Phone: 915-563-1800 Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name:

Keistin Facris

COMPANY NAME ALCE OPERATION Project Manager:

City/State/Zip: + fabbs, NM 88240 Company Address: / 23 N. Taylor

Telephone No(505)393-9/74

Sampler Signature:

Project Lac:

Project #:

PO #:

iii iii iii ii ii ii ii ii ii ii ii ii	TDS /OL / SAMHER TDH 41B. TO TDS /OL / SAMHER TPH 40 / TDH 41B. TO TO TO TO TO TPH 41 / TDS / OL / SAMHER TO TO TO TO TPH 41 / TDS / OL / SAMHER TO TO TO TO TPH 41 / TDS / OL / SAMHER TO TO TO TPH 41 / TDS / OL / SAMHER TO TO TO TPH 41 / TDS / OL / SAMHER TO TO TO TPH 41 / TDS / OL / SAMHER TO TO TO TPH 41 / TDS / OL / SAMHER TO TO TO TPH 41 / TDS / OL / SAMHER TO TO TO TPH 41 / TDS / OL / SAMHER TO TO TO TPH 41 / TDS / OL / SAMHER TO TO TO TPH 41 / TDS / OL / SAMHER TO TO TO TPH 41 / TDS /
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TRANSMISSION OK

TX/RX NO

1342

CONNECTION TEL

14325631713

SUBADDRESS

CONNECTION ID

05/25 07:52

ST. TIME USAGE T

00'59

PGS. SENT

2

RESULT

OK

RICE Operating Company

122 West Taylor Hobbs, NM 88240 Phone: (505) 393-9174 Fax: (505) 397-1471

TO:	FROM:
Samples of Drop Box	Kob Dan
FAXNUMBER:	DATE.
432 563 1713	5/25/04
COMPANY:	TOTAL NO. OF PAGE INCLUDING COVER:
Env. hab DIX	2
RF.	
NOTES/COMMENTS:	
	The state of the s

RICE OPERATING COMPANY

122 WEST TAYLOR HOBBS, NEW MEXICO 88240

PHONE: (505) 393-9174 FAX: (505) 397-1471

· VOC FIELD TEST REPORT FORM

MINI RAE PLUS CLASSIC PHOTOIONIZATION GAS DETECTOR

MODEL NO: PGM 761S

SERIAL NO: 104412

CALIBRATION GAS

GAS COMPOSITION: ISOBUTYLENE AIR

100 PPM

BALANCE

LOT NO: 03-2475

EXP. DATE: 10-19-0 METER READING

FILL DATE:

ACCURACY: 1

ACCURACY: ___

	SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
-	EME	0-24-1	0	24	20-5	36E

50ur	ce	5'	West
SAMPLE	PID RESULT	SAMPLE	PID RESULT
6	&	6	b
7'	&	7'	b
8'	X	8'	8
Q'	l &	9'	8
10'	182	10' -	l &
<i>u</i> ′	×	11'	8
12	Ø	12'	B
			-

I serrify that I have calibrated the above instrument in accordance to the mammacture operation manual.

RICE OPERATING COMPANY

122 WEST TAYLOR

HOBBS, NEW MEXICO 88240

PHONE: (505) 393-9174 FAX: (505) 397-1471

· VOC FIELD TEST REPORT FORM

MINI RAE PLUS CLASSIC PHOTOIONIZATION GAS DETECTOR

MODEL NO: PGM 761S

SERIAL NO: 104412

CALIBRATION GAS

GAS COMPOSITION: ISOBUTYLENE

100 PPM

BALANCE

LOTNO: 03

FILL DATE: 4-19 ACCURACY: ±

EXP. DATE: 10-19 -05 METER READING

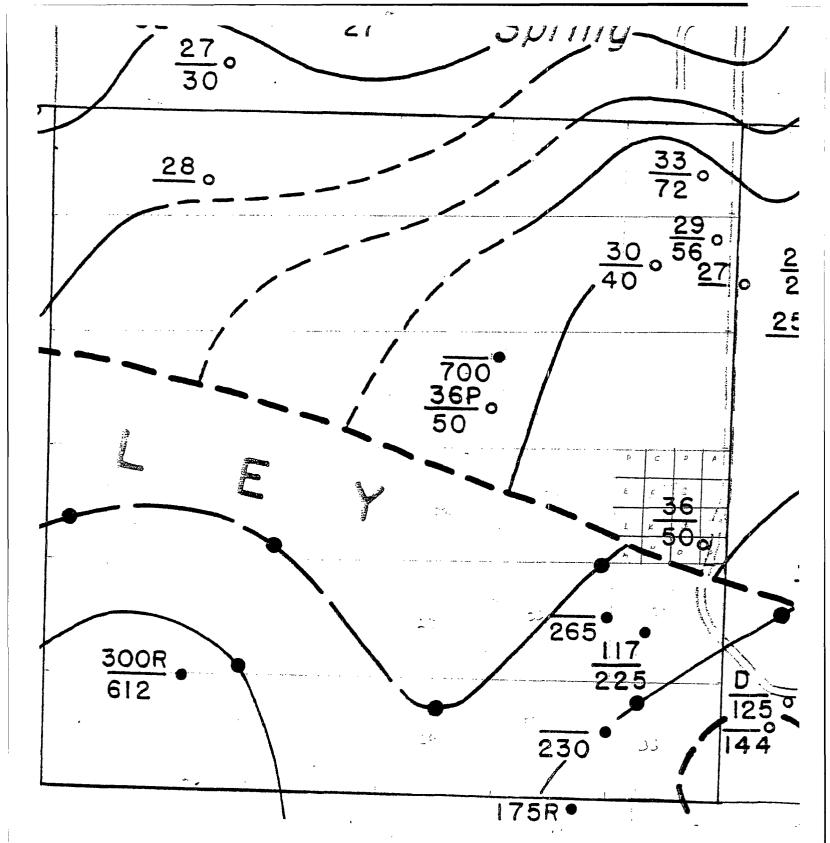
ACCURACY: ___

100.1

EME	0-24-1	0	24	20.5	36E
SYSTEM	JUNCTION	TIMU	SECTION	TOWNSEIP	RANGE

5' Ea	3 †		and the second s	
SAMPLE	PID RESULT	SAMPLE	PID RESULT	8
6'	\ &			10000000000000000000000000000000000000
7'	8		and Drawn.	
8'	N N			ļ
9'	<u> </u>			1
10'	<u> </u>			
<u> </u>	<u> </u>			
12'	8			_
].
				1
		i company		

I certify that I have calibrated the above instrument in accordance to the manufacture overation manual.



blown-up from <u>Plate 2</u> Groundwater Map of Southerr Map <u>Lea County</u>, New Mexico

from USGS book "Geology & Groundwater Conditions in Southern Lea County, New Mexico.

by Nicholson + Clebsch 1961