# 1R - 427 - 146

## REPORTS

DATE:

8-25-04

EME Gullully "A" ECL

1RO427-146

## FINAL

REPORT

### RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

BOX LOCATION

		BOX LOCA	AHON				
SWD SYSTEM JUNCTION UN	IT SECTION		RANGE	COUNTY		IMENSIONS - FE	
EME Gullully 'A' O	24	208	36E	Lea	Length	Width Eliminated	Depth
	1		<u>,                                     </u>	*****	<u> </u>	Limitatod	
LAND TYPE: BLMSTATE	EFEE L/	ANDOWNER .	Dale Coop	er Family T	rust_OTHER		
Depth to Groundwater 36-117	7?feet	NMOCD :	SITE ASSE	SSMENT	RANKING S	CORE:	?*
Date Started5/20/2004	Date Co	mpleted	6/16/2004	OCD	Witness	No	
Soil Excavated 89 cu	bic yards Exc	cavation Ler	ngth 10	Widtl	20	Depth	12 feet
Soil Disposed0 cu	bic yards Of	fsite Facility	n/	a	_ Location	n/a	<u>a</u>
FINAL ANALYTICAL RESU	JLTS: Samp	le Date	5/24/20	04	Sample De	epth	12 ft
					_		
Procure 5-point composite samp sidewalls. TPH and Chloride labo					CHLOE	RIDE FIELD TE	ete
approved lab and testing proce				•	OHLON	MOLTILLO 12	.010
	·	_	•		OCATION	DEPTH (ft)	ppm
Sample <u>PID</u>	GRO	DRO	Chloride		Vertical	5	749
Location ppm	mg/kg	mg/kg	mg/kg		at box	6	809
3-WALL COMP. XXX	<10.0	<10.0	213			7	779
BOTTOM XXX	<10.0	<10.0	<20			8	539
REMEDIATED XXX	<10.0	<10.0	85.1			9	629
			<del></del>			10	539
						11	629
General Description of Remedial Ac	tion: This end-of-	-line (EOL) box	was located		<del></del>	12	479
west of an active production facility. Deline					15 ft West	6	1139
backhoe as chloride tests and PID readings				_		7	1289
at the box yielded a conclusive trend of dec	clination to a depth	of 12 ft BGS (se	ee graph),			8	1499
indicative of non-saturated conditions in the	e vadose zone belo	w the box. All I	PID field			9	1559
screenings were 0.0 ppm and lab results co	onfirmed TPH conc	entrations well	below NMOC	D	· · · · · · · · · · · · · · · · · · ·	10	1349
guidelines. The excavated soil from the 10	x 20 x 12-ft deep h	nole was blende	ed on site and			11	1109
then backfilled. The disturbed surface was	contoured and see	eded with a bler	nd of			12	929
native vegetation. This EOL has been elim	ninated with a new p	pipeline re-plum	nbed straight	3	-wall comp.	n/a	599
through. No excavation was conducted ea	st of the box due to	proximity of the	e battery.	b	ottom comp.	12	149
* Depth to groundwater here is ambiguous.	. USGS maps indic	cate that the site	e is located or	na re	emed. comp.	n/a	300
hydrogeologic boundary north of which grou	undwater is around	36 ft but is 117	ft to the sout	——————————————————————————————————————			
		enclosures: chl	oride graphs,	photos, lab	esults, PID fiel	d screenings, gro	undwater map
I HEREBY CERTIFY THAT	THE INFORMA	TION AROVI	E IS TRIJE	AND COM	IDI ETE TO	THE BEST OF	MY
THEREST GERTII THINK		OWLEDGE A			ii LETE TO	THE BEOT OF	141.1
			1مر				
SITE SUPERVISOR Rob Elam	SIGNATUR	E KILL	Clam		COMPANY_Cu	rt's Environmenta	lOdessa, TX
					,		
REPORT ASSEMBLED BY Kristi	in Farris Pope	SIGNAT	URF 9	Knins.	in Ann	$\mathcal{D}$	Λα
		_		7//5/7/			<u> </u>
DATE8	3/25/2004	Ti	ITLE		Project Sc	entist	

# EME Gullully 'A' EOL

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

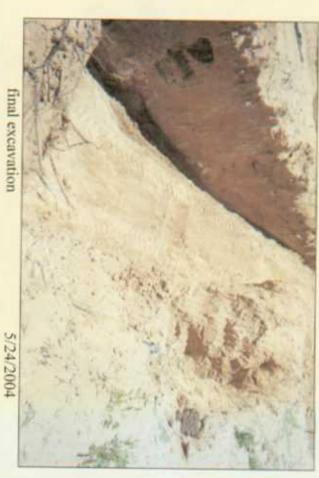


undisturbed junction box



backfilling excavation







seeding backfilled site

8/4/2004

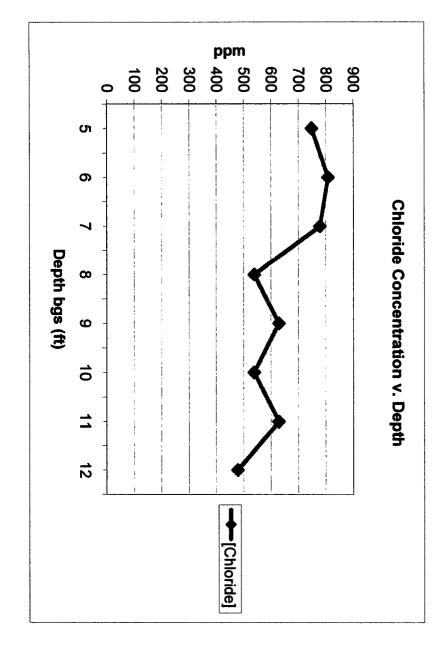
# EME Gullully 'A' EOL

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

Vertical Delineation at Source

12	11	10	9	8	7	6	5	Depth bgs (ft)
479	629	539	629	539	779	809	749	[Cl] ppm

Depth to groundwater here is ambiguous. USGS maps indicate that the site is located on a hydrogeologic boundary line to the north of which groundwater depth is ~36 ft and 117 ft to the south.

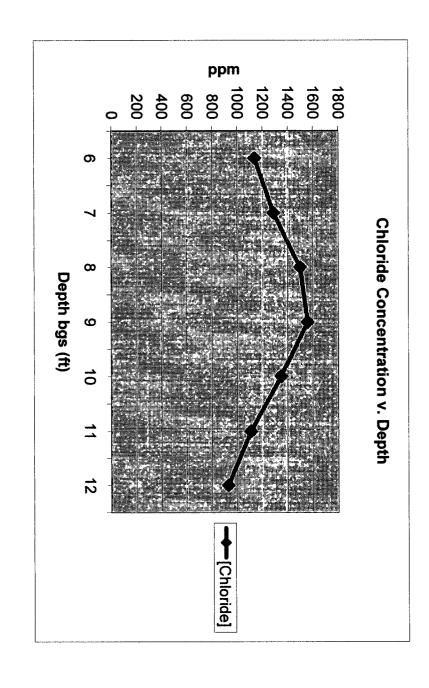


# EME Gullully 'A' EOL Unit '0', Sec. 24, T20S, R36E

15 ft West of box

12	11	10	9	8	7	6	Dánhoys (C)
929	1109	1349	1559	1499	1289	1139	

depth is  $\sim$ 36 ft and 117 ft to the hydrogeologic boundary line to the north of which groundwater that the site is located on a ambiguous. USGS maps indicate Depth to groundwater here is





### **Analytical Report**

#### Prepared for:

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

Project: Gullully 'A' EOL
Project Number: None Given
Location: EME

Lab Order Number: 4E25003

Report Date: 05/28/04

Rice Operating Co.

Project: Gullully 'A' EOL
Number: None Given

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240 Project Number: None Given
Project Manager: Kristin Farris

Reported: 05/28/04 10:46

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Wall Composite	4E25003-01	Soil	05/24/04 11:30	05/25/04 08:05
12' Bottom Composite	4E25003-02	Soil	05/24/04 13:30	05/25/04 08:05
Stockpile	4E25003-03	Soil	05/24/04 16:00	05/25/04 08:05

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240 Project: Gullully 'A' EOL Project Number: None Given

Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported: 05/28/04 10:46

### Organics by GC Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wall Composite (4E25003-01) 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	•	•	•	n	#	#	
Total Hydrocarbon C6-C35	ND	10.0		•	н	,	*	*	
Surrogate: 1-Chlorooctane		98.4 %	70-13	30	"	,	,	"	
Surrogate: 1-Chlorooctadecane		90.4 %	70-13	30	"	"	"	"	
12' Bottom Composite (4E25003-02) 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	•	*		*	"	**	
Surrogate: 1-Chlorooctane		87.6 %	70-13	30	ı,	"	"	n	
Surrogate: 1-Chlorooctadecane		91.0 %	70-13	30	"	,,	"	n	
Stockpile (4E25003-03) 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	Ħ	*	*	•	•	*	
Total Hydrocarbon C6-C35	ND	10.0	•	•		,		*	
Surrogate: 1-Chlorooctane		77.6 %	70-1.	30	,,	,	,,	"	
Surrogate: 1-Chlorooctadecane		80.6 %	70-13	30	"	"	"	•	

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 Kathaland Review

Page 2 of 6

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240 Project: Gullully 'A' EOL

Project Number: None Given Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported: 05/28/04 10:46

#### General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wall Composite (4E25003-01) Soil									
Chloride	213	20.0	mg/kg Wet	2	EE42609	05/26/04	05/26/04	SW 846 9253	
% Solids	77.0		%	1	EE42605	05/25/04	05/25/04	% calculation	
12' Bottom Composite (4E25003-02) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EE42609	05/26/04	05/26/04	SW 846 9253	
% Solids	90.0		%	1	EE42605	05/25/04	05/25/04	% calculation	
Stockpile (4E25003-03) Soil									
Chloride	85.1	20.0	mg/kg Wet	2	EE42609	05/26/04	05/26/04	SW 846 9253	
% Solids	99.0		%	1	EE42605	05/25/04	05/25/04	% calculation	

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Quality Assurance Review

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

Project: Gullully 'A' EOL Project Number: None Given Project Manager: Kristin Farris

Fax: (505) 397-1471 Reported: 05/28/04 10:46

#### Organics by GC - Quality Control **Environmental Lab of Texas**

		Reporting		Spike	Source	4/255	%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EE42503 - Solvent Extraction (GC)										
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	н							
Total Hydrocarbon C6-C35	ND	10.0	•							
Surrogate: 1-Chlorooctane	43.3		mg/kg	50.0		86.6	70-130	Mar		
Surrogate: 1-Chlorooctadecane	43.4		"	50.0		86.8	70-130			
LCS (EE42503-BS1)				Prepared &	Analyzed:	05/25/04				
Gasoline Range Organics C6-C12	417		mg/kg	500		83.4	75-125	,		
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		n	50.0		95.0	70-130			<del></del>
Surrogate: 1-Chlorooctadecane	35.9		n	50.0		71.8	70-130			
Calibration Check (EE42503-CCV1)				Prepared: 0	05/25/04 A	nalyzed: 05	5/27/04			
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		"	50.0		112	70-130			
Surrogate: 1-Chlorooctadecane	43.7		n	50.0		87.4	70-130			
Matrix Spike (EE42503-MS1)	Sou	rce: 4E25003	-02	Prepared: 0	05/25/04 A	nalyzed: 05	5/26/04			
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	5/26/04			
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

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Raland Kelituto

Rice Operating Co.Project:Gullully 'A' EOLFax: (505) 397-1471122 W. TaylorProject Number:None GivenReported:Hobbs NM, 88240Project Manager:Kristin Farris05/28/04 10:46

#### **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

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Quality Assurance Review

Raland Kestuto

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#### 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

LOT NO:

0-22-30

AIR

FILL DATE: 6-20-03

EXP. DATE:

11-20-04

ACCURACY: 401-2-70

METER READING

ACCURACY: 100.1

SYSTEM JUNCTION UNIT SECTION TOWNSHIP RANGE

EME Gullully A 0 24 20.5 36 E

e e e e e e e e e e e e e e e e e e e	Source PID RESULT	5'	West
SAMPLE	PID RESULT	SAMPLE	PID RESULT
5'	l &	5'	<b>&amp;</b>
<b>b</b> '	<b>k</b>	6'	<b>k</b>
7'	18	7'	8
<u></u> & '	0	8'	A
9'	k	91 -	l Q
10'	k	10'	l k
<i>I</i> I'	k	u'	b
121	0	- 12'	- <b>b</b>
	<u> </u>		

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

Signature

5-20-04

#### 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 CALIBRATION GAS

SERIAL NO: 104412

GAS COMPOSITION: ISOBUTYLENE

AIR

100 PPM

LOTNO: 0-22 - 30

BALANCE

EXP. DATE: 11-20-04

FILL DATE: ACCURACY: +or - 2 /2

METER READING

ACCURACY: 1001

10' West SYSTEM TINU SECTION TOWNSHIP RANGE Occidental EME

	10 West	15 Wes	+
SAMPLE	PID RESULT	SAMPLE	PID RESULT
<b>5</b> ′	l &		
6	b	6'	0
7'	<b>A</b>	1'	0
8'	<u> </u>	8'	D
9'	8	9'-	0
10'	g	101	٥
11'	N.	n'	0.
12'	8	12/	0
/3'	N N		
14'	<b>&amp;</b> `		
15	<u> </u>		

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

AIR

BALANCE

LOT NO: 0-2 Z-30

EXP. DATE: 11-20-04

FILL DATE:

METER READING

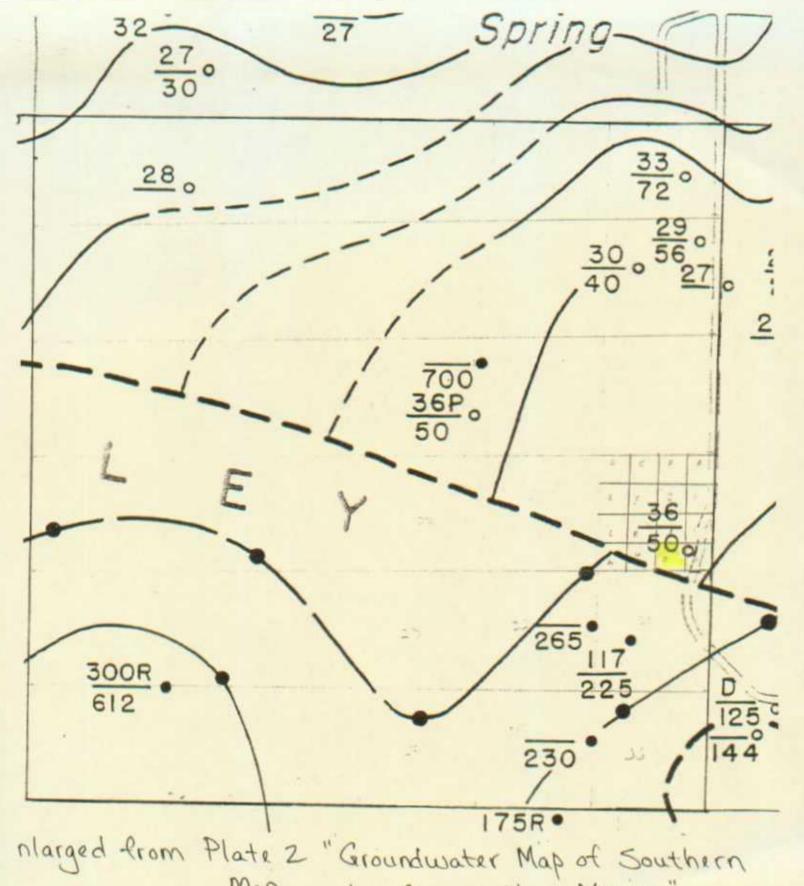
ACCURACY: + AC - 2 40

ACCURACY: 100./

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EME	Decidental -	$\hat{\mathcal{O}}$	24	20-5	36E

5' S SAMPLE	PID RESULT	SAMPLE	PID RESULT
6'	Q	6'	0
7'	0	7'	0
8'	0	8'	0
91	0	91	0
101	0	10'	0
u'	<b>/</b>	<i>u</i> :	0
12'	0	12'	0
13'	o	nance and the same of	
14'	0		
15'	0		
	·		

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



Map Lea County, New Mexico

from USGS book "Goology + Groundwater Conditions in Southern Lea County, New Mexico

by Nicholson + @ Clobsch 1961