

EME G-18

1RO 427-37

FINAL

REPORT

RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

				BOX LOC					
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUN	TY BOX D	IMENSIONS - FE	ET
EME	G-18	G	18	20S	37E	Lea	Length	Width	Depth
	I			l			Juncuo	Thas been elanna	
LAND TYPE: E	BLM	STATE	FEE LA	NDOWNER	Jimmy	T. Coop	erOTHER		
Depth to Grour	ndwater	36	feet	NMOCD	SITE ASSE	ESSME	NT RANKING S		20
Date Started	11/20/	2003	Date Co	mpleted	11/24/2003	00	D Witness	No	
Soil Excavated	22	cubic ya	rds Exc	avation Le	ngth <u>10</u>	v	/idth <u>10</u>	Depth	6feet
Soil Disposed	0	cubic ya	rds Off	fsite Facility	n	/a	Location	n/a	l
FINAL ANALY	TICAL R	ESULTS	6: Sample	e Date	11/20/2	003	Sample De	pth6	ft bgs
Pr	ocure 5-poin BTEX and C	t composite hloride lab	e sample of oratory test procedures	bottom and results comp pursuant to	4-point com pleted by us NMOCD gu	ing an a idelines	ample of sidew approved lab and	alls. TPH, d testing	
Sample Location	PID ppm	Gi mg	RO p/kg	DRO mg/kg	Chloride mg/kg		CHLOF	RIDE FIELD TE	STS
SIDEWALLS	0.00		0.0	<10.0	03.0			······	r 1
BOTTOM	0.00	<1	0.0	<10.0	63.8		LOCATION	DEPTH (ft)	ppm
REMEDIATED	0.00	<1	0.0	20.10	279		Vertical @ source	4	987
								5	962
General Description	n of Remedi	al Action:	The junction	box was surrol	unded by heal	thy		6	882
vegetation. The site w	as delineated v	rentically and	laterally with a	a backhoe. Ch	loride			6	788
concentrations were n	ninimal and ex	nibited a verti	cal and lateral	decline. No i	ndications of 1	PH		7	664
impact were encounter	red and lab res	ults confirme	d that concent	trations were w	ell below NM	DCD		8	400
guidelines. The 10 x 1	0 x 6 ft excava	tion was back	kfilled with the	excavated dir	that was bler	ded		10	363
site. The disturbed su	rface is expect	ed to naturally	y re-vegetate.					11	239
								12	85
				<u> </u>			bottom comp.	6	209
				· · · · · · · · · · · · · · · · · · ·			4-wall comp.	n/a	141
							remed. comp.	n/a	315
							background	n/a	59

enclosures: chloride graph, photos, lab results, PID readings

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE	12/1/2003	PRINTED NAME	Kristin Farris
SIGNATURE	Kantin danna	TITLE	Project Scientist

EME jct. G-18



Junction Box Before NORM Removal 8/6/2003







Delineation Nov. 2003

CHLORIDE CONCENTRATION CURVE

EME jct. G-18 T20S, R37E

 [CI] ppm	286	962	882	788	664	400	363	239	85
Depth bgs (ft)	4	5	9	7	8	6	10	11	17

Groundwater = 36 ft



ANALYTICAL REPORT

Prepared for:

÷

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

 Project:
 EME G-18

 PO#:
 G0308007

Report Date: 11/25/2003

<u>Certificates</u> US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

Rice Operating 122 W. Taylor Hobbs, NM 88240 505-397-1471 Order#: G0308007 Project: Project Name: EME G-18 Location: Lee

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

				Date / Time	Date / Time		
Lab ID:	Sample :	Matrix:		Collected	Received	Container	Preservative
0308007-01	Remediated Backfill	SOIL		11/20/03 12:35	11/20/03 20:30	4 oz glass	ice
La	<u>ab Testing:</u>	Rejected:	No	Tem	p: 4.0 C		
	8015M						
	Chloride						
0308007-02	Bottom 6'	SOIL		11/20/03 12:03	11/20/03 20:30	4 oz glass	ice
<u>La</u>	ib Testing:	Rejected:	No	Tem	p: 4.0 C		
	8015M						
	Chloride	····					
0308007-03	4 Wall Comp	SOIL		11/20/03 12:16	11/20/03 20:30	4 oz glass	ice
	ib Testing:	Rejected:	No	Tem	p: 4.0 C		
	8015M						
	Chloride						
						*	

ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

1 rá

		I		ICAL KEI	URI		
Kristin Farris Rice Operating 122 W. Taylor Hobbs, NM 8824()			Order#: Project: Project Nam Location:	G0308 e: EME Lee	6007 G-18	
Lab ID:	0308007-01						
Sample ID:	Remediated Back	kfill					
				8015M			
	Method	Date	Date	Sample	Dilution		
	Blank	Prepared	Analyzed	Amount	<u>Factor</u>	<u>Analyst</u>	Method
			11/21/03	1	1	JLH	8015M
		Parameter	<u> </u>	Resul mg/kg	t g	RL	
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35		20.1		10.0	
		TOTAL, C6-C35		20.1		10.0	
			······································				
		Surroga	ites	% Recovered	QC Limi	ts (%)	
		1-Chlorooct	ane	92%	70	130	
		1-Chlorooct	adecane	82%	70	130	
Lab ID:	0308007-02						
Sample ID:	Bottom 6'						
				8015M			
	Method	Date	Date	Sample	Dilution		
	<u>Blank</u>	Prepared	Analyzed	Amount	Factor	<u>Analyst</u>	Method
			11/21/03	1	1	JLH	8015M
		Parameter		Resul mg/kg	t g	RL	
		GRO, C6-C12		<10.0)	10.0	
		DRO, >C12-C35		<10.0)	10.0	
		TOTAL, C6-C35	·	<10.0)	10.0	

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	92%	70	130
1-Chlorooctadecane	84%	70	130

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD. 12

ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

. A

Ŧ

Kristin Farris Rice Operating 122 W. Taylor Hobbs, NM 88240				Order#: Project: Project Name: Location:	G03086 : EME (Lee	907 5-18		
Lab ID: Sample ID:	0308007-03 4 Wall Comp							
				8015M				
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	<u>Analyst</u>	Method	
			11/21/03	1	1	JLH	8015M	
		Parameter		Result mg/kg		RL.		
		GRO, C6-C12		<10.0		10.0		
		DRO, >C12-C35		<10.0		10.0		
		TOTAL, C6-C35		<10.0		10.0		
		Surrogat	es	% Recovered	QC Limit	s (%)		

98%

92%

1-Chlorooctane 1-Chlorooctadecane 70

70

poroval: Raland K Dul	11-26-03
aland K. Tuttle, Lab Director, QA Officer	Date

Approval: KULON C. F. JOULY Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

130

130

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

Kristin Farris	· · · · · · · · · · · · · · · · · · ·	·	Order	#• C(1308007			
Rice Operating			Proiec	r. G.	500007			
122 W. Taylor			Projec	t Name: EN	ME G-18			
Hobbs, NM 88	240		Locati	on: Le	e			
Lab ID:	0308007-01							
Sample ID:	Remediated Backfill							
Test Paran	neters			Dilution			Date	
Parameter		<u>Result</u>	Units	Factor	<u>RL</u>	Method	Analyzed	<u>Analyst</u>
Chloride		279	mg/kg	1	12.0	9253	11/23/03	SB
Lab ID:	0308007-02							
Sample ID:	Bottom 6'							
Test Paran	neters			Dilution			Date	
Parameter		Result	Units	Factor	<u>RL</u>	Method	Analyzed	<u>Analyst</u>
Chloride		63.8	mg/kg	1	12.0	9253	11/23/03	SB
Lab ID:	0308007-03					·		
Sample ID:	4 Wall Comp							
Test Paran	neters			Dilution			Date	
Parameter		Result	Units	Factor	<u>RL</u>	Method	Analyzed	<u>Analyst</u>
Chloride		63.8	mg/kg	1	12.0	9253	11/23/03	SB

Rolandicent 11-2603 Approval: Date

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

RL = Reporting Limit N/A = Not Applicable

4

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

8015M

Order#: G0308007

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0007537-02			<10		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0308006-01	0	952	845	88.8%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0308006-01	0	952	865	90.9%	2.3%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	· . · · · · · · · · · · · · · · · ·	0007537-05		1000	928	92.8%	

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

Test Parameters

Order#: G0308007

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0007529-01	· · · · · · · · · · · · · · · · · · ·		<12.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	· · · · · · · · · · · · · · · · · · ·	0307976-21	1180	500	1620	88.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0307976-21	1180	500	1630	90.%	0.6%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	-,#4007,62-1	0007529-04		5000	5000	100.%	

MEN OC			TABLAR OF CHETORY AND ANALVER DECHEET	
A TELINAL LAB	ORATORIES, INC.	5	ININ-UF-5031001 AND ANALISIS NEWDEST	
2111 Beechwood, A	vbilene, TX 79603 101 East Marland,	Hobbs, hit we to		
(915) 673 7001 Fe	ax (915) 673-7020 (505) 393-2326 Fax	((205) 393 2470	Page uf	-
Company Name: RICE . OF150	Company	1111 DILL 1.1	ANALYSIS REQUEST	
Project Manager Krizdils E		P.O. #.		
address: 122 MJ. Taylor		Company: RICE		
City: Nuths,	State: MM ZIP: 82240	Allis:		
PLID: 343-9174	Fax #: 397-1471	Addres:	· · · · · · · · · · · · · · · · · · ·	
Project #:	Froject Owner:	City:		
Project Name: 2322	./8	Stato: Zhe		_
Project Location:		Photo #:		
Sampler Namo: Serve Skin		14 X 24	27	
fca1+0166 c/1Y	MATRIX	PRESERV SAMPLAIG		
2308cc7	SPONP.			-
Lab L.D. Sample		ייי סר פני	7 / 27	
,		ABHT(00) EC ABHT(ABHT)		
CI Reach te	L bucktill 6 6 1		× × × ×	
02 Sextem	6,	1 1/20 1		_
03 5 200 11	ce m [6 [6 -] 1	1 1/10		
				-
1 EXERCIÓNE :] Marting and Country and Co	with and and the second for any daim shap watter based in control or to	to sun Aq pind second on a contract bit of a contract bit	dui kitha Terre and Churdster latered with charged and keeped and keeped and keeped and keeped and keeped and keeped and	-
anifras. Mathin Irikan Brant francesen na	come na activition with the destinad walved at here made in withing walt exc reported duranges, in the day without in the action, business is destroyed on a loss o	لومها این محمد از دانه این این محمد محمد از این	the control of the second style proved as at the table of 20% year access from the solution of the column of a and at control of control of access of solutions of the solution of the solution of the solution.	
Sampler Rellaquished:	and services incorporation of Cardinal appropriate of which an environment to the Cardinal approximation of the Cardinal appro		hone Regult: O Yes O No Add Phone 2:	
	Time:			
tolinquished By:	Date: Received By: (Lab Stal	form 11 (that were a court had the	
Dans Starle	Time 20-30 / alad	der wh		_
Delivered By: [Circle One]	Sample Condition	on CHECKED BY: (holdale)		
Sampler - UPS - Bus - Other:				
Cardinal cannot accept verbal	i changes. Please fax written changes to 50	5-393-2476.		

--- -

•

Eros

ţ

. i.



ENVIRONMENTAL TECHNOLOGY GROUP, INC.

2540 WEST MARLAND HOBBS, NEW MEXICO 88240 PHONE: (505) 397-4882 FAX: (505) 397-4701

VOC FIELD TEST REPORT FORM

MINI RAE PLUS CLASSIC PHOTOIONIZATION GAS DETECTOR

MODEL NO: PGM 761S CALIBRATION GAS GAS COMPOSITION: ISOBUTYLENE AIR SERIAL NO: 103999

100 PPM BALANCE FILL DATE: 10-20-03 ACCURACY: 1000000 7 2%

LOT NO: Construction EXP. DATE: // / # METER READING ACCURACY: 200.1

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EME	G·18	6	18	20	37

SAMPLE	PID RESULT	SAMPLE	PID RESULT
Vertical st		Remedited	
Surce		buckfill	0.0
12'	0.0		
Lateril		4 well	0.0
5 10-76			
12'	0.0	5 North	Q. 0
Leterail.			
5' 50071		5'50.111	0.0
12'	0.0		• •
		S'west	0,0
Composite			
Sempce		5 5-11	0.0
Bottom E'	0.0	• •	

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

that freed tech Title

11-20.03

Signature

Date