

1R - 427 - 39

REPORTS

DATE:

12-1-2003

EME G-18

1RO 427-37

FINAL REPORT

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
EME	G-18	G	18	20S	37E	Lea	Junction has been eliminated		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Jimmy T. Cooper OTHER _____

Depth to Groundwater 36 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 11/20/2003 Date Completed 11/24/2003 OCD Witness No

Soil Excavated 22 cubic yards Excavation Length 10 Width 10 Depth 6 feet

Soil Disposed 0 cubic yards Offsite Facility n/a Location n/a

FINAL ANALYTICAL RESULTS: Sample Date 11/20/2003 Sample Depth 6 ft bgs

Procure 5-point composite sample of bottom and 4-point composite sample of sidewalls. TPH, BTEX and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

Sample Location	PID ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
SIDEWALLS	0.00	<10.0	<10.0	63.8
BOTTOM	0.00	<10.0	<10.0	63.8
REMEDIATED	0.00	<10.0	20.10	279

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
Vertical @ source	4	987
	5	962
	6	882
	6	788
	7	664
	8	400
	10	363
	11	239
	12	85
bottom comp.	6	209
4-wall comp.	n/a	141
remed. comp.	n/a	315
background	n/a	59

General Description of Remedial Action: The junction box was surrounded by healthy vegetation. The site was delineated vertically and laterally with a backhoe. Chloride concentrations were minimal and exhibited a vertical and lateral decline. No indications of TPH impact were encountered and lab results confirmed that concentrations were well below NMOCD guidelines. The 10 x 10 x 6 ft excavation was backfilled with the excavated dirt that was blended site. The disturbed surface is expected to naturally re-vegetate.

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 *Kristin Farris* TITLE Project Scientist

EME jct. G-18



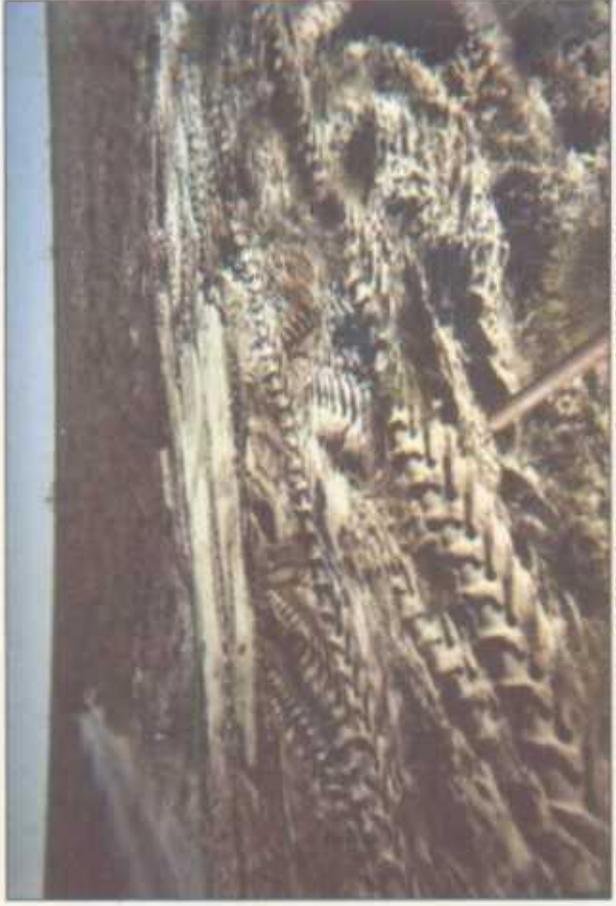
Junction Box Before NORM Removal 8/6/2003



Lumber Removed; Before Excavation



Delineation Nov, 2003



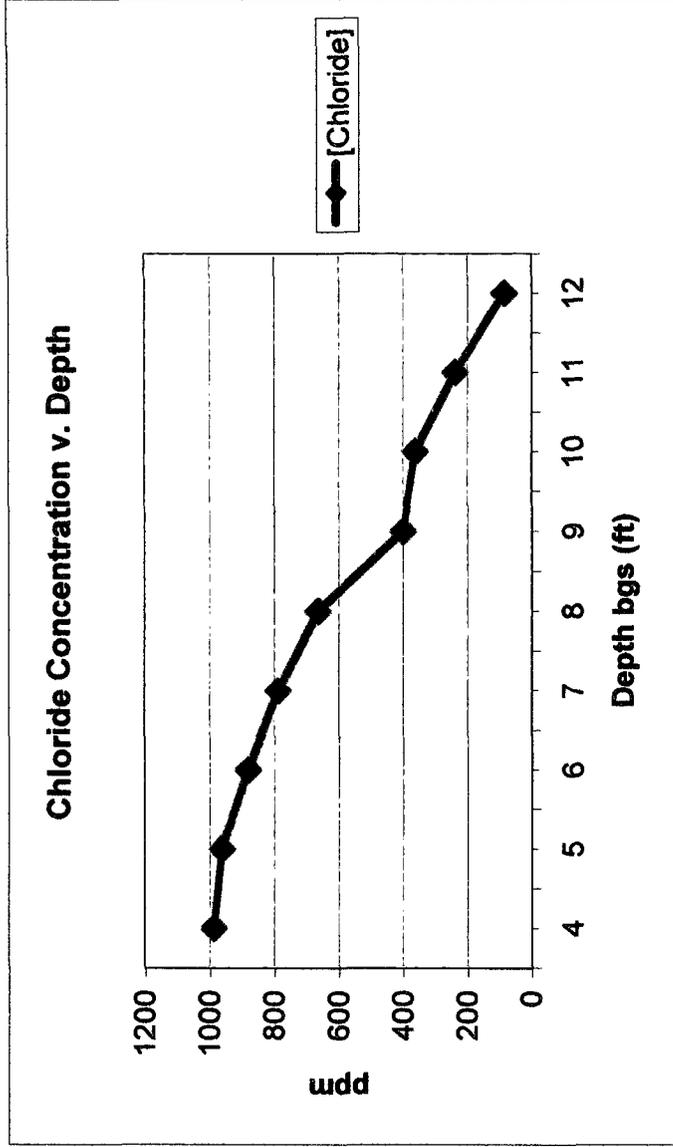
Backfilled Excavation 11/24/2003

EME jct. G-18

T20S, R37E

Depth bgs (ft)	[Cl ⁻] ppm
4	987
5	962
6	882
7	788
8	664
9	400
10	363
11	239
12	85

Groundwater = 36 ft



ANALYTICAL REPORT

Prepared for:

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

Project: EME G-18

PO#:

Order#: G0308007

Report Date: 11/25/2003

Certificates

US EPA Laboratory Code TX00158

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.

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0308007
 Project:
 Project Name: EME G-18
 Location: Lee

Lab ID: 0308007-01
 Sample ID: Remediated Backfill

8015M

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
Blank	Prepared	Analyzed	Amount	Factor	JLH	8015M
		11/21/03	1	1		

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	20.1	10.0
TOTAL, C6-C35	20.1	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	92%	70	130
1-Chlorooctadecane	82%	70	130

Lab ID: 0308007-02
 Sample ID: Bottom 6'

8015M

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
Blank	Prepared	Analyzed	Amount	Factor	JLH	8015M
		11/21/03	1	1		

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

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0308007
 Project:
 Project Name: EME G-18
 Location: Lee

Lab ID: 0308007-03
 Sample ID: 4 Wall Comp

8015M

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
Blank	Prepared	Analyzed	Amount	Factor	JLH	8015M
		11/21/03	1	1		

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

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	98%	70	130
1-Chlorooctadecane	92%	70	130

Approval: Raland K. Tuttle 11-26-03
 Raland K. Tuttle, Lab Director, QA Officer Date
 Caley D. Keene, Org. Tech. Director
 Jeanne McMurrey, Inorg. Tech. Director
 Sandra Biezugbe, Lab Tech.
 Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0308007
Project:
Project Name: EME G-18
Location: Lee

Lab ID: 0308007-01
Sample ID: Remediated Backfill

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	279	mg/kg	1	12.0	9253	11/23/03	SB

Lab ID: 0308007-02
Sample ID: Bottom 6'

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<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 Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	63.8	mg/kg	1	12.0	9253	11/23/03	SB

Approval:

Raland K Tuttle 11-26-03
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0308007

<i>BLANK</i>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0007537-02			<10		
<i>MS</i>	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%	
<i>MSD</i>	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%
<i>SRM</i>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0007537-05		1000	928	92.8%	

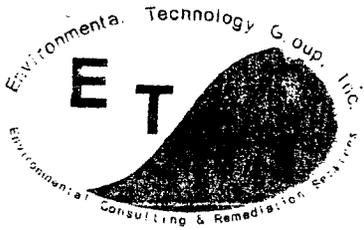
ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0308007

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



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

SERIAL NO: 103999

CALIBRATION GAS

100 PPM

GAS COMPOSITION: ISOBUTYLENE

BALANCE

AIR

LOT NO: 67401

FILL DATE: 10-20-03

EXP. DATE: 11/04

ACCURACY: 100ppm ± 2%

METER READING

ACCURACY: 100:1

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
<i>EME</i>	<i>G-18</i>	<i>G</i>	<i>18</i>	<i>20</i>	<i>37</i>

SAMPLE	PID RESULT	SAMPLE	PID RESULT
<i>Vertical at</i>		<i>Remediated</i>	
<i>Source</i>		<i>landfill</i>	<i>0.0</i>
<i>12'</i>	<i>0.0</i>		
<i>Vertical</i>		<i>4 Well</i>	<i>0.0</i>
<i>5' North</i>			
<i>12'</i>	<i>0.0</i>	<i>5' North</i>	<i>0.0</i>
<i>Vertical</i>			
<i>5' South</i>		<i>5' South</i>	<i>0.0</i>
<i>12'</i>	<i>0.0</i>		
		<i>5' West</i>	<i>0.0</i>
<i>Composite</i>			
<i>Sample</i>		<i>5' East</i>	<i>0.0</i>
<i>Bottom 6'</i>	<i>0.0</i>		

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

[Signature]

Signature

field tech

Title

11-20-03

Date