

1R - 427 - 58

REPORTS

DATE:

11-21-2002

IR0427-58

FINAL REPORT

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
EME	H-2	H	2	20 S	37 E	Lea	Length 5'	Width 4'	Depth 6'

LAND TYPE: BLM _____ STATE X FEE LANDOWNER _____ OTHER _____

Depth to Groundwater None feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 10/16/2002 Date Completed 10/16/2002 OCD Witness No

Soil Excavated 0 cubic yards Excavation Length n/a Width n/a Depth 7' feet

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

FINAL ANALYTICAL RESULTS: Sample Date 10/16/2002 Sample Depth 7'

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	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Total Xylenes mg/kg	GRO mg/kg	DRO mg/kg	Chlorides mg/kg
SIDEWALLS	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	1240
BOTTOM	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	354
REMEDIATED	n/a	n/a	n/a	n/a	n/a	n/a	n/a

General Description of Remedial Action: ROC conducted an initial delineation on

10/16/02 and found minimal chloride impact and no visual TPH at this location. According to

USGS, there is no groundwater below this site. The depth of the pipeline at the junction is 3' BGS and at 3.5' BGS, a hard caliche layer was found.

On 10/16/02, a backhoe was used to vertically delineate the junction further. At 7' BGS,

a significant decline was observed with a field test of 350 ppm chlorides.

With the demonstrated decline and relatively shallow nature of chloride

impact, no excavation was required here. The remaining impact should not be considered a

threat to public health. A water-tight junction box has since been built at this location.

cc: lab results

CHLORIDE FIELD TESTS

LOCATION	DEPTH	ppm
Vertical	3	4216
	3.5	1895
	5	1200
	7	350

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

DATE 11-21-02 PRINTED NAME Kristin Farris

SIGNATURE Kristin Farris TITLE Environmental Projects Scientist

EME jct. H-2

ANALYTICAL REPORT

Prepared for:

**LOGAN ANDERSON
RE ENVIRONMENTAL
P.O. BOX 13418
ODESSA, TX 79768**

Project: Rice

PO#:

Order#: G0204786

Report Date: 10/18/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

RE ENVIRONMENTAL
P.O. BOX 13418
ODESSA, TX 79768
366-0804

Order#: G0204786
Project:
Project Name: Rice
Location: H-2

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>
0204786-01	Vertical @ 7' (Bottom)	SOIL	10/16/02 16:00	10/17/02 8:00	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 2.5 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					
0204786-02	4 pt. Wall Comp. @ 4'	SOIL	10/16/02 16:00	10/17/02 8:00	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 2.5 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

LOGAN ANDERSON
RE ENVIRONMENTAL
P.O. BOX 13418
ODESSA, TX 79768

Order#: G0204786
Project:
Project Name: Rice
Location: H-2

Lab ID: 0204786-01
Sample ID: Vertical @ 7' (Bottom)

8015M

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
		10/17/02	1	1	CK	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

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	84%	70	130
1-Chlorooctadecane	87%	70	130

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0003474-02		10/18/02 12:11	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	83%	80	120
Bromofluorobenzene	95%	80	120

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

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

LOGAN ANDERSON
RE ENVIRONMENTAL
P.O. BOX 13418
ODESSA, TX 79768

Order#: G0204786
Project:
Project Name: Rice
Location: H-2

Lab ID: 0204786-02
Sample ID: 4 pt. Wall Comp. @ 4'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		10/17/02	1	1	CK	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

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	77%	70	130
1-Chlorooctadecane	75%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0003474-02		10/18/02 12:33	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	73%	80	120
Bromofluorobenzene	91%	80	120

Approval: Raland K. Tuttle 10-21-02
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

ANALYTICAL REPORT

LOGAN ANDERSON
RE ENVIRONMENTAL
P.O. BOX 13418
ODESSA, TX 79768

Order#: G0204786
Project:
Project Name: Rice
Location: H-2

Lab ID: 0204786-01
Sample ID: Vertical @ 7' (Bottom)

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	354	mg/kg	1	20	9253	10/18/02	SB

Lab ID: 0204786-02
Sample ID: 4 pt. Wall Comp. @ 4'

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	1240	mg/kg	1	20	9253	10/18/02	SB

Approval: Raland K. Tuttle 10-21-02
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#: G0204786

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003475-02			<10.0		
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003475-03		952	913	95.9%	
CONTROL DUP	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003475-04		952	973	102.2%	6.4%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003475-05		1000	915	91.5%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0204786

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0003474-02			<0.025		
Ethylbenzene-mg/kg		0003474-02			<0.025		
Toluene-mg/kg		0003474-02			<0.025		
p/m-Xylene-mg/kg		0003474-02			<0.025		
o-Xylene-mg/kg		0003474-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0204789-24	0	0.12	0.092	76.7%	
Ethylbenzene-mg/kg		0204789-24	0	0.12	0.096	80.0%	
Toluene-mg/kg		0204789-24	0	0.12	0.095	79.2%	
p/m-Xylene-mg/kg		0204789-24	0	0.23	0.202	87.8%	
o-Xylene-mg/kg		0204789-24	0	0.12	0.096	80.0%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0204789-24	0.092	0.12	0.087	72.5%	5.6%
Ethylbenzene-mg/kg		0204789-24	0.096	0.12	0.090	75.0%	6.5%
Toluene-mg/kg		0204789-24	0.095	0.12	0.091	75.8%	4.3%
p/m-Xylene-mg/kg		0204789-24	0.202	0.23	0.192	83.5%	5.1%
o-Xylene-mg/kg		0204789-24	0.096	0.12	0.092	76.7%	4.3%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0003474-05		0.1	0.097	97.0%	
Ethylbenzene-mg/kg		0003474-05		0.1	0.100	100.0%	
Toluene-mg/kg		0003474-05		0.1	0.102	102.0%	
p/m-Xylene-mg/kg		0003474-05		0.2	0.211	105.5%	
o-Xylene-mg/kg		0003474-05		0.1	0.100	100.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0204786

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003483-01			<20.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204783-01	14200	10000	24100	99.9%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204783-01	14200	10000	24300	101.9%	0.8%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003483-04		5000	4960	99.2%	

**12600 West I-20 East
Odessa, Texas 79763**

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Loan Anderson

Project Name:

12

Company Name

2

Project #:

#2

Company Address:

City/State/Zip:

Telephone No:

Fax No:

Sampler Signature:

[Handwritten signature]

[illegible]

EME H-2 jct. box upgrade



new junction box