

1R - 427 - 68

REPORTS

DATE:

5-16-2002

1R0427-68

FINAL REPORT

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
EME	H-32-1	H	32	19S	37E	LEA	Length 12	Width 10	Depth 5

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER _____ IRVING BOYD _____ OTHER _____

Depth to Groundwater _____ 25 _____ feet NMOCD SITE ASSESSMENT RANKING SCORE: _____ 20 _____

Date Started _____ 4/15/2002 _____ Date Completed _____ 4/17/2002 _____ OCD Witness _____ NO _____

Soil Excavated _____ 150 _____ cubic yards Excavation Length _____ 25 _____ Width _____ 20 _____ Depth _____ 14 _____ feet

Soil Disposed _____ 96 _____ cubic yards Offsite Facility _____ C&C LANDFARM _____ Location _____ MONUMENT, NM _____

FINAL ANALYTICAL RESULTS: Sample Date _____ 4/16/2002 _____ Sample Depth _____ 14' _____

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	<10	10
BOTTOM	<0.025	<0.025	<0.025	<0.025	<10	<10	10

General Description of Remedial Action: Delineated vertical and lateral extent.

Vertical trench demonstrated TPH dropped from 9500 ppm @ 8' to 39 ppm @ 14' and chlorides dropped from 1250 ppm to 50 ppm. High impact soil was removed and hauled to permitted disposal facility. Installed a compacted clay liner and water proof junction box. Backfilled with clean soil.

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
SIDEWALLS	12'	30
BOTTOM	14'	30
Vertical Trench	8'	1250
	10'	100
	12'	50
	14'	50

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

DATE _____ May 16, 2002 _____ PRINTED NAME _____ D. E. Anderson _____

SIGNATURE _____ *D. E. Anderson* _____ TITLE _____ Project Leader - Environmental _____

ANALYTICAL REPORT

Prepared for:

Derek Robinson
RE Environmental
P.O. Box 13418
Odessa, TX 79764

Project: Rice Operating

Order#: G0203093

Report Date: 04/19/2002

H-32-1

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

RE Environmental
P.O. Box 13418
Odessa, TX 79764
366-0804

Order#: G0203093
Project:
Project Name: Rice Operating
Location: H-32-1

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.

<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>
0203093-01	4 pt. Wall Comp. @ 12'	SOIL	4/16/02 15:30	4/17/02 8:00	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 18.0 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					
0203093-02	5 pt Bottom Comp. @ 14'	SOIL	4/16/02 16:55	4/17/02 8:00	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 18.0 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Derek Robinson
RE Environmental
P.O. Box 13418
Odessa, TX 79764

Order#: G0203093
Project:
Project Name: Rice Operating
Location: H-32-1

Lab ID: 0203093-01
Sample ID: 4 pt. Wall Comp. @ 12'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		4/18/02	1	1	CK	8015M

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

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>		
0001325-02		4/17/02 10:26	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	<25.0	25.0
Toluene	<25.0	25.0
p/m-Xylene	<25.0	25.0
o-Xylene	<25.0	25.0

Lab ID: 0203093-02
Sample ID: 5 pt Bottom Comp. @ 14'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		4/18/02	1	1	CK	8015M

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

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

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Derek Robinson
RE Environmental
P.O. Box 13418
Odessa, TX 79764

Order#: G0203093
Project:
Project Name: Rice Operating
Location: H-32-1

Lab ID: 0203093-02
Sample ID: 5 pt Bottom Comp. @ 14'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0001325-02		4/17/02 10:47	1	25	CK	8021B

Parameter	Result μg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	<25.0	25.0
Toluene	<25.0	25.0
p/m-Xylene	<25.0	25.0
o-Xylene	<25.0	25.0

Approval: Rah dkjmd 4-22-02
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

Derek Robinson
RE Environmental
P.O. Box 13418
Odessa, TX 79764

Order#: G0203093
Project:
Project Name: Rice Operating
Location: H-32-1

Lab ID: 0203093-01
Sample ID: 4 pt. Wall Comp. @ 12'

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	9.85	mg/kg	1	5.00	9253	4/18/02	SB

Lab ID: 0203093-02
Sample ID: 5 pt Bottom Comp. @ 14'

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	9.85	mg/kg	1	5.00	9253	4/18/02	SB

Approval:

Raland K Tuttle 4-22-02

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#: G0203093

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001320-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0203090-02	0	952	802	84.2%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0203090-02	802	952	800	84.4%	0.2%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001320-05		1000	780	78.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0203093

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg		0001325-02			<25.0		
Ethylbenzene-µg/kg		0001325-02			<25.0		
Toluene-µg/kg		0001325-02			<25.0		
p/m-Xylene-µg/kg		0001325-02			<25.0		
o-Xylene-µg/kg		0001325-02			<25.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg		0203093-02	0	100	102	102.0%	
Ethylbenzene-µg/kg		0203093-02	0	100	104	104.0%	
Toluene-µg/kg		0203093-02	0	100	104	104.0%	
p/m-Xylene-µg/kg		0203093-02	0	200	214	107.0%	
o-Xylene-µg/kg		0203093-02	0	100	103	103.0%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg		0203093-02	0	100	102	102.0%	0.0%
Ethylbenzene-µg/kg		0203093-02	0	100	105	105.0%	1.0%
Toluene-µg/kg		0203093-02	0	100	104	104.0%	0.0%
p/m-Xylene-µg/kg		0203093-02	0	200	214	107.0%	0.0%
o-Xylene-µg/kg		0203093-02	0	100	103	103.0%	0.0%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg		0001325-05		100	99.1	99.1%	
Ethylbenzene-µg/kg		0001325-05		100	104	104.0%	
Toluene-µg/kg		0001325-05		100	106	106.0%	
p/m-Xylene-µg/kg		0001325-05		200	216	108.0%	
o-Xylene-µg/kg		0001325-05		100	104	104.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0203093

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0001324-01			<5.00		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0203093-01	9.85	556	571	100.7%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0203093-01	9.85	556	571	100.7%	0.0%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0001324-04		5000	5050	101.0%	

2600 West I-20 East
Dessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Company Name R-E-Environment

Project Name: Rice Operating

Project #:

Project Loc: H-32-1

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○

EX-100

Sampler Signature: David Robinson

[illegible]

Sample Contaminant? _____
Temperature Upon Receipt _____
Laboratory Comments _____

1800

Prepared by:	Date:	Time:	Business:
Send Copy + Original to Donnie Anderson w/ Rice Oper.			

Received by:	Date	Time
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Received by ELO:	Date	Time
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Organic molecules	4172	0800
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C & C LANDFARM, INC.

BOX 55

MONUMENT, NEW MEXICO 88265

PHONE: (505) 397-2045

(505) 397-2860

(505) 392-2236

002065

COMPANY NAME RICE Operating Company
COMPANY REPRESENTATIVE NAME Bonnie Anderson
LEASE NAME LOT BOX H-32-1

SEC.

TOWNSHIP

RANGE

32

205

34E

36E

TRUCKING COMPANY NAME RE Environmental

DRIVERS SIGNATURE Bonnie Anderson

TYPE OF MATERIAL BEING HAULED AND QUANTITY

O/D NON-HAZ (96 yd³)

COPY OF ANALYSIS ATTACHED, IF REQUIRED

TPHC

BENZENE

TOLUENE

ETHYL BENZENE

PARA XYLENE

ATTENDANT ON DUTY Jim Cooper

DATE 4-25-002

EME H-32-1 Jet. Box Upgrade



Remediation