

1R - 427 - 134

REPORTS

DATE:

3-22-04

EME H33

1R0427-134

FINAL REPORT

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
EME	H-33	H	33	T20S	R36E	Lea	Length	Width	Depth
							no box (eliminated)		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Dale Cooper Family Trust OTHER _____

Depth to Groundwater >100 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 2/10/2004 Date Completed 2/10/2004 OCD Witness No

Soil Excavated no excavation cubic yards Excavation Length n/a Width n/a Depth n/a feet

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

FINAL ANALYTICAL RESULTS: Sample Date 2/10/2004 Sample Depth 4 ft

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	Chloride mg/kg
4 ft Hand Auger	<0.005	<0.005	<0.005	<0.015	<10.0	<10.0	320

General Description of Remedial Action: This was the former location of a junction box that had been backfilled at an unknown date.

The site was surrounded by healthy native vegetation and there was no surface indication of impact. A hand auger was used to obtain samples down to 4 ft BGS. Chloride tests of these samples revealed minimal concentrations and there was no evidence of hydrocarbon impact. Lab results confirmed that no further remediation work was required. A new junction box was not re-built because the pipeline was re-plumbed straight through and junction H-33 has been eliminated.

Two lab reports are included with this report. The first one reported 2220 ppm Cl- which was inconsistent with several field tests on the 4 ft hand auger sample. Cardinal Lab was contacted about ROC's concern and Cardinal staff re-tested the sample which yielded 320 ppm as reported on the modified lab report.

enclosures: chloride graph, photo, lab results

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
Vertical	0.5	117
at source	1	89
	2	89
	3	150
	4	148

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

DATE 3/22/2004 PRINTED NAME Kristin Farris

SIGNATURE *Kristin Farris* TITLE Project Scientist

EME jct. H-33

T20S, R36E



Former Location of Junction Box H-33

7/25/2003

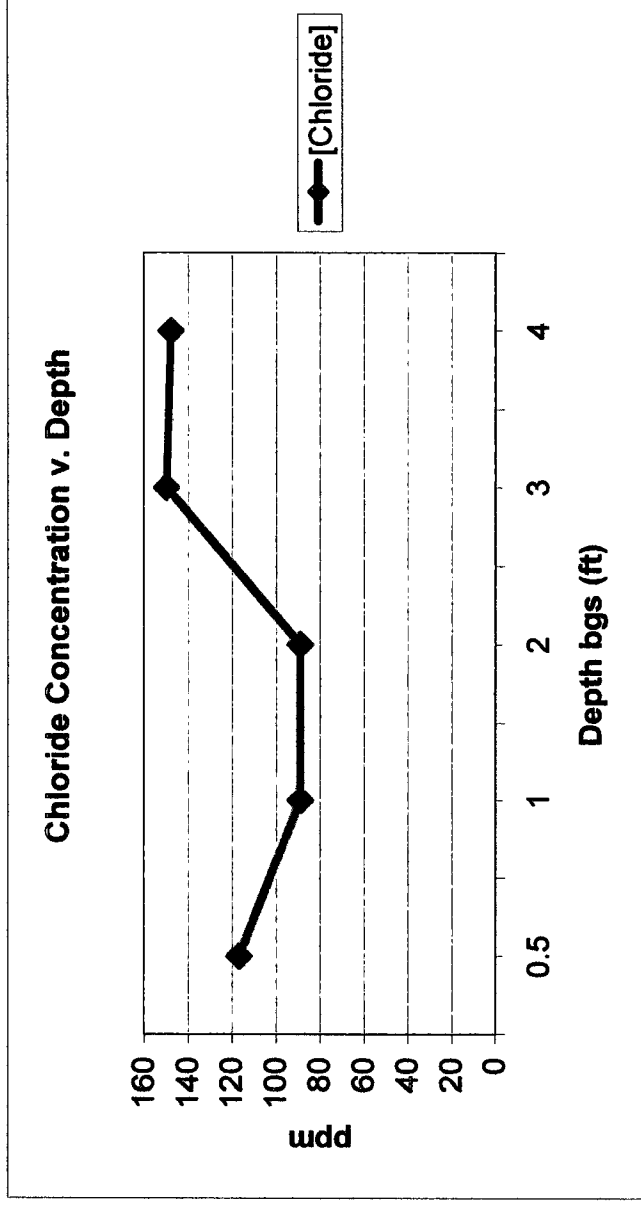
EME jct. H-33

T20S, R36E

Vertical Delineation at Source

Depth bgs (ft)	[Cl] ppm
0.5	117
1	89
2	89
3	150
4	148

Groundwater = >100 ft

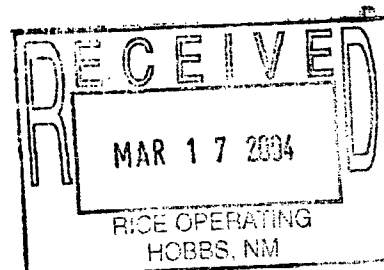




PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: KRISTIN FARRIS
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471



Receiving Date: 02/11/04
Reporting Date: 02/20/04
Project Number: NOT GIVEN
Project Name: EME H-33
Project Location: LEA CO., NM

Sampling Date: 02/10/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/AH

Modified Report

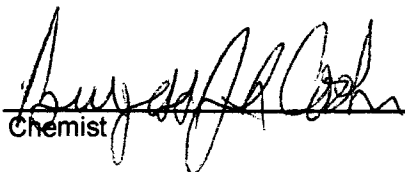
LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	CI* (mg/Kg)
------------	-----------	------------------------------------------------------	--------------------------------------------------------	----------------

ANALYSIS DATE	02/11/04	02/11/04	02/20/04
H8452-1 BOTTOM 4' HAND AUGER	<10.0	<10.0	320
Quality Control	738	765	1000
True Value QC	800	800	1000
% Recovery	92.2	95.6	100
Relative Percent Difference	4.6	8.4	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI*: Std. Methods 4500-CI'B

*Analysis performed on a 1:4 w:v aqueous extract.

NOTE: Modified report issued to give more accurate CI reanalysis results.


Chemist


Date

H8452A.XLS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



ARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

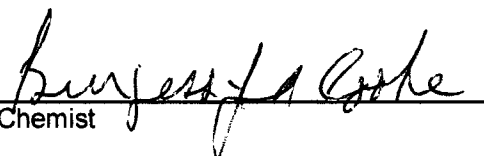
ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: KRISTIN FARRIS
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 02/11/04
Reporting Date: 02/12/04
Project Number: NOT GIVEN
Project Name: EME H-33
Project Location: LEA CO., NM

Sampling Date: 02/10/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		02/11/04	02/11/04	02/11/04	02/11/04
H8452-1	BOTTOM 4' HAND AUGER	<0.005	<0.005	<0.005	<0.015
Quality Control		0.092	0.094	0.096	0.290
True Value QC		0.100	0.100	0.100	0.300
% Recovery		92.1	94.0	96.4	96.6
Relative Percent Difference		0.7	3.5	0.9	2.4

METHOD: EPA SW-846 8260


Chemist

2/12/04
Date

CHAIN OF-CUSTODY AND ANALYSIS REQUEST

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 86601
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2470

Page _____ of _____

[illegible][illegible]

Sampler Rollinquired: Date: _____ Time: _____ Date: <u>2-10-04</u> Time: <u>7:48</u>		Received By: (Lab Staff) <u>Burgess</u>		Checked By: (Initials) _____	
Delivered By: (Circle One) Sampling _____ Bats _____ Other: _____		Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Add'l Fax #: _____	
REMARKS: _____ _____ _____					

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.



ARDINAL LABORATORIES

PHONE (815) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: KRISTIN FARRIS
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 02/11/04
Reporting Date: 02/12/04
Project Number: NOT GIVEN
Project Name: EME H-33
Project Location: LEA CO., NM

Sampling Date: 02/10/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	Cl* (mg/Kg)
		02/11/04	02/11/04	02/11/04
H8452-1	BOTTOM 4' HAND AUGER	<10.0	<10.0	2220
Quality Control		738	765	1000
True Value QC		800	800	1000
% Recovery		92.2	95.6	100
Relative Percent Difference		4.6	8.4	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl: Std. Methods 4500-ClB

*Analysis performed on a 1:4 w:v aqueous extract.

This chloride analysis raised suspicion when compared to several field tests of the sample. Amy Hill at Cardinal Lab performed the test again and stated that the 2220 ppm was an error on her part. A modified report was issued.

Burgett A. Cooley
Chemist

KF

2/13/04
Date

H8452A.XLS

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.