

1R - 427 - 49

REPORTS

DATE:

3-1-2004

EME State R' EOL

1R0427-49

**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	State 'A' EOL	A	8	21S	36E	Lea	No Box		

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

Depth to Groundwater 200 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 10/28/2003 Date Completed 11/17/2003 OCD Witness No

Soil Excavated 93 cubic yards Excavation Length 15 Width 14 Depth 12 feet

Soil Disposed 18 cubic yards Offsite Facility South Monument Location Monument, NM

FINAL ANALYTICAL RESULTS: Sample Date 10/29/2003 Sample Depth 12 ft

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
3-WALL COMP.	0.0	<10.0	<10.0	1460
BOTTOM	0.0	<10.0	<10.0	880
REMEDIAED	127.0	<10.0	287	1540

CHLORIDE FIELD TESTS

General Description of Remedial Action: This end-of-line box was located inside the yard of an active production battery. Before the site was to be delineated, a leak occurred at the battery on the weekend of Oct. 25-26 which puddled in the EOL box. The site was excavated on 10/28/03 with a backhoe while chloride tests and PID readings were performed regularly. A conclusive trend of decline was observed vertically (see graph) and laterally. PID readings were all minimal and lab TPH results confirmed concentrations well below NMOCD guidelines. On 10/29/2003, personnel arrived at the battery to repair the leak. As the leak was repaired, crude oil and water spilled into the junction box excavation down the south wall (see photo). During the repair, the south wall of the excavation collapsed so samples from the south wall were not included in the final wall composite. The 15 x 14 x 12-ft-deep excavation was backfilled and capped with a caliche pad. Any further surface remediation of impact contributed from the facility will be conducted when the facility is abandoned in cooperation with the producer.

LOCATION	DEPTH (ft)	ppm
Vertical	7	4634
at source	8	3069
	9	2667
	10	2200
	11	2138
	12	1900
	13	1777
	14	1655
bottom comp.	12	978
3-wall comp.	n/a	979
remed. comp.	n/a	1315

enclosures: chloride graph, photos, lab results, PID readings, disposal manifests, diagram

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

DATE 3/1/2004 PRINTED NAME Kristin Farris
SIGNATURE *Kristin Farris* TITLE Project Scientist

EME State 'A' EOL



Undisturbed junction box

8/13/2003



Box removed

8/20/2003



Excavation 10/29/2003

EME State 'A' EOL



Repairing battery leak as crude and water spill into excavation

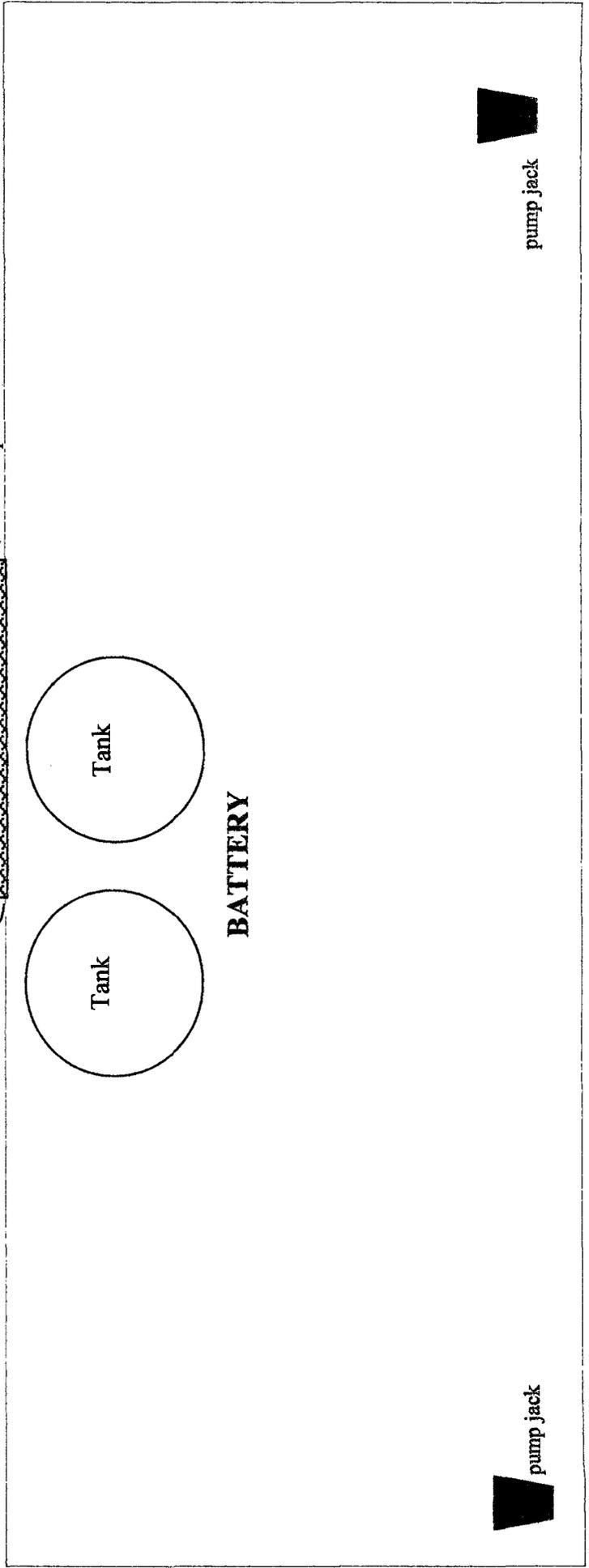
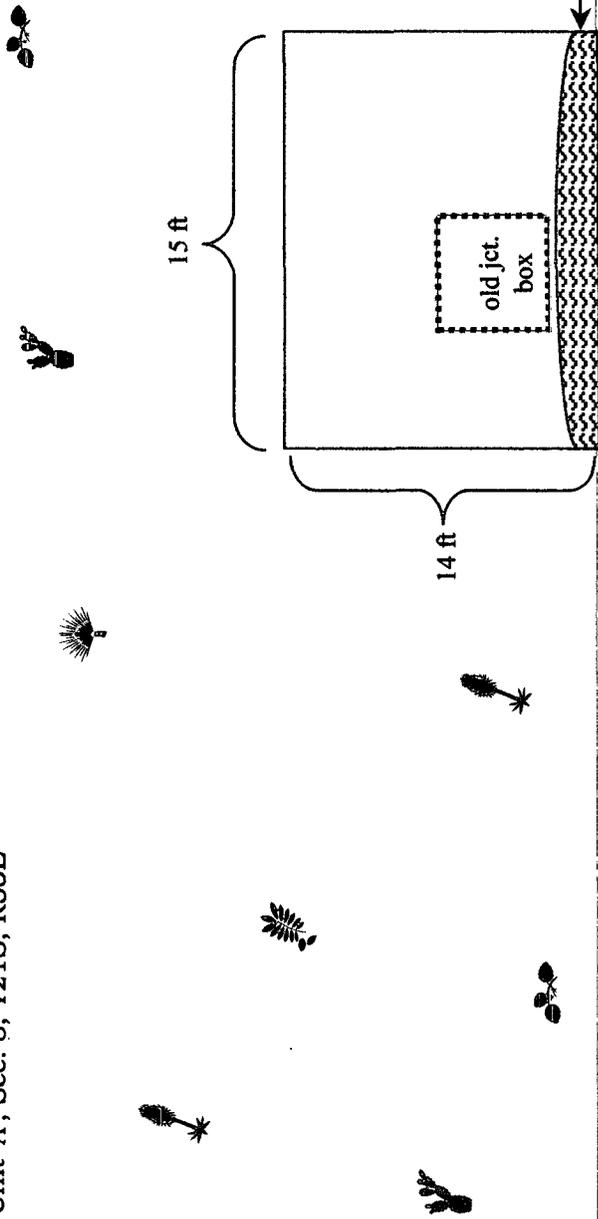
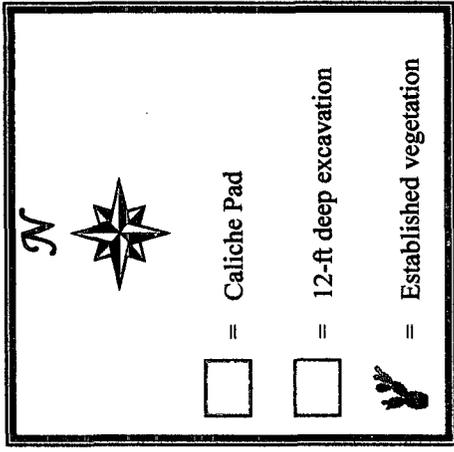
10/29/2003



Backfilled 11/5/2003

EME State 'A' EOL

Unit 'A', Sec. 8, T21S, R36E



CHLORIDE CONCENTRATION CURVE

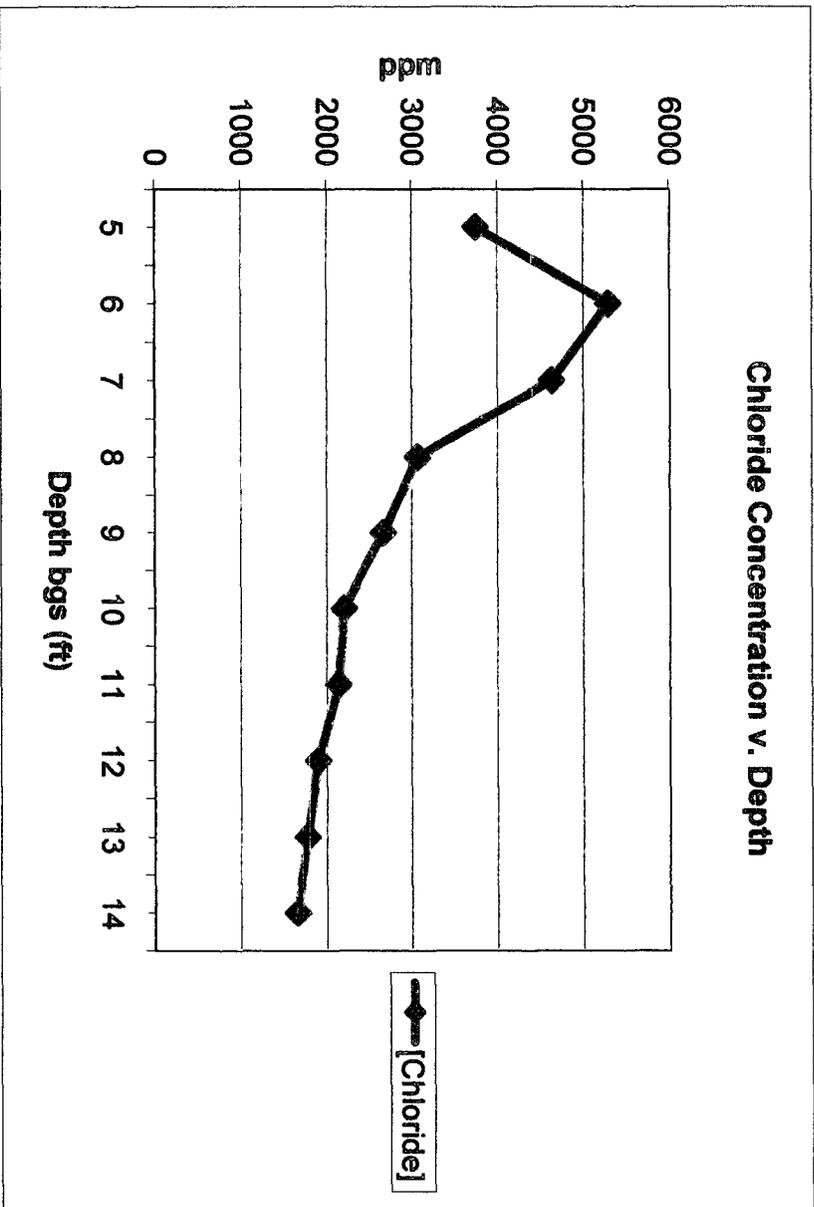
EME Hartman State 'A' FOL

Unit 'A', Sec. 8, T21S, R36E

Vertical at Junction

Depth bgs (ft)	[Cl ⁻] ppm
5	3748
6	5287
7	4634
8	3069
9	2667
10	2200
11	2138
12	1900
13	1777
14	1655

Groundwater = 200 ft



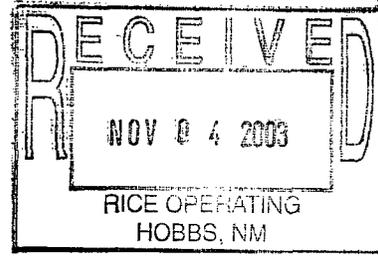


ARDINAL LABORATORIES

PHONE (325) 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: 10/30/03

Reporting Date: 10/31/03

Project Number: NOT GIVEN

Project Name: HARTMAN STATE A COMEOL

Project Location: LEA CO. NM

Sampling Date: 10/29/03

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: BC/HM

LAB NUMBER SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE	10/30/03	10/30/03	10/31/03
H8127-1 BOTTOM 12'	<10.0	<10.0	880
H8127-2 REMEDIATED BACKFILL	<10.0	287	1540
H8127-3 3 WALL COMP.	<10.0	<10.0	1460
Quality Control	754	793	1020
True Value QC	800	800	1000
% Recovery	94.2	99.2	102
Relative Percent Difference	2.8	10.0	5.9

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

*Analyses performed on 1:4 w:v aqueous extracts.

Chemist

10/31/03
Date

H8127.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, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page ___ of ___

ANALYSIS REQUEST

BILL TO

Company Name: **RICE Operating Company**
Project Manager: **Kristin Ferris**

Address: **122 W. Taylor**

City: **Hobbs,** State: **NM** zip: **88240**

Phone #: **393-9174** Fax #: **397-1471**

Project #: _____ Project Owner: _____

Project Name: **Hobbs State Coal**

Project Location: **ES** State: _____ City: _____ Zip: _____

Sampler Name: **Berry Stahl** Phone #: _____ Fax #: _____

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER :				
H8127-1	30th Jan 12	C	6			X			10/29	2:29	X	TPH 8015	
-2	Revised backfile	C	6			X			10/29	2:45	X	Cbloride	
-3	3 well camp	C	6			X			10/25	2:38	X		

ES&E NOTE: Utility and Damages. Cardinal's liability and property remains remedy for any damage arising whether caused in contract or tort, shall be limited to the amount paid by the client for the system. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after the date of use of the system. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profit, however caused by such use. The system is provided as is without any warranty of any kind, express or implied, including without limitation, the performance of services hereunder by Cardinal. Reproduction of material herein is prohibited in any form without the prior written consent of Cardinal. Reproduction of material herein is prohibited in any form without the prior written consent of Cardinal.

Sampler Relinquished:

Received By:

Relinquished By:

Date: 10/30

Received By: (Lab Staff)

Delivered By: (Circle One)

Time: 8:40

Sample Condition

CHECKED BY: (Initials)

Carrier - UPS - Bus - Other:

Yes No

Yes No

Phone Result: Yes No Add'l Phone #: _____
Fax Result: Yes No Add'l Fax #: _____

REMARKS:

For copy to RICE

Terms and Conditions: Payment will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collection, including attorney's fees.

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



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: 10-29-03

EXP. DATE: 11/04

ACCURACY: 100ppm ± 2%

METER READING

ACCURACY: 100.9

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EME	Hartman State # Com EOL	A	8	T215	R36E

SAMPLE	PID RESULT	SAMPLE	PID RESULT
Composite			
Sample			
Bottom 12'	0.0		
6' N. Well	0.0		
6' W. Well	0.0		
9' E. Well	0.0		
Remediated	127		
Beck Fill			
3 Well Camp	0.0		

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

Gay Hank
Signature

Field Tech
Title

10-29-03
Date

MANIFEST # 9450

SOUTH MONUMENT SURFACE WASTE FACILITY

LEASE OPERATOR:

Rice
122 W. Taylor
Hobbs, N.M. 88240

ORIGINATING LOCATION:

HARTMAN A-8-EOL
UNIT Letter A Sec 8 T215
R. 36 E

TRANSPORTER NAME & ADDRESS:

W R&E ENVIRONMENTAL
P
E

DESCRIPTION OF WASTE:

NON-HAZARDOUS HYDROCARBONS

QUANTITY:

18 YDS.

FACILITY CONTACT:

Jim D. Cooper
SIGNATURE OF CONTACT

11/24/03
DATE

CELL NUMBER MATERIAL PLACED IN:

8-4

SIGNATURE OF TRANSPORTER (DRIVER):

Roy R. RASCO for R&E Driver
SIGNATURE OF DRIVER

11-24-03
DATE

DISPOSAL SITE

SOUTH MONUMENT SURFACE WASTE FACILITY
P.O. BOX 418
HOBBS, NM 88241-0418
S25 T20S R36E N/2 NE/4

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations; exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C Regulations; and not mixed with non-exempt waste."

Jim D. Cooper
FACILITY REPRESENTATIVE

11/24/03
DATE