# 1R - 427 - 37

## APPROVALS

## YEAR(S):



#### Hansen, Edward J., EMNRD

From:	Hansen, Edward J., EMNRD
Sent:	Monday, January 28, 2013 3:56 PM
То:	Hack Conder (hconder@riceswd.com)
Cc:	Leking, Geoffrey R, EMNRD; Laura Pena (lpena@riceswd.com); Katie Jones
	<kjones@riceswd.com> (kjones@riceswd.com);    Scott Curtis (scurtis@riceswd.com)</kjones@riceswd.com>
Subject:	Remediation Plan (1R427-37) Termination - ROC EME M-10-1 Site

#### RE: Termination Request for the Rice Operating Company's EME M-10-1 Site Unit Letter M, Section 10, T21S, R36E, NMPM, Lea County, New Mexico Remediation Plan (1R427-37) Termination

#### Dear Mr. Conder:

The New Mexico Oil Conservation Division (OCD) has received Rice Operating Company's report and request to close the above-referenced site, dated January 18, 2013 (received January 23, 2013). The report is acceptable to the OCD.

The above-referenced report, submitted in accordance with 19.15.29 NMAC (Rule 29; formally, Rule 116), indicates that Rice Operating Company has met the requirements of 19.15.29 NMAC; therefore, the OCD approves the report and hereby notifies you that the remediation plan (1R427-37) is terminated in accordance with 19.15.29 NMAC.

Please be advised that OCD approval of this report does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

If you have any questions regarding this matter, please contact me at 505-476-3489.

Edward J. Hansen Hydrologist Environmental Bureau

#### RECEIVED OCD RICE Operating Company JAN 23 P 1: 24

112 West Taylor • Hobbs, New Mexico 88240 Phone: (575) 393-9174 • Fax: (575) 397-1471

#### CERTIFIED MAIL RETURN RECEIPT NO. 7007 2560 0000 4569 8753

#### **January 18, 2013**

Mr. Edward Hansen New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

RE: Termination Request EME M-10-1 (1R427-37): UL/M Sec. 10, T21S, R36E RICE Operating Company – Eunice Monument Eumont SWD System

Mr. Hansen:

Rice Operating Company (ROC) is the service provider (agent) for the EME Saltwater Disposal (SWD) System and has no ownership of any portion of the pipeline, well, or facility. The System is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

#### Background

In 2003, ROC initiated work on the former M-10-1 junction box. The site is located in UL/M, Sec. 10, T21S, R36E. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 200 +/- feet. The site was delineated using a backhoe to collect soil samples at regular intervals, creating a 25x24x12 ft deep excavation. Each sample was field titrated for chlorides and field screened using a PID for hydrocarbons, resulting in slightly elevated chloride concentrations. Representative composite samples of the excavation bottom and the excavation walls were sent to a commercial laboratory for analysis of chloride and TPH, resulting in a sidewall chloride concentration of 240 mg/kg and concentrations of gasoline range organics (GRO) and diesel range organics (DRO) below detectable limits. The bottom composite resulted in chloride concentration of 464 mg/kg and concentrations of gasoline range organics (GRO) and diesel range organics (DRO) below detectable limits. The remediated backfill resulted in chloride concentration of 464 mg/kg and concentrations of gasoline range organics organics (GRO) and diesel range organics (DRO) below detectable limits.

To further investigate the depth of chloride presence, two soil bores were initiated on September 19, 2003. The borings were advanced to a total depth of 22 ft BGS with soil samples collected at regular intervals. SB-1 (10 ft east of the source) was taken to a commercial laboratory for analysis of chloride, resulting in a concentration of 142 mg/kg at 22 ft BGS. SB-2 (15 ft south of the source) was taken to a commercial laboratory for analysis of chloride, resulting in a concentration below detectable limits at 22 ft BGS.

From 12-10.5 ft BGS, a 1.5 thick clay liner was installed with a compaction test performed on October 13, 2003. The backfill was returned to the excavation to ground surface and contoured to the surrounding area. On 12/12/2003, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate.

A new, watertight junction box was built over this site, and is now an access point for pigging and scrapping, as line maintenance. This requires a drivable surface around the junction box, making caliche necessary, and vegetation not necessary.

The junction box site location map, final report, photodocumentation, PID sheet, laboratory analysis, clay compaction test, and current photodocumentation are attached.

#### Recommendations

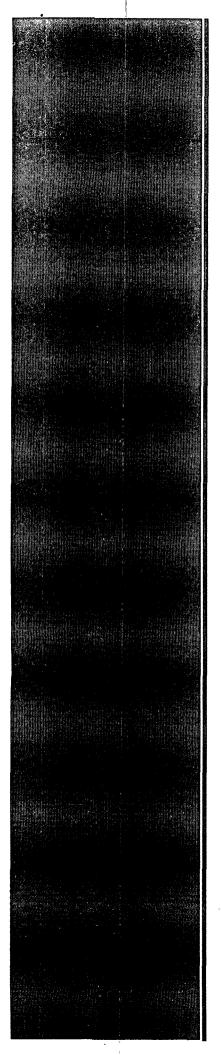
Site investigation demonstrates that residual chloride and hydrocarbons in the vadose zone will not with reasonable probability contaminate groundwater in excess of NMOCD standards. This site meets the requirements of the NMOCD-approved Revised Junction Box Upgrade Work Plan (July 16, 2003). As such, ROC request termination of the regulatory file, or similar closure status.

Please contact me at (575)393-9174 if you have any questions or wish to discuss this site. Thank you for your time and consideration.

Sincerely, RICE Operating Company

Hack Conder Environmental Manager

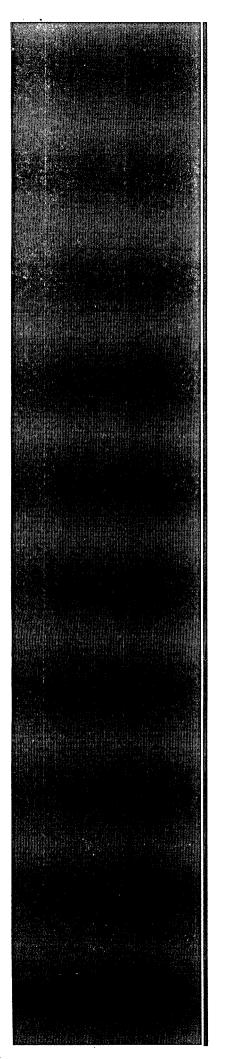
enclosures



## Site Location Map

RICE *Operating Company* (ROC) 112 West Taylor Hobbs, NM 88240 Phone: (575) 393-9174 Fax: (575) 397-1471





## Junction Box Report

RICE *Operating Company* (ROC) 112 West Taylor Hobbs, NM 88240 Phone: (575) 393-9174 Fax: (575) 397-1471

#### **RICE OPERATING COMPANY** JUNCTION BOX FINAL REPORT

				BOX LOC	ATION					
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX D	MENSIONS	G - FEET	
FUE							Length	Width	Depth	
EME	M-10-1	M	10	21 S	36 E	Lea	7	5	10	
LAND TYPE: 1 Depth to Grou		STATE	FEE LA			ard Deck	OTHER_		0	
		200								
Date Started	9/11/	2003	Date Co	mpleted	10/30/2003		Vitness		No	
Soil Excavated	266	cubic ya	rds Exc	avation Le	ngth 25	Width	24	Depth	12	feet
Soil Disposed	0	cubic ya	rds Of	fsite Facility	<u> </u>	/a	Location		n/a	
	5									

FINAL ANALYTICAL RESULTS: Sample Date

9/30/2003

Sample Depth

12 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	PID	<u>GRO</u>	DRO	<u>Chloride</u>
Location	ppm	mg/kg	mg/kg	mg/kg
SIDEWALLS	18.5	<10.0	<10.0	240
BOTTOM	17.1	<10.0	<10.0	688
REMEDIATED	21.7	<10.0	<10.0	464
Bore 10 ft east @ 22 ft	XXX	XXX	XXX	142
Bore 15 ft south @ 22	XXX	XXX	XXX	<20

CHLORIDE FIELD TI	ESTS
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General Description of Remedial Action:	Delineation with a backhoe did not
yield a sufficient decline in chloride concentrations	with depth. PID readings were minimal
and lab results confirmed that TPH concentrations	are well below NMOCD guidelines.
The location was bored to determine the vertical e	xtent of chloride impact and tests of the
returns conclusively indicate that chloride ceases	well above groundwater depth (see graphs).
A 1.5 ft compacted clay barrier was installed at the	e bottom of the 25 x 24 x 12-ft-deep excavation
to inhibit further downward migration of chloride.	The excavated soil was landfarmed at the
location and then backfilled into the hole and level	ed. The disturbed surface has been
re-seeded with a blend of native vegetation and w	ill be monitored for growth. A new watertight
junction box has been built over this site.	
enclosed: lab results, chloride graphs, diagram, pl	notos, clay compaction test

LOCATION	DEPTH (ft)	ppm
Vertical	8	880
	9	1280
	10	964
	11	807
	12	940
4-wall comp.	n/a	611
bottom comp.	12	534
remed. comp.	n/a	745
bore 15 ft south	22	201
bore 10 ft east	22	222

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

DATE	12/24/2003	PRINTED NAME	Kristin Farris	
SIGNATURE	Knivin James	TITLE	Project Scientist	

## EME jct. M-10-1



Old wooden box prior to excavation



Backhoe excavation & delineation



Density & compaction test of clay



Seeding disturbed area; new plastic junction box in background

ETGI composite Jet Box Finial report 24X25X12 dec SITE EXCAVATION INFORMATION EME marcel PÍD DATE DEPTH CL SOIL COMPOSITION TPH 9-30003 Bottom 12' 534 17.1 Mix 611 18.5 . 4 LIALL Remedited. Zyt 21.7 Backfill 311 N.W.LL/2 14.6 . 5.W. 11 12 256 111 W. W. a. 10' 796 102 E.C.sclis' 613 10.9 . 1 . ÷ . . .. • Juny Mar

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## ANALYTICAL REPORT

## Prepared for:

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

 Project:
 EME M 10-1

 PO#:
 G0307652

 Order#:
 G0307652

 Report Date:
 10/08/2003

<u>Certificates</u> US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS I, LTD.

## **ENVIRONMENTAL LAB OF TEXAS**

#### SAMPLE WORK LIST

Rice Operating 122 W. Taylor Hobbs, NM 88240 505-397-1471 Order#:G0307652Project:Bore SamplesProject Name:EME M 10-1Location:None Given

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> 0307652-01	<u>Sample :</u> 10' E. Source @ 22'	<u>Matrix:</u> SOIL	Date / Time <u>Collected</u> 9/19/03 10:30	Date / Time <u>Received</u> 10/6/03 8:00	Container Plastic Bag	Preservative icc
Lai	<i><u>b Testing:</u></i> Chloride	Rejected: No	Tem			
0307652-02	15' S. Source @ 22'	SOIL Rejected: No	9/19/03 14:30 Tem	10/6/03 8:00 p: 4.0 C	Plastic Bag	ice
<u></u>	Chloride					

## ENVIRONMENTAL LAB OF TEXAS

#### ANALYTICAL REPORT

Kristin Farris Rice Operating 122 W. Taylor Hobbs, NM 88			Order# Project Project Locatio	t: B t Name: F	0307652 ore Samples EME M 10-1 one Given			
Lab ID: Sample ID:	0307652-01 10' E. Source @ 22'							
Test Paran	neters .	Result	Units	Dilution <u>Factor</u>	<u>RL</u>	Method	Date Analyzed	<u>Analyst</u>
Chloride		142	mg/kg	1	20	9253	10/7/03	SB
Lab ID: Sample ID:	0307652-02 15' S. Source @ 22'							
Test Param Parameter Chloride	neters	<u>Result</u> <20	<u>Units</u> mg/kg	Dilution <u>Factor</u> 1	<u>RL</u> 20	<u>Method</u> 9253	Date <u>Analyzed</u> 10/7/03	<u>Analyst</u> SB
				Celey D. K Jeanne Mc Sandra Bie	Tuttle, Lab Din Leene, Org. Tec	Tech. Director		9/03 Date

RL = Reporting Limit N/A = Not Applicable

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

## ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

#### **Test Parameters**

Order#: G0307652

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0007064-01			<20		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0307648-01	1030	500	1540	102.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0307648-01	1030	500	1560	106.%	1.3%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0007064-04		5000	4960	99.2%	

ENVIRONMENTAL LAB OF TEXAS I, LTD.

## Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763		15-563-1800 15-563-1713				•						CI	HAIN	OF C	ะบรา	σογ	REC	ORE	D AN	D AN	ALY	sis R	EQUE	EST		
Project Mana	ager: KRISTIN	FARRIS										······		Proj	ect N	lame	:_{	<u>[]</u>	<u>1</u> E	-	M	<u>' /(</u>	0 -	/		
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Company Addr	ress: 122 W. 7	FAYLOR	<u></u>											Pr	oject	t Loc	:									
City/State	IZIP: Hobbs, 1	VM. 8	38240	· • • • • • • • • • • • • • • • • • • •																						
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0.3017652	FIELD CODE		Date Sampled	Time Sampled	No. of Containers	lce .	HNO	HCI .	H <sub>2</sub> SO <sub>4</sub>	None	Other ( Specify)	Water Studene	Soli	Other (specify):	TDS / CL / SAR / EC	TPH 7X 1005/1006	TPH 8015M GRO/DRO	s Ag Ba Cd Cr Pb	Volatiles	Semivalatiles	-17					RUSH TAT (Pre-Schedule) Standard TAT
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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: ROY RASCON 122 W. TAYLOR HOBBS, NM 88240 FAX TO: (505) 393-1471

Receiving Date: 09/30/03 Reporting Date: 10/01/03 Project Number: NOT GIVEN Project Name: EME M-10-1 Project Location: LEA CO., NM Sampling Date: 09/30/03 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC/AH

	•	GRO	DRO	
		(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	Cl*
LAB NUMBER	SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DA	TE	09/30/03	09/30/03	10/01/03
H8051-1	BOTTOM 12'	<10.0	<10.0	688
H8051-2	4 WALLS	<10.0	<10.0	240
H8051-3	REMEDIATED BACKFILL	<10.0	<10.0	464
Quality Contro	. <u>.</u>	806	792	1050
True Value QC		800	800	1000
% Recovery	·	101	90.0	105
<b>Relative Perce</b>	ent Difference	1.4	11.3	6.7

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI B \*Analyses performed on 1:4 w:v aqueous extracts.

H8051 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 thinty (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.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79803 101 East Marland, Hobbs, NM 88240 Page\_\_\_\_of\_\_\_\_ (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476 Company Name: Fice Operation Co. ANALYSIS REQUEST Project Marnagher: BALLIN POR Address: 122 W. Jacker Company. City: No665 State:NMZIp: 88240 Attn: Phone #: 505- 393-9124 Address: City: FILM: 505-392-1421 Project #: State: Project Owner: ZIp: Project Name: Emp m.10-1 Phone #: Fax #: Project Location: Les PRES. SAMPLING FOR LAD USE ONLY MATRIX 4 (G) RAB CR (C)( GROUNDWATER WASTEWATER S CONTAINER LAB I.D. Sample I.D. OIL SLUDGE OTHER : DE /CO OTHER ¥Ciū DATE TIME Sottom 12 9 Wells <u><</u> 6 10:11 9.30.07 Ċ 6 30-13 10:29 Constant Beckfill 10 03 10:33 V C I amage and Constitions: Informat will be charged on 14 execution edito the procest prid by the client its of 30 clique puels dues autone rates of 24.55 per annuals from the schighter date of knowless matrees. Al statut included include for ready y Cluster within 20 days play completion of the applicable and all costs of collections, hick day attorney's twoear-los - In no avect wheel Construct he finishe for Incidential or screetsprints decemper, including without Antenian, Buttmess Internetions, Inan of use, or box of profiles Incurrent by effect. It sublicit states entrative or submessive entering out of or related to the performance of services horsestary by Gordeni regention of whot as such calls in based open or of the state entering of the date of service of the state of services the service of the serv Phone Reputt D Yes D Ho Additional Fax 8: Fax Result: D Yes D No Received By: Thme: REMARKS: Fax copy to rice Reinquished By: Date: 7-30.03 Received Byr. (Lab Stam) 4310PM Delivered By: (Circle Onel ECKET) BY: Gample Cool XI Ye Thiset 0 (Initials) Sampler - UP8 - Bus - Other: Yes Yes No

f. Cardinal cannot accept verbal changes. Please fax written changes to 915-873-7020.

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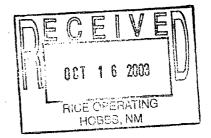
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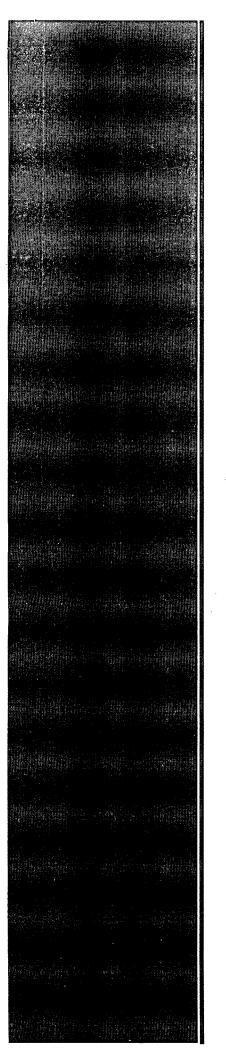
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ENCLUE AND SHOW		LABORATORY TEST REPORT GREW and ASSOCIATES, P.4 1110 N. GRIMES HOBBS, NM 88240 (505) 393-9827	A. Ashto Ris DEBRA P. HICKS. P.E./L.S.I. WILLIAM M. HICKS. III, P.E./P.S.	
То:	Rice Operating Corporation Attn: Carolyn Haynes 122 W. Taylor	Material:	Red Clay	
	Hobbs, NM 88240	Test Method:	ASTM: D 2922	
Project:	M 10-1			
Date of Test:	October 13, 2003	Depth:	Finished Subgrade	

Test No.	Dry Density					
	Location	% Maximum	% Moisture	Depth		
SG-1	SW Corner of Pit	101.7	19.4			



Control Density:	104.2 ASTM: D 698	Optimum Moisture: 23.1%
Required Compaction:	95%	
Lab No.:	03 6302-6303	PETTIGREW and ASSOCIATES
Copies To:	Rice Operating	BY: Confection.



## **Current Photodocumentation**

RICE *Operating Company* (ROC) 112 West Taylor Hobbs, NM 88240 Phone: (575) 393-9174 Fax: (575) 397-1471

#### EME M-10-1 (1R427-37) Unit Letter M, Section 10, T21S, R36E



Facing North

12/17/2012



Facing West

12/17/2012