1R-427-395

REPORTS

DATE.

# IR427-395

,

## EME J-20 EOL 2012

1

.

## 122 27.3

OE Conservation Division 1020 S. Ct. Francis Drift 

.

# **CLOSURE**

RICE Operating Company 122 West Taylor • Hobbs, New Mexico 88240

Phone: (575) 393-9174 • Fax: (575) 397-1471

April 1, 2013



APR 2 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

Oil Conservation Division 1220 S. St. Francis Drive Scata Fe, NM. 87505

RE: Termination Request EME J-20 EOL: UL/J, Sec. 20, T19S, R37E 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 2012, ROC initiated work on the former J-20 EOL. The site is located in UL/J, Sec. 20, T19S, R37E. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 56 +/- feet. The site was delineated using a backhoe to collect soil samples at regular intervals, creating a 3x7x6-ft deep excavation. Each sample was field titrated for chlorides and field screened using a PID for hydrocarbons, resulting in low concentrations of each. The 6-ft sample was sent to a commercial laboratory for analysis of chloride and TPH, resulting in a chloride concentration of <16 mg/kg and concentrations of gasoline range organics (GRO) concentration and diesel range organics (DRO) below detectable limits. The excavated soil was returned to the excavation and contoured to the surrounding area. On 7/18/2012, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate. The junction box location plat, final report, photo documentation, laboratory analysis, PID sheet, chloride graph, and revegetation form 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

#### RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

					BOX LOCA						
	SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX D	IMENSIONS	- FEET	
	Eunice Monument	J-20 EOL	J	20	19S	37E	Lea	Length	Width	Dep	th
	Eumont (EME)								Eliminated		
	LAND TYPE: E	3LM	STATE X	FEE LA	NDOWNER			OTHER			
	Depth to Grour	ndwater	56	feet	NMOCD	SITE ASSI	ESSMENT	RANKING S	CORE:	10	
	Date Started	4/4/2	2012	Date Co	mpleted	4/11/2012		Witness	N	0	
	Soil Excavated	4.7	cubic yar	ds Exc	cavation Le	ngth3	Width	7	Depth	6	_feet
	Soil Disposed	None	cubic yar	ds Of	fsite Facility	n	la	Location		n/a	
'IN	AL ANALYTI	CAL RE	SULTS:	Sampl	e Date	4/11/201	2	Sample De	pth	6'	

TPH and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

Sample	PID (field)	GRO	DRO	Chloride
Location	ppm	mg/kg	mg/kg	mg/kg
SOURCE 6' GRAB	0.5	<10	<10	<16

 General Description of Remedial Action:
 This junction and line were eliminated

 during the pipeline replacement/upgrade program.
 After the former junction box was

 removed, an investigation was conducted using a backhoe to collect soil samples at

 regular intervals, creating a 3x7x6 ft. deep excavation.

 chloride field tests performed on

 each sample yielded concentrations similar to that of the background sample.

 vapors were measured using a PID which yielded low concentrations.

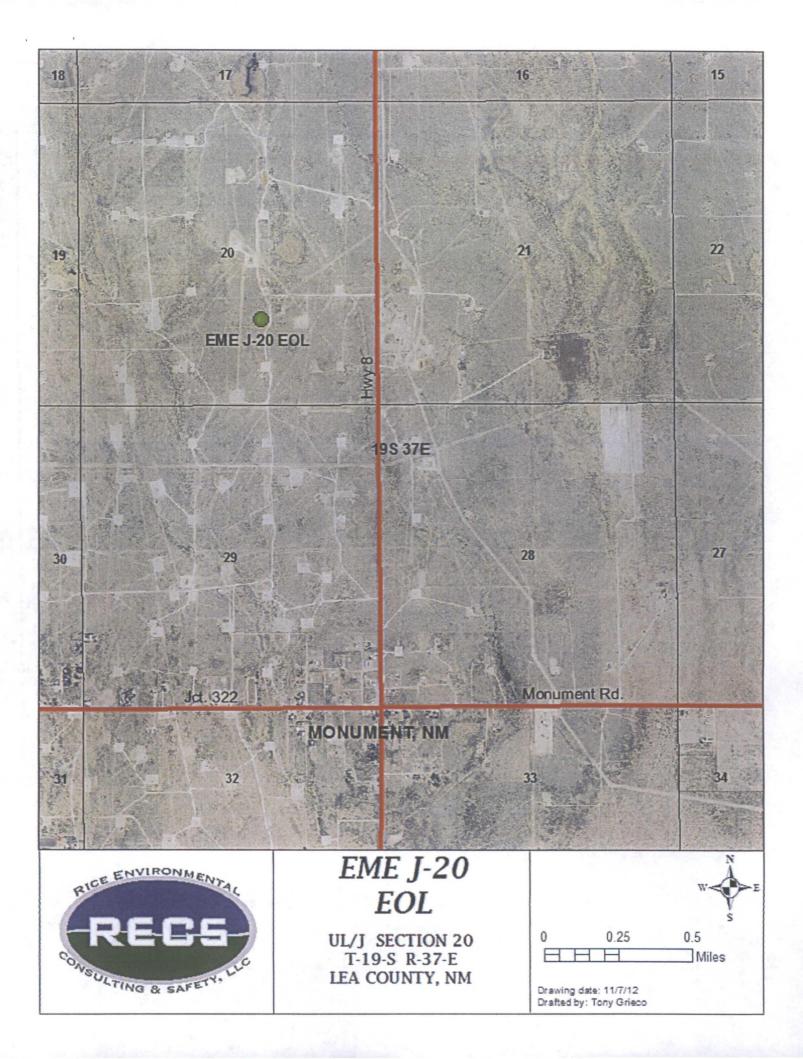
CHLORIDE FIELD TESTS							
LOCATION	DEPTH	mg/kg					
background	6"	230					
	1'	146					
vertical	2'	111					
delineation trench at the	3'	143					
junction	4'	147					
(source)	5'	146					
. ,	6'	118					

sample, 6 ft. below ground surface (BGS) was sent to a commercial laboratory for analysis of chloride and TPH, which confirmed low concentrations of each. The excavation was backfilled with excavated soil to ground surface and contoured to the surrounding area. On

7/18/2012, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate.

enclosures: site location map, photos, lab results, PID (field) screenings, chloride graph, revegetation form I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE

REPORT ASSEMBLED BY	Laura Peña		AND BELIEF. Aura Pen	COMPANY	Rice Operating
	Dustin Yarbrough	SIGNATURE	Not Available	COMPANY	Rice Environmental Consulting & Safety
PROJECT LEADER _	Zach Conder	SIGNATURE	2 mg	DATE	3-4-13







Excavating site, facing north

4/11/2012



Backfilling site, facing west

4/11/2012



Collecting sample, facing south

4/11/2012



Seeding site

7/18/2012

**CARDINAL** Laboratories

April 17, 2012

ZACH CONDER Rice Operating Company 112 W. Taylor Hobbs, NM 88240

RE: EME J-20 EOL

Enclosed are the results of analyses for samples received by the laboratory on 04/11/12 16:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.qov/field/qa/lab">www.tceq.texas.qov/field/qa/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



#### Analytical Results For:

Rice Operating Company							
ZACH CONDER							
ylor							
, 88240							
(575) 397-1471							
	IDER ylor , 88240						

Received:	04/11/2012	Sampling Date:	04/11/2012
Reported:	04/17/2012	Sampling Type:	Soil
Project Name:	EME J-20 EOL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: SOURCE @ 6' (H200835-01)

Chloride, SM4500CI-B	500CI-B mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/16/2012	ND	400	100	400	11.3	
TPH 8015M	mg	/kg	Analyze	d By: MS	-				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/14/2012	ND	191	95.6	200	6.82	
DRO >C10-C28	<10.0	10.0	04/14/2012	ND	208	104	200	3.99	
Surrogate: 1-Chlorooctane 104 % 55.5-		% 55.5-15	4			<u> </u>			· · · · · · · · · · · · · · · · · · ·
Surrogate: 1-Chlorooctadecane	107	% 57.6-15	8				×		

#### **Cardinal Laboratories**

\*=Accredited Analyte

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 thiny (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without himitation, 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report



#### Cardinal Laboratories

#### \*=Accredited Analyte

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 writin thrint (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Real's relative that is subsidiaried aver. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

Pager3 of 4 of

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240	2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476	(325) 673-7001 FAX (325)673-7020

Company Name	RICE Operating								NÌ.	i i i i i i i i i i i i i i i i i i i	5//	LL TO						ANAL	YSIS	RE	QUE	ST		
Project Manage	r: Zach Conder								O. #	_														
Address: 112								C	omp	any	:							S						
City: Hobbs		State: NM	Zip	: 88	240	-		A	ttn:		•							b					·	
Phone #:		Fax #:						A	ddre	ss:								١n						
Project #:		Project Owner						Ci	ity:						Σ		I	s//						
Project Name:								S	tate:			Zip:		<u>ě</u>	2	X	D	ü						
Project Location	EME J-2	20 EOK	·					PI	hone	e #:				1.2	801	Ш	Г S	atic	TDS					
Sampler Name:	n: EME J-J Dustin W.	Varbro	i.	gh			,	Fa	ax #:					Chlorides		BTEX	Texas TPH	Ö	F					
FOR LAB USE ONLY	c	0		2		MAT	RIX		PR	ESE	RV.	SAMPL	NG	1	TPH		Le,	te						
Lab I.D.	Sample I.		(G)RAB OR (C)OMF	# CONTAINERS	GROUNDWATER WASTEWATER	SOIL	OIL	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME					Complete Cations/Anions						
1	Jource @ 6	2	G	1						/		4-11-12	2:30P		1									
(	$\bigcirc$		[			_			-														 	
																					·····		 	
	$\bigcirc$																						 	
												<u>_</u>											 •	
																		<u>-</u>					 	
					****						-										-		 	
	$\ll$	- ·		-							-1												 	
analyses. All claims includin sorvice. In no event chall C	ed Damagos, Cardinal's liability and clion rg those for negligence and any other ca ardinal he liable for incidental or conseq ng out of or related to the performance o	use whatsoever shall be o uental clamages, including	leemoc withou	l waive I Amital	d unless iun, busi	made in ness inte	writing a rruption	nd rece s, loss d	eived b of use,	y Caldi or loss	nal wi of pre	thin 3D days alle ofits incurred by c	completion of th lient, its subsidia	n applical rics.	ble								 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Relinquished By	V: A A	Date; 4-11-12	Re	çeiv	ed By	<b>/</b> :	t,	1					Phone Res Fax Result		□ Ye □ Ye			Add'l F Add'l F	hone f	¥:			 	
Lestate	1. Beltand-	4:10	6	Ö	ll	0	<u>I</u>	le,	W	1	Ŀ,	1 m	REMARKS	5:		<u>5 (2)</u>	110	Auutr	ax #:				 	
Relinquished By	V: /	Date:	Rg	ceiv	ed By	1:							email	resu	llts									

CHECKED BY:

二次ク

Sample Condition

email results Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com;

kjones@riceswd.com

Cool Intact Yes Yes No No † Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Page 4 of 4

## RICE ENVIRONMENTAL CONSULTING & SAFETY

#### 122 West Taylor Hobbs, NM 88240 PHONE: (575) 393-9174 FAX: (575) 397-1471 PID METER CALIBRATION & FIELD REPORT FORM

CK.	
MODEL	
NO.	
	x

MODEL: PGM 7300 MODEL: PGM 7300 MODEL: PGM 7320 MODEL: PGM 7300 
 SERIAL NO:
 590-000508

 SERIAL NO:
 590-000504

 SERIAL NO:
 592-903318

 SERIAL NO:
 590-902072

#### GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

EXPIRATION DATE: 7/1/2015

METER READING ACCURACY: 100 ppm

ACCURACY : +/- 2%

LOT NO: HAL-248-100-1

# COMPANY Rice Operating Company

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
EME	J-20 EOL	J	20	195	37E

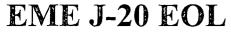
SAMPLE ID	PID	SAMPLE ID	PID
	1		
Source @ 2'	1.0		
	0.8		
4'	0.8		
5'	0.0		
	0.6	······································	
6'	0.5		
0	0.5		
······································		······································	
	·		
· · · · · · · · · · · · · · · · · · ·		······································	
		······································	
			577
		$  \qquad (( \ \Box (( )))   )$	$\mathbb{P}\mathbb{V}$

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

SIGNATURE: Not Available

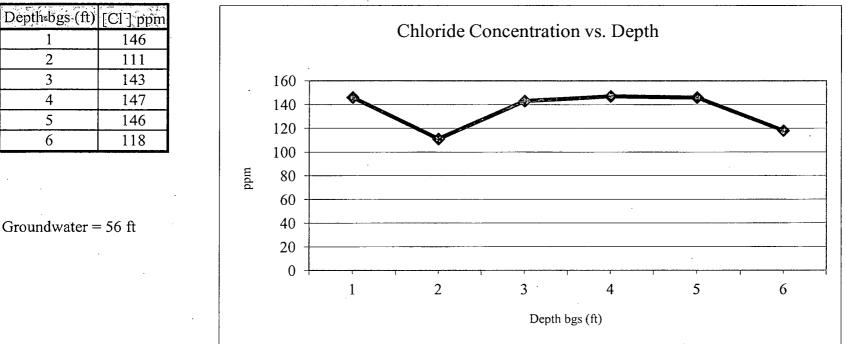
DATE: 4/11/2012

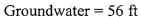
### CHLORIDE CONCENTRATION CURVE



Unit 'J', Sec. 20, T19S, R37E

#### Backhoe samples at junction (source)





1 2

3

4

5

6



PO Box 5630 Hobbs, NM 88241 Phone: (575) 393-4411 Fax: (575) 393-0293

### VECETATION FORM

VEGETATION FORM									
1. General Information									
Site name: EME J-20 EOL									
U/L	Section	Township	Range	e County		Latitude		Longitude	
J	20	19S	37E		Lea	N 32°38'32	2.7"	W 103°16'16.5"	
Contact Name: Zach Conder									
Email: Zconder@rice-ecs.com									
Site size: square feet Map detail of site attached									
Additional information:									
2. Soils		ip caliche subsoils,							
Salvaged from s		oremediated		orted 🗌	Blend	ed	Depth (in	1):	
Texture: Sandy		scribe soil & sub		<u> </u>					
A	Soil prep methods:     Rip     Depth(in):     Disc     Depth (in):     Rollerpack								
Date completed:	4/11/2012								
3. Bioremed	iation			-	•				
Fertilizer				Hay 🗌 Other 🗌					
Туре:							Describe:		
Lbs/acre:						<u> </u>			
4. Seeding	<b>4. Seeding</b> *Attach seed bag tags to this form. Seed bag tags shall contain the site name and S-T-R.								
Custom seed mi	x 🛛 🛛 Presc	ribed mix 🗌	Seed mix	name: 0.5	b Blue G	rama	Seéding o	date: 7/18/12	
Broadcast 🔀									
Method: Portable seeder									
Soil conditions during seeding: Dry 🛛 Damp 🗌 Wet 🗌									
Photos attached Observations:									
Number of phot	ọs:								
5. Certification I hereby certify that the information in this form and attachments is true and complete to the best of my knowledge and belief.									
Name: Dusty Y					nvironmen			Date: 7/18/12	
Signature:	Not Available	•							
orgnature.	······································							•	
		1							

