1R-427-403

REPORTS

DATE:

3-15-13

EME O-20 EOL 2012

18427-403

CLOSURE

RICE Operating Company

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

April 1, 2013



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Mr. Edward Hansen New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87505 APR 2 2013

Oil Conservation Division 1220 S. St. Francis Drive

RE: Termination Request EME O-20 EOL: UL/O, Sec. 20, 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 2012, ROC initiated work on the former O-20 EOL. The site is located in UL/O, Sec. 20, T21S, R36E. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 225 +/- feet. The site was delineated using a backhoe to collect soil samples at regular intervals, creating a 3x7x12-ft deep excavation. Each sample was field titrated for chlorides and field screened using a PID for hydrocarbons, resulting in low concentrations of chlorides and slightly elevated concentrations of hydrocarbons. The 12-ft sample was sent to a commercial laboratory for analysis of chloride and TPH, resulting in a chloride concentration of 80 mg/kg, a gasoline range organics (GRO) concentration below detectable limits and a diesel range organics (DRO) concentration of 1,860 mg/kg. The excavated soil was returned to the excavation and contoured to the surrounding area. On 11/8/2012, 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	TION								
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET						
Eunice Monument				040			Length	Width	Depth				
Eumont (EME)	0-20 EOL	0	20	21S	36E	Lea		Eliminated	1				
LAND TYPE: E	BLM	STATE X	FEE LAI	NDOWNER		· · · · · · · · · · · · · · · · · · ·							
Depth to Grour	dwater	225	feet	NMOCE	SITE ASS	ESSMENT	RANKING S		0				
Date Started	3/14/	2012	Date Cor	mpleted	3/14/2012		Witness	N)				
Soil Excavated	9.3	cubic yai	ds Exc	avation Le	ngth 3	Width	7	Depth	12	feet			
Soil Disposed	None	cubic yar	rds Off	site Facility	n	/a	Location		n/a				
INAL ANALYTI	CAL RES	SULTS:	Sample	e Date	3/14/201	2	Sample Der	oth	12'				

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 12' GRAB	30.1	<100	1860	80

 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 3x7x12 ft. deep excavation.
 Chloride field tests performed

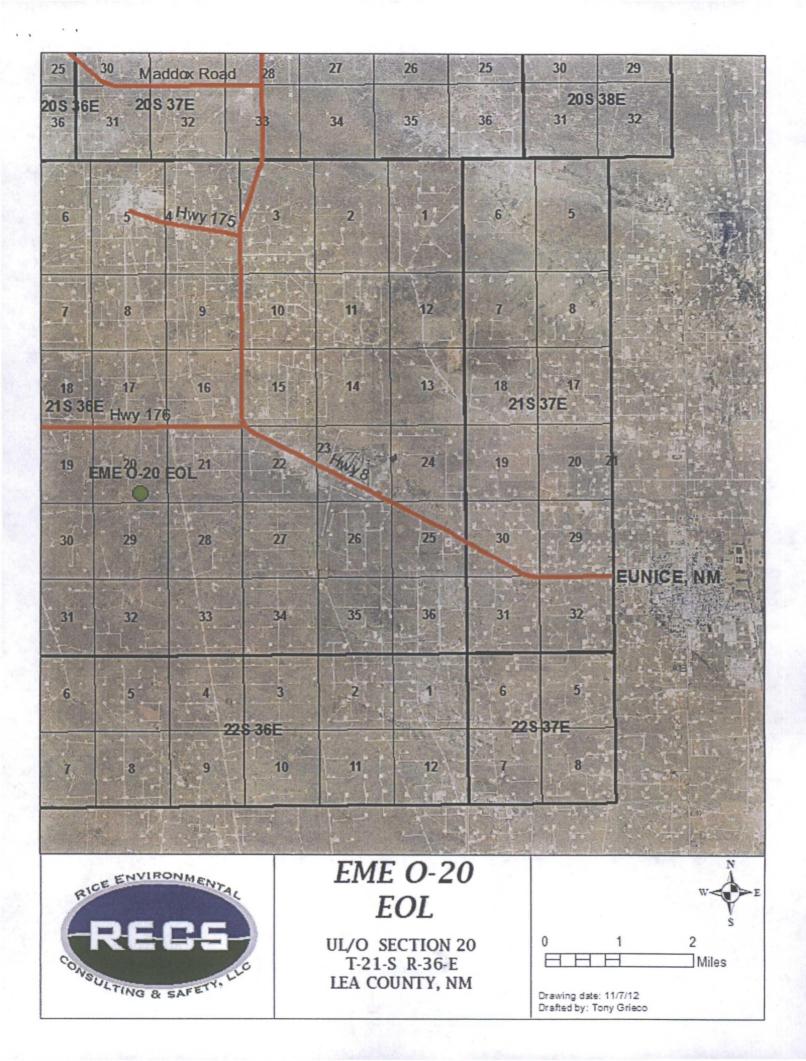
 on each sample yielded concentrations similar to that of the background sample.
 Organic vapors were measured using a PID which yielded elevated concentrations.

CHLORIDE FIELD TESTS									
LOCATION	DEPTH	mg/kg							
background	6"	90							
vertical delineation trench at the	7'	148							
	8'	121							
	9'	150							
junction	10'	123							
(source)	11'	148							
	12'	148							

The deepest sample, 12 ft. below ground surface (BGS) was sent to a commercial laboratory for analysis of chloride and TPH, which confirmed low concentrations of chloride and elevated concentrations of TPH. The excavation was backfilled with excavated soil to ground surface and contoured to the surrounding area. On 11/8/2012, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate.

	enclosu	res: site location map, photos, lab results, PID (fi	eld) screenings, chlori	de graph, revegetation form
I HEREBY CERTIF	Y THAT THE INFO	RMATION ABOVE IS TRUE AND COMPLET	E TO THE BEST OF	MY KNOWLEDGE AND
		BELIEF.		
REPORT		\mathcal{Q}	_	
ASSEMBLED BY	Laura Peña	SIGNATUBE Allra Ten	COMPANY_	Rice Operating

	Oscar Frayre	_SIGNATURE	Not Available	COMPANY	Rice Environmental Consulting & Safety
PROJECT LEADER	Zach Conder	SIGNATURE	mala	DATE	3-15-13





Excavating site, facing north

3/14/2012

EME O-20 EOL



Seeding site, facing south

11/8/2012



Collecting sample, facing east

3/14/2012



Site complete, facing east

11/8/2012

CARDINAL Laboratories

March 16, 2012

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

RE: EME O-20 EOL (21/36)

Enclosed are the results of analyses for samples received by the laboratory on 03/14/12 16:25.

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 www.tceq.texas.gov/field/qa/lab 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,

Celug 2 Frene

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

Rice Operating Company ZACH CONDER 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	03/14/2012	Sampling Date:	03/14/2012
Reported:	03/16/2012	Sampling Type:	Soil
Project Name:	EME O-20 EOL (21/36)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SOURCE @ 12' (H200644-01)

Chloride, SM4500CI-B	00CI-B mg/kg			d By: AP	··					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/15/2012	ND	400	100	400	0.00		
ГРН 8015M	mg	/kg	Anaiyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	· <100	100	03/15/2012	ND	249	124	200	10.9		
DRO >C10-C28	1860	100	03/15/2012	ND	208	104	200	11.7		
Surrogate: 1-Chlorooctane	115	% 55.5-15	4 .				<u></u>			
Surrogate: 1-Chlorooctadecane	138	% 57.6-15	8							

Cardinal Laboratories

GOPY

*=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 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 uses of loss of profits incurred by client, its subsidianties, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based on any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with writter approval of Cardinal laboratories.

Celeg D. Keene

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

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*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hobbs, NM (575) 393-2326 FAX (575) 393-2																									
Company Name	Rece Operating						9	BILL TO ANALYSIS REQUEST																		
Project Manage	: Park Hender	'					P	P.O. #:								T	1		1	ſ		Γ				
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Phone #:	Fax #:						A	ddi	ess	:							•							1		
Project #: Project Owner:					с	ity:																				
Project Name:							s	tate): 	:	Zip:															
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Sampler Name: FOR LAB USE ONLY	acent Engol		<u></u>	1	MA	TRIX	F	ax i	#: RESI	RV	SAMPL	ING						1					ĺ			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER			SLUDGE	ų.			DATE	Т	IME -	. C. Star		Prover 12 11										
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'† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

RICE ENVIRONMENTAL CONSULTING & SAFETY

122 West Taylor Hobbs, NM 88240 PHONE: (505) 393-9174 FAX: (505) 397-1471 PID METER CALIBRATION & FIELD REPORT FORM

CK.		MODEL: PGM 7300	SERIAL NO: 590-000508
MODEL		MODEL: PGM 7300	SERIAL NO: 590-000504
NO.		MODEL: PGM 7320	SERIAL NO: 592-903318
	x	MODEL: PGM 7300	SERIAL NO: 590-902072

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: HAL-248-100-1

EXPIRATION DATE: 7/1/2015

METER READING ACCURACY: 100 ppm

ACCURACY : +/- 2%

 COMPANY

 Rice Operating Company

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
EME	O-20 EOL	0	20	215	36E

SAMPLE ID	PID	SAMPLE ID	PID
Background @ 6"	3.8	· ·	
Background (200			
Source @ 7'	466.5		
8'	42.4		
9'	122.3		
10'	84.7		
<u>11'</u>	53.8		
. 12'	30.1		
		· · · · · · · · · · · · · · · · · · ·	
		COP	V7
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I verify that I have calibrated the above instrument in accordance to the manufacture operation manual.

SIGNATURE: Not Available

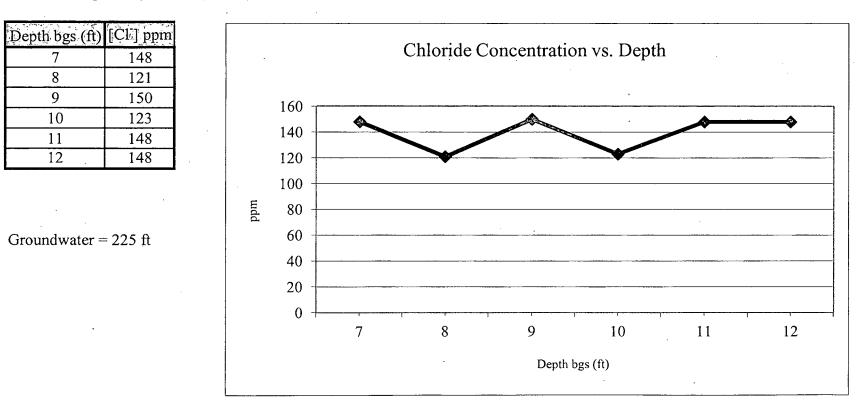
DATE: 3/14/2012

CHLORIDE CONCENTRATION CURVE

EME O-20 EOL

Unit 'O', Sec. 20, T21S, R36E

Backhoe samples at junction (source)





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

REVEGETATION FORM

	Information					· · · · · · · · · · · · · · · · · · ·
Site name: EM	E O-20 EOL					
U/L	Section	Township	Range	County	Latitude	Longitude
0	20	T21S	R36E	LEA	32*27.552'	103*17'.06.0
Contact Name:						
Email:zconder(@rice-ecs.com	1				
					· · · · · · · · · · · · · · · · · · ·	
<u> </u>				- <u></u> .		<u> </u>
					1 67	·
Site size: 25'X			Map deta	il of site attach	ed 🔀	
Square feet: 19 Additional info		·				
Additional into	rmation:					
2. Soils	*Do not	rip caliches subsoils	: caliche rocks	brought to the su	rface by ripping shall b	e removed
Salvaged from		oremediated	Imported			Depth (in):
Texture:		escribe soil & subs				· · · · · · · · · · · · · · · · · · ·
Soil prep metho				sc 🛛 Depth	(in): Rolle	r pack
Date completed		· · · · · · · · · · · · · · · · · · ·	£			
1						
<u> </u>						
3. Bioremed	liation		······			
Fertilizer		····	Ha	у 🛄		her 🛛
Туре:		<u></u>			· De	scribe:
Lbs/acre:	<u></u>		·			
4. Seeding	* Attach	seed has tass to this	form Seed bag	tags shall contai	n the site name and S-T	
Custom seed m					FER RYE, 2LBS. BL	
			Seeding date: 1		ER ICI D, 2000. DD	
Broadcast 🕅		l	<u> </u>			
Method: MEC	HANICAL H	AND HELD SPRE	EADER			
Soil conditions	during seedin	ig: Dry 🛛	Damp 📋 🛝	Wet 🗌		
Photos attached		Observations:				
Number of pho	tos:		·			
5. Certification belief.	tion I hereby c	ertify that the informat	ion in this form a	nd attachments is tr	ue and complete to the bes	t of my knowledge and
Name: Co	trada	Par cuice	Ti	tle: Enviro	nmental Tech	Date: 11-8-2012
	Stareo (narja		Livito		Date. 11-0-2012
Signature:	Adreso	(Acutan)	·			<u> </u>
		- 1997 -				