427-10 1R -

REPORTS

DATE:



Rice Environmental Consulting & Safety

P.O. Box 5630 Hobbs, NM 88241 Phone 575.393.4411 Fax 575.393.0293

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CERTIFIED MAIL RETURN RECIEPT NO. 7007 2560 0003 0323 9162

July 15th, 2011

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 Rice Operating Company – EME SWD System EME P-27 EOL (1R427-10): UL/P sec. 27 T20S R36E

Mr. Hansen:

RICE Operating Company (ROC) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site in the EME Salt Water Disposal (SWD) system. ROC is the service provider (agent) for the EME 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/usage basis.

Background and Previous Work

The site is located approximately 7 miles south-west of Monument, New Mexico or 4.5 miles west of the intersection of Maddox Road and Hwy 8 at UL/P sec. 27 T20S R36E as shown on the Site Location Map (Figure 1).

In 2003, ROC initiated work on the former EME P-27 EOL junction box. The site was delineated using a backhoe to form a trench. Soil samples were screened at regular intervals for both hydrocarbons and chlorides. From the trench, the bottom sample was taken to a commercial laboratory for analysis. Laboratory tests of the bottom sample showed a chloride reading of 1,400 mg/kg, negligible gasoline range organics (GRO) and diesel range organics (DRO). The benzene reading for the bottom sample was 0.115 mg/kg, the toluene reading was 0.076 mg/kg, the ethyl benzene reading was non-detect and the xylene reading was 0.029 mg/kg.

The site was backfilled and NMOCD was notified of potential groundwater impact on July 23rd, 2003. A junction box disclosure report was submitted to NMOCD with all the 2003 junction box closures and disclosures.

ROC proposed additional investigative work at the site to determine if there is potential for groundwater degradation from residual chlorides and hydrocarbons at the site.

Proposed Work Elements

- 1. Conduct vertical and lateral delineation of residual soil hydrocarbons and chlorides from samples taken using a drill rig, hand auger, and/or backhoe
 - a. Vertical sampling will be conducted until the following criteria are met in the field.
 - i. Three samples in which the chloride concentration decreases and the third sample has a chloride concentration of ≤ 250 ppm; and,
 - ii. Three samples in which PID readings decrease and the third sample has a PID reading of ≤ 100 ppm; or,
 - iii. The sampling reaches the capillary fringe.
 - b. Lateral sampling will be conducted until the following criteria are met in the field.
 - i. A decrease is observed in chloride concentrations between lateral bores at similar depths; and,
 - ii. A chloride concentration of ≤ 250 ppm is observed in a lateral surface sample; or,
 - iii. Safety concerns impede further lateral delineation.
- 2. If warranted, install a monitor well to provide direct measurement of the potential groundwater impact at the site. (All monitor wells will be installed by EPA, NMOCD, and industry standards.)
- 3. Evaluate the risk of groundwater impact based on the information obtained.

ICP Investigative Results

As part of the Investigation and Characterization Plan approved by NMOCD on May 19th, 2011, one soil bore was advanced through the former junction box site to an approximate depth of 117 ft bgs on May 27th, 2011 (Figure 2). ROC personnel field tested the soil for chlorides and screened in the field with a photo-ionization detector (PID). Representative samples from the bore were taken to a commercial laboratory for confirmation of chloride and hydrocarbon field numbers (Appendix A). Laboratory readings showed chloride numbers of 2,040 mg/kg at 30 ft bgs, 768 mg/kg at 90 ft bgs, and 1,900 mg/kg at 100 ft bgs. Laboratory readings for GRO and DRO showed non-detect in all samples. Although sampling ceased at 100 ft bgs to determine depth to groundwater. The soil bore was left open to allow any groundwater to accumulate. On June 10th, 2011, Arc Environmental personnel visited the site to check for groundwater in the bore hole. The bore was measured with a Solinist Water Level Meter and the meter indicated no water within the borehole to a total depth of 120.35 ft bgs (Appendix B). The soil bore was plugged with bentonite to the ground surface on 6/17/2011.

Based on the fact that there is no groundwater below the former P-27 EOL junction box, the site will in no way contribute to groundwater impairment. In addition, the site is returning to normal vegetative capacity (Figure 3) which will provide an evapo-transpiration barrier at the site inhibiting the downward migration of chlorides. Plants capture water through their roots and so reduce the amount of water infiltrating below the root zone. Since there is no groundwater

present at the site and that the site is returning to normal vegetative capacity, ROC requests that the site be given "remediation termination" of the regulatory file.

ROC appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-9174 or me if you have any questions or wish to discuss the site.

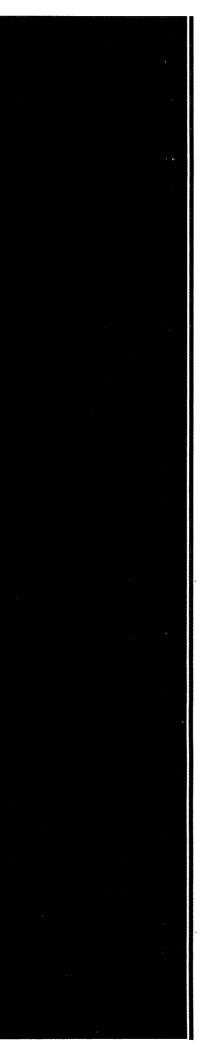
Sincerely,

Lara Weinheimer Project Scientist RECS (575) 441-0431

Attachments:

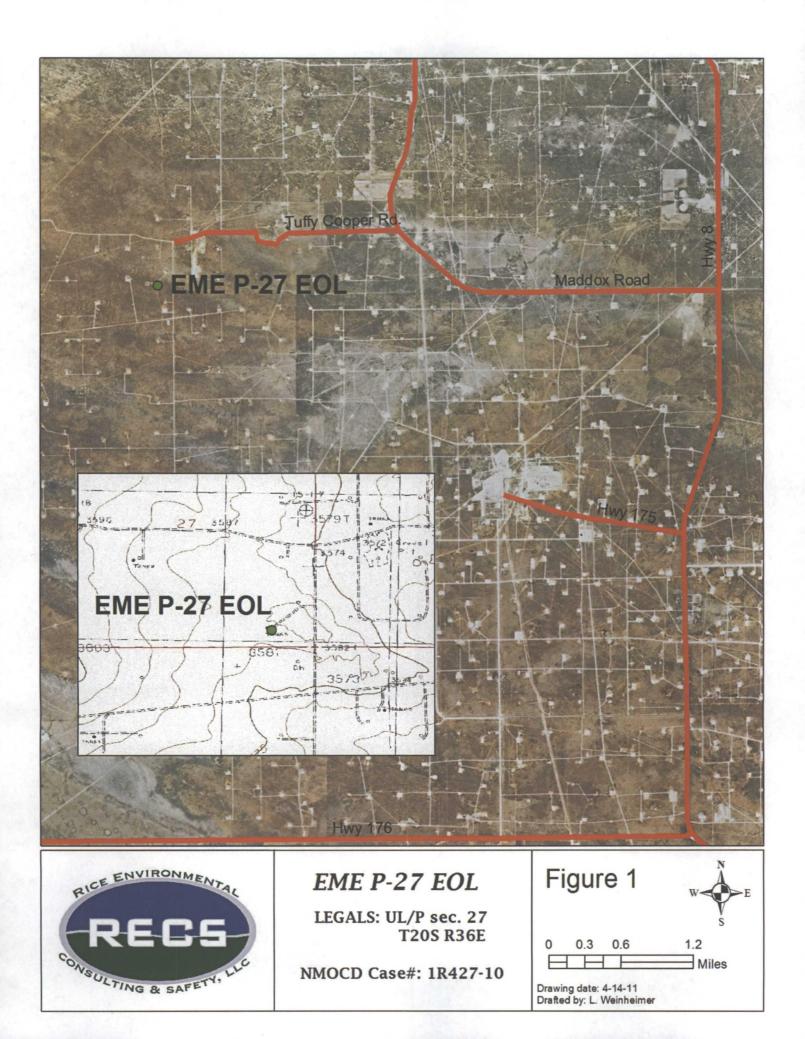
Figure 1 – Site location map Figure 2 – Up gradient site location map Figure 3 – Soil bore installation plat Figure 4 – Site photo on 5/6/2011

Appendix A – Soil bore installation logs and laboratory confirmation Appendix B – Groundwater confirmation letter

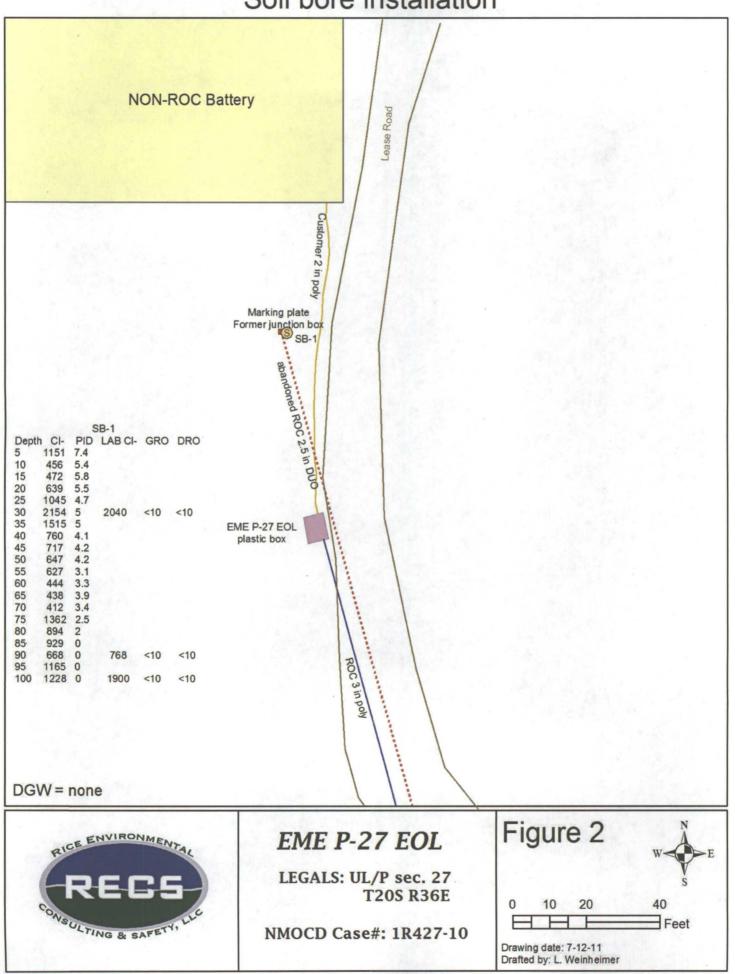


Figures

RICE Environmental Consulting and Safety (RECS) P.O. Box 5630 Hobbs, NM 88241 Phone 575.393.4411 Fax 575.393.0293



Soil bore installation





EME P-27 EOL site photo, facing west

5/6/2011



EME P-27 EOL site photo, facing north

5/6/2011

Figure 3

Appendix A Soil bore installation and laboratory confirmation

RICE Environmental Consulting and Safety (RECS) P.O. Box 5630 Hobbs, NM 88241 Phone 575.393.4411 Fax 575.393.0293

	Nethod: e: e: ents: Locate		per, Inc. y 1 1 ast of the	Marking plate Pormer junction box ©SB-1 000000000000000000000000000000000000	Project Name: EME P-27 E Project Consult	
sam	ples were ta TD = $^{-1}$	DRAF		SOIL BORE PLUGGED 6-17-11 L. Weinheimer GW = none	Lat: 32°32'16.49 Long: 103°20'10	
Depth (feet)	chloride field test		PID	Description	Lithology	Well Construction
				Tan very fine silty sand		
5 ft	1151		7.4			
10 ft	456		5.4	Red very fine silty sand		
15 ft	472		5.8			
20 ft	639		5.5			0
25 ft	1045		4.7			2 in PVC
30 ft	2154	CI- 2040 GRO <10.0	5			
		DRO <10.0				
35 ft	1515		5			
40 ft	760		4.1	Tan to red very fine sand (wet)		

Depth (feet)	chloride field tests	LAB	PID	Description	Lithology	Well Construct
45 ft	717		4.2			
50 ft	647		4.2			
55 ft	627		3.1			
60 ft	444		3.3			annu spa left o
65 ft	438		3.9			SOIL BO
70 ft	412		3.4			
75 ft	1362		2.5	Light brown very fine sand (wet)		
80 ft	894		2			
85 ft	929		0			
90 ft	668	CI- 768 GRO	0			
1.1.1.1.1.1.1		<10.0 DRO				

Depth (feet)	chloride field tests	LAB	PID	Description	Lithology	Well Construction				
	ALC: NO									
			· .	Red clay						
100 ft	1228	CI- 1900	0							
	5.1	GRO <10.0								
		DRO <10.0								
105 ft										
		1								
	St. and			NO SAMPLES TAKEN						
110 ft										
115 ft										
117 ft		1.								

CARDINAL Laboratories

June 01, 2011

Hack Conder

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: EME P-27 EOL

Enclosed are the results of analyses for samples received by the laboratory on 05/27/11 15:07.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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,

7

Celing D. Keine

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

		Rice Opera Hack Conc 112 W. Ta Hobbs NM	ylor		~
	• •	Fax To:	(575) 397-1471		
Received:	05/27/2011			Sampling Date:	05/27/2011
Reported:	06/01/2011			Sampling Type:	Soil
Project Name:	EME P-27 EOL			Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN			Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN				

Sample ID: SB1 @ 30' (H101102-01)

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	05/31/2011	ND	448	112	400	3.51	
TPH 8015M	mg/	/kg	Analyze	d By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2011	ND	203	101	200	1.89	
DRO >C10-C28	<10.0	10.0	05/31/2011	ND	163	81.7	200	0.0275	
Surrogate. 1-Chlorooctane	121 9	70-130						· · · · · · · · · · · · · · · · · · ·	
Surrogate: 1-Chlorooctadecane	128 9	% 70-130							

Sample ID: SB1 @ 90' (H101102-02)

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM			· · = ··		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768 16.0		05/31/2011	ND	448	112	400	3.51	
TPH 8015M	mg/	'kg	Analyze	d By: AB					
Analyte Result Reporting		Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/31/2011	ND	203	101	200	1.89	
DRO >C10-C28	<10.0 10.0		05/31/2011	ND	163	81.7	200	0.0275	
Surrogate: 1-Chlorooctane	Surrogate: 1-Chlorooctane 118 %					·	*	11.1 # 1	
Surrogate · 1-Chlorooctadecane	125 9	% 70-130							
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*=Accredited Analyte

PLEASE NOTE Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, 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 waved unless made in writing and received by claims, including 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 incidented 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 claims based upon any of the thore stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with writem approval of Cardinal Laboratories.

1

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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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Celey Di Kune

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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June 01, 2011

Hack Conder Rice Operating Company 112 W. Taylor

Hobbs, NM 88240

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Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

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05/27/2011	Sampling Date:	05/27/2011
06/01/2011	Sampling Type:	Soil
EME P-27 EOL	Sampling Condition:	** (See Notes)
NOT GIVEN	Sample Received By:	Celey D. Keene
NOT GIVEN		
	06/01/2011 EME P-27 EOL NOT GIVEN	06/01/2011Sampling Type:EME P-27 EOLSampling Condition:NOT GIVENSample Received By:

Sample ID: SB1 @ 100' (H101101-01)

Chloride, SM4500CI-B mg/kg Analyzed By: HM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier (· Chloride 1900 16.0 05/31/2011 ND 448 400 112 3.51 TPH 8015M Analyzed By: AB mg/kg Reporting Limit Analyte Result Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier GRO C6-C10 <10.0 05/31/2011 10.0 ND 203 101 200 1.89 DRO >C10-C28 <10.0 10.0 05/31/2011 ND 163 81.7 200 0.0275 Surrogate 1-Chlorooctane 115 % 70-130 108 % Surrogate 1-Chlorooctadecane 70-130

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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EME P-27 EOL Unit P, Section 27, T20S, R36E



Drilling the soil bore, facing S

5/27/2011



Inserting 2 in casing into well, facing S 5/27/2011



Packing the top of the bore with bentonite 5/27/2011



Plugging the SB in total with bentonite

6/17/2011

Appendix B Groundwater confirmation letter

RICE Environmental Consulting and Safety (RECS) P.O. Box 5630 Hobbs, NM 88241 Phone 575.393.4411 Fax 575.393.0293

Arc Environmental

P. O. Box 1772 Lovington, New Mexico 88260 (575) 631-9310 Rozanne Johnson ~ rozanne@valornet.com

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June 10; 2011

Mr. Hack Conder RICE Operating Company 112 West Taylor Hobbs, New Mexico 88240

EME P-27 EOL

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Mr. Conder,

Re:

On Tuesday June 7, 2011 soil bore #1 at the EME P-27 EOL, Lea County T20S, R36E, Sec 27 Unit Letter P was checked with a Solinist Water Level Meter for water accumulation within the borehole. The meter indicated no water within the borehole at a total depth of 120.35 feet.

Sincerely, Arc Environmental

Rozanne Johnson

Rozanne Johnson

Electronic Copy:

Hack Conder Katie Jones