

1R - 427-54

REPORTS

DATE:

6-5-12

Rice Environmental Consulting & Safety

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

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RETURN RECEIPT NO. 7007 2560 0000 4569 9613

2012 JUN -8 P 1:38

June 5th, 2012

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: Corrective Action Plan Report and Termination Request
Rice Operating Company – EME SWD System
EME B-33 (1R427-54): UL/B sec. 33 T20S R36E
(formerly EME C-33)**

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. The site was previously referred to as the EME C-33. However, GIS mapping shows the site to be located in unit letter B (Figure 1). To reflect the geographical location of the site, the name has been changed to the EME B-33. All correspondence will reference EME B-33.

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 ownership/usage basis.

Background and Previous Work

The site is located approximately 8 miles southwest of Monument, New Mexico at UL/B sec. 33 T20S R36E as shown on the Site Location Map (Figure 1). NM OSE records indicated that groundwater would likely be encountered at a depth of approximately 170 +/- feet. However, soil bore installation activities performed at the site showed that there is no groundwater located beneath the site.

In 2003, ROC initiated work on the former EME B-33 junction box. The site was delineated using a backhoe to form a 12 ft x 12 ft x 12 ft deep excavation and soil samples were screened at regular intervals for both hydrocarbons and chlorides. From the vertical at 12 ft bgs, a bottom grab sample was taken to a commercial laboratory for analysis. Laboratory tests showed a chloride reading of 691 mg/kg, a gasoline range organics (GRO) reading and diesel range organics (DRO) reading of non-detect and a

BTEX reading of non-detect. The excavation was backfilled with the excavated soil. A soil bore was advanced on January 13th, 2004, to determine the vertical extent of the chloride impact. The boring was advanced to 75 ft bgs and samples were taken every five – ten feet. The samples were then field tested for chlorides and the 75 ft sample was taken to a commercial laboratory to be analyzed for chlorides. The laboratory analysis showed a chloride reading of 1,695 mg/kg.

An identification plate was placed on the surface of the site to mark its location for future environmental considerations. NMOCD was notified of potential groundwater impact on January 14th, 2004 and a junction box disclosure report was submitted to NMOCD with all the 2003 junction box closures and disclosures.

ICP Investigative Results

As part of the Investigation and Characterization Plan (ICP) approved by NMOCD on December 1st, 2011, one soil bore (SB-2) was advanced near the former junction box site to a depth of 190 ft bgs on December 12th, 2011. SB-2 was drilled in the area of the highest chloride concentrations found during the junction box investigation. RECS personnel field tested the soil at regular intervals to a depth of 125 ft bgs for chlorides and screened in the field with a photo-ionization detector for hydrocarbons. Representative samples from the bore were taken to a commercial laboratory for confirmation of chloride and hydrocarbon field numbers. Laboratory chloride numbers peaked at 90 ft bgs with a reading of 4,640 mg/kg and declined to 816 mg/kg at 125 ft bgs. GRO and DRO laboratory readings were non-detect throughout the bore. The soil bore was plugged with bentonite to the ground surface.

Red bed clay was encountered at 95 ft bgs which indicated the bottom of the aquifer. Since no groundwater was encountered, the bore was advanced to 190 ft bgs and packed open for 48 hours to allow any possible groundwater to accumulate. On December 14th, 2011, Harrison & Cooper Drilling, Inc. were on site to gauge the bore for groundwater accumulation. They found no water in the bore.

An ICP Report and Corrective Action Plan (CAP) was submitted to NMOCD on January 30th, 2012 and approved on February 13th, 2012. In the report, RECS recommended that ROC re-seed the site to help bring it back to normal vegetative capacity. Vegetation would act as an evapo-transpiration barrier which will inhibit the downward movement of chlorides and hydrocarbons. Plants capture water through their roots and reduce the amount of water infiltrating below the root zone.

Corrective Action Plan Report

On April 20th, 2012, REC personnel were on site to seed the location. The site was seeded with a blend of native vegetation and the site was then watered to promote vegetative growth. Documentation for these activities can be found in Appendix A.

ROC has completed the corrective actions as approved by NMOCD in the CAP by seeding the site. Therefore, ROC requests 'remediation termination' status of the regulatory file.

RECS 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,

A handwritten signature in black ink, appearing to read 'L.W.', followed by a long, horizontal, wavy flourish.

Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

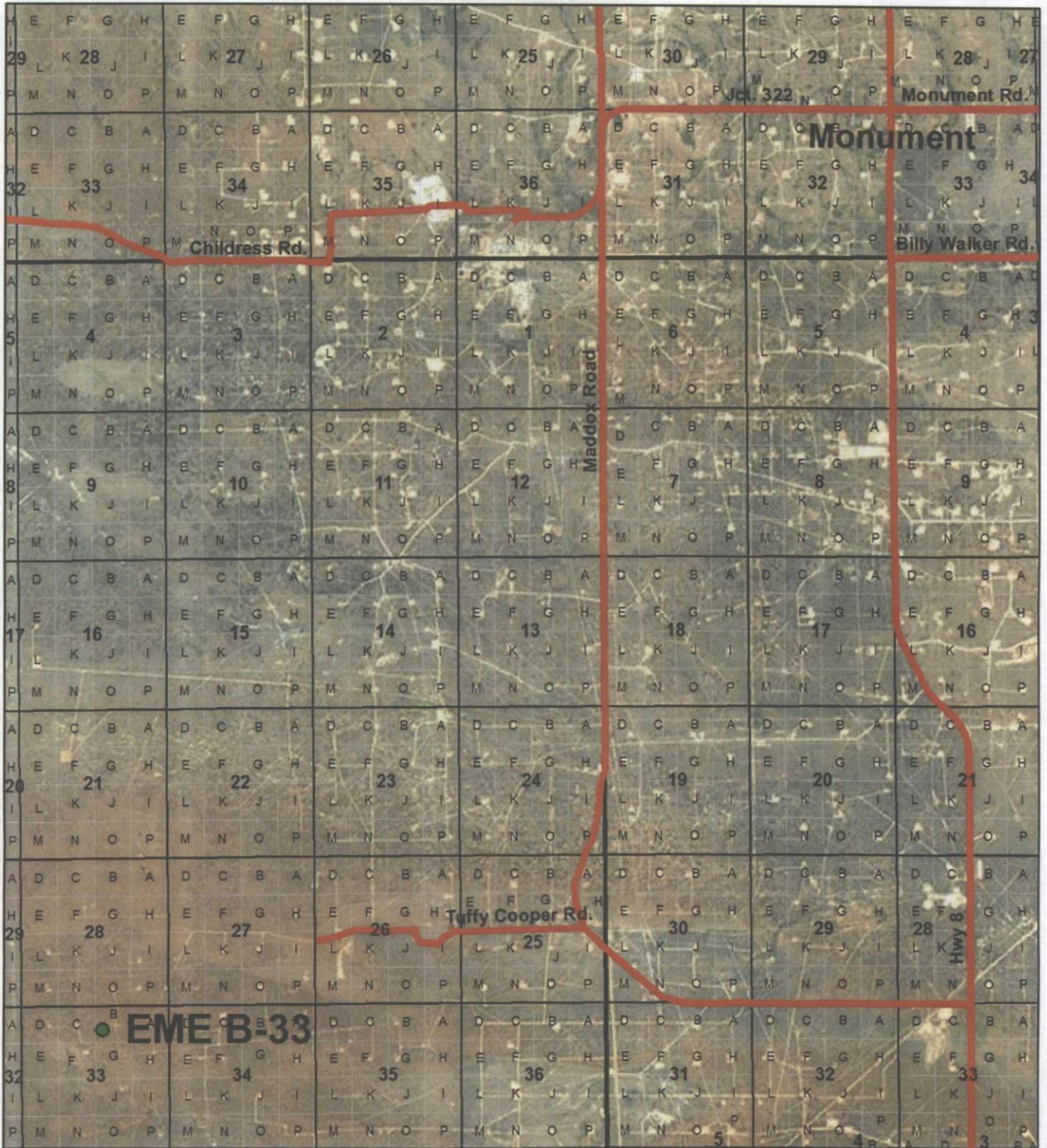
Attachments:

Figure 1 – Site Location Map
Appendix A – CAP Activities Documentation

Figures

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

Site Location



EME B-33

LEGALS: UL/B sec. 33
T-20-S R-36-E

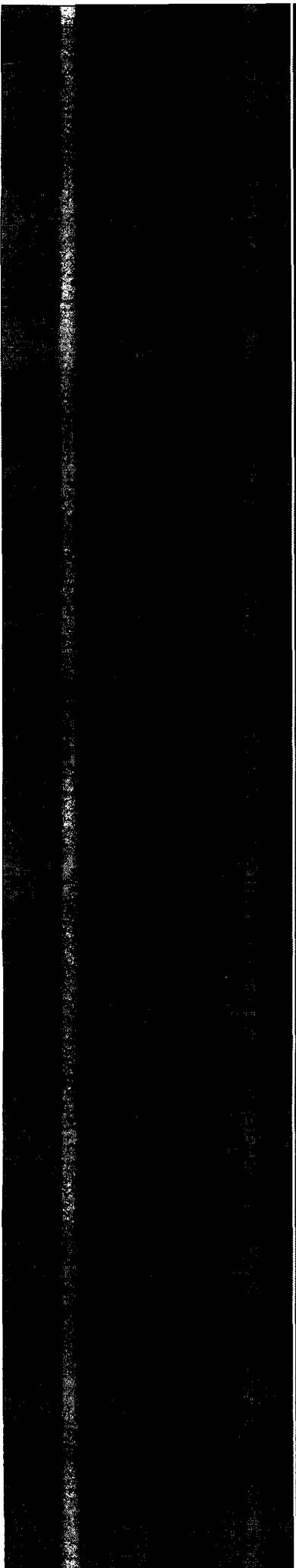
NMOCD Case #: 1R427-54

Figure 1



0 0.25 0.5 1
Miles

Drawing date: 11/18/11
Drafted by: L. Weinheimer



Appendix A

CAP Activities Documentation

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



112 West Taylor
 Hobbs, NM 88240
 Phone: (575) 393-9174
 Fax: (575) 393-0293

REVEGETATION FORM

1. General Information

Site name: EME B-33						
U/L B	Section 33	Township 20S	Range 36E	County LEA	Latitude 32° 32.062' N	Longitude 103° 21.506' W
Contact Name: Zack Conder						
Email: zconder@rice-ecs.com						
Site size: _____ square feet			Map detail of site attached <input type="checkbox"/>			
Additional information:						

2. Soils

**Do not rip caliche subsoils: caliche rocks brought to the surface by ripping shall be removed.*

Salvaged from site <input checked="" type="checkbox"/>	Bioremediated <input type="checkbox"/>	Imported <input type="checkbox"/>	Blended <input checked="" type="checkbox"/>	Depth (in)
Texture: Sandy	Describe soil & subsoil: Blow sand and subsoil caliche			
Soil prep methods: Rip <input type="checkbox"/>	Depth(in):	Disc <input type="checkbox"/>	Depth (in):	Rollerpack <input type="checkbox"/>
Date completed: 8-1-2003				

3. Bioremediation

Fertilizer <input type="checkbox"/>	Hay <input type="checkbox"/>	Other <input type="checkbox"/>
Type:	Describe:	
Lbs/acre:		

4. Seeding

**Attach seed bag tags to this form. Seed bag tags shall contain the site name and S-T-R.*

Custom seed mix <input checked="" type="checkbox"/>	Prescribed mix <input type="checkbox"/>	Seed mix name: Lea County mix, Blue Grama, Race Horse Oats	Seeding date: 4-20-2012
Broadcast <input checked="" type="checkbox"/>			
Method: Broadcast by mechanical seeder			
Soil conditions during seeding: Dry <input checked="" type="checkbox"/> Damp <input type="checkbox"/> Wet <input type="checkbox"/>			
Photos attached <input type="checkbox"/>	Observations: 1 lb. Lea County mix, 1 lb. Blue Grama, 1 lb. Race Horse Oats.		
Number of photos:			

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: Edward Garcia	Title: Environmental Tech	Date: 4-20-2012
Signature: <i>Edward Garcia</i>		

EME B-33

Unit Letter B, Section 33, T20S, R36E



Seeding and tilling site, facing south

4/20/2012



Watering seeded site, facing west

4/20/2012



Site complete, facing south

4/20/2012



Site complete, facing north

4/20/2012