

1R - 427 - 169

REPORTS

DATE:

12-6-04

EME N-18 Boot

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DISCLOSURE REPORT

**RICE OPERATING COMPANY
JUNCTION BOX DISCLOSURE* REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
EME	N-18 boot	N	18	20S	37E	Lea	Length	Width	Depth
							no box-eliminated		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Jimmy T. Cooper OTHER _____

Depth to Groundwater 35 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started _____ Date Completed 8/31/2004 OCD Witness No

Soil Excavated 178 cubic yards Excavation Length 20 Width 20 Depth 12 feet

Soil Disposed 0 cubic yards Offsite Facility n/a Location n/a

FINAL ANALYTICAL RESULTS: Sample Date 8/24/2004 Sample Depth 12 ft

Procure 5-point composite sample of bottom and 4-point composite sample of excavation sidewalls. TPH and chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

CHLORIDE FIELD TESTS

Sample Location	PID ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
4-WALL COMP.	0.0	<10.0	<10.0	147
BOTTOM COMP.	0.0	<10.0	<10.0	202
REMED. BACKFILL	0.0	<10.0	<10.0	85.1

LOCATION	DEPTH (ft)	ppm
vertical trench at junction	6	90
	7	120
	8	179
	9	480
	10	359
	11	269
10 ft EAST of junction	12	300
	6	750
	7	960
	8	1019
	9	1140
	10	1589
4-wall comp.	11	1409
	12	1169
	n/a	299
	12	269
bottom comp.		
remed. backfill	n/a	300

General Description of Remedial Action: This junction box contained a boot and was located directly south of an active production battery. The junction was eliminated and re-plumbed with a new poly pipeline. The box lumber was removed and the site was delineated using a backhoe while PID screenings and chloride field tests were conducted at regular intervals. Chloride concentrations increased with depth to 12 ft BGS. PID readings were generally minimal and lab results revealed TPH concentrations well below NMOCD guidelines. Chloride impact was concentrated in a small area mostly 5-10 ft east of the junction. The excavated soils from the 20 x 20 x 12-ft-deep excavation were blended on site and then backfilled up to 6 ft BGS. At 6 ft a 1-ft-thick compacted clay barrier was installed to inhibit further downward chloride migration. The remaining spoils were backfilled on top of the clay and contoured to the surrounding surface. The disturbed surface was seeded with a blend of native vegetation on 10/18/2004 and an identification plate was placed on the surface to mark the junction site for future environmental considerations and the clay barrier below. NMOCD has been notified of potential groundwater impact at this site.

ADDITIONAL EVALUATION IS HIGH PRIORITY

enclosures: chloride graph, photos, lab results, clay test, diagram

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

SITE SUPERVISOR Rob Elam SIGNATURE not available COMPANY Curt's Environmental - Odessa, TX

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE Kristin Farris Pope
DATE 12/6/2004 TITLE Project Scientist

*** This site is a "DISCLOSURE." It will be placed on a prioritized list of similar sites for further consideration.**

EME N-18 boot

unit 'N', sec. 18, T20S, R37E



undisturbed box & boot

12/31/2003



inside of junction box

7/28/2004



final 20 x 20 x 12-ft-deep excavation

7/24/2004



testing compacted clay at 6 ft BGS

8/31/2004



backfilled site (looking north)

8/31/2004



seeding disturbed area at backfilled site (looking north)

10/18/2004



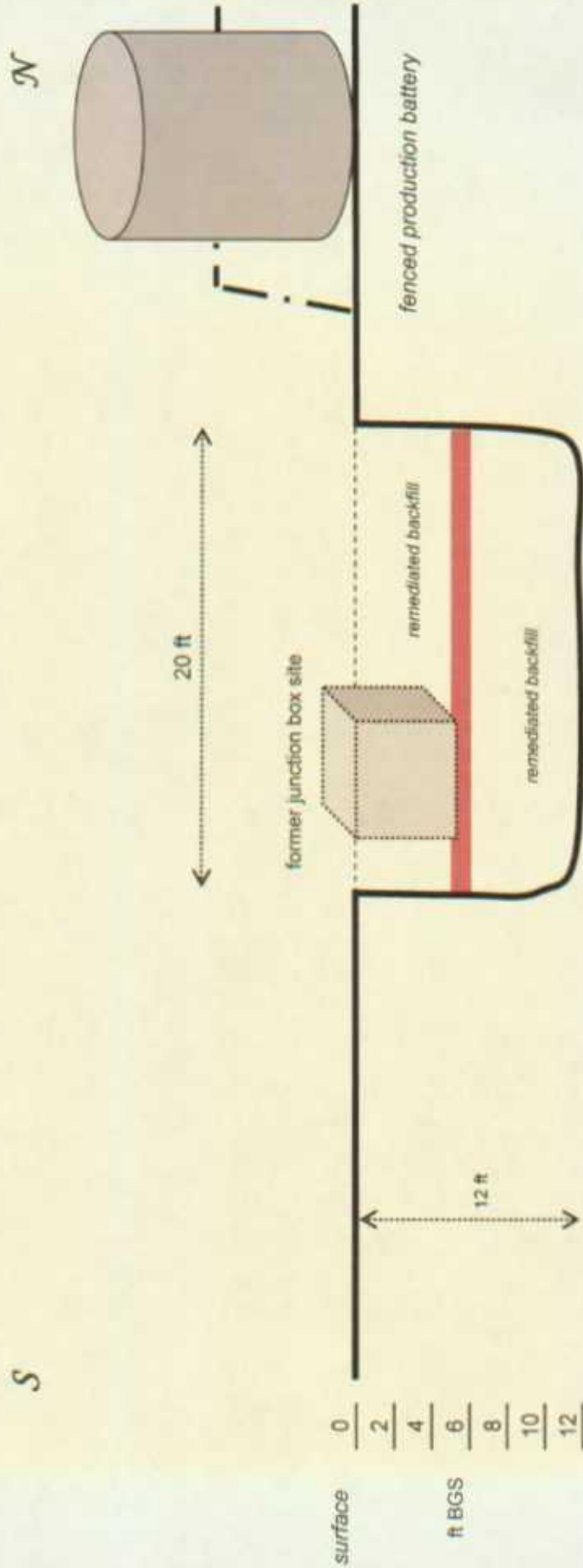
identification plate marking box location (looking north)

10/18/2004

EME N-18 boot

20 x 20 x 12 ft

Excavation Cross-Section



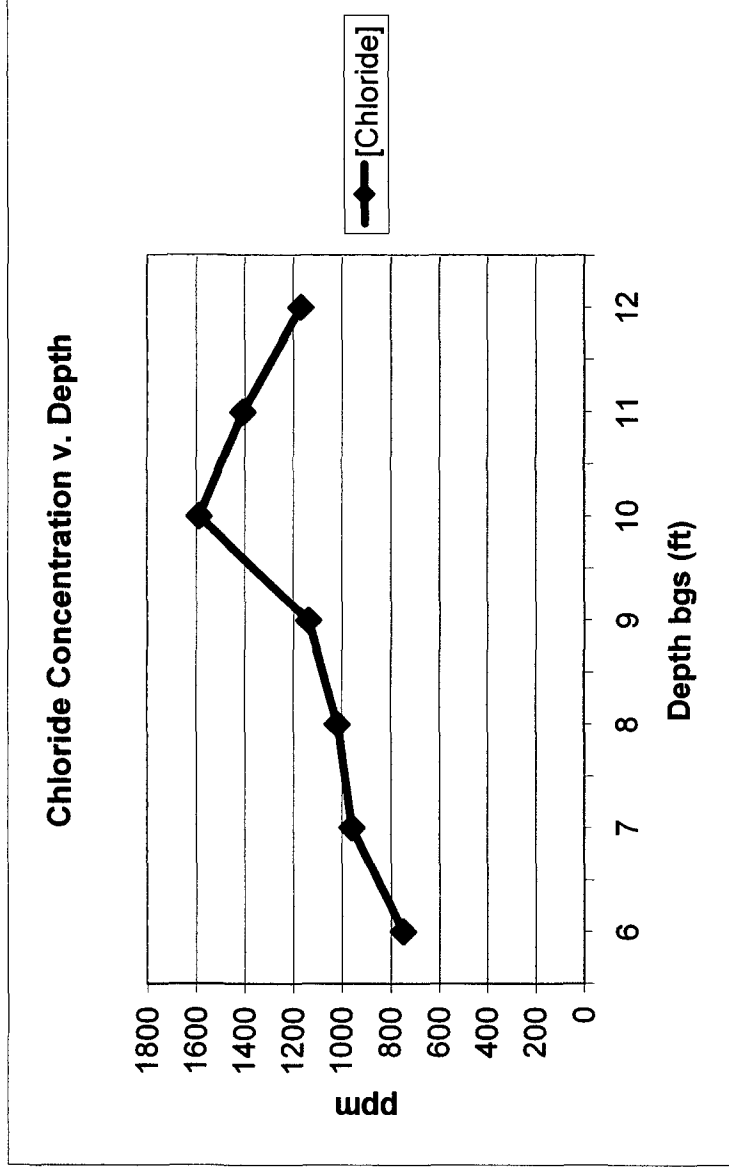
EME N-18 boot

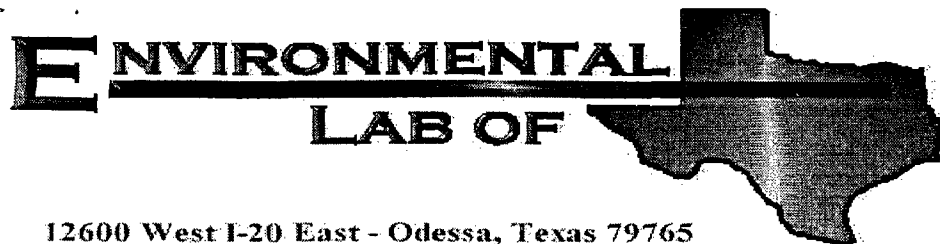
unit 'N', Sec. 18, T20S, R37E

10 ft east of junction box

Depth bgs (ft)	[Cl ⁻] ppm
6	750
7	960
8	1019
9	1140
10	1589
11	1409
12	1169

Groundwater = 35 ft





Analytical Report

Prepared for:

Roy Rascon
Rice Operating Co.
122 W. Taylor
Hobbs, NM 88240

Project: N-18 Boot
Project Number: None Given
Location: EME

Lab Order Number: 4H26002

Report Date: 09/01/04

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: N-18 Boot
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
09/01/04 08:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
12' Bottom Composite	4H26002-01	Soil	08/24/04 10:00	08/26/04 08:00
Wall Composite	4H26002-02	Soil	08/24/04 10:00	08/26/04 08:00
Backfill Composite	4H26002-03	Soil	08/24/04 10:00	08/26/04 08:00

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: N-18 Boot
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
09/01/04 08:26

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
12' Bottom Composite (4H26002-01) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH42629	08/26/04	08/26/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		99.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		75.2 %	70-130		"	"	"	"	
Wall Composite (4H26002-02) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH42629	08/26/04	08/26/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		89.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		72.6 %	70-130		"	"	"	"	
Backfill Composite (4H26002-03) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH42629	08/26/04	08/26/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		86.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		76.8 %	70-130		"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 2 of 7

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: N-18 Boot
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
09/01/04 08:26

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
12' Bottom Composite (4H26002-01) Soil									
Chloride	202	20.0	mg/kg Wet	2	EH43110	08/26/04	08/31/04	SW 846 9253	
% Solids	80.0		%	1	EH42703	08/26/04	08/26/04	% calculation	
Wall Composite (4H26002-02) Soil									
Chloride	147	20.0	mg/kg Wet	2	EH43110	08/26/04	08/31/04	SW 846 9253	
% Solids	83.0		%	1	EH42703	08/26/04	08/26/04	% calculation	
Backfill Composite (4H26002-03) Soil									
Chloride	85.1	20.0	mg/kg Wet	2	EH43110	08/26/04	08/31/04	SW 846 9253	
% Solids	73.0		%	1	EH42703	08/26/04	08/26/04	% calculation	

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: N-18 Boot
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
09/01/04 08:26

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EH42629 - Solvent Extraction (GC)

Blank (EH42629-BLK1)

Prepared & Analyzed: 08/26/04

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	38.2		mg/kg	50.0		76.4	70-130			
Surrogate: 1-Chlorooctadecane	35.4		"	50.0		70.8	70-130			

Blank (EH42629-BLK2)

Prepared: 08/26/04 Analyzed: 08/27/04

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	36.5		mg/kg	50.0		73.0	70-130			
Surrogate: 1-Chlorooctadecane	35.2		"	50.0		70.4	70-130			

LCS (EH42629-BS1)

Prepared & Analyzed: 08/26/04

Gasoline Range Organics C6-C12	455	10.0	mg/kg wet	500		91.0	75-125			
Diesel Range Organics >C12-C35	511	10.0	"	500		102	75-125			
Total Hydrocarbon C6-C35	966	10.0	"	1000		96.6	75-125			
Surrogate: 1-Chlorooctane	55.8		mg/kg	50.0		112	70-130			
Surrogate: 1-Chlorooctadecane	45.7		"	50.0		91.4	70-130			

LCS (EH42629-BS2)

Prepared: 08/26/04 Analyzed: 08/27/04

Gasoline Range Organics C6-C12	481	10.0	mg/kg wet	500		96.2	75-125			
Diesel Range Organics >C12-C35	523	10.0	"	500		105	75-125			
Total Hydrocarbon C6-C35	1000	10.0	"	1000		100	75-125			
Surrogate: 1-Chlorooctane	55.4		mg/kg	50.0		111	70-130			
Surrogate: 1-Chlorooctadecane	39.3		"	50.0		78.6	70-130			

Calibration Check (EH42629-CCV1)

Prepared & Analyzed: 08/26/04

Gasoline Range Organics C6-C12	535		mg/kg	500		107	80-120			
Diesel Range Organics >C12-C35	529		"	500		106	80-120			
Total Hydrocarbon C6-C35	1060		"	1000		106	80-120			
Surrogate: 1-Chlorooctane	57.6		"	50.0		115	70-130			
Surrogate: 1-Chlorooctadecane	46.6		"	50.0		93.2	70-130			

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: N-18 Boot
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
09/01/04 08:26

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EH42629 - Solvent Extraction (GC)

Calibration Check (EH42629-CCV2)

Prepared: 08/26/04 Analyzed: 08/27/04

Gasoline Range Organics C6-C12	501		mg/kg	500		100	80-120			
Diesel Range Organics >C12-C35	513		"	500		103	80-120			
Total Hydrocarbon C6-C35	1010		"	1000		101	80-120			
Surrogate: 1-Chlorooctane	60.8		"	50.0		122	70-130			
Surrogate: 1-Chlorooctadecane	45.3		"	50.0		90.6	70-130			

Matrix Spike (EH42629-MS1)

Source: 4H26001-01

Prepared & Analyzed: 08/26/04

Gasoline Range Organics C6-C12	621	10.0	mg/kg dry	538	ND	115	75-125			
Diesel Range Organics >C12-C35	612	10.0	"	538	ND	114	75-125			
Total Hydrocarbon C6-C35	1230	10.0	"	1080	ND	114	75-125			
Surrogate: 1-Chlorooctane	64.7		mg/kg	50.0		129	70-130			
Surrogate: 1-Chlorooctadecane	47.3		"	50.0		94.6	70-130			

Matrix Spike (EH42629-MS2)

Source: 4H26004-04

Prepared: 08/26/04 Analyzed: 08/27/04

Gasoline Range Organics C6-C12	600	10.0	mg/kg dry	543	10.6	109	75-125			
Diesel Range Organics >C12-C35	800	10.0	"	543	222	106	75-125			
Total Hydrocarbon C6-C35	1400	10.0	"	1090	233	107	75-125			
Surrogate: 1-Chlorooctane	56.5		mg/kg	50.0		113	70-130			
Surrogate: 1-Chlorooctadecane	42.6		"	50.0		85.2	70-130			

Matrix Spike Dup (EH42629-MSD1)

Source: 4H26001-01

Prepared & Analyzed: 08/26/04

Gasoline Range Organics C6-C12	575	10.0	mg/kg dry	538	ND	107	75-125	7.69	20	
Diesel Range Organics >C12-C35	601	10.0	"	538	ND	112	75-125	1.81	20	
Total Hydrocarbon C6-C35	1180	10.0	"	1080	ND	109	75-125	4.15	20	
Surrogate: 1-Chlorooctane	58.1		mg/kg	50.0		116	70-130			
Surrogate: 1-Chlorooctadecane	45.0		"	50.0		90.0	70-130			

Matrix Spike Dup (EH42629-MSD2)

Source: 4H26004-04

Prepared: 08/26/04 Analyzed: 08/27/04

Gasoline Range Organics C6-C12	612	10.0	mg/kg dry	543	10.6	111	75-125	1.98	20	
Diesel Range Organics >C12-C35	776	10.0	"	543	222	102	75-125	3.05	20	
Total Hydrocarbon C6-C35	1390	10.0	"	1090	233	106	75-125	0.717	20	
Surrogate: 1-Chlorooctane	59.9		mg/kg	50.0		120	70-130			
Surrogate: 1-Chlorooctadecane	41.0		"	50.0		82.0	70-130			

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: N-18 Boot
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
09/01/04 08:26

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EH42703 - General Preparation (Prep)

Blank (EH42703-BLK1) Prepared & Analyzed: 08/26/04

% Solids 100 %

Duplicate (EH42703-DUP1) Source: 4H26001-01 Prepared & Analyzed: 08/26/04

% Solids 94.0 % 93.0 1.07 20

Batch EH43110 - Water Extraction

Blank (EH43110-BLK1) Prepared: 08/26/04 Analyzed: 08/31/04

Chloride ND 20.0 mg/kg Wet

Matrix Spike (EH43110-MS1) Source: 4H26001-01 Prepared: 08/26/04 Analyzed: 08/31/04

Chloride 915 20.0 mg/kg Wet 500 425 98.0 80-120

Matrix Spike Dup (EH43110-MSD1) Source: 4H26001-01 Prepared: 08/26/04 Analyzed: 08/31/04

Chloride 925 20.0 mg/kg Wet 500 425 100 80-120 1.09 20

Reference (EH43110-SRM1) Prepared & Analyzed: 08/31/04

Chloride 5050 mg/kg 5000 101 80-120

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: N-18 Boot
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
09/01/04 08:26

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:

Raland K Tuttle

Date:

9-02-04

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Biezugbe, Lab Tech.

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If you have received this material in error, please notify us immediately at 432-563-1800.

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST


Project Manager: Ray Rascoe

Company Name RICE Operating

Company Address: 122 W. Taylor

City/State/Zip: Hobbs, NM 88240

Telephone No: (505) 393-9174

Sampler Signature: 

Project Name: N-18 Boat

Project #: _____

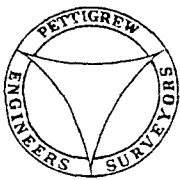
Project Loc: **EMC**

PO #:

Fax No: (505) 397-1471

Sampler Signature: *Abd Elazim*

[illegible]



LABORATORY TEST REPORT
PETTIGREW & ASSOCIATES, P.A.
1110 N. GRIMES
HOBBS, NM 88240
(505) 393-9827



DEBRA P. HICKS, P.E./L.S.I.
WILLIAM M. HICKS, III, P.E./P.S.

To: Rice Operating
Attn: Carolyn Haynes
122 W. Taylor
Hobbs, NM 88240

Material: Red Clay

Test Method: ASTM: D 2922

Project: EME N-18 Boot

Date of Test: August 31, 2004

Depth: Finished Subgrade

Test No.	Location	Dry Density % Maximum	% Moisture	Depth
SG-1	Pit - 10' W. & 10' N. of the SE Corner	101.5	15.2	

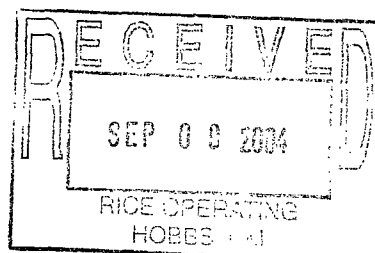
Control Density: 106.2
ASTM: D 698

Optimum Moisture: 17.3

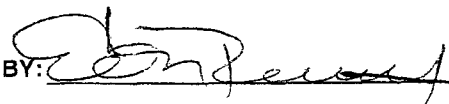
Required Compaction: 95%

Lab No.: 04 10102-10103

Copies To: Rice



PETTIGREW & ASSOCIATES

BY:  S.E.T.