

1R - 427 - 164

REPORTS

DATE:

10 - 4 - 04

1R0427-164

DISCLOSURE REPORT

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

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
EME	B-7	B	7	20S	37E	Lea	Length	Width	Depth
							12	7	6

LAND TYPE: BLM STATE FEE LANDOWNER Jimmy Cooper OTHER

Depth to Groundwater 34 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 3/23/2004 Date Completed 7/15/2004 OCD Witness No

Soil Excavated 194 cubic yards Excavation Length 25 Width 35 Depth 6 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 3/26/2004, 7/15/2004 Sample Depth 6, 29 ft

Procure 5-point composite sample of bottom and 4-point composite sample of 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	77.6	1540
BOTTOM COMP.	0.0	<10.0	133	1200
REMED. BACKFILL	0.0	<10.0	132	1380
SOIL BORE @ 29 ft	0.8	<10.0	<10.0	659

LOCATION	DEPTH (ft)	ppm
20 ft north	5	2687
	6	2022
	7	1736
	8	989
	11	1865
	12	2535
	13	2399
	14	2811
soil bore 5 ft north	15	205
	20	211
	25	755
	29	694
4-wall comp.	1-5	1163
bottom comp.	6	1005
remed. backfill	n/a	1205

General Description of Remedial Action: This junction box was delineated

using a backhoe while PID screenings and chloride field tests were performed at regular intervals. In some areas, samples from delineation trenches were collected at a maximum depth of 14 ft BGS (see plat). Although PID readings were minimal, chloride concentrations were elevated and did not decline vertically or laterally. TPH concentrations in the bottom composite and backfill composite samples were just above NMOCD guidelines. At 6 ft, a 25 x 35 x 1-ft-deep compacted clay barrier was installed to inhibit further downward chloride migration (see diagram). On 7/15/2004, a soil bore was initiated to further investigate the depth of chloride impact. No conclusive chloride trend was observed.

The bore hole was plugged with bentonite clay (see log). NMOCD has been notified of

potential groundwater impact at this site. An identification plate has been placed on the surface of this site for reference in future considerations.

ADDITIONAL EVALUATION IS HIGH PRIORITY

enclosures: chloride graphs, photos, lab results, PID readings, clay test, bore log, plat map, cross-section

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

SITE SUPERVISOR Joe Gatts SIGNATURE *Joe Gatts* COMPANY RICE Operating Company

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE *Kristin Farris Pope*

DATE 10/4/2004 TITLE Project Scientist

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

EME jct. B-7

unit 'B', Sec. 7, T20S, R37E



removing old junction box

7/25/2003



new junction plumbing



delineation and excavation at junction

March 2004



testing compacted clay at 6 ft BGS 4/21/2004



delineation soil bore 7/15/2004



identification plate near new watertight junction box



completed site

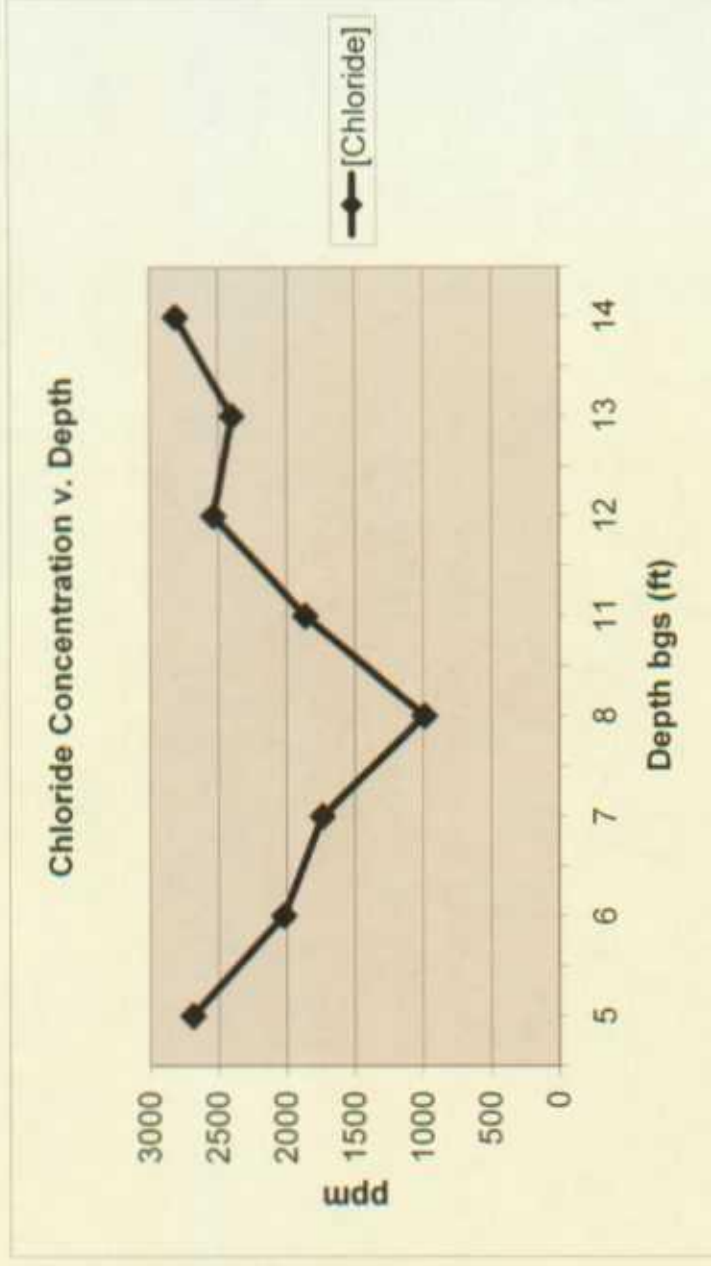
EME jct. B-7

TS20, R37E

20 ft south of junction

Depth bgs (ft)	[Cl ⁻] ppm
5	2687
6	2022
7	1736
8	989
11	1865
12	2535
13	2399
14	2811

Groundwater = 34 ft



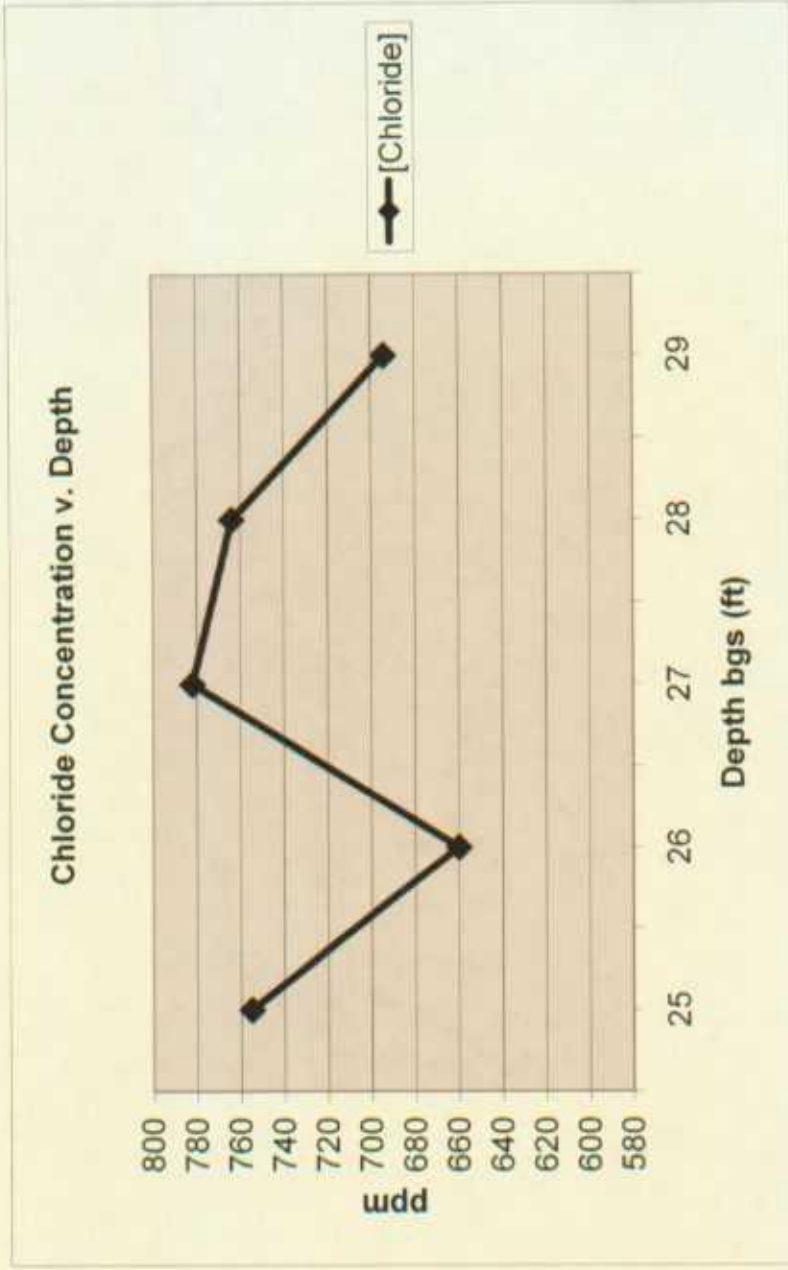
EME jct. B-7

TS20, R37E

Soil bore 5 ft North of junction

Depth bgs (ft)	[Cl ⁻] ppm
25	755
26	660
27	782
28	764
29	694

Groundwater = 34 ft



LOG OF SOIL BORE
Krisin Farms Pipe
RICE Operating Company

Logger: Drew Parker, Mort Bates		Client: RICE Operating Company		Well ID: SB-1		
Driller: Atkins Engineering Associates, Inc.		Project Name: jct. B-7				
Drilling Method: Hollow Stem Auger		Location: EME SWD System				
Start Date: 7/15/2004		Sec. 7, T20S, R37E				
End Date: 7/15/2004		Lea County, NM				
Notes: 5 ft north of junction box site TD = 34 ft Groundwater = 33.8 ft						
Depth (feet)	Split Spoon chloride	PID	Description	Lithology	bore hole	Additional Notes
0.0						
1.0						
2.0						
3.0						
4.0						
5.0						
6.0						
7.0			0 - 15 ft SILTY SAND with CALICHE loose, tan & white, dry			
8.0						
9.0						
10.0						
11.0						
12.0						
13.0						
14.0						
15.0	205	10.8				
16.0						
17.0						
18.0						
19.0						
20.0	211	5.6	15 - 27 ft SILTY GRAVEL with CALICHE loose, white-gray, dry			
21.0						
22.0						
23.0						
24.0						
25.0	755	0.8				
26.0	690	1.2				
27.0	782	1.3				
28.0	764	4.2				
29.0	694	0.8	27 - 34 ft CLAYEY SAND with CALICHE tan to brown, moist			lab = 699 ppm Cr
30.0						
31.0						
32.0						← bentonite clay seal
33.0						
34.0						

remainder of bore hole backfilled with drill cuttings

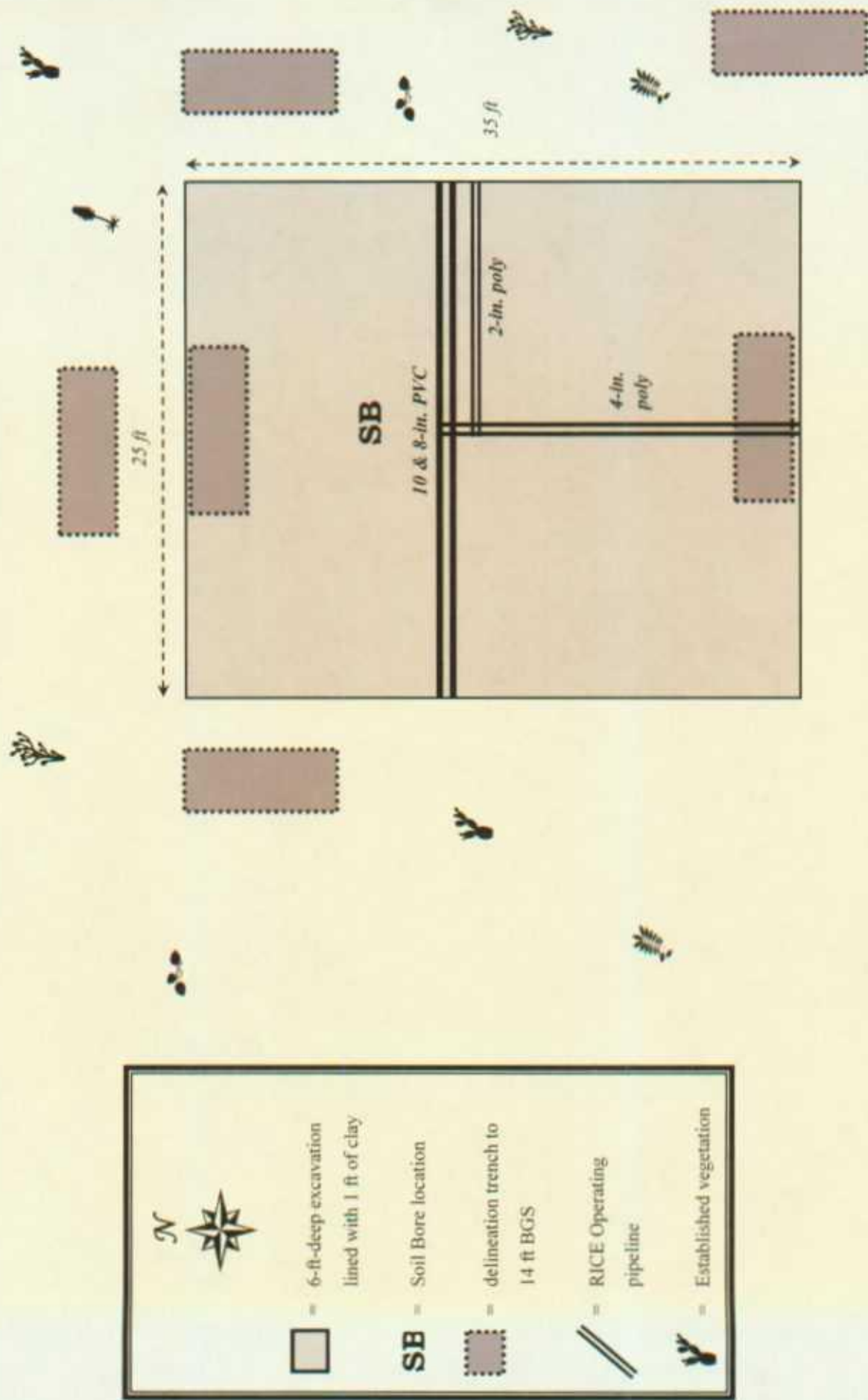
lab = 699 ppm Cl

← bentonite clay seal

EME jct. B-7

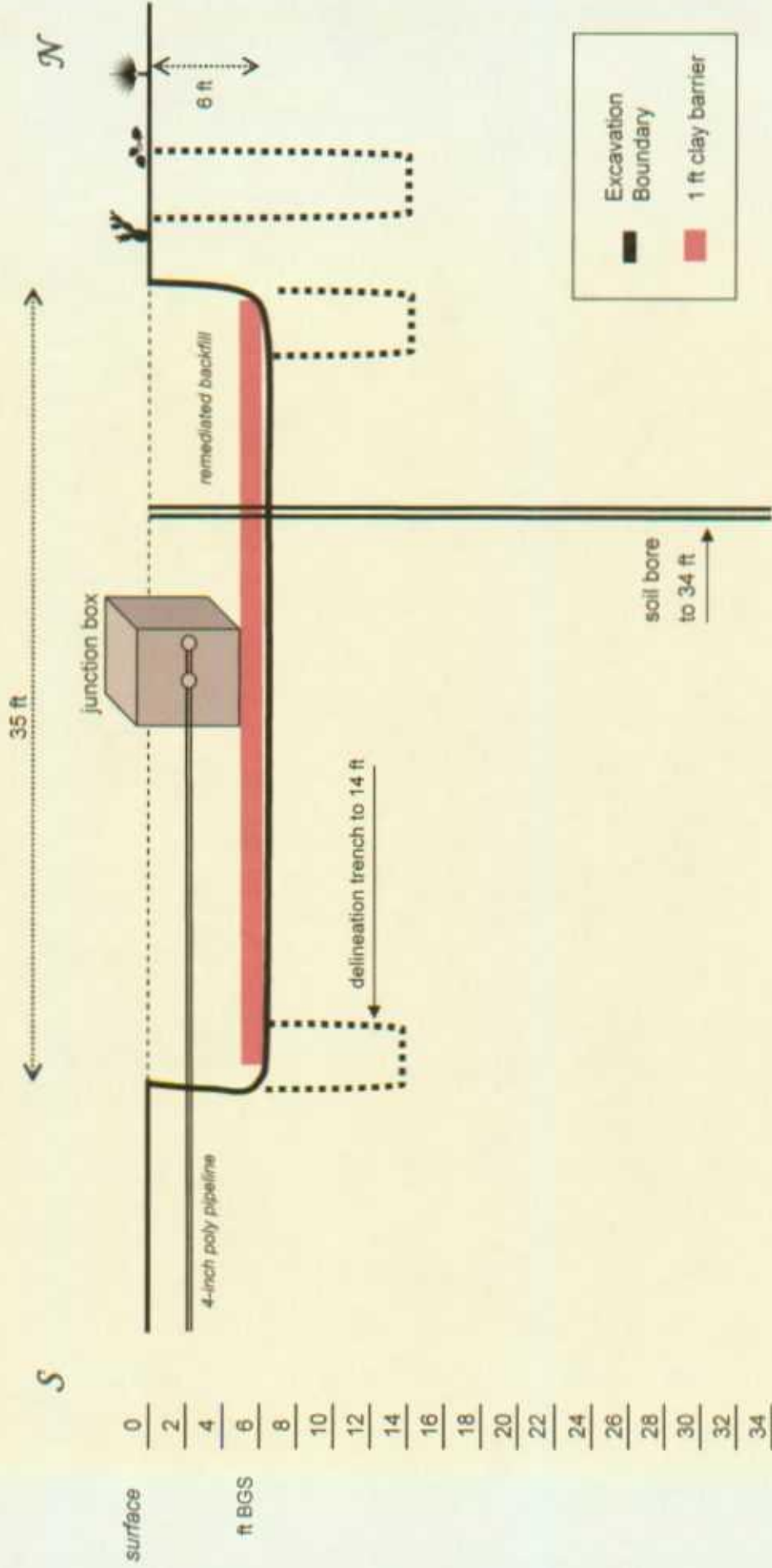
25 x 35 x 6 ft Excavation

T202S, R37E



EME jct. B-7 **25 x 35 x 6 ft** **Excavation Cross-Section**

Delineation trenches were extended down to 12-14 ft BGS;
 not included in the 6 ft bottom composite sample.





ARDINAL LABORATORIES

PHONE (325) 873-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: KRISTIN FARRIS
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 03/26/04
Reporting Date: 03/29/04
Project Number: NOT GIVEN
Project Name: JCT. B-7
Project Location: EME

Sampling Date: 03/26/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	Cl* (mg/Kg)
		03/26/04	03/26/04	03/29/04
H8568-1	4 WALL COMP.	<10.0	77.6	1540
H8568-2	BOTT. COMP. 6'BGS	<10.0	133	1200
H8568-3	REMD. BACKFILL	<10.0	132	1380
	Quality Control	843	835	1010
	True Value QC	800	800	1000
	% Recovery	105	104	101
	Relative Percent Difference	1.1	5.6	3.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl: Std. Methods 4500-ClB

*Analyses performed on 1:4 w:v aqueous extracts.

Chemist

Date

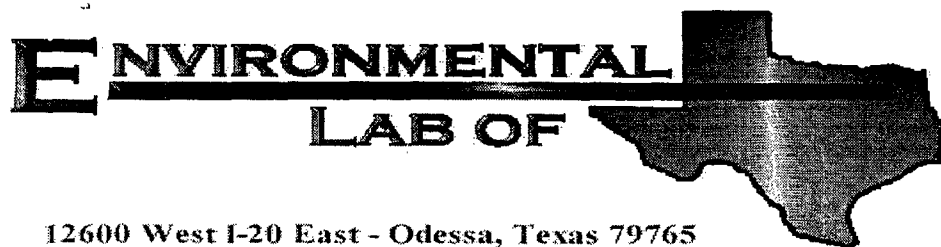
H8568.XLS

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2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240

Page of

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12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

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

Project: B-7 Soil Bore
Project Number: None Given
Location: EME

Lab Order Number: 4G20007

Report Date: 07/23/04

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

Project: B-7 Soil Bore
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported: .
07/23/04 10:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
5' North Grab @ 29' Bgs	4G20007-01	Soil	07/15/04 16:30	07/20/04 08:00

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

Project: B-7 Soil Bore
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/23/04 10:17

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
5' North Grab @ 29' Bgs (4G20007-01) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG42013	07/20/04	07/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		99.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		73.0 %	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 6

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

Project: B-7 Soil Bore
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/23/04 10:17

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
5' North Grab @ 29' Bgs (4G20007-01) Soil									
Chloride	659	20.0	mg/kg Wet	2	EG42111	07/20/04	07/21/04	SW 846 9253	
% Solids	86.0		%	1	EG42011	07/20/04	07/20/04	% calculation	

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

Project: B-7 Soil Bore
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/23/04 10:17

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 EG42013 - Solvent Extraction (GC)

Blank (EG42013-BLK1)

Prepared: 07/20/04 Analyzed: 07/22/04

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	47.1		mg/kg	50.0		94.2	70-130			
Surrogate: 1-Chlorooctadecane	37.9		"	50.0		75.8	70-130			

LCS (EG42013-BS1)

Prepared: 07/20/04 Analyzed: 07/22/04

Gasoline Range Organics C6-C12	470	10.0	mg/kg wet	500		94.0	75-125			
Diesel Range Organics >C12-C35	488	10.0	"	500		97.6	75-125			
Total Hydrocarbon C6-C35	958	10.0	"	1000		95.8	75-125			
Surrogate: 1-Chlorooctane	39.6		mg/kg	50.0		79.2	70-130			
Surrogate: 1-Chlorooctadecane	40.6		"	50.0		81.2	70-130			

Calibration Check (EG42013-CCV1)

Prepared: 07/20/04 Analyzed: 07/22/04

Gasoline Range Organics C6-C12	420		mg/kg	500		84.0	80-120			
Diesel Range Organics >C12-C35	474		"	500		94.8	80-120			
Total Hydrocarbon C6-C35	894		"	1000		89.4	80-120			
Surrogate: 1-Chlorooctane	57.2		"	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	42.3		"	50.0		84.6	70-130			

Matrix Spike (EG42013-MS1)

Source: 4G20004-01

Prepared: 07/20/04 Analyzed: 07/22/04

Gasoline Range Organics C6-C12	481	10.0	mg/kg dry	549	ND	87.6	75-125			
Diesel Range Organics >C12-C35	514	10.0	"	549	ND	93.6	75-125			
Total Hydrocarbon C6-C35	995	10.0	"	1100	ND	90.5	75-125			
Surrogate: 1-Chlorooctane	51.6		mg/kg	50.0		103	70-130			
Surrogate: 1-Chlorooctadecane	41.9		"	50.0		83.8	70-130			

Matrix Spike Dup (EG42013-MSD1)

Source: 4G20004-01

Prepared: 07/20/04 Analyzed: 07/22/04

Gasoline Range Organics C6-C12	471	10.0	mg/kg dry	549	ND	85.8	75-125	2.10	20	
Diesel Range Organics >C12-C35	492	10.0	"	549	ND	89.6	75-125	4.37	20	
Total Hydrocarbon C6-C35	963	10.0	"	1100	ND	87.5	75-125	3.27	20	
Surrogate: 1-Chlorooctane	53.5		mg/kg	50.0		107	70-130			
Surrogate: 1-Chlorooctadecane	39.0		"	50.0		78.0	70-130			

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

Project: B-7 Soil Bore
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/23/04 10:17

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 EG42011 - General Preparation (Prep)

Blank (EG42011-BLK1) Prepared & Analyzed: 07/20/04

% Solids 100 %

Duplicate (EG42011-DUP1) Source: 4G16012-01 Prepared & Analyzed: 07/20/04

% Solids 99.0 % 98.0 1.02 20

Batch EG42111 - Water Extraction

Blank (EG42111-BLK1) Prepared: 07/20/04 Analyzed: 07/21/04

Chloride ND 20.0 mg/kg Wet

Matrix Spike (EG42111-MS1) Source: 4G20003-01 Prepared: 07/20/04 Analyzed: 07/21/04

Chloride 2200 20.0 mg/kg Wet 500 1720 96.0 80-120

Matrix Spike Dup (EG42111-MSD1) Source: 4G20003-01 Prepared: 07/20/04 Analyzed: 07/21/04

Chloride 2210 20.0 mg/kg Wet 500 1720 98.0 80-120 0.454 20

Reference (EG42111-SRM1) Prepared: 07/20/04 Analyzed: 07/21/04

Chloride 5000 mg/kg 5000 100 80-120

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

Project: B-7 Soil Bore
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/23/04 10:17

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:

7-23-04

Raland K. Tuttle, QA Officer

Celey D. Keene, Lab Director, Org. Tech Director

Jeanne Mc Murrey, Inorg. Tech Director

James L. Hawkins, Chemist/Geologist

Sara Molina, Chemist

Sandra Biezugbe, Lab Tech.

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Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763

Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: B-7 Soil Bore

Project #: _____

Project Loc: EME

PO #: 785

Telephone No: (505) 393-9174 Fax No: (505) 397-1471

Fax No: _____

Sampler Signature: David Lee

[illegible]

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Rice Operating Co.

Date/Time: 07-20-04 @ 0845

Order #: 4G20007

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	3.0	C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Custody Seals intact on shipping container/cooler?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not present	
Custody Seals intact on sample bottles?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not present	
Chain of custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable	

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____
Regarding: _____

Corrective Action Taken:

RICE OPERATING COMPANY

122 WEST TAYLOR

HOBBS, NEW MEXICO 88240

PHONE: (505) 393-9174 FAX: (505) 397-1471

VOC FIELD TEST REPORT FORM

MINI RAE PLUS CLASSIC PHOTOIONIZATION GAS DETECTOR

MODEL NO: PGM 761S

SERIAL NO: 104412

CALIBRATION GAS

GAS COMPOSITION: ISOBUTYLENE

100 PPM

AIR

BALANCE

LOT NO: 02-22-30

FILL DATE: 5/20/03

EXP. DATE: 11/20/04

ACCURACY: + or - 2%

METER READING

ACCURACY: 99.8

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EWIE	B-7	B	7	20	37

SAMPLE	PID RESULT	SAMPLE	PID RESULT
15' SE 1' 1/2	0	15' SE 14' 1/2	0
15' SE 2' 1/2	0	WALL Comp	0
15' SE 3' 1/2	0	Bot. Comp	0
15' SE 4' 1/2	0	Revol Comp	0
15' SE 5' 1/2	0	N' WALL	0
15' SE 6' 1/2	0	S' WALL	0
15' SE 7' 1/2	0	E WALL	0
15' SE 8' 1/2	0	W' WALL	0
15' SE 9' 1/2	0		
15' SE 10' 1/2	0		
15' SE 11' 1/2	0		
15' SE 12' 1/2	0		
15' SE 13' 1/2	0		

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

Joe Galt
Signature

3/26/04
Date



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 B-7 JCT Box

Date of Test: April 21, 2004

Depth: 1' Below Finished Subgrade

Test No.	Location	Dry Density % Maximum	% Moisture	Depth
SG-1	15' S. & 10' W. of NE Corner of Pit	103.3	20.5	

Control Density: 109.6
ASTM: D 698

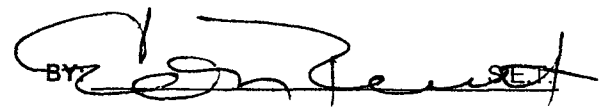
Optimum Moisture: 16.8%

Required Compaction: 95%

Lab No.: 04 5669-5670

Copies To: Rice

PETTIGREW & ASSOCIATES

BY  **W. M. HICKS, III**

