

1R - 427 - 202

REPORTS

DATE:

10-18-04

EME K-9-1 Boot

1R0427-202

FINAL REPORT

RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
EME	K-9-1 boot	K	9	20S	37E	Lea	Length	Width	Depth
							moved 15 ft East		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER S & W Cattle Co. OTHER _____

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

Date Started 7/14/2004 Date Completed 7/19/2004 OCD Witness No

Soil Excavated 36 cubic yards Excavation Length 3 trenches Width 3 trenches Depth 12 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 7/15/2004 Sample Depth 12 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	<10.0	191
BOTTOM COMP.	0.0	<10.0	38.9	213
REMED. BACKFILL	0.0	<10.0	<10.0	160

LOCATION	DEPTH (ft)	ppm
vertical at junction	6	149
	7	300
	8	269
	9	239
	10	239
	11	180
5 ft East of junction	12	149
	6	89
	7	120
	8	149
	9	239
	10	119
4-wall comp.	11	150
	12	209
	4-wall comp.	n/a 120
	bottom comp.	12 240
remed. backfill	n/a	119

General Description of Remedial Action: This junction box was located next to a production facility and it contained a boot. The box was excavated using a backhoe while chloride field tests and PID field screenings were conducted at regular intervals. To 12 ft BGS, chloride concentrations were similar to background levels, indicative of non-saturated vadose conditions. All PID concentrations were minimal throughout the 3 delineation trenches and lab results confirmed TPH concentrations well below NMOCD guidelines. The excavated soils were blended on site and then backfilled into the hole. The disturbed surface was seeded with a blend of native vegetation and is expected to return to productive capacity at a normal rate.

enclosures: chloride graph, photos, lab results, PID screenings, 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 10/18/2004 TITLE Project Scientist

EME K-9-1 Boot

Unit 'K', Sec. 9, T20S, R37E



undisturbed junction box

7/29/2003



former junction site; box removed; poly pipeline straight through
6/6/2004



new poly junction 15 ft east of former junction 6/6/2004



floor of new junction box

7/28/2004



completed junction box

8/2/2004

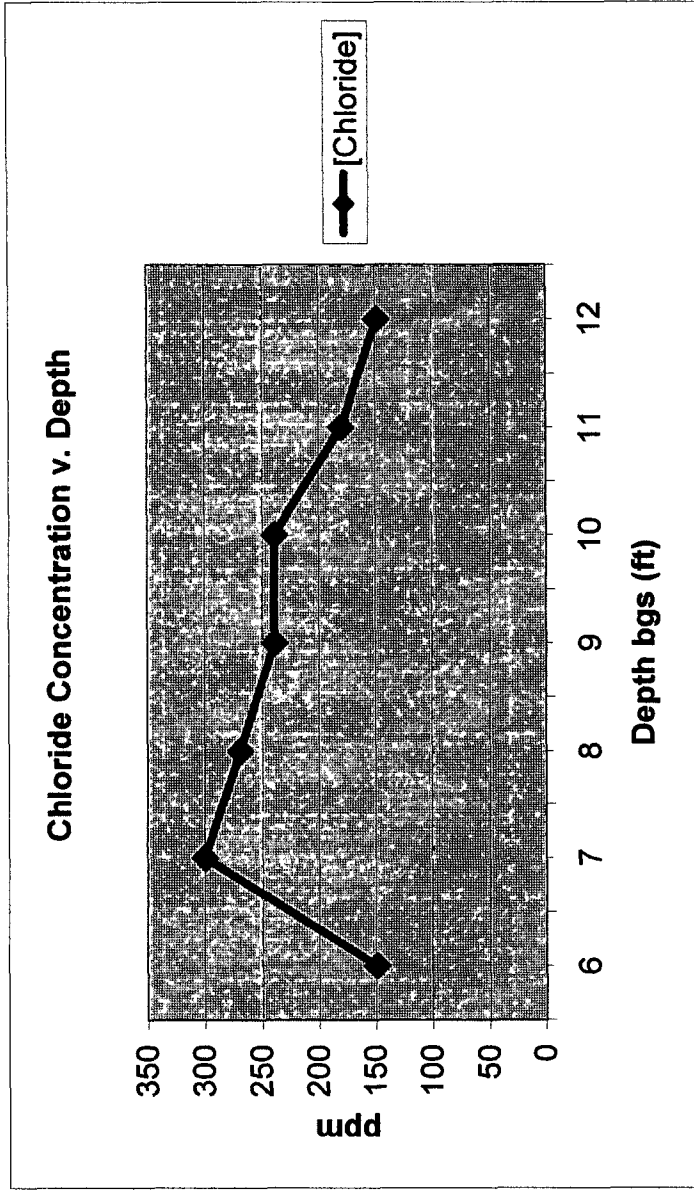
EME K-9-1 boot

T20S, R37E

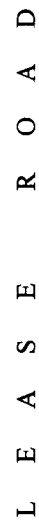
Vertical Delineation at Source

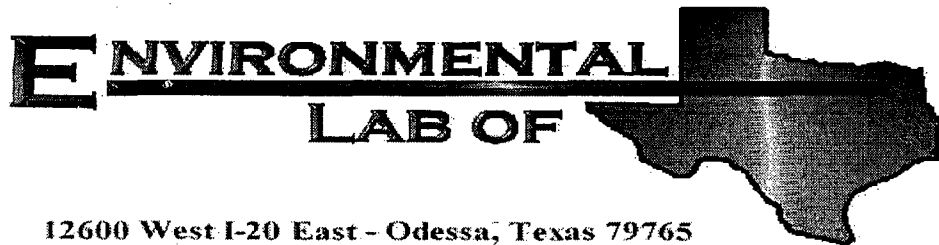
Depth bgs (ft)	[Cl] ppm
6	149
7	300
8	269
9	239
10	239
11	180
12	149

Groundwater = 20 ft



Excavation Plan-View





12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

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

Project: K-9-1 Boot
Project Number: None Given
Location: EME

Lab Order Number: 4G16017

Report Date: 07/22/04

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

Project: K-9-1 Boot
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/22/04 10:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
12' Bottom Composite	4G16017-01	Soil	07/15/04 10:40	07/16/04 16:20
Wall Composite	4G16017-02	Soil	07/15/04 10:40	07/16/04 16:20
Backfill Composite	4G16017-03	Soil	07/15/04 11:30	07/16/04 16:20

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

Project: K-9-1 Boot
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/22/04 17:50

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
12' Bottom Composite (4G16017-01) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG41910	07/20/04	07/20/04	EPA 8015M	
Diesel Range Organics >C12-C35	38.9	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	38.9	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		77.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		71.0 %	70-130		"	"	"	"	
Wall Composite (4G16017-02) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG41910	07/20/04	07/20/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		85.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		74.6 %	70-130		"	"	"	"	
Backfill Composite (4G16017-03) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG41910	07/20/04	07/20/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		87.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		74.8 %	70-130		"	"	"	"	

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

Project: K-9-1 Boot
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/22/04 10:58

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 (4G16017-01) Soil									
Chloride	213	20.0	mg/kg Wet	2	EG42015	07/19/04	07/20/04	SW 846 9253	
% Solids	97.0		%	1	EG42001	07/19/04	07/19/04	% calculation	
Wall Composite (4G16017-02) Soil									
% Solids	97.0		%	1	EG42001	07/19/04	07/19/04	% calculation	
Backfill Composite (4G16017-03) Soil									
% Solids	98.0		%	1	EG42001	07/19/04	07/19/04	% calculation	

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

Project: K-9-1 Boot
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/22/04 10:58

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 EG41910 - Solvent Extraction (GC)

Blank (EG41910-BLK1)

Prepared & Analyzed: 07/20/04

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	45.7		mg/kg	50.0		91.4	70-130			
Surrogate: 1-Chlorooctadecane	41.1		"	50.0		82.2	70-130			

Blank (EG41910-BLK2)

Prepared: 07/20/04 Analyzed: 07/21/04

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	43.0		mg/kg	50.0		86.0	70-130			
Surrogate: 1-Chlorooctadecane	36.4		"	50.0		72.8	70-130			

LCS (EG41910-BS1)

Prepared & Analyzed: 07/20/04

Gasoline Range Organics C6-C12	451	10.0	mg/kg wet	500		90.2	75-125			
Diesel Range Organics >C12-C35	486	10.0	"	500		97.2	75-125			
Total Hydrocarbon C6-C35	937	10.0	"	1000		93.7	75-125			
Surrogate: 1-Chlorooctane	49.5		mg/kg	50.0		99.0	70-130			
Surrogate: 1-Chlorooctadecane	37.7		"	50.0		75.4	70-130			

LCS (EG41910-BS2)

Prepared: 07/20/04 Analyzed: 07/21/04

Gasoline Range Organics C6-C12	454	10.0	mg/kg wet	500		90.8	75-125			
Diesel Range Organics >C12-C35	482	10.0	"	500		96.4	75-125			
Total Hydrocarbon C6-C35	936	10.0	"	1000		93.6	75-125			
Surrogate: 1-Chlorooctane	49.4		mg/kg	50.0		98.8	70-130			
Surrogate: 1-Chlorooctadecane	37.9		"	50.0		75.8	70-130			

Calibration Check (EG41910-CCV1)

Prepared & Analyzed: 07/20/04

Gasoline Range Organics C6-C12	424		mg/kg	500		84.8	80-120			
Diesel Range Organics >C12-C35	438		"	500		87.6	80-120			
Total Hydrocarbon C6-C35	862		"	1000		86.2	80-120			
Surrogate: 1-Chlorooctane	55.8		"	50.0		112	70-130			
Surrogate: 1-Chlorooctadecane	38.2		"	50.0		76.4	70-130			

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

Project: K-9-1 Boot
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/22/04 10:58

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 EG41910 - Solvent Extraction (GC)

Calibration Check (EG41910-CCV2)

Prepared: 07/20/04 Analyzed: 07/21/04

Gasoline Range Organics C6-C12	412		mg/kg	500		82.4	80-120			
Diesel Range Organics >C12-C35	454		"	500		90.8	80-120			
Total Hydrocarbon C6-C35	866		"	1000		86.6	80-120			
Surrogate: 1-Chlorooctane	55.2		"	50.0		110	70-130			
Surrogate: 1-Chlorooctadecane	40.3		"	50.0		80.6	70-130			

Matrix Spike (EG41910-MS1)

Source: 4G16016-23

Prepared & Analyzed: 07/20/04

Gasoline Range Organics C6-C12	448	10.0	mg/kg dry	521	ND	86.0	75-125			
Diesel Range Organics >C12-C35	469	10.0	"	521	ND	90.0	75-125			
Total Hydrocarbon C6-C35	917	10.0	"	1040	ND	88.2	75-125			
Surrogate: 1-Chlorooctane	36.0		mg/kg	50.0		112	70-130			
Surrogate: 1-Chlorooctadecane	36.9		"	50.0		73.8	70-130			

Matrix Spike (EG41910-MS2)

Source: 4G16021-05

Prepared: 07/20/04 Analyzed: 07/21/04

Gasoline Range Organics C6-C12	433	10.0	mg/kg dry	515	ND	84.1	75-125			
Diesel Range Organics >C12-C35	513	10.0	"	515	8.10	98.0	75-125			
Total Hydrocarbon C6-C35	946	10.0	"	1030	ND	91.8	75-125			
Surrogate: 1-Chlorooctane	53.7		mg/kg	50.0		107	70-130			
Surrogate: 1-Chlorooctadecane	41.2		"	50.0		82.4	70-130			

Matrix Spike Dup (EG41910-MSD1)

Source: 4G16016-23

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

Gasoline Range Organics C6-C12	456	10.0	mg/kg dry	521	ND	87.5	75-125	1.77	20	
Diesel Range Organics >C12-C35	487	10.0	"	521	ND	93.5	75-125	3.77	20	
Total Hydrocarbon C6-C35	943	10.0	"	1040	ND	90.7	75-125	2.80	20	
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 (EG41910-MSD2)

Source: 4G16021-05

Prepared: 07/20/04 Analyzed: 07/21/04

Gasoline Range Organics C6-C12	446	10.0	mg/kg dry	515	ND	86.6	75-125	2.96	20	
Diesel Range Organics >C12-C35	471	10.0	"	515	8.10	89.9	75-125	8.54	20	
Total Hydrocarbon C6-C35	917	10.0	"	1030	ND	89.0	75-125	3.11	20	
Surrogate: 1-Chlorooctane	54.6		mg/kg	50.0		109	70-130			
Surrogate: 1-Chlorooctadecane	37.4		"	50.0		74.8	70-130			

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

Project: K-9-1 Boot
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/22/04 10:58

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 EG42001 - General Preparation (Prep)

Blank (EG42001-BLK1)

Prepared & Analyzed: 07/19/04

% Solids 100 %

Duplicate (EG42001-DUP1)

Source: 4G16015-03

Prepared & Analyzed: 07/19/04

% Solids 89.0 % 89.0 0.00 20

Batch EG42015 - Water Extraction

Blank (EG42015-BLK1)

Prepared: 07/19/04 Analyzed: 07/20/04

Chloride ND 20.0 mg/kg Wet

Matrix Spike (EG42015-MS1)

Source: 4G16016-22

Prepared: 07/19/04 Analyzed: 07/20/04

Chloride 532 20.0 mg/kg Wet 500 21.3 102 80-120

Matrix Spike Dup (EG42015-MSD1)

Source: 4G16016-22

Prepared: 07/19/04 Analyzed: 07/20/04

Chloride 521 20.0 mg/kg Wet 500 21.3 99.9 80-120 2.09 20

Reference (EG42015-SRM1)

Prepared: 07/19/04 Analyzed: 07/20/04

Chloride 5000 mg/kg 5000 100 80-120

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

Project: K-9-1 Boot
Project Number: None Given
Project Manager: Roy Rascon

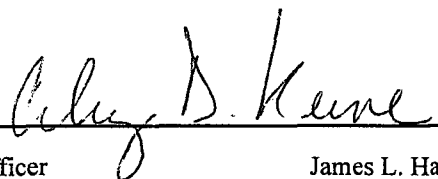
Fax: (505) 397-1471

Reported:
07/22/04 10:58

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:



Date:

07/22/04

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

RICE Operating Company

122 West Taylor
Hobbs, NM 88240
Phone: (505) 393-9174
Fax: (505) 397-1471

TO:

Raland K. Tuttle

FROM:

Roy P. Rascon

FAX NUMBER:

432-563-1713

DATE:

7-27-03

COMPANY:

ELOT

TOTAL NO. OF PAGE INCLUDING COVER:

1

RE:

Lab Order No. ~~#~~ 4G16017

NOTES/COMMENTS:

Please run a cl test on the wall comp. &
on the Backfill Comp.

IF YOU DO NOT RECEIVE ALL PAGES INCLUDED, PLEASE CALL THE OFFICE PHONE NUMBER LISTED AT THE TOP OF
THIS PAGE-THANK YOU

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Rice Operating Co.

Date/Time: 07-16-04 @ 1515

Order #: 4G16018

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	No	4.0 C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	<input checked="" type="checkbox"/> Not present
Custody Seals intact on sample bottles?	Yes	No	<input checked="" type="checkbox"/> Not present
Chain of custody present?	<input checked="" type="checkbox"/> Yes	No	
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	No	
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	No	
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	No	
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	No	
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	No	
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	No	
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	No	
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	No	
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	No	
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	No	Not Applicable

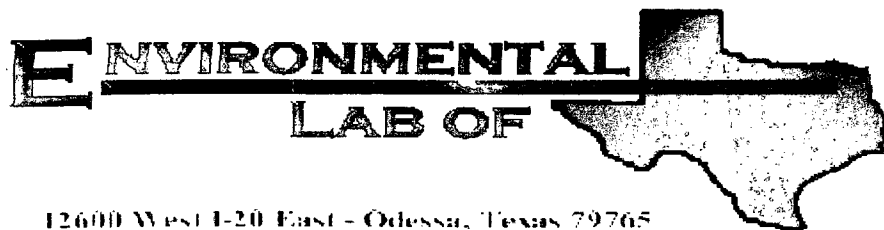
Other observations:

Variance Documentation:

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

Regarding:

Corrective Action Taken:



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

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

Project: K-9-1 Boot
Project Number: None Given
Location: EME

Lab Order Number: 4G16017

Report Date: 07/28/04

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

Project: K-9-1 Boot
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/28/04 12:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Wall Composite	4G16017-02	Soil	07/15/04 10:40	07/16/04 16:20
Backfill Composite	4G16017-03	Soil	07/15/04 11:30	07/16/04 16:20

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

Project: K-9-1 Boot
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/28/04 12:27

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Wall Composite (4G16017-02) Soil									
Chloride	191	20.0	mg/kg Wet	2	EG42710	07/27/04	07/27/04	SW 846 9253	
Backfill Composite (4G16017-03) Soil									
Chloride	160	20.0	mg/kg Wet	2	EG42710	07/27/04	07/27/04	SW 846 9253	

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

Project: K-9-1 Boot
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/28/04 12:27

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 EG42710 - Water Extraction

Blank (EG42710-BLK1)

Prepared & Analyzed: 07/27/04

Chloride ND 20.0 mg/kg Wet

Matrix Spike (EG42710-MS1)

Source: 4G27001-01

Prepared & Analyzed: 07/27/04

Chloride 532 20.0 mg/kg Wet 500 85.1 89.4 80-120

Matrix Spike Dup (EG42710-MSD1)

Source: 4G27001-01

Prepared & Analyzed: 07/27/04

Chloride 542 20.0 mg/kg Wet 500 85.1 91.4 80-120 1.86 20

Reference (EG42710-SRM1)

Prepared & Analyzed: 07/27/04

Chloride 4890 mg/kg 5000 97.8 80-120

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 3 of 5

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

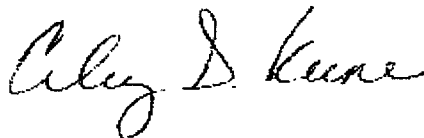
Project: K-9-1 Boot
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471
Reported:
07/28/04 12:27

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: _____



Date: _____

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

Project: K-9-1 Boot
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/28/04 12:27

RAE 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~~ 104550

CALIBRATION GAS

GAS COMPOSITION: ISOBUTYLENE

100 PPM

AIR

BALANCE

LOT NO: 03-2475

FILL DATE: 4-19-04

EXP. DATE: 10-19-05

ACCURACY: ± 2%

METER READING

ACCURACY: 100.0

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EME	K-9-1	K	9	20-S	37-E

SAMPLE	PID RESULT	SAMPLE	PID RESULT
North Wall Comp	2.2		
South Wall Comp	1.2		
East Wall Comp	1.1		
West Wall Comp	0		
Bottom Comp	0		
Wall Comp.	0		
Backfill Comp	0		

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

Rob Elam

Signature

7-15-04

Date