

1R - 426-116

REPORTS

DATE:

5/20/2005

BD Sect A-27

1R0426-116

**FINAL
REPORT**

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
BD	A-27	A	27	21S	37E	Lea	moved 50 ft East		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Richard Don Jones OTHER _____

Depth to Groundwater 50 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 3/16/2005 Date Completed 4/8/2005 NMOCD Witness no

Soil Excavated 37 cubic yards Excavation Length 10 Width 10 Depth 10 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 3/17/2005 Sample Depth 10 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.	1.2	<10.0	<10.0	20.6
BOTTOM COMP.	1.1	<10.0	<10.0	21.4
REMED. BACKFILL	0.3	<10.0	<10.0	20.5

LOCATION	DEPTH (ft)	ppm
vertical at junction	5	102
	6	77
	7	77
	8	81
	9	71
	10	74
	11	78
5 ft SOUTH of junction	12	86
	4	139
	5	89
	6	89
	7	81
	8	70
background	9	77
	10	74
	0	84
	4-wall comp.	n/a
bottom comp.	12	47
remed. comp.	n/a	42

General Description of Remedial Action: This junction was replaced under the pipeline replacement program and moved 50 ft east. The box lumber at the former junction site was removed and the site was delineated using a backhoe while PID screenings and field chloride tests were conducted on soil samples at regular intervals. There were no physical indications of hydrocarbon or chloride impact throughout the 10 x 10 x 10 ft deep excavation. Lab analysis conducted on samples from the final excavation confirmed TPH concentrations were non-detect (<10.0 ppm), meeting NMOCD guidelines. Chloride concentrations were very low throughout and reflective of background conditions, indicative of unsaturated vadose conditions. The excavated soil was blended on site and then backfilled into the location. 12 cubic yards of clean imported soil was placed on top of the blended soils to complete the backfill to the surface. The disturbed surface was seeded on 5/9/2005 with a blend of native vegetation and is expected to return to productive capacity at a normal rate. The new watertight junction box was built 50 ft east of this site.

enclosures: chloride graphs, photos, lab results, PID field screenings, diagram

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

SITE SUPERVISOR Israel Juarez SIGNATURE *Israel Juarez* COMPANY RICE Operating Company

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE *Kristin Farris Pope*
DATE 5/20/2005 TITLE Project Scientist

BD jct. A-27

Unit 'A', Sec. 27, T21S, R37E



undisturbed junction box

10/31/2003



new poly plumbing at new junction box site 50 ft east of former
9/5/2003



completed new junction box

9/23/2003



delineation & excavation at former junction

3/16/2005



backfilled excavation (looking west)

4/8/2005



seeding disturbed surface; new junction box in foreground

5/9/2005

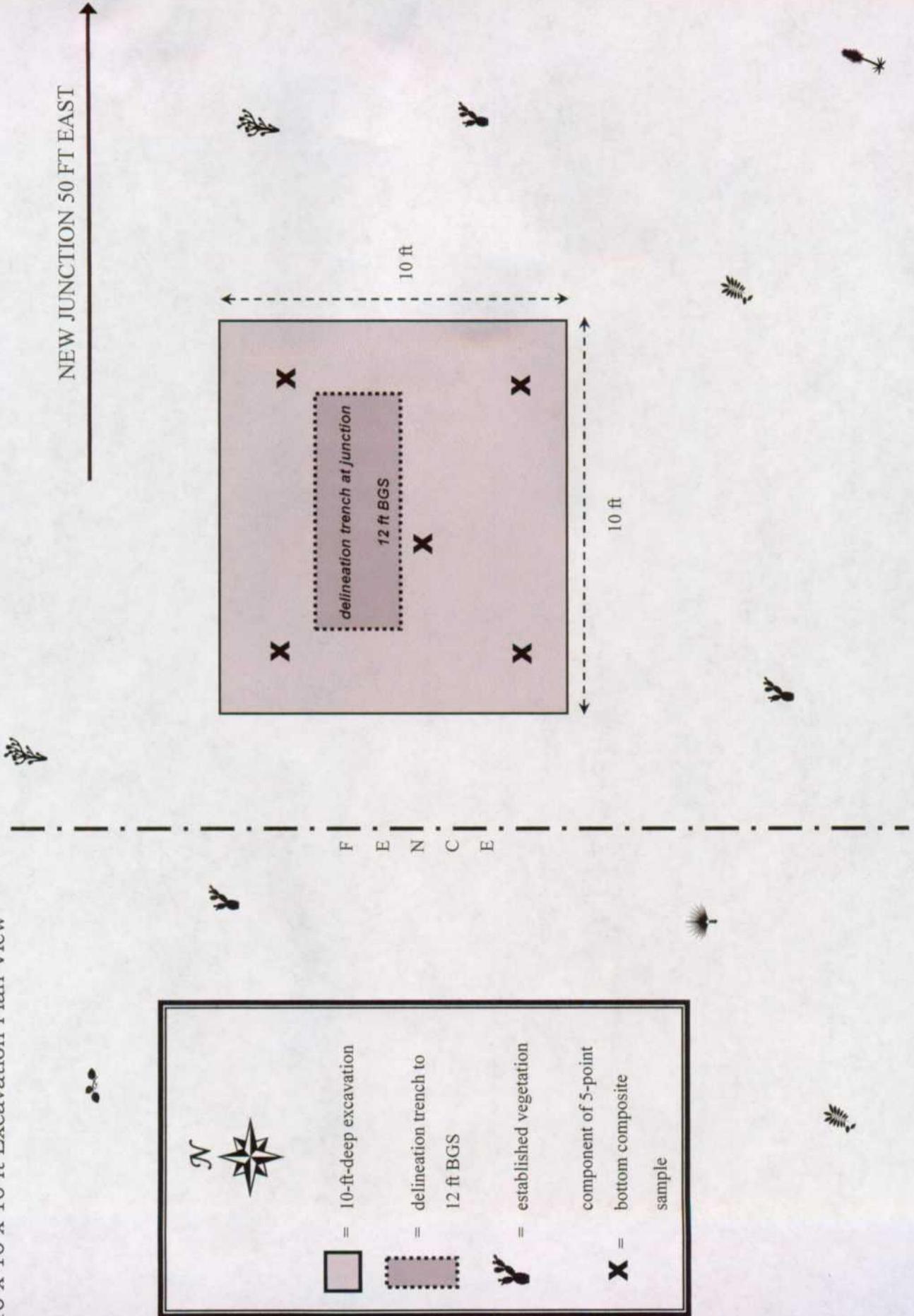


tilling and watering seed

5/9/2005

BD jct. A-27

10 x 10 x 10 ft Excavation Plan View

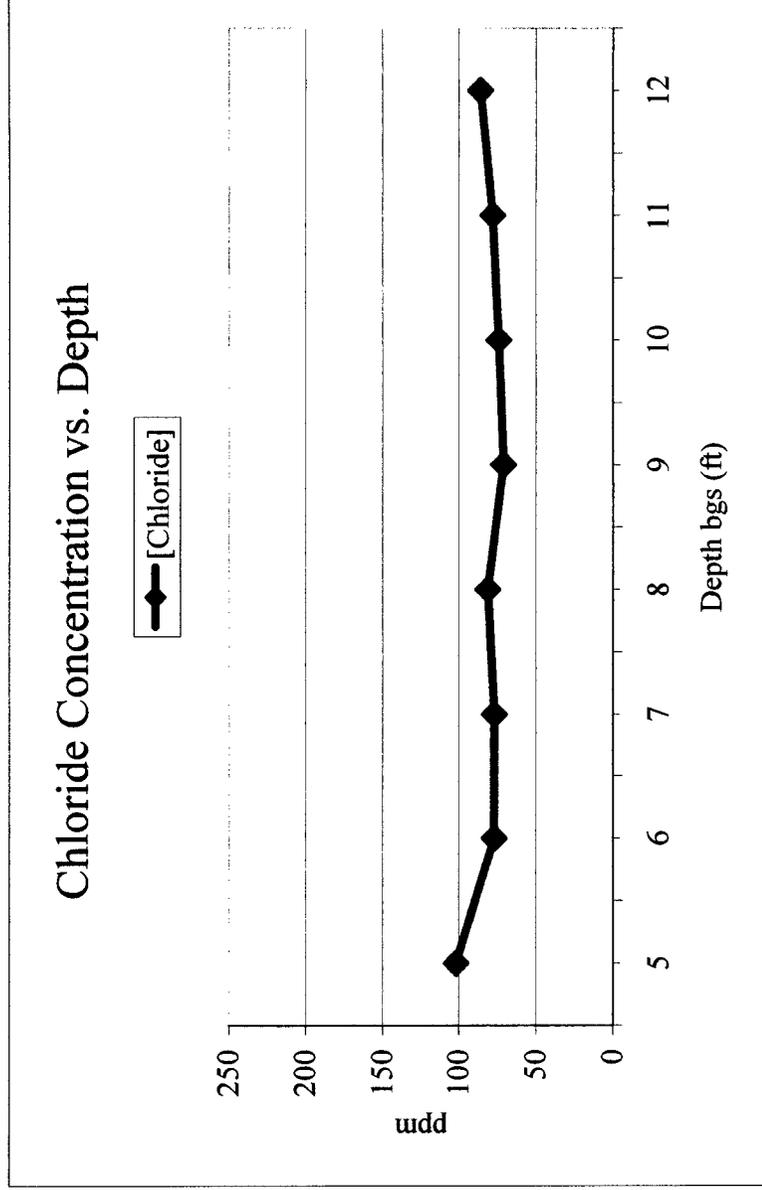


BD jct. A-27

T21S, R37E

Vertical Delineation at Source

Depth bgs (ft)	[Cl ⁻] ppm
5	102
6	77
7	77
8	81
9	71
10	74
11	78
12	86



Groundwater = 50 ft

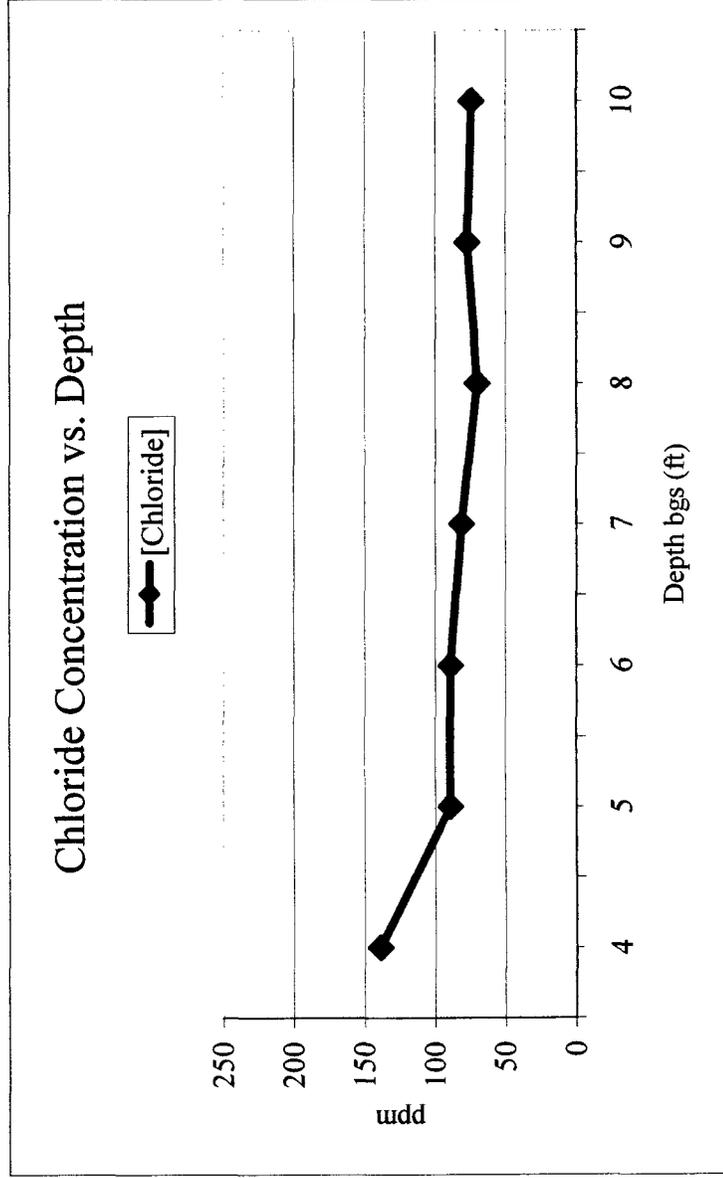
BD jct. A-27

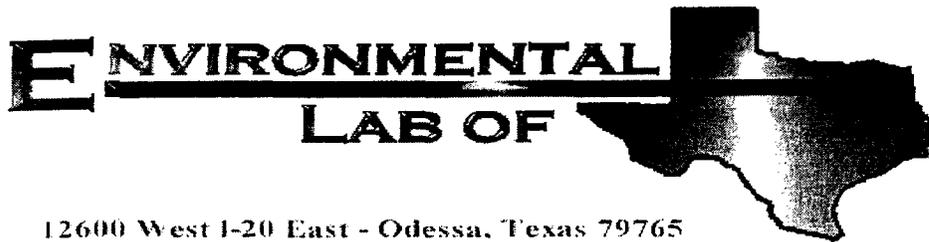
T21S, R37E

5 ft NORTH of junction

Depth bgs (ft)	[Cl ⁻] ppm
4	139
5	89
6	89
7	81
8	70
9	77
10	74

Groundwater = 50 ft





12600 West I-20 East - Odessa, Texas 79765

COPY

Analytical Report

Prepared for:

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

Project: BD Jct. A-27
Project Number: None Given
Location: None Given

Lab Order Number: 5C18001

Report Date: 03/22/05

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

Project: BD Jct. A-27
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
03/22/05 14:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Remediated Backfill	5C18001-01	Soil	03/17/05 08:10	03/18/05 07:40
4 Wall Comp.	5C18001-02	Soil	03/17/05 08:35	03/18/05 07:40
Bottom Comp. at 10'	5C18001-03	Soil	03/17/05 08:15	03/18/05 07:40

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

Project: BD Jct. A-27
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471
Reported:
03/22/05 14:52

**Organics by GC
Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Remediated Backfill (5C18001-01) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC51716	03/18/05	03/19/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		88.0 %	67.6-140		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		89.2 %	70-130		"	"	"	"	
4 Wall Comp. (5C18001-02) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC51716	03/18/05	03/19/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		87.6 %	67.6-140		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		89.0 %	70-130		"	"	"	"	
Bottom Comp. at 10' (5C18001-03) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC51716	03/18/05	03/19/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		82.4 %	67.6-140		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		78.8 %	70-130		"	"	"	"	

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

Project: BD Jct. A-27
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
03/22/05 14:52

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Remediated Backfill (5C18001-01) Soil									
Chloride	20.5	5.00	mg/kg	10	EC52217	03/19/05	03/19/05	EPA 300.0	
% Moisture	14.4	0.1	%	1	EC51810	03/18/05	03/21/05	% calculation	
4 Wall Comp. (5C18001-02) Soil									
Chloride	20.6	5.00	mg/kg	10	EC52217	03/19/05	03/19/05	EPA 300.0	
% Moisture	14.7	0.1	%	1	EC51810	03/18/05	03/21/05	% calculation	
Bottom Comp. at 10' (5C18001-03) Soil									
Chloride	21.4	5.00	mg/kg	10	EC52217	03/19/05	03/19/05	EPA 300.0	
% Moisture	18.6	0.1	%	1	EC51810	03/18/05	03/21/05	% calculation	

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

Project: BD Jct. A-27
Project Number: None Given
Project Manager: Roy Rascon

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Reported:
03/22/05 14:52

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 EC51716 - Solvent Extraction (GC)

Blank (EC51716-BLK1)

Prepared: 03/17/05 Analyzed: 03/18/05

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	38.9		mg/kg	50.0		77.8	67.6-140			
Surrogate: 1-Chlorooctadecane	45.6		"	50.0		91.2	70-130			

LCS (EC51716-BS1)

Prepared: 03/17/05 Analyzed: 03/18/05

Gasoline Range Organics C6-C12	448	10.0	mg/kg wet	500		89.6	76.3-104			
Diesel Range Organics >C12-C35	504	10.0	"	500		101	76.1-118			
Total Hydrocarbon C6-C35	952	10.0	"	1000		95.2	81.8-105			
Surrogate: 1-Chlorooctane	48.5		mg/kg	50.0		97.0	67.6-140			
Surrogate: 1-Chlorooctadecane	48.6		"	50.0		97.2	70-130			

Calibration Check (EC51716-CCV1)

Prepared: 03/17/05 Analyzed: 03/18/05

Gasoline Range Organics C6-C12	479		mg/kg	500		95.8	80-120			
Diesel Range Organics >C12-C35	487		"	500		97.4	80-120			
Total Hydrocarbon C6-C35	966		"	1000		96.6	80-120			
Surrogate: 1-Chlorooctane	50.1		"	50.0		100	67.6-140			
Surrogate: 1-Chlorooctadecane	53.9		"	50.0		108	70-130			

Matrix Spike (EC51716-MS1)

Source: 5C17012-01

Prepared: 03/17/05 Analyzed: 03/18/05

Gasoline Range Organics C6-C12	566	10.0	mg/kg dry	569	ND	99.5	75.9-114			
Diesel Range Organics >C12-C35	627	10.0	"	569	31.1	105	85.3-122			
Total Hydrocarbon C6-C35	1190	10.0	"	1140	31.1	102	84.4-115			
Surrogate: 1-Chlorooctane	51.6		mg/kg	50.0		103	67.6-140			
Surrogate: 1-Chlorooctadecane	51.8		"	50.0		104	70-130			

Matrix Spike Dup (EC51716-MSD1)

Source: 5C17012-01

Prepared: 03/17/05 Analyzed: 03/19/05

Gasoline Range Organics C6-C12	539	10.0	mg/kg dry	569	ND	94.7	75.9-114	4.89	10.4	
Diesel Range Organics >C12-C35	619	10.0	"	569	31.1	103	85.3-122	1.28	10.4	
Total Hydrocarbon C6-C35	1160	10.0	"	1140	31.1	99.0	84.4-115	2.55	7.6	
Surrogate: 1-Chlorooctane	50.5		mg/kg	50.0		101	67.6-140			
Surrogate: 1-Chlorooctadecane	49.3		"	50.0		98.6	70-130			

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

Project: BD Jct. A-27
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
03/23/05 11:22

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 EC51810 - General Preparation (Prep)

Blank (EC51810-BLK1)

Prepared: 03/18/05 Analyzed: 03/21/05

% Moisture ND 0.1 %

Duplicate (EC51810-DUP1)

Source: 5C17012-01

Prepared: 03/18/05 Analyzed: 03/21/05

% Solids 92.3 % 87.8 5.00 20

Batch EC52217 - Water Extraction

Blank (EC52217-BLK1)

Prepared & Analyzed: 03/19/05

Chloride ND 0.500 mg/kg

LCS (EC52217-BS1)

Prepared & Analyzed: 03/19/05

Chloride 10.6 mg/L 10.0 106 80-120

Calibration Check (EC52217-CCV1)

Prepared & Analyzed: 03/19/05

Chloride 10.0 mg/L 10.0 100 80-120

Duplicate (EC52217-DUP1)

Source: 5C17010-21

Prepared & Analyzed: 03/19/05

Chloride 21.0 5.00 mg/kg 23.1 9.52 20

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

Project: BD Jct. A-27
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
03/22/05 14:52

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: Celey D. Keene

Date: 03/23/05

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 Sanchez, Lab Tech.

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

Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In

Client: Rice Operating
 Date/Time: 3/18/05 8:20
 Order #: 5018001
 Initials: OK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	-2.0	0
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/>	No		
Custody Seals intact on shipping container/cooler?	Yes	No	Not present	
Custody Seals intact on sample bottles?	<input checked="" type="checkbox"/>	No	Not present	
Chain of custody present?	<input checked="" type="checkbox"/>	No		
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/>	No		
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/>	No		
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/>	No		
Container labels legible and intact?	<input checked="" type="checkbox"/>	No		
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/>	No		
Samples in proper container/bottle?	<input checked="" type="checkbox"/>	No		
Samples properly preserved?	<input checked="" type="checkbox"/>	No		
Sample bottles intact?	<input checked="" type="checkbox"/>	No		
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/>	No		
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/>	No		
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/>	No		
All samples received within sufficient hold time?	<input checked="" type="checkbox"/>	No		
VOC samples have zero headspace?	<input checked="" type="checkbox"/>	No	Not Applicable	

Other observations:

Variance Documentation:

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

Corrective Action Taken:

Rice Operating Company
 HOBBS, NEW MEXICO 88240
 PHONE: (505) 393-9174 FAX: (505) 397-1471
VOC FIELD TEST REPORT FORM

COPY

MODEL NO: PGM 761S
 CALIBRATION GAS
 GAS COMPOSITION: ISOBUTYLENE AIR

SERIAL NO: 104412

LOT NO: 04-2447
 EXP. DATE: 5-19-06
 METER READING
 ACCURACY: 98.9

100 PPM
 BALANCE
 FILL DATE: 11-19-04
 ACCURACY: ± 2%

SYSTEM	JUNCION	UNIT	SECTION	TOWNSHIP	RANGE
BD	A-27	A	27	21	37

All
 Composite
 samples

bottom comp @ 10' →
 Remediated →
 backfill

SAMPLE	PID RESULT	SAMPLE	PID RESULT
N Wall	3.4		
S Wall	1.6		
E Wall	1.8		
W Wall	0.8		
4 wall comp	1.2		
BT. 1 comp	1.1		
NEW BT.	0.3		

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

Signature [Handwritten Signature]

Date 3/17/05