

1R - 426-220

REPORTS

DATE:

8-12-08

BD H-35 Boot

50
1R426-220

RECEIVED

MAR 14 1978

Environmental Bureau
Oil Conservation Division

Disclosure

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

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
Blinebry-Drinkard	Jct. H-35 boot	H	35	21S	37E	Lea	Length	Width	Depth
							moved 584 ft north		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Eva Owen Estate OTHER _____

Depth to Groundwater 44 feet NMOCD SITE ASSESSMENT RANKING SCORE: 40*

Date Started 9/29/2005 Date Completed 4/20/2006 OCD Witness no

Soil Excavated 333 cubic yards Excavation Length 30 Width 25 Depth 12 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 9/30/2005,
10/20/2005 Sample Depth 12 ft

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

Sample Location	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Total Xylenes mg/kg	GRO mg/kg	DRO mg/kg	Chlorides mg/kg
SOURCE 14 ft GRAB	3.05	13.5	17.5	47.9	1850	4000	817
4-WALL COMP.	PID = 79.9 (field)				<10.0	47.7	180
BOTTOM COMP.	0.962	3.71	3.67	10.04	422	984	958
BACKFILL	PID = 627 (field)				261	683	712

General Description of Remedial Action: This junction was addressed under the

pipeline replacement/upgrade program. A new, watertight junction box was installed
584 ft north of the former. After the former box was removed, an investigation was
conducted using a backhoe to collect soil samples at regular intervals producing a
30x25x12-ft-deep hole. Chloride field tests were performed on each sample, yielding
chloride levels that did not relent with depth. Organic vapors were measured using a
PID, which yielded elevated levels. Representative composite samples were collected
and sent to a commercial laboratory for analysis of chloride, TPH, and BTEX. The
excavated soil was blended on-site and returned to the excavation up to 6 ft below
ground surface. At 6-5 ft BGS, a 1-ft-thick clay barrier was installed. The remaining fill
was used to backfill the excavation and to contour to the surrounding area. NMOCD was
notified of potential groundwater impact on 8/11/2008.

**One inactive stock well 45.1 ft north from site and housing within the radius.*

ADDITIONAL EVALUATION IS HIGH PRIORITY

enclosures: photos, cross-section, lab results, PID

screening, BTEX comparison table, chloride curve

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
source grab	14'	514
4-wall comp.	n/a	545
bottom comp.	12'	1298
backfill comp.	n/a	609
vertical delineation trench 10 ft north of junction (source)	1'	47
	2'	58
	3'	59
	4'	128
	5'	195
	6'	712
	7'	312
	8'	684
	9'	771
	10'	502
	11'	542
	12'	2642

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

REPORT ASSEMBLED BY Katie Jones INITIAL KJ

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE Larry Bruce Baker Jr. DATE 8-12-08

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

BD Jct. H-35 boot

Unit H, Section 35, T21S, R37E



undisturbed junction box, facing north

7/23/2003



delineation trench, facing south

9/30/2005



excavation, facing north

10/20/2005



installing clay barrier

4/19/2006



backfilling excavation

4/19/2006



backfilling excavation

4/20/2006

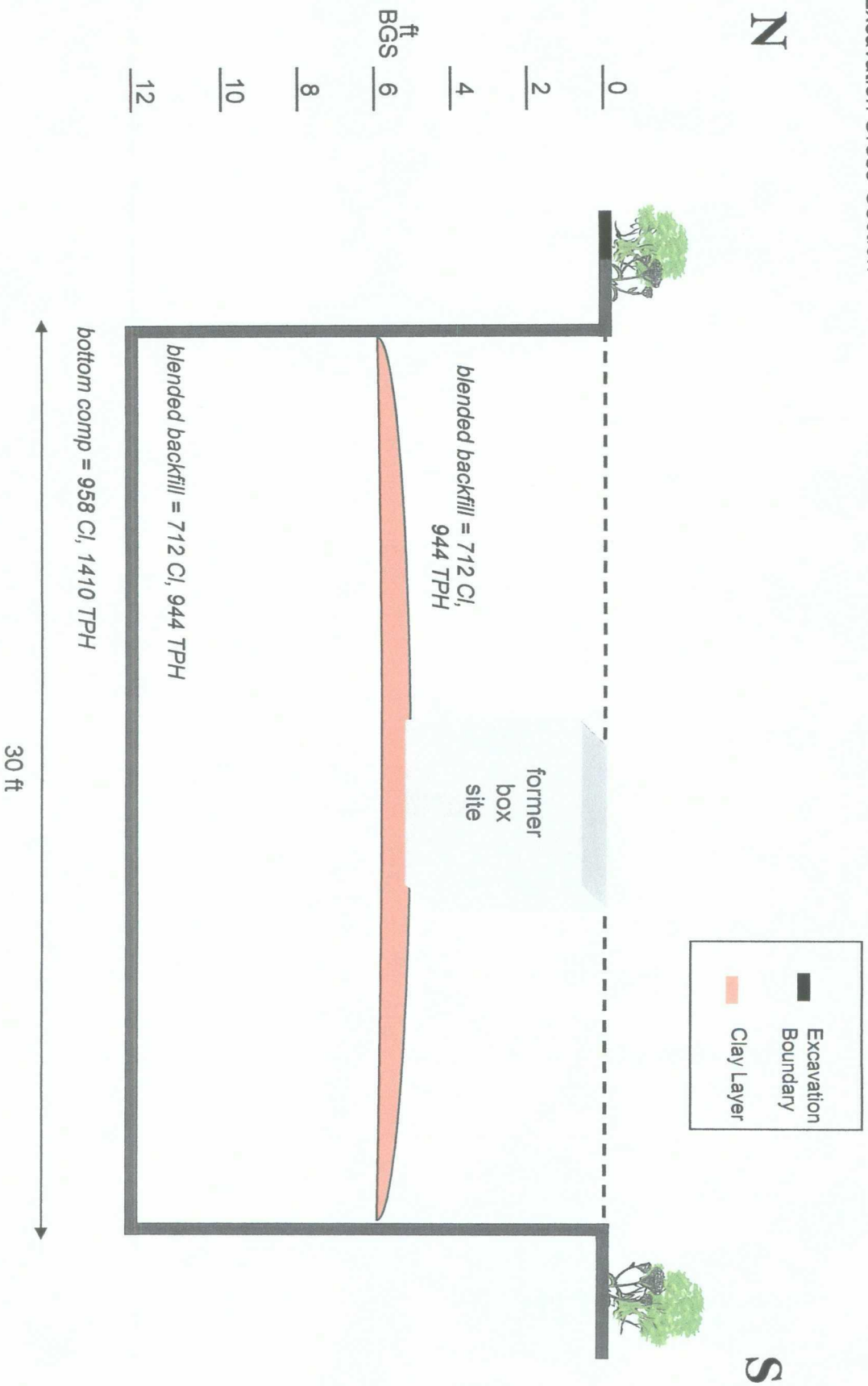


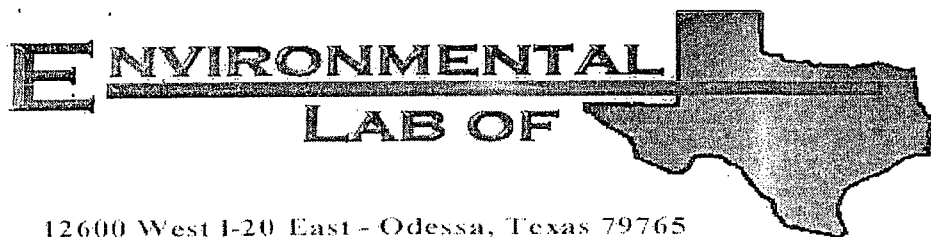
site complete

4/20/2006

BD Jct. H-35 boot
Unit H, Section 35, T21S, R37E

Excavation Cross-Section





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. H-35
Project Number: None Given
Location: None Given

Lab Order Number: 5J03006

Report Date: 10/11/05

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

Project: BD Jct. H-35
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
10/11/05 12:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Vert. @ Source @ 14'	5J03006-01	Soil	09/30/05 11:00	09/30/05 17:45

COPY

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

Project: BD Jct. H-35
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
10/11/05 12:39

Organics by GC
Environmental Lab of Texas

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Vert. @ Source @ 14' (5J03006-01) Soil									
Benzene	3.05	0.200	mg/kg dry	200	EJ50306	10/03/05	10/04/05	EPA 8021B	
Toluene	13.5	0.200	"	"	"	"	"	"	
Ethylbenzene	17.5	0.200	"	"	"	"	"	"	
Xylene (p/m)	33.9	0.200	"	"	"	"	"	"	
Xylene (o)	14.0	0.200	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		137 %	80-120		"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>		125 %	80-120		"	"	"	"	S-04
Gasoline Range Organics C6-C12	1850	10.0	mg/kg dry	1	EJ50309	10/03/05	10/04/05	EPA 8015M	
Diesel Range Organics >C12-C35	4000	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	5850	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		119 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		118 %	70-130		"	"	"	"	

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

Project: BD Jct. H-35
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported: .
10/11/05 12:39

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

COPY

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Vert. @ Source @ 14' (5J03006-01) Soil									
Chloride	817	10.0	mg/kg	20	EJ50605	10/05/05	10/06/05	EPA 300.0	
% Moisture	12.4	0.1	%	1	EJ50404	10/03/05	10/04/05	% calculation	

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

Project: BD Jct. H-35
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
10/11/05 12:39

Organics by GC - Quality Control
Environmental Lab of Texas

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EJ50306 - EPA 5030C (GC)

Blank (EJ50306-BLK1)

Prepared & Analyzed: 10/03/05

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	38.7		ug/kg	40.0		96.8	80-120			
Surrogate: 4-Bromofluorobenzene	37.4		"	40.0		93.5	80-120			

LCS (EJ50306-BS1)

Prepared & Analyzed: 10/03/05

Benzene	0.0534	0.00100	mg/kg wet	0.0500		107	80-120			
Toluene	0.0533	0.00100	"	0.0500		107	80-120			
Ethylbenzene	0.0593	0.00100	"	0.0500		119	80-120			
Xylene (p/m)	0.109	0.00100	"	0.100		109	80-120			
Xylene (o)	0.0595	0.00100	"	0.0500		119	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.1		ug/kg	40.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	43.5		"	40.0		109	80-120			

Calibration Check (EJ50306-CCV1)

Prepared: 10/03/05 Analyzed: 10/04/05

Benzene	49.6		ug/kg	50.0		99.2	80-120			
Toluene	48.9		"	50.0		97.8	80-120			
Ethylbenzene	54.7		"	50.0		109	80-120			
Xylene (p/m)	102		"	100		102	80-120			
Xylene (o)	57.7		"	50.0		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.4		"	40.0		96.0	0-200			
Surrogate: 4-Bromofluorobenzene	39.7		"	40.0		99.2	0-200			

Matrix Spike (EJ50306-MS1)

Source: 5I30004-02

Prepared: 10/03/05 Analyzed: 10/04/05

Benzene	0.0525	0.00100	mg/kg dry	0.0524	ND	100	80-120			
Toluene	0.0523	0.00100	"	0.0524	ND	99.8	80-120			
Ethylbenzene	0.0571	0.00100	"	0.0524	ND	109	80-120			
Xylene (p/m)	0.106	0.00100	"	0.105	ND	101	80-120			
Xylene (o)	0.0563	0.00100	"	0.0524	ND	107	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.6		ug/kg	40.0		96.5	80-120			
Surrogate: 4-Bromofluorobenzene	34.3		"	40.0		85.8	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 4 of 8

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

Project: BD Jct. H-35
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
10/11/05 12:39

Organics by GC - Quality Control
Environmental Lab of Texas

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EJ50306 - EPA 5030C (GC)

Matrix Spike Dup (EJ50306-MSD1)

Source: 5I30004-02

Prepared: 10/03/05

Analyzed: 10/04/05

Benzene	0.0603	0.00100	mg/kg dry	0.0524	ND	115	80-120	14.0	20	
Toluene	0.0601	0.00100	"	0.0524	ND	115	80-120	14.2	20	
Ethylbenzene	0.0626	0.00100	"	0.0524	ND	119	80-120	8.77	20	
Xylene (p/m)	0.118	0.00100	"	0.105	ND	112	80-120	10.3	20	
Xylene (o)	0.0620	0.00100	"	0.0524	ND	118	80-120	9.78	20	
Surrogate: a,a,a-Trifluorotoluene	45.9		ug/kg	40.0		115	80-120			
Surrogate: 4-Bromofluorobenzene	42.0		"	40.0		105	80-120			

Batch EJ50309 - Solvent Extraction (GC)

Blank (EJ50309-BLK1)

Prepared: 10/03/05

Analyzed: 10/04/05

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	40.3		mg/kg	50.0		80.6	70-130			
Surrogate: 1-Chlorooctadecane	48.6		"	50.0		97.2	70-130			

LCS (EJ50309-BS1)

Prepared: 10/03/05

Analyzed: 10/04/05

Gasoline Range Organics C6-C12	400	10.0	mg/kg wet	500		80.0	75-125			
Diesel Range Organics >C12-C35	420	10.0	"	500		84.0	75-125			
Total Hydrocarbon C6-C35	820	10.0	"	1000		82.0	75-125			
Surrogate: 1-Chlorooctane	52.7		mg/kg	50.0		105	70-130			
Surrogate: 1-Chlorooctadecane	53.1		"	50.0		106	70-130			

Calibration Check (EJ50309-CCV1)

Prepared: 10/03/05

Analyzed: 10/04/05

Gasoline Range Organics C6-C12	414		mg/kg	500		82.8	80-120			
Diesel Range Organics >C12-C35	453		"	500		90.6	80-120			
Total Hydrocarbon C6-C35	867		"	1000		86.7	80-120			
Surrogate: 1-Chlorooctane	48.2		"	50.0		96.4	0-200			
Surrogate: 1-Chlorooctadecane	48.5		"	50.0		97.0	0-200			

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

Project: BD Jct. H-35
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
10/11/05 12:39

Organics by GC - Quality Control
Environmental Lab of Texas

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EJ50309 - Solvent Extraction (GC)

Matrix Spike (EJ50309-MS1) Source: 5J03018-03 Prepared: 10/03/05 Analyzed: 10/04/05

Gasoline Range Organics C6-C12	515	10.0	mg/kg dry	652	ND	79.0	75-125		
Diesel Range Organics >C12-C35	573	10.0	"	652	ND	87.9	75-125		
Total Hydrocarbon C6-C35	1090	10.0	"	1300	ND	83.8	75-125		
Surrogate: 1-Chlorooctane	54.8		mg/kg	50.0		110	70-130		
Surrogate: 1-Chlorooctadecane	60.4		"	50.0		121	70-130		

Matrix Spike Dup (EJ50309-MSD1) Source: 5J03018-03 Prepared: 10/03/05 Analyzed: 10/04/05

Gasoline Range Organics C6-C12	519	10.0	mg/kg dry	652	ND	79.6	75-125	0.774	20
Diesel Range Organics >C12-C35	557	10.0	"	652	ND	85.4	75-125	2.83	20
Total Hydrocarbon C6-C35	1080	10.0	"	1300	ND	83.1	75-125	0.922	20
Surrogate: 1-Chlorooctane	53.3		mg/kg	50.0		107	70-130		
Surrogate: 1-Chlorooctadecane	58.1		"	50.0		116	70-130		

Environmental Lab of Texas

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Page 6 of 8

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

Project: BD Jct. H-35
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
10/11/05 12:39

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EJ50404 - General Preparation (Prep)

Blank (EJ50404-BLK1)

Prepared: 10/03/05 Analyzed: 10/04/05

% Solids 100 %

Duplicate (EJ50404-DUP1)

Source: 5J03005-01

Prepared: 10/03/05 Analyzed: 10/04/05

% Solids 91.3 % 92.1 0.872 20

Batch EJ50605 - Water Extraction

Blank (EJ50605-BLK1)

Prepared: 10/05/05 Analyzed: 10/06/05

Chloride ND 0.500 mg/kg

LCS (EJ50605-BS1)

Prepared: 10/05/05 Analyzed: 10/06/05

Chloride 8.93 mg/L 10.0 89.3 80-120

Calibration Check (EJ50605-CCV1)

Prepared: 10/05/05 Analyzed: 10/06/05

Chloride 9.42 mg/L 10.0 94.2 80-120

Duplicate (EJ50605-DUP1)

Source: 5J03013-01

Prepared: 10/05/05 Analyzed: 10/06/05

Chloride 301 25.0 mg/kg 315 4.55 20

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

Project: BD Jct. H-35
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
10/11/05 12:39

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

COPY

Report Approved By: Raland K Tuttle Date: 10-12-05

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

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

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

Project Manager:

Ray Rascon

Company Name

RICE Operating

Company Address:

122 W. Taylor

Cell/Style/Zip: Hobbs, NM 88240

Telephone No: (505) 393-9174

FAX No: (505) 397-1471

Sampler Signature: Kay R. Rutherford

Ray R. Patterson

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name:

BD JCT 4-35

Project #:

Project Loc:

PO#

Form No: (505)397-1451

Sampler Signature: Kay R. Rutherford

Ray R. Patterson

[illegible]

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Rice Operating

Date/Time: 09-30-05 @ 1745

Order #: 5 J03006

Initials: JMM

COPY

Sample Receipt Checklist

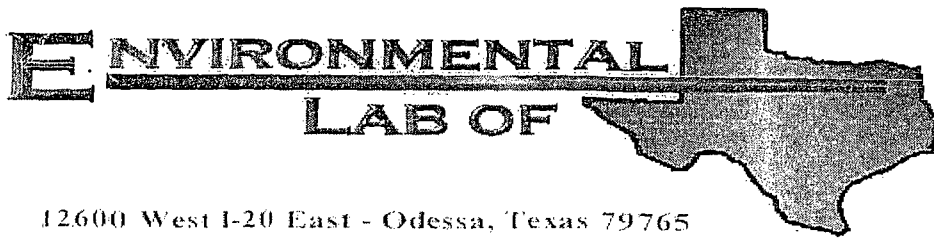
Temperature of container/cooler?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	-2.0	C
Shipping container/cooler in good condition?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Custody Seals intact on shipping container/cooler?	<input checked="" type="radio"/> Yes	<input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

30' x 25' x 12'

Excavation composite

COPY

Analytical Report

Prepared for:

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

Project: BD Jct. H-35 (Boot)

Project Number: None Given

Location: None Given

Lab Order Number: 5J21002

Report Date: 10/26/05

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

Project: BD Jct. H-35 (Boot)
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
10/26/05 14:59

ANALYTICAL REPORT FOR SAMPLES

COPY

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
5 PT Bttm Comp@ 12 Field	5J21002-01	Soil	10/20/05 08:30	10/21/05 08:00
4 Wall Comp.	5J21002-02	Soil	10/20/05 09:42	10/21/05 08:00
Remed. Soil Blended	5J21002-03	Soil	10/20/05 14:00	10/21/05 08:00
Bttm Point #1- #5@ 12'	5J21002-04	Soil	10/20/05 08:20	10/21/05 08:00

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

Project: BD Jct. H-35 (Boot)
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
10/26/05 14:59

Organics by GC
Environmental Lab of Texas



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
5 PT Bttm Comp@ 12 Field (5J21002-01) Soil									
Benzene	0.962	0.0250	mg/kg dry	25	EJ52109	10/21/05	10/21/05	EPA 8021B	
Toluene	3.71	0.0250	"	"	"	"	"	"	
Ethylbenzene	3.67	0.0250	"	"	"	"	"	"	
Xylene (p/m)	6.57	0.0250	"	"	"	"	"	"	
Xylene (o)	3.47	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		135 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		88.5 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	422	10.0	mg/kg dry	1	EJ52115	10/21/05	10/22/05	EPA 8015M	
Diesel Range Organics >C12-C35	984	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	1410	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		115 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		104 %	70-130		"	"	"	"	
4 Wall Comp. (5J21002-02) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ52115	10/21/05	10/22/05	EPA 8015M	
Diesel Range Organics >C12-C35	47.7	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	47.7	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		120 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		85.8 %	70-130		"	"	"	"	
Remed. Soil Blended (5J21002-03) Soil									
Gasoline Range Organics C6-C12	261	10.0	mg/kg dry	1	EJ52115	10/21/05	10/22/05	EPA 8015M	
Diesel Range Organics >C12-C35	683	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	944	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		111 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		99.0 %	70-130		"	"	"	"	
Bttm Point #1- #5@ 12' (5J21002-04) Soil									
Benzene	0.349	0.0250	mg/kg dry	25	EJ52109	10/21/05	10/21/05	EPA 8021B	
Toluene	2.11	0.0250	"	"	"	"	"	"	
Ethylbenzene	3.06	0.0250	"	"	"	"	"	"	
Xylene (p/m)	5.58	0.0250	"	"	"	"	"	"	
Xylene (o)	3.03	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		114 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	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 2 of 9

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

Project: BD Jct. H-35 (Boot)
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
10/26/05 14:59

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

COPY

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
5 PT Bttm Comp@ 12' Field (5J21002-01) Soil									
Chloride	958	10.0	mg/kg	20	EJ52616	10/25/05	10/26/05	EPA 300.0	
% Moisture	28.5	0.1	%	1	EJ52501	10/21/05	10/24/05	% calculation	
4 Wall Comp. (5J21002-02) Soil									
Chloride	180	10.0	mg/kg	20	EJ52616	10/25/05	10/26/05	EPA 300.0	
% Moisture	20.8	0.1	%	1	EJ52501	10/21/05	10/24/05	% calculation	
Remed. Soil Blended (5J21002-03) Soil									
Chloride	712	10.0	mg/kg	20	EJ52617	10/25/05	10/26/05	EPA 300.0	
% Moisture	10.5	0.1	%	1	EJ52501	10/21/05	10/24/05	% calculation	
Bttm Point #1- #5@ 12' (5J21002-04) Soil									
% Moisture	18.4	0.1	%	1	EJ52501	10/21/05	10/24/05	% calculation	

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

Project: BD Jct. H-35 (Boot)
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
10/26/05 17:18

Organics by GC - Quality Control
Environmental Lab of Texas

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EJ52109 - EPA 5030C (GC)

Blank (EJ52109-BLK1)

Prepared & Analyzed: 10/21/05

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	34.4		ug/kg	40.0		86.0	80-120			
Surrogate: 4-Bromofluorobenzene	35.9		"	40.0		89.8	80-120			

LCS (EJ52109-BS1)

Prepared: 10/21/05 Analyzed: 10/24/05

Benzene	0.0546	0.00100	mg/kg wet	0.0500		109	80-120			
Toluene	0.0536	0.00100	"	0.0500		107	80-120			
Ethylbenzene	0.0594	0.00100	"	0.0500		119	80-120			
Xylene (p/m)	0.116	0.00100	"	0.100		116	80-120			
Xylene (o)	0.0576	0.00100	"	0.0500		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	36.5		ug/kg	40.0		91.2	80-120			
Surrogate: 4-Bromofluorobenzene	43.5		"	40.0		109	80-120			

Calibration Check (EJ52109-CCV1)

Prepared: 10/21/05 Analyzed: 10/25/05

Benzene	53.0		ug/kg	50.0		106	80-120			
Toluene	52.2		"	50.0		104	80-120			
Ethylbenzene	57.1		"	50.0		114	80-120			
Xylene (p/m)	108		"	100		108	80-120			
Xylene (o)	57.9		"	50.0		116	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.8		"	40.0		94.5	80-120			
Surrogate: 4-Bromofluorobenzene	40.4		"	40.0		101	80-120			

Matrix Spike (EJ52109-MS1)

Source: 5J23004-13

Prepared: 10/21/05 Analyzed: 10/25/05

Benzene	1.43	0.0250	mg/kg dry	1.33	0.00952	107	80-120			
Toluene	1.46	0.0250	"	1.33	0.0822	104	80-120			
Ethylbenzene	1.67	0.0250	"	1.33	0.0801	120	80-120			
Xylene (p/m)	3.39	0.0250	"	2.66	0.209	120	80-120			
Xylene (o)	1.57	0.0250	"	1.33	0.0990	111	80-120			
Surrogate: a,a,a-Trifluorotoluene	42.7		ug/kg	40.0		107	80-120			
Surrogate: 4-Bromofluorobenzene	37.8		"	40.0		94.5	80-120			

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

Project: BD Jct. H-35 (Boot)
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
10/26/05 17:18

Organics by GC - Quality Control
Environmental Lab of Texas

COPY

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EJ52109 - EPA 5030C (GC)

Matrix Spike Dup (EJ52109-MSD1)

Source: 5J23004-13

Prepared: 10/21/05 Analyzed: 10/25/05

Benzene	1.36	0.0250	mg/kg dry	1.33	0.00952	102	80-120	4.78	20	
Toluene	1.40	0.0250	"	1.33	0.0822	99.1	80-120	4.83	20	
Ethylbenzene	1.66	0.0250	"	1.33	0.0801	119	80-120	0.837	20	
Xylene (p/m)	3.40	0.0250	"	2.66	0.209	120	80-120	0.00	20	
Xylene (o)	1.64	0.0250	"	1.33	0.0990	116	80-120	4.41	20	
Surrogate: a,a,a-Trifluorotoluene	40.7		ug/kg	40.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	40.2		"	40.0		100	80-120			

Batch EJ52115 - Solvent Extraction (GC)

Blank (EJ52115-BLK1)

Prepared & Analyzed: 10/21/05

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	47.5		mg/kg	50.0		95.0	70-130			
Surrogate: 1-Chlorooctadecane	43.1		"	50.0		86.2	70-130			

LCS (EJ52115-BS1)

Prepared & Analyzed: 10/21/05

Gasoline Range Organics C6-C12	424	10.0	mg/kg wet	500		84.8	75-125			
Diesel Range Organics >C12-C35	423	10.0	"	500		84.6	75-125			
Total Hydrocarbon C6-C35	847	10.0	"	1000		84.7	75-125			
Surrogate: 1-Chlorooctane	57.8		mg/kg	50.0		116	70-130			
Surrogate: 1-Chlorooctadecane	46.5		"	50.0		93.0	70-130			

Calibration Check (EJ52115-CCV1)

Prepared: 10/21/05 Analyzed: 10/22/05

Gasoline Range Organics C6-C12	487		mg/kg	500		97.4	80-120			
Diesel Range Organics >C12-C35	597		"	500		119	80-120			
Total Hydrocarbon C6-C35	1080		"	1000		108	80-120			
Surrogate: 1-Chlorooctane	58.1		"	50.0		116	70-130			
Surrogate: 1-Chlorooctadecane	56.6		"	50.0		113	70-130			

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

Project: BD Jct. H-35 (Boot)
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
10/26/05 14:59

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 EJ52115 - Solvent Extraction (GC)

Matrix Spike (EJ52115-MS1)

Source: 5J20033-04

Prepared & Analyzed: 10/21/05

Gasoline Range Organics C6-C12	496	10.0	mg/kg dry	575	ND	86.3	75-125
Diesel Range Organics >C12-C35	503	10.0	"	575	ND	87.5	75-125
Total Hydrocarbon C6-C35	999	10.0	"	1150	ND	86.9	75-125
Surrogate: 1-Chlorooctane	59.1		mg/kg	50.0		118	70-130
Surrogate: 1-Chlorooctadecane	45.2		"	50.0		90.4	70-130

Matrix Spike Dup (EJ52115-MSD1)

Source: 5J20033-04

Prepared: 10/21/05 Analyzed: 10/24/05

Gasoline Range Organics C6-C12	504	10.0	mg/kg dry	575	ND	87.7	75-125	1.60	20
Diesel Range Organics >C12-C35	494	10.0	"	575	ND	85.9	75-125	1.81	20
Total Hydrocarbon C6-C35	998	10.0	"	1150	ND	86.8	75-125	0.100	20
Surrogate: 1-Chlorooctane	59.9		mg/kg	50.0		120	70-130		
Surrogate: 1-Chlorooctadecane	49.2		"	50.0		98.4	70-130		

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

Project: BD Jct. H-35 (Boot)
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
10/26/05 14:59

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

COPY

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EJ52501 - General Preparation (Prep)

Blank (EJ52501-BLK1)

Prepared: 10/21/05 Analyzed: 10/24/05

% Solids 100 %

Duplicate (EJ52501-DUP1)

Source: 5J21002-01

Prepared: 10/21/05 Analyzed: 10/24/05

% Solids 71.9 % 71.5 0.558 20

Batch EJ52616 - Water Extraction

Blank (EJ52616-BLK1)

Prepared: 10/25/05 Analyzed: 10/26/05

Chloride ND 0.500 mg/kg

LCS (EJ52616-BS1)

Prepared: 10/25/05 Analyzed: 10/26/05

Chloride 8.39 mg/L 10.0 83.9 80-120

Calibration Check (EJ52616-CCV1)

Prepared: 10/25/05 Analyzed: 10/26/05

Chloride 8.49 mg/L 10.0 84.9 80-120

Duplicate (EJ52616-DUP1)

Source: 5J19002-01

Prepared: 10/25/05 Analyzed: 10/26/05

Chloride 390 10.0 mg/kg 394 1.02 20

Batch EJ52617 - Water Extraction

Blank (EJ52617-BLK1)

Prepared: 10/25/05 Analyzed: 10/26/05

Chloride ND 0.500 mg/kg

LCS (EJ52617-BS1)

Prepared: 10/25/05 Analyzed: 10/26/05

Chloride 8.21 mg/L 10.0 82.1 80-120

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

Project: BD Jct. H-35 (Boot)
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
10/26/05 14:59

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

COPY

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EJ52617 - Water Extraction

Calibration Check (EJ52617-CCV1)

Prepared: 10/25/05 Analyzed: 10/26/05

Chloride	8.37		mg/L	10.0		83.7	80-120			
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Duplicate (EJ52617-DUP1)

Source: 5J21002-03

Prepared: 10/25/05 Analyzed: 10/26/05

Chloride	766	10.0	mg/kg		712			7.31	20	
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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD Jct. H-35 (Boot)
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
10/26/05 14:59

Notes and Definitions

COPY

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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:

Cele D. Keene

Date:

10/26/05

Raland K. Tuttle, Lab Manager

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

Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director

LaTasha Cornish, Chemist

Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

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

YR00

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: BA ICT H-35 (Boat)

Project #:

Project Loc:

PO#

Fax No: 505-397-1471

Sampler Signature:

[illegible]

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Rice Dp

Date/Time: 10/21/05 8:00

Order #: 552100

Initials: CK

COPY

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	1, 0 C
Shipping container/cooler in good condition?	<u>Yes</u>	No	
Custody Seals intact on shipping container/cooler?	<u>Yes</u>	No	Not present
Custody Seals intact on sample bottles?	<u>Yes</u>	No	Not present
Chain of custody present?	<u>Yes</u>	No	
Sample Instructions complete on Chain of Custody?	<u>Yes</u>	No	
Chain of Custody signed when relinquished and received?	<u>Yes</u>	No	
Chain of custody agrees with sample label(s)	<u>Yes</u>	No	
Container labels legible and intact?	<u>Yes</u>	No	
Sample Matrix and properties same as on chain of custody?	<u>Yes</u>	No	
Samples in proper container/bottle?	<u>Yes</u>	No	
Samples properly preserved?	<u>Yes</u>	No	
Sample bottles intact?	<u>Yes</u>	No	
Preservations documented on Chain of Custody?	<u>Yes</u>	No	
Containers documented on Chain of Custody?	<u>Yes</u>	No	
Sufficient sample amount for indicated test?	<u>Yes</u>	No	
All samples received within sufficient hold time?	<u>Yes</u>	No	
VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable

Other observations:

Variance Documentation:

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

Corrective Action Taken:

25 x 30' x 12'

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
CALIBRATION GAS
GAS COMPOSITION: ISOBUTYLENE
AIR
LOT NO: 04-2747
EXP. DATE: 8-1-06
METER READING
ACCURACY: 99.5

SERIAL NO: 104412

100 PPM
BALANCE
FILL DATE: 2-1-05
ACCURACY: +/- 2%

COPY

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
80	(Boot) H-35	H	35	215	37E

SAMPLE	PID RESULT	SAMPLE	PID RESULT
APT 37H 2nd	58.6		
H Well Cap	79.9		
Recessed Soil Blank	62.1		
Btm Pt 1@12'	51.9		
Btm Pt 2@12'	19.1		
Btm Pt 3@12'	135.6		
Btm Pt 4@12'	91.6		
Btm Pt 5@12'	40.8		

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

K. D. Allen
Signature

10-20-05
Date

2008 BTEX Study

Revised Junction Box Upgrade Plan (2003)

System: BD
Site: Jct. H-35 boot

Date: 10/20/2005
Sampler: Kevin Collins

Laboratory: Environmental Lab
of Texas

Location	Component	PID reading (ppm)	FIELD COMPOSITE (mg/kg)			
			Benzene	Toluene	Ethyl Benzene	Total Xylenes
bottom composite at 12 ft BGS	1	51.9	0.962	3.71	3.67	10.04
	2	19.1				
	3	135.6				
	4	91.6				
	5	40.8				
			LAB COMPOSITE (mg/kg)			
			0.349	2.11	3.06	8.61

Field PID tests <100 ppm are considered final for BTEX. If PID is >100 ppm, the components of the BTEX composite sample will be collected individually and will be composited under laboratory conditions to prevent excessive volatilization. A 15-box, 30-sample study will be made to compare field-compositing with lab-compositing BTEX samples. Composite components are collected in a skewed 'W' pattern.

Revised Junction Box Upgrade Work Plan (July 16, 2003)

CHLORIDE CONCENTRATION CURVE

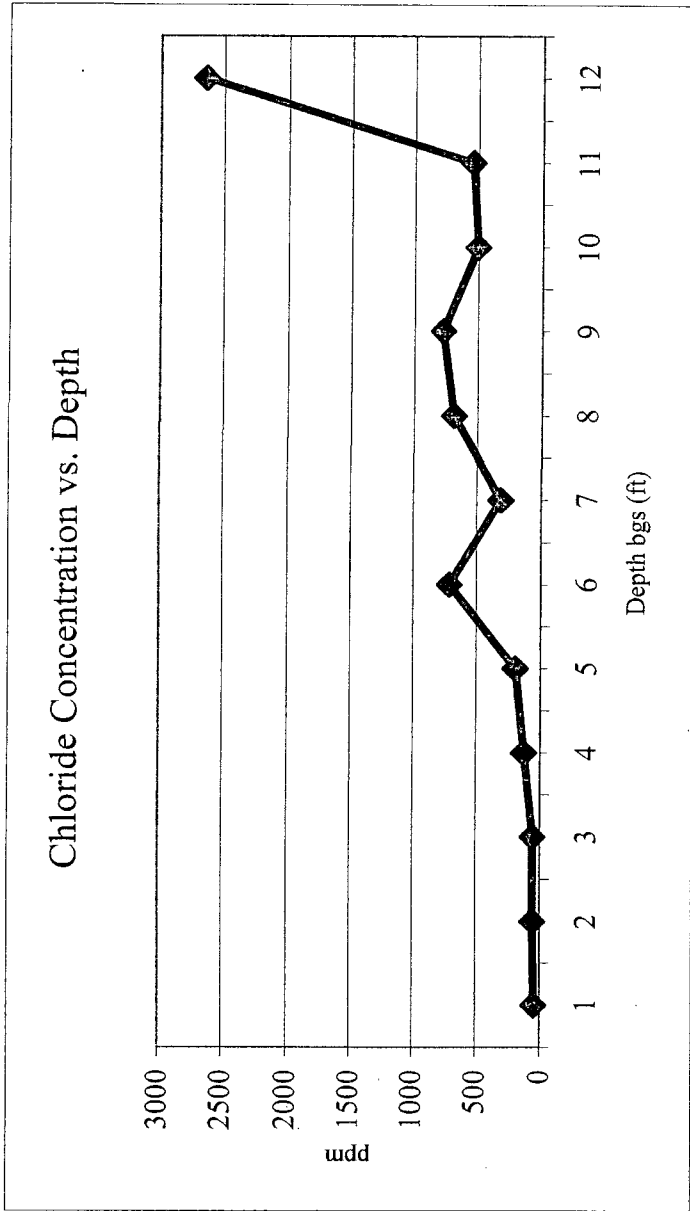
RICE Operating Company

BD Jct. H-35 boot

unit 'H', Sec. 35, T21S, R37E

Backhoe samples at 10 ft north of junction (source)

Depth bgs (ft)	[Cl] ppm
1	47
2	58
3	59
4	128
5	195
6	712
7	312
8	684
9	771
10	502
11	542
12	2642



Groundwater = 44 ft