

1R - 426-292

REPORTS

DATE:

3-29-11

1R426-292

BD Jct. I-25-1

2010

1R426-292
APR -1 2011
San Conservacion D. Nacion
2200 S. St. Francis Ave.
San Francisco, CA 94116

DISCLOSURE

RICE OPERATING COMPANY
JUNCTION BOX DISCLOSURE* REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
Brinebry-Drinkard (BD)	Jct. I-25-1	I	25	21S	36E	Lea	Length	Width	Depth
							eliminated		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER George Brownlee OTHER _____

Depth to Groundwater 148 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20*

Date Started 7/20/2009 Date Completed 9/23/2009 OCD Witness no

Soil Excavated 44.4 cubic yards Excavation Length 10 Width 10 Depth 12 feet

Soil Disposed 120 cubic yards Offsite Facility Sundance Location Eunice, NM

FINAL ANALYTICAL RESULTS: Sample Date 9/29/2009 Sample Depth 25 ft., 100 ft.

TPH and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

Sample Location	PID (field) ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
SB#1 @ 25'	0.0	<10.0	<10.0	4080
SB#1 @ 100'	0.6	<10.0	<10.0	2400

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
Background	6"	179
Soil Bore at former junction box 10 ft. east (source)	15'	2447
	20'	2445
	25'	3644
	30'	3415
	35'	2473
	40'	2963
	45'	1572
	50'	2156
	55'	2910
	60'	2963
	65'	3639
	70'	2213
	75'	2532
	80'	2144
	85'	1583
	90'	2868
	95'	2793
	100'	2531

General Description of Remedial Action: This junction was addressed under the pipeline replacement/upgrade program. After the former box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals producing a 10x10x12-ft deep hole. Each sample was field tested for chlorides and organic vapors. Field chloride tests yielded elevated chloride concentrations that did not relent with depth. The excavated soil was disposed of at a NMOCD approved facility. The excavation was backfilled with clean imported soil to 5 ft. BGS., a 1-ft. thick clay layer shelved 5 ft. in every direction was installed and compaction test performed on 8/06/2009. The remaining excavation was backfilled with clean imported soil contoured to the surrounding area. On 8/12/2009, site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate. To further investigate depth of chloride presence, a soil bore was initiated on 9/29/2009 at 10 ft. east of the former junction box. The borings were advanced to a depth of 100 ft. BGS., while soil samples were collected every 5 ft. and field tested for chlorides and organics. The 25 ft. and 100 ft. samples were sent to a commercial laboratory for analysis of chloride and organics, which confirmed low organics and elevated chloride concentrations. The entire bore hole was plugged with bentonite to the ground surface. NMOCD was notified of potential groundwater impact on 3/08/2010.

* sanitation well located 1000 ft. northwest

ADDITIONAL EVALUATION IS HIGH PRIORITY

enclosures: photos, soil bore log, lab analysis, compaction results, PID (field) screenings, cross-section, chloride curve

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

SITE SUPERVISOR Jordan Woodfin SIGNATURE Jordan Woodfin COMPANY RICE OPERATING COMPANY

REPORT ASSEMBLED BY Larry Bruce Baker Jr. INITIAL LBB

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE Larry Bruce Baker Jr. DATE 3-29-11

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

BD Junction I-25-1

Unit I, Section 25, T21S, R36E



Delineation trench at former junction box

7/20/2009



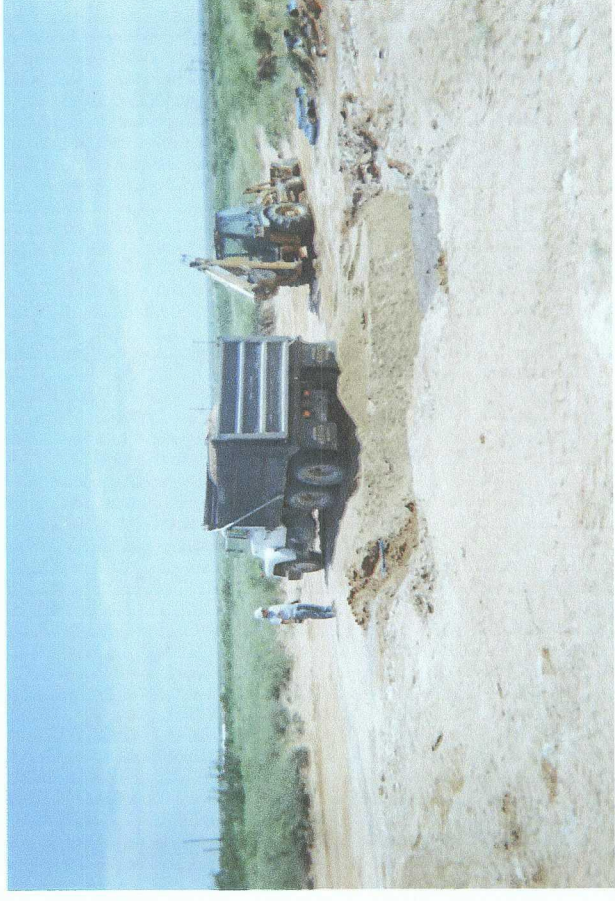
Compaction test

8/06/2009



Clay liner complete

8/06/2009



Backfilling excavation

8/06/2009

BD Junction I-25-1

Unit I, Section 25, T21S, R36E



Seeding excavation

8/06/2009




Soil bore # 1

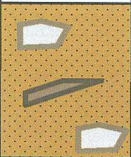
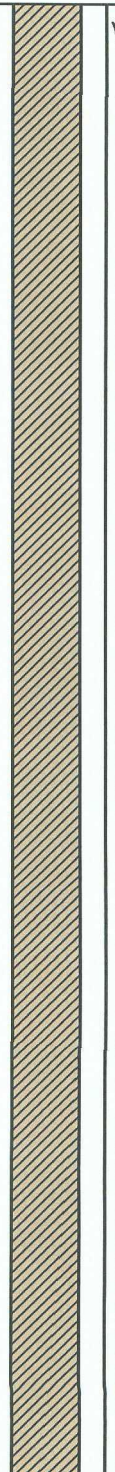
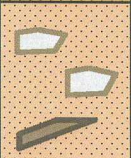
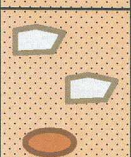

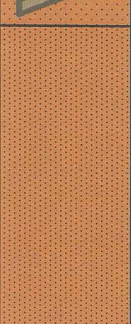
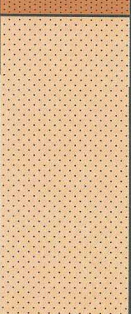

9/29/2009



Plugging bore with bentonite

9/29/2009

Logger:	Lara Weinheimer			
Driller:	Harrison & Cooper, Inc. Drilling			
Consultant:	None - junction box upgrade plan			
Drilling Method:	Air rotary			
Start Date:	9/29/2009			
End Date:	9/29/2009			
Comments: All samples from cuttings. Located 10 feet east of the former junction box site. Drafted by: Lara Weinheimer TD = 100 ft Estimated depth to GW = 148				Project Name: BD jct. I-25-1 Well ID: SB #1 Location: UL/I sec. 25 T21S R36E Lat: N32°26'49.194" County: Lea Long: W103°12'41.222" State: NM

Depth (feet)	chloride field tests	LAB	PID	Description	Lithology	Well Construction
				10 - 15 ft VERY FINE TO FINE SAND, CALICHE, SANDSTONE light brown, slightly moist, no odor		
15	2447		0			
				15 - 20 ft VERY FINE TO FINE SAND, CALICHE, SANDSTONE light orangey brown, slightly moist, no odor		
20	2445		0			
				20 - 25 ft VERY FINE TO FINE SAND, CALICHE, CONSOL. ROCK light orangey brown, slightly moist, no odor		
25	3644	Cl-4080	0			
		GRO <10.0		25 - 30 ft VERY FINE TO FINE SAND, CALICHE, SANDSTONE orangey brown, slightly moist, no odor		
		DRO <10.0				
30	3415		0			
				30 - 40 ft VERY FINE TO FINE SAND orangey brown, dry, no odor		
35	2473		0			
40	2963		0			
				40 - 50 ft VERY FINE TO FINE SAND light orangey brown, dry, no odor		
45	1572		0			
50	2156		0			
				50 - 60 ft VERY FINE TO FINE SAND; SANDSTONE light brown, dry, no odor		
55	2910		0			

Depth (ft)	Grain Count	Moisture (%)	Notes
60	2963	0	60 - 70 ft VERY FINE TO FINE SAND light brown, dry, no odor
65	3639	0	
70	2213	0	70 - 90 ft VERY FINE TO FINE SAND orangey brown, very slightly moist, no odor
75	2532	1	
80	2144	0.7	90 - 100 ft VERY FINE TO FINE SAND light orangey brown, dry, no odor
85	1583	0	
90	2868	1.1	
95	2793	0.3	
100	2531	0.6	



ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: HACK CONDER
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (575) 397-1471

Receiving Date: 10/01/09
Reporting Date: 10/05/09
Project Owner: NOT GIVEN
Project Name: BD JCT I-25-1
Project Location: BD JCT I-25-1

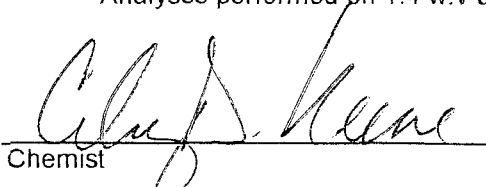
Sampling Date: 09/29/09
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: AB/HM

LAB NUMBER	SAMPLE ID	GRO	DRO	CI*
		(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	
		(mg/kg)	(mg/kg)	(mg/kg)

ANALYSIS DATE	10/02/09	10/02/09	10/01/09
H18375-1 SB#1 @ 25'	<10.0	<10.0	4,080
H18375-2 SB#1 @ 100'	<10.0	<10.0	2,400
Quality Control	507	535	500
True Value QC	500	500	500
% Recovery	101	107	100
Relative Percent Difference	4.3	2.8	<0.1

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

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


Chemist


Date

COPY

H18375 TCL RICE

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

Company Name: Rice Operating Company				P.O. #:				ANALYSIS REQUEST			
Project Manager: Hack Conder				Company:				BTEX			
Address: 122 West Taylor				Attn:				TPH 8015 M			
City: Hobbs				State: NM Zip: 88240				Chlorides			
Phone #: 393-9174				Address:				Texas TPH			
Project #:				City:				BTEX			
Project Name: BD jct I-25-1				State: Zip:				TPH 8015 M			
Project Location: BD jct I-25-1				Phone #:				Chlorides			
Sampler Name: Lara Weinheimer				Fax #:				TPH 8015 M			
FOR LAB USE ONLY				PRESERV				SAMPLING			
Lab I.D.				MATRIX				DATE TIME			
Sample I.D.				GROUNDWATER				7-24-04 8:50			
H18375-1				WASTEWATER				7-24-04 9:46			
-2				SLUDGE				7-24-04 9:46			
				OIL				7-24-04 9:46			
				SOIL				7-24-04 9:46			
				ACID/BASE				7-24-04 9:46			
				ICE / COOL				7-24-04 9:46			
				OTHER:				7-24-04 9:46			
				# CONTAINERS				7-24-04 9:46			
				(G)RAB OR (C)OMP				7-24-04 9:46			

Relinquished By: L. Weinheimer **Date:** 7-25-04

Relinquished By: **Date:** 7-25-04

Delivered By: (Circle One) **Checked By:** *[Signature]*

Sampler - UPS - Bus - Other: **Initials:** *[Signature]*

REMARKS: email results

Phone Result: ☐ Yes ☒ No **Add'l Phone #:**

Fax Result: ☐ Yes ☒ No **Add'l Fax #:**

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

NEED SAMPLES BACK, PLEASE

RICE OPERATING COMPANY

122 West Taylor ~ Hobbs, NM 88240

PHONE: (575) 393-9174 FAX: (575) 397-1471

PID METER CALIBRATION & FIELD REPORT FORM

CK
MODEL
NO.

✓

MODEL: PGM 7300

SERIAL NO: 590-000183

MODEL: PGM 7300

SERIAL NO: 590-000508

MODEL: PGM 7600

SERIAL NO: 110-12383

MODEL: PGM 7600

SERIAL NO: 110-02920

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 924908924908	EXPIRATION DATE: 7-29-2012
FILL DATE: 7-30-09 7-30-09	METER READING ACCURACY: 99.9

ACCURACY: +/- 2%

SYSTEM	SITE	UNIT	SECTION	TOWNSHIP	RANGE
BD	94 I-25-1	I	25	F36 T215	R36E

SAMPLE ID: soil bore #1

DEPTH	PID
15'	0
20'	0
25'	0
30'	0
35'	0

DEPTH	PID
65'	0
70'	0
75'	1.0
80'	0.7
85'	0

DEPTH	PID

DEPTH	PID

DEPTH	PID
40'	0
45'	0
50'	0
55'	0
60'	0

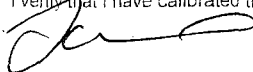
DEPTH	PID
90'	1.1
95'	0.3
100'	0.6

DEPTH	PID

DEPTH	PID

I verify that I have calibrated the above instrument in accordance to the manufacture's operation manual.

Signature



Date

7-29-09

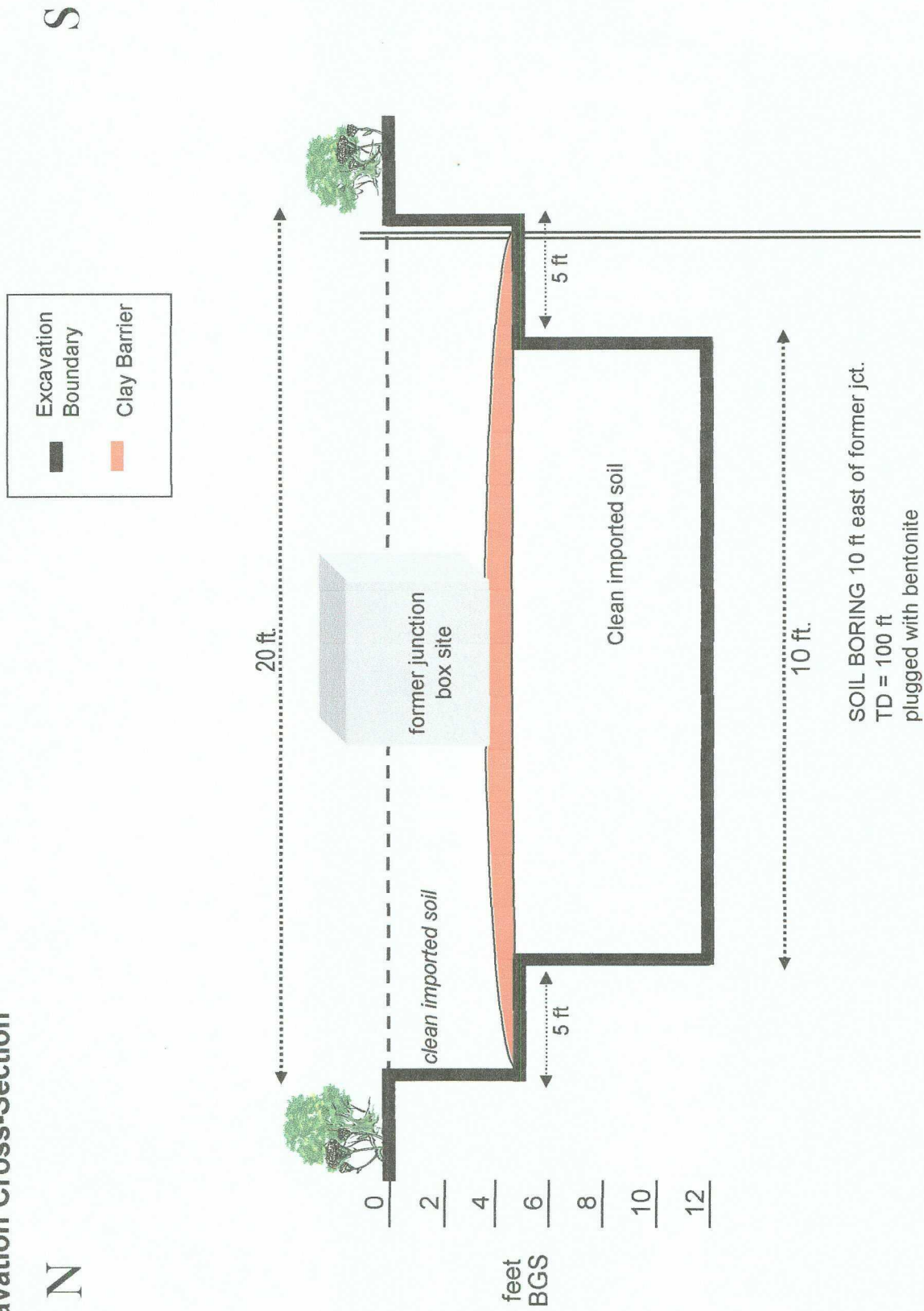
SITE MAP



COPY

BD Junction I-25-1
Unit 'I', Sec. 25, T21S, R36E

Excavation Cross-Section





LABORATORY TEST REPORT
PETTIGREW & ASSOCIATES, P.A.

1110 N. GRIMES
HOBBS, NM 88240
(575) 393-9827



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

To: Rice Operating Company
Attn: Bruce
122 W. Taylor
Hobbs, NM 88240

Material: Cooper Red Clay

Project: General Information
BD - JCT I-25-1
Project No. 2008.1069

Test Method: ASTM: D 2922

Date of Test: August 6, 2009

Depth: See Below

Depth of Probe: 6"

Test No.	Location	Dry Density		Depth
		% Max	% Moisture	
SG 17	Pit - 15' W. & 40' S. of NE Corner	92.5	16.6	FSG

COPY

Control Density: 100.4
ASTM: D 698

Optimum Moisture: 21.6%

Required Compaction: 90 - 95%

Densometer ID: 5071

Lab No.: 09 4694-4696

PETTIGREW & ASSOCIATES

Copies To: Rice Operating

BY: Erica M. Hart

BY: William M. Hicks, III P.E.

CHLORIDE CONCENTRATION CURVE

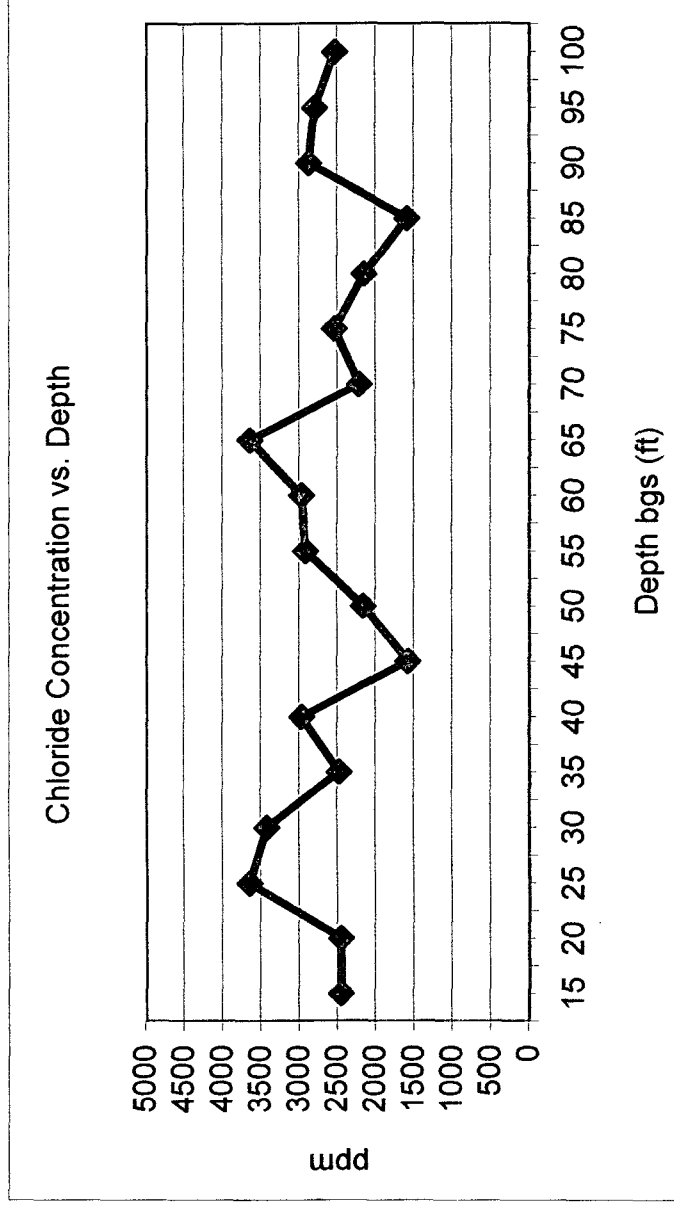
RICE Operating Company

BD Junction I-25-1

Unit 'I', Sec. 25, T21S, R36E

Soil bore 10' east of former junction box

Depth bgs (ft)	[Cl ⁻] ppm
15	2447
20	2445
25	3644
30	3415
35	2473
40	2963
45	1572
50	2156
55	2910
60	2963
65	3639
70	2213
75	2532
80	2144
85	1583
90	2868
95	2793
100	2531



Groundwater = 148 ft.