## 1R-426-202

## REPORTS

DATE

1-27-09

BD Jct C-4-2

18426-252

RECEIVED

Missi 7 5 - 446 Environment contra

Oil Conservation Marsion

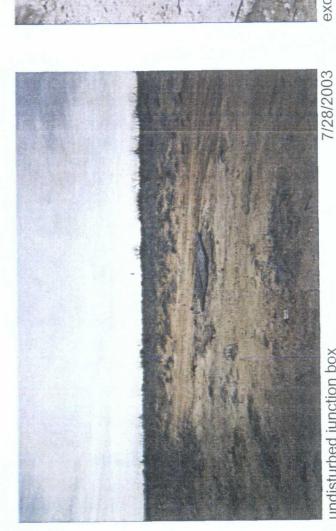
DISCILOSURIE

## RICE OPERATING COMPANY JUNCTION BOX DISCLOSURE\* REPORT

BOY LOCATION

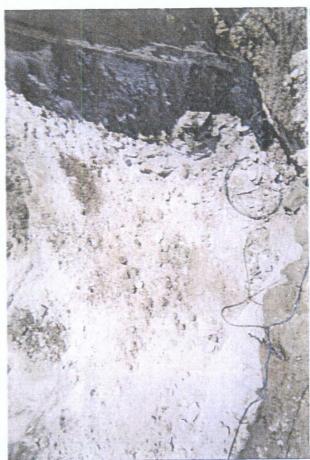
SWD SYSTEM JUNCTION UNIT SECTION TOWNSHIP RANGE COUNTY BOX DIMENSIONS - FEET									
Blinghay Deinkard							Length:	Width	Depth
(BD)	t. C-4-2	С	4	T22S	R37E	Lea		eliminated	
LAND TYPE: BLM	ST	ATE	FEE LA	NDOWNER	Prisc	illa We	stOTHER		
Depth to Groundwater 95 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10									
Date Started         4/24/2007         Date Completed         11/1/2007         OCD Witness         no									
Soil Excavated 400 cubic yards Excavation Length 30 Width 30 Depth 12 feet									
Soil Disposed 24 cubic yards Offsite Facility Sundance Location Eunice, NM									
5/29/2007, 5/30/2007,         5/29/2007, 5/30/2007,           5/29/2007, 5/30/2007,         Sample Depth         12 ft, 85 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.									
Sample	PID (field)	GRO		DRO	Chlorides		LOCATION	DEPTH	mg/kg
Location 4-WALL COMP.	99m 3.2	mg/kg <25.0	+	mg/kg 33.6	mg/kg 1,620				
BOTTOM COMP.	1.5	<25.0		34.8	2.290		4-wall comp.	n/a 12'	1,595
BLENDED BACKFILL	1.5	26.9		30.4	1.280	_	bottom comp.	n/a	1,877
<u> </u>		20.0		,			<del></del>	6"	1,448
SOIL BORING #1 85' grab 672 background 6" 224									
General Description of Remedial Action: This junction box was eliminated during 20' 2,894									
the pipeline replacement/upgrade program. After the former junction box was removed, an 25' 843									
vielded elevated concentrations that did not relent with depth. Organic vapors were  40' 1,079									
massured using a PID, which yielded low concentrations. Representative compasts.									
measured using a PID. which yielded low concentrations. Representative composite #1 at the 45' 1.188									
samples were sent to a commercial laboratory for analysis of chloride and TPH, which former junction 50' 1,549 confirmed elevated chloride concentrations. The excavated soil was blended on site with (source) 55' 1,799									
10/31/2007									
clean imported soil and returned to the excavation up to 6 ft below ground surface (BGS).  1,356									
At 6-5 ft BGS, a 1-ft-thick clay barrier was installed. The remaining fill was used to backfill  65' 1,253  the excevation and clean imported soil was used as a ton can and to contour to the									
the excavation and clean, imported soil was used as a top cap and to contour to the 70° 1,119 surrounding area. On 6/18/2007, the site was seeded with a blend of native vegetation and 75° 1,125									
is expected to return to a pro-								80'	1,125
placed on the surface above							ļ -	85'	1.045 829
<u> </u>	<del></del>					<del></del>		65	029
To further investigate depth of chloride presence, four soil borings were initiated on 10/31/2007 and 11/1/2007. Soil borings #1 and #2 were advanced to a depth of 85 ft BGS, soil boring #3 was advanced to a depth of 60 ft									
10/31/2007 and 11/1/2007. Soil borings #1 and #2 were advanced to a depth of 85 ft BGS, soil boring #3 was advanced to a depth of 60 ft BGS, and soil boring #4 was advanced to a depth of 50 ft BGS. Soil samples were collected every 5 ft and field tested for chlorides. The									
BGS, and soil boring #4 was advanced to a depth of 50 it BGS. Soil samples were collected every 5 ft and field tested for chlorides. The deepest sample from each soil boring was sent to a commercial laboratory for analysis of chloride, which confirmed elevated concentrations.									
deepest sample from each soil boring was sent to a commercial laboratory for analysis of chloride, which confirmed elevated concentrations.  Each borehole was plugged with bentonite to the ground surface. NMOCD was notified of potential groundwater impact on 1/9/2009.									
ADDITIONAL EVALUATION IS HIGH PRIORITY									
enclosures: photos, cross-section, lab results, boring log									
enclosures; photos, cross-section, lab results, boring log									
HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY									
KNOWLEDGE AND BELIEF.  SITE SUPERVISOR Noel Carmona SIGNATURE COMPANY RICE OPERATING COMPANY									
REPORT ASSEMBLED BY K	atie Jones	INIT	AL	KJ					
PROJECTI FADER Large	Bruce Baker I	SIGNATH	RE À	/an P	auca L	ri kët :	h. 0475	1.27	-09
PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE Have Bound for Signature Bound for DATE 1-27-09  This site is a "DISCLOSURE." It will be placed on a prioritized list of similar sites for further consideration.									

## **BD Jct. C-4-2** Unit C, Section 4, T22S, R37E



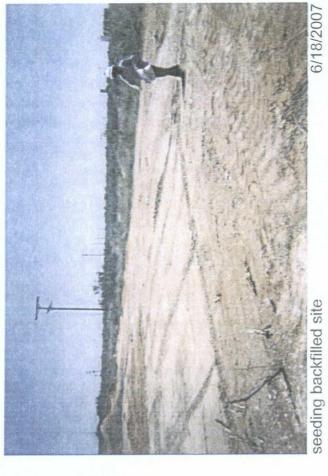
undisturbed junction box

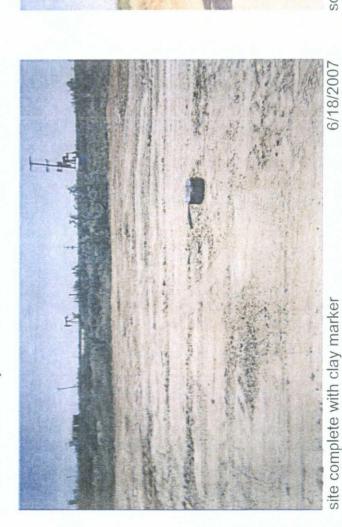
Page 1 of 2

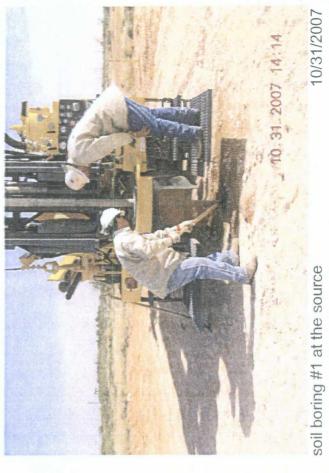


excavation at former junction site



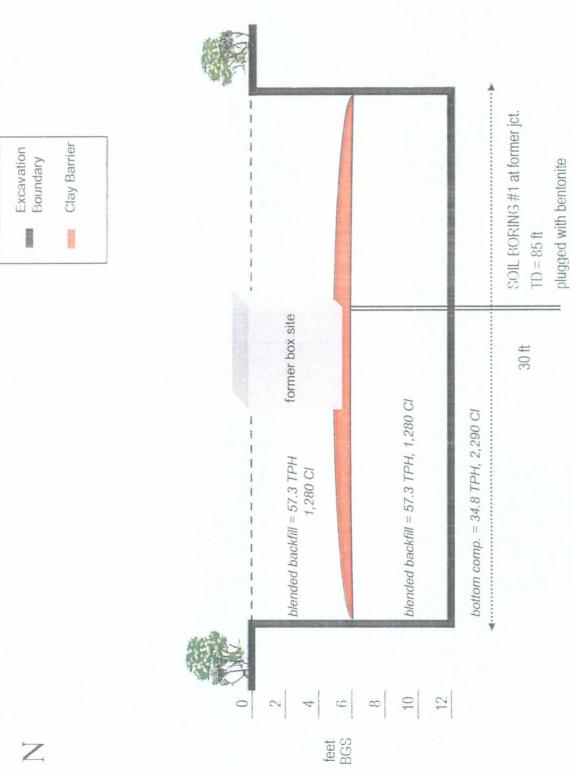






## **Excavation Cross-Section**

S





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

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

HICE OPERATING HOSBS, NIA

Sampling Date: 05/29/07, 05/30/07

Sample Type: SOIL

(mg/Kg)

Sample Condition: COOL & INTACT

CI\*

(mg/Kg)

Sample Received By: AB Analyzed By: LB/AB

Receiving Date: 05/30/07 Reporting Date: 06/01/07 Project Number: NOT GIVEN Project Name: B.D. JCT. C-4-2 Project Location: NOT GIVEN

> GRO DRO (C<sub>6</sub>-C<sub>10</sub>) (>C<sub>10</sub>-C<sub>28</sub>)

> > (mg/Kg)

LAB NUMBER SAMPLE ID

7 1. BY

ANALYSIS DATE 05/31/07 05/31/07 05/31/07 H12676-1 4 WALL COMP. @ 30x30 <25.0 33.6 1620 H12676-2 BTTM. 5 PT. COMP @12' <25.0 34.8 2290 H12676-3 BLENDED BACKFILL 26.9 30.4 1280

Quality Control 898 974 480 True Value QC 1000 1000 500 89.8 97.4 % Recovery 96 7.6 Relative Percent Difference 5.0 4.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CIT: Std. Methods 4500-CITB \*Analyses performed on 1:4 w:v aqueous extracts.

Chemist

Date

6/1/07

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES, INC.
2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
13251 673-7001 Fax (325) 673-7020 (505) 393-2326 Fax (605) 393-2476

(323) 97 3-1001 FBX (329) 973-1020	(505) 393-2326 FBX (605) 393-2476	Page of
#1.60 () PR	BILL TO	ANALYSIS REQUEST
Project Manager: 1/C V / C.Sc. 1	P,O.#;	
Address: 122 (2) Tayler	Company:	- ((
CITY: 4.6665 State: A.M. 21p: \$ 82 40	Attn:	
Phone #: 505) 383-9174 Fax#: 505/ 387-1471	Address:	
Project #: Project Owner:	City;	
Project Name: 23.D Jote C-4-2	State: Zlp:	- Control of the cont
Project Location:	Phone #:	7.5
Sampler Name: Lock Cormove	子 A X A Y	
FOR LAB USE CHLY	K PRESERV. SAMPLING	\\ \tau_{-1}^{\text{\tint{\text{\tint{\text{\text{\text{\text{\text{\text{\text{\text{\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\text{\texi}\text{\text{\text{\text{\text{\text{\text{\texi}\text{\texitt{\text{\text{\text{\texi}\text{\text{\texi}\text{\text{\text{\text{\text{\texi{\text{\texi{\texi}\text{\titt}\\\ \ti}\titt}\tittt{\text{\texi}\text{\text{\texi}\text{\texi}\text{\ti
Lab I.D. Sample I.	тинев: Соог Сорувье: Тучек: Тучек:	-1:2 8 HJL
	7 53007	35.
-2 Btin Sottomo @ 12. O. 1		7
-3 Henderd Back Cil Coll W		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
is Cardinal's hibility and clent's sciousne remedy for any claim arising his wedgence and my other cause whichsower that be desemble when devised med by the forest moderned method means that may be defined with the control to the c	chief based in confract of (ett, shall be limited to the amount paid by the electrification for the is mindre and received by Cardwall within 30 days after competent of the applicable Memority as of use, of level of points kernardow by delet, the abidististic for the substance of the state of the substance of the shall be seen for the state of the state	Terms and Conditions; Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoke, and all costs of colections, including attorney's Res.
	Phone Result	
Time:	Fax Result: REMARKS:	D Yes D N
Reilinquished By:	The man	11/ Prescourt alolving
Twee C	٠	
Sampler - UPS - Bus - Other:	2	

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to (325) 673-7020.



## 

ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: KRISTIN POPE 122 WEST TAYLOR HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 11/07/07 Reporting Date: 11/08/07 Project Number: NOT GIVEN Project Name: BD JCT. C-4-2 Project Location: BD JCT. C-4-2



NOV 1 2 2007

PICE OPERATING
HOBBS NM

Analysis Date: 11/07/07

Sampling Date: 10/31/07 & 11/01//07

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: SB

Analyzed By: HM

05

LAB NO.	SAMPLE ID	(mg/kg)
H13659-1 H13659-2	SB #2 20' W OF SOURCE @ 85' SB #3 20' E OF SOURCE @ 60'	176 816
H13659-3	SB #4 20' N OF SOURCE @ 50'	160
H13659-4	SB #1 20' AT SOURCE @ 85'	672
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent	Difference	< 0.1

METHOD: Standard Methods

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

Chemist

Date

4500-CIB

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	e: Rice Operating Company	01 71/8		ANAL	ANALYSIS REQUEST
Project Manage	Project Manager: Kristin Pope	P.O.#:			
Address: 122	Address: 122 West Taylor	Company:			
City: Hobbs	State: NM Zip: 88240	Attn:			
Phone #: 393-9174	9174 Fax #: 397-1471	Address:		2	
Project #:	Project Owner:	City:	S		
Project Name:	30 Jet 6-4-2	State: Zip:	әр		
Project Location:		Phone #:	inb		
Sampler Name:	كهيمة فيطريه وليا	Fax #:	0		
FOR LAB USE ONLY		PRESERV. SAI	SAMPLING		
Lab I.D.	Sample I.D. (G)RAB OR (C)OMP. GGOUNDWATER GROUNDWATER SOIL SOIL	SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE	DATE TIME		
11136591	-		7 218 Co		
2,	3 #3 20' E of 1600 C 6 1 0	Cc: 1-11	7 20.01 To		
~;	SEBU 20'N St 13 DRE 8 50' 5" 1	C 6/1-11	27 11: acy 6		
73	35 HI CA SOURS @ 85' 6'	(215-0)	37:1 6		
	0.05.50				

PLEASE NOTE: Libbility and Demages. Cardinal's liability and client's exclusive remedy for any dalm anising whether based in contract or crisial be limited to the amount paid by the closh of the amy start course whatebover shall be deemed waked unless made in writing and processed by Cardinal within 30 days after compelsion of the special course with a supplicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, Jass of use, or profits incurred by client, its subaldiaries.

Relinquished By: / Received	Date: Received	ved By:	Phone Result:   Ves   Add'l Phone #:
	11-7-07		Fax Result:   Ves   Add'l Fax #:
Lara Weinheimer	Time:		REMARKS:
Relinquished By:	Date: Received	ved Bv:	email results
	Time: Sue B	Barn=11/07/07 11:05	
Delivered By: (Circle One)		Sample Condition CHECKED BY:	- kpope@riceswa.com; Jpurvis@riceswa.com;
(Sampler) UPS - Bus - Other:		Cool Intact (Initials)	Lweinheimer@rice.swd.com
		No No OO	

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

	Logger:		Lara Weinheimer	Client:	Well ID:
	Driller:		Harrison & Cooper Drilling	RICE Operating Company	
Drilli	ng Method:		Split spoon & Air Rotary	Project Name:	7
	Start Date:		10-31-07	BD jct. C-4-2	
	End Date:		10-31-07	Location:	S8 - 1
Comm				BD SWD System	30-1
	ocated at th	e sour	ce of former junction site	-	. [
	TD = 85 ft		GW = 89 ft	unit 'C' Sec.4 T22S, R37E Lea County, NM	
Depth	chloride		Description of the control of the co		oil Bore
(feet)	field tests	PID	Description	Lithology Co	nstruction
			12 - 15 ft		
			VERY FINE TO FINE SAND		
15	1077	0.8	reddish-brown, dry, no odor		
			15 - 20 ft		
ļ			VERY FINE TO FINE SAND		
20	2894	1	yellowish-orange, dry, no odor		
	0.40	0.0			
25	843	0.9			
<b></b>			COP		
30	3078	0.4			
30	3070	0.4			
-					
35	853				
-55	000				
40	1079				1
			20 - 75 ft		
			VERY FINE TO FINE SAND		
45	1188		yellowish-orange, dry, no odor		
- <u>-</u> -					bentonite
50	1549				seal
<del>  </del>					
	4700				]
55	1788		•		11
<b></b>					
60	1356				1)
65	1253				
			_		
70	1119				
	4405		75 20 5		
75	1125		75 - 80 ft		1)
<u> </u>			VERY FINE TO FINE SAND		
80	1045		light brown, dry, no odor		
- OU	1045				
					11.
85	829				
00	020				<u></u>

•