1R. 425-8

## REPORTS

## DATE:



1R425-80

#### Vac Jct C-31-2 2009

RECEIVED

APR 15 2014 Environmental 4 1944 Oil Conservation 7 4 19

4

### DISCLOSURE

#### PR - 6 2019

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

Environmental Bureau Dil Conservation Division

Oil	Conservation	Division

				BOX LOCA	TION _					
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DI	MENSIONS	- FEET	
		-		1.70			Length	Width	Dep	h
Vacuum	Jct. C-31-2	С	31	1/5	35E	Lea		eliminated		
BOX LOCATION     SWD SYSTEM   JUNCTION   UNIT   SECTION   TOWNSHIP   RANGE   COUNTY   BOX DIMENSIONS - FEET     Vacuum   Jct. C-31-2   C   31   17S   35E   Lea   Length   Width   Depth     LAND TYPE:   BLMSTATE_X   FEE LANDOWNER  OTHER   OTHER     Depth to Groundwater   100   feet   NMOCD SITE ASSESSMENT RANKING SCORE:   20     Date Started  6/3/2008   Date Completed   6/19/2009   OCD Witness   no     Soil Excavated    6.7   cubic yards   Excavation   Length   Judth										
Depth to Grour	ndwater	100	feet	NMOCE	SITE ASS	ESSMENT F	RANKING S		20	
Date Started	6/3/2	2008	Date Co	mpleted	6/19/2009	OCD V	Vitness	n	<b>.</b>	
Soil Excavated	6.7	cubic yar	ds Exc	avation Le	ngth 5	Width _	3	Depth	12	feet
Soil Disposed	0	cubic yar	ds Of	fsite Facility	n	la	Location		n/a	

#### FINAL ANALYTICAL RESULTS:

Sample Date 6/4/2008; 6/19/2009 Sample Depth 12 ft; 15 ft, 40 ft, 60 ft

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

Sample Location	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Total Xylenes mg/kg	GRO mg/kg	DRO mg/kg	Chloride mg/kg
SOURCE 12' GRAB		PID (fie	eld) = 847.0		452	4,760	320
SB #1 15' GRAB	<0.050	<0.050	<0.050	<0.300	<10.0	645	1,880
SB #1 40' GRAB					<10.0	<10.0	3,120
SB #1 60' GRAB			· · · · ·	4	<10.0	<10.0	2,280

General Description of Remedial Action: This junction was addressed during the Vacuum SWD System Abandonment. An investigation was conducted at the former junction box site using a backhoe to collect soil samples at regular intervals creating a 5x3x12-ft excavation. Chloride field tests were performed on each sample which yielded some elevated concentrations. Organic vapors were measured using a PID which also yielded elevated concentrations. The deepest sample, 12 ft BGS, was sent to a commercial laboratory for analysis of chloride and TPH. Laboratory analysis confirmed elevated concentrations of DRO, but lower concentrations of GRO and chloride. The excavated soil was returned to the excavation to ground surface and contoured to the surrounding area. To further investigation depth of TPH presence, a soil bore was initiated at the former junction box site on 6/19/2009. The boring was advanced to a depth of 60 ft BGS with soil samples collected at 5 ft intervals. Chloride field test performed on each sample yielded elevated concentrations. The 15 ft, 40 ft, and 60 ft samples were sent to a commercial laboratory for analysis of chloride and TPH. Laboratory analysis confirmed elevated concentrations of chloride but low concentrations of TPH. The entire bore hole was plugged with bentonite to the ground surface. NMOCD was notified of potential groundwater impact on 11/11/2009 ADDITIONAL EVALUATION IS HIGH PRIORITY

enclosures: photos, lab results, PID (field) screenings, boring log, chloride curve

#### CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg		
	5'	573		
	6'	825		
vertical	7'	1,183		
delineation	8'	483		
junction	9'	737		
(source)	10'	3,198		
	11'	627		
	12'	646		
	15'	1,391		
	20'	3,890		
	25'	3,299		
SOIL BORING	30'	3,660		
at the former	35'	3,231		
(source)	40'	3,050		
6/19/2009	45'	2,460		
	50'	2,411		
	55'	2,533		
	60'	2,584		

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

SITE SUPERVISOR	Roy Rascon	SIGNATURE		not available		COMPANY	RICE OPERATING COMPANY
REPORT ASSEMBLED BY	Katie Jones	INITIAL_	2				
PROJECT LEADER	Larry Bruce Baker Jr.	SIGNATURE	Larry	Burce	Bederf	DATE_	11-12-09
	*This site is a "DISCLOSU	OE "It will be a	ارز ماہم میم امموما				

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

Vacuum Jct. C-31-2

Unit C, Section 31, T17S, R35E





6/4/2008



6/19/2009

6/19/2009



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: ROY R. RASCON 122 W. TAYLOR HOBBS, NW 88240 FAX TO: (575) 397-1471

UNE E LUNG FILLE OFFICE ALLING FUCES, INM

CI\*

(mg/kg)

Receiving Date: 06/04/08 Reporting Date: 06/10/08 Project Owner: NOT GIVEN Project Name: NOT GIVEN Project Location: VAC JCT. C-31-2



GRO

 $(C_6 - C_{10})$ 

(mg/kg)

Sampling Date: 06/04/08 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: CK/AB

DRO

(>C<sub>10</sub>-C<sub>28</sub>)

(ma/kq)

LAB NUMBER SAMPLE ID

ANALYSIS DATE	06/05/08	06/05/08	06/05/08
H14926-1 VERT @ SOURCE @ 12' BGS GRAB	452	4,760	320
Quality Control	497	573	490
True Value QC	500	500	1 500
% Recovery	99.4	115	98.0
Relative Percent Difference	1.6	0.7	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIE \*Analysis performed on a 1:4 w:v aqueous extract.

Telint

#### H14926TCL 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 thiny (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.

R					CHAIN-	OF-CU	STODY AND ANALYSIS REQUES	<u> </u>	
AN AN	MAAL LABORATORIES 2111 Beechwood, Abilene, TX 79603 1 (325) 673-7001 FAX (3353674-7020) 6505	01 East Marland, Hobb 1 203-2326 EAX (205)	98, NM 88240 101-2476						r
Company Name:	RICE OPERATING CO.		BILLTO				ANALYSIS REQUEST	والمعدادة المتشفية فعطر المتلمجينيين	·
Project Manager:	ROY R. RASCON	and the second se	P.O. #:					Electric sear land in the second	THE R PROPERTY OF
Address: 122 WE	ST TAVLOR		Company:						
City: HOBBS	State: NM Zip	88240	Attn:						
Phone #: (505) 39.	<b>3-9174</b> Fax #: (505) 397-147	1	Address:				((		
Project #:	Project Owner:		City:						
Project Name:			State: Zip:						
Project Location:	VAC JCT C-31-2		Phone #:						
upler Name: F	OY R. RASCON	and and a second se	Fax #:					<u></u>	
	· d	MATRIX	PRESERV. SAMPI	FING	-			2	
FOR LAB	(C)0W	RER ATER TER							
USE ONLY LAB ID #	O)KYB OK	LUDGE MASTEWAT OIL OIL OIL	ЦНЕИ : CE \ COOF CID\BYZE: LHEK :	A L	сг- С.Б.Н 8012 (А	STEX		<b></b>	
1110-21-1		3 0 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				æ			THE REPORT OF THE PARTY OF THE
1-071 LIH	vert @ source @ 12'bgs grab G	1 X	X 6/4/2008	1145	XX				
					_				
					_			- 1999 - 1997	
analyses, All claims service. In no event affiliates or success	Lightlift and Damages. Cardinal's liability and cl is including those for neellgence and any other car is shall cardinal be liable for incidental or conseat ors arising out of or related to the nerformores of	cuf's exclusive remedy f ise whatsoever shall be of ental dumages, includin	or any claim arising wheth leemed waived unless mad 2 without limitation. busine	er based in con le in writing and ess interruptions	ract or tor I received S. loss of u	t. shall ( hv Card se. or lo	ic limited to the amount paid by the cli- inal within 30 days after completion of sof profits incurred by client, its subs	en Tor the the applicable idiaries.	
Relinquished By:	$\frac{1}{6} = \sqrt{-\partial \beta}   \frac{1}{6} = \sqrt{-\partial \beta}   \frac{1}{6}$	cived By		Phone Results Fax Result:	N Y Y		01 HE APOYS SIALED TEASORS OF OTHERXU No  Add'  Phone #: No  Add'  Fax #:		The provide state of the state
Relinquished By:	Laston Time 4:03 V	ailed R.	Qut	4			•		
	Time:			REM	ARK		PLEASE E-MAIL	TO jpu	SIA.I
Delivered By: (C	ircle One)	Sample Conditi Cool, Intact	on CHECKED BY:		-C1		ascon@riceswd.co		******
Sampler - UYS -	Bus - Uther:	Ves Les							

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

1

	Logger:	<u> </u>	Lara Weinheimer	Client:	Well ID:
	Driller:	۲ <u>ــــــــــــــــــــــــــــــــــــ</u>	larrison & Cooper, Inc. Drilling	RICE Operating Compa	zy
Drillin	g Method:		Air rotary	Project Name:	
	Start Date:	ļ	6-19-09	Vacuum jct. C-31-2	
	End Date:		6-19-09	Location:	SB - 1
Comm	ents:			VACUUM SWD Syste	em
	Locate	ed: 1 ft no	orth of former jct. box site		
				JUNICO Sec.31 1175, R	.30E
Death		<u> </u>			
(feet)	field	PID	Description	Lithology	Construction
			0 - 15 ft		
			VERY FINE TO FINE SAND		
15	1391	82	calliche, light brown, dry		
	(1001	3,811-10	· · · · · · · · · · · · · · · · · · ·		
	1000 BTE <0.05	URU × 545			
	X <0.03	ļ			
20	3890	5.1	15 - 30 ft		
			VERY FINE TO FINE SAND		
			light brown, slightly moist		
25	3299				
	0200				
30	3660				
35	3231		30 - 45 ft		
			VERY FINE TO FINE SAND		bentonite
			reddish-brown, slightly moist		seal
40	3050				
LAB	3120	890 kro 080 kro			
45	2460				
			45 - 50 ft		
			VERY FINE TO FINE SAND		
	2444		light brown. drv		
	2411		50 - 55 8		A A
		]			
55	2533		quanzite, reddish-brown, slightly moist		
			55 - 60 ft		
			VERY FINE TO FINE SAND		
60	2584		reddish-brown, mcist		
LAB	2260	GRU PU DRUKIU		·······	······································



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

Receiving Date: 06/23/09 Reporting Date: 06/24/09 Project Owner: NOT GIVEN Project Name: VACUUM JCT C-31-2 Project Location: VACUUM JCT C-31-2



Sampling Date: 06/19/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: AB/HM

LAB NUMBER SAMPLE ID

		GRU
Cl*	(>C <sub>10</sub> -C <sub>28</sub> )	(C <sub>6</sub> -C <sub>10</sub> )
(mg/kg)	(mg/kg)	(mg/kg)

ANALYSIS DATE	02/10/09	02/10/09	06/23/09				
H17688-1 SB #1 @ 15'	<10.0	645	1,880				
H17688-2 SB #1 @ 40'	<10.0	<10.0	3,120				
H17688-3 SE #1 @ 60'	<10.0	<10.0	2,280				
		, f					
Quality Control	590	600	490				
True Value QC	500	500	500				
% Recovery	118	120	98.0				
Relative Percent Difference	1.6	1.0	2.0				

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. Not accredited for GRO/DRO and Chloride.

Chemist

16/26/09

#### H17688 TOL RICE

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or lort, shall be limited to the amount paid by client for analyses. All claums, 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



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

Receiving Date: 06/23/09 Reporting Date: 06/26/09 Project Owner: NOT GIVEN Project Name: VACUUM JCT C-31-2 Project Location: VACUUM JCT C-31-2 Sampling Date: 06/19/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: ZL

ETHYL TOTAL

LAB NO. SAMPLE ID

BENZENE TOLUENE BENZENE XYLENES (mg/kg) (mg/kg) (mg/kg) (mg/kg)

ANALYSIS DATE:	06/25/09	06/25/09	06/25/09	06/25/09
H17688-1 SB#1@15'	<0.050	<0.050	<0.050	<0.300
Quality Control	0.057	0.055	0.057	0.171
True Value QC	0.050	0.050	0.050	0.150
% Recovery	114	110	114	114
Relative Percent Difference	3.8	3.9	3.8	4.4

METHODS: BTEX - SW-846 8021B

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES. Reported on well weight.

Lab Director

06/26/09

Date

#### H17688 B 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 profils 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.

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

•

.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	TO ANALYSIS REQUEST		(					T T	> 	AMPLING	ATE	<i>q</i> , <i>cs y y y y y y y y y y</i>	20-2 H:B	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		aout per la destace de la constant d aout post de la comptetione un de peter, ils substants	Phone Result: Yes Y No Atid'l Phone #:   Fax Result: I Yes I. No   REMARKS: I Yes I. No	journs e rise such can	Y. Lueiner & "	lobacker and it
2111 Beechwood, Abilene, TX 796 (325) 673-7001 FAX (325)673-7020	17718	P.O. #:	Company:	: Attn:	Address:	City:	State: Zip:	Phone #:	Fax #:	MATRIX PRESERV SA	# CONTRINERS GROUNDWATER WASTEWATER SOIL SUDGE SLUDGE OTHER : COOL OTHER : OTHER : OTHER : OTHER : DTHER :			2		In airsing whether based in contrast of the limited by the annual strain of the strain	ceived By:	ceived By:	Sample Condition CHECKED B)	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
RDINAL LABORATORIES       101 East Marland, Hobbs, NM 88240       (505) 393-2326 FAX (505) 393-2476	Koc	" Hack Conder		State: Zip	Fax #:	Project Owner:	Vacuum jet C- 31-2	" Vacuum 1ct C-31-2	Lara Weiner		G)вев ов (с)омр (с)ве I.D.	58 #1 @ 15' (5	20 HI & 40' 0	54 W & 60' &		d Damagas. Cardinal's liability and citant's arclusive temesh for any clai g drose for negligence and any other cares vitalsoever shall be deemer aviante fable for integication or concessuremand analoges including vithou g dro vir elabate on the performance of services bareument. No Cardinal vision of the section of the performance of services bareument. No Cardinal	1: [ Date: Re	Time:	(Circle One)	- Bus 、Other:
R AI	Company Name	Project Manage	Address:	City:	Phone #:	Project #:	Project Name:	Project Location	Sampler Name:	FOR LAB USE ONLY	Lab I.D.	1-17685-1	. 2	50		PLEASE NOTE: Liability ar analyses. All claims includi service. In no event shall C amitates or successors arisu	Relinquished B	Relinquished Br	Delivered By	Sampler - UPS

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

		RICE OF 122 V PHONE: (5 PID METER C	ERATIN Vest-Taylor ~ 1 575) 393-9174 ALIBRATION	NG COM Hobbs, NM 882 FAX: (575) 39 & FIELD REPO	PANY 140 17-1471 DRT FORM				
CK MODEL NO.		MODEL: PGM MODEL: PGM MODEL: PGM MODEL: PGM	1 7300 SEI 1 7300 SEI 1 7600 SEI 1 7600 SEI	RIAL NO: 590-00 RIAL NO: 590-00 RIAL NO: 110-12 RIAL NO: 110-02					
LOT NO FILL DA ACCURA	TE: CY: +/- 2%	JAS COMPOSITION: 1 0ξ - 34 25 2.2ξ-04	EXPIRATION METER RE	100PPM / AIR: B DN DATE: ADING ACCUF	ALANCE <u>(i-</u> RACY:	1 100, D	]		
SYST	EM	SITE jur (-31-2		SECTION 31		VSHIP S	RAN R3.	RANGE R35E	
SAMPL DEPTH 15' 20'	E ID: PID & 2 S.1	Spil base 4		DEPTH	PID	DEPT	·H	PID	
	PID		PID	DEPTH	PID	DEPT	<u>'H</u>	PID	
Signature		regin that I have calibrated the r	above instrument in a	ccordance to the manufa	cture's operation	manuai. 6 -19 -09			
SITE MAP								N	

## Vacuum Jct. C-31-2

Unit 'C', Sec. 31, T17S, R35E

Backhoe and Soil Bore samples at the junction (source)

[CI] ppm	573	825	1,183	483	737	3,198	627	646	1,391	3,890	3,299	3,660	3,231	3,050	2,460	2,411	2,533	2,584
Depth bgs (ft)	5	9	7	ω	6	10	11	12	15	20	25	30	35	40	45	50	55	60



Groundwater = 100 ft