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REPORTS

DATE:



BD Jct L-30-2 2009

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18426-257

DISCLOSURE

RECEIVED

RICE OPERATING COMPANY JUNCTION BOX DISCLOSURE* REPORT

APP - 5 2000

12 ft

				BOX LOCAT	TION		E C	nvironm	ental ou	กรอน	
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX-D	MENSIONS	FEET I)	Uibiou	
Blinebry-Drinkard	4-4 4 00 0	_	20	216	375	1.00	Length 6'	Width 8	Depth 3'		
(BD)	JCt. L-30-2	Ŀ,	30	215	376	Lea	eliminated				
LAND TYPE:	3LM	STATE	FEE LA	NDOWNER	Nymey	er Properties	OTHER				
Depth to Grour	ndwater	148	feet	NMOCD	SITE ASS	ESSMENT F	RANKING SO	CORE:	10		
Date Started	3/16/	2007	Date Cor	mpleted	4/19/2007		Vitness	0)		
Soil Excavated	177.8	cubic ya	rds Exc	avation Ler	ngth <u>20</u>	Width	20	Depth	<u>12</u> f	eet	
Soil Disposed	42	cubic ya	rds Off	fsite Facility	Sunc	lance	Location_	Euni	ce, NM		

3/23/2007

Chlorides

mg/kg

1,470

3,900

928

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.

GRO

mg/kg

<10.0

<10.0

<10.0

PID (field)

ppm

65.6

9.6

9.8

Sample Date

DRO

mg/kg

168

146

128

FINAL ANALYTICAL RESULTS:

Sample

Location

4-WALL COMP

BOTTOM COMP.

BLENDED BACKFILL

CHLORIDE FIELD TESTS

Sample Depth

LOCATION	DEPTH	mg/kg		
4-wall comp.	n/a	1656		
bottom comp. blended backfill	12 ft	3695		
blended backfill	n/a	866		
background	6"	60		
	15'	1,793		
	20'	2,404		
	25'	1,520		
	30'	1,192		
	35'	1,062		
SB # 2 at 20 ft	40'	1,020		
east of the	45'	865		
junction	50'	966		
(4/19/2007)	55'	1,412		
	60'	1,660		
	65'	2,343		
	70'	2,072		
	75'	1,901		
	80'	2,124		

General Description of Remedial Action: This junction was eliminated during the pipeline replacement/upgrade program. After the former junction box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals producing a 20x20x12-ft excavation. Chloride field tests performed on each sample yielded elevated concentrations. Organic vapors were measured using a PID which yielded low concentrations. Representative composite samples were sent to a commercial laboratory for analysis of chloride and TPH. The excavated soil was blended on site and returned to the excavation up to 6 ft below ground surface (BGS). At 6-5 ft BGS, a 1-ft thick clay barrier was installed. The remaining fill was returned to the excavation and clean, imported soil was used as a top cap and to contour the site to the surrounding area. An identification plate was placed on the surface at the former junction site to mark the presence of clay below. On 4/4/2007, the 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, two soil bores were initiated on 4/19/2007 at 15 ft north and 20 ft east of the former junction box. The borings were advanced to a depth of

80 ft BGS while soil samples collected every 5 ft and field tested for chlorides. The 70 ft sample from each boring was sent to a commercial laboratory for analysis of chloride which confirmed elevated concentrations. The entire bore hole was plugged with bentonite to the ground surface. NMOCD was notified of potential groundwater impact on 2/19/2010.

ADDITIONAL EVALUATION IS MEDIUM PRIORITY

enclosures: photos, lab results, boring log, cross-section, chloride curve

IHERE	EBY CERTIFY THAT T	HE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.	
	Noel Carmona	SIGNATURE COMPANY _ RICE OPERATING COMPANY	Y
REPORT ASSEMBLED BY	Katie Jones		
PROJECT LEADER	Larry Bruce Baker Jr.	SIGNATURE Lang Benece baher for DATE 2-25-10.	
*This		It will be placed on a prioritized list of similar pitos for further consideration	

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



BD Jct. L-30-2 Unit L, Section 30, T21S, R37E



drilling SB #2, 20 ft east of source

4/19/2007

4/19/2007

drilling SB # 1, 15 ft north of source

Page 2 of 2

ARDINAL ABORATORIES

PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

20 × 20 × 12 A

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



Receiving Date: 03/28/07 Reporting Date: 03/30/07 Project Number: NOT GIVEN Project Name: NOT GIVEN Project Location: B.D. JCT L-30-2



Sampling Date: 03/23/07 Sample Type: SOIL Sámple Condition: COOL & INTACT Sample Received By: LB Analyzed By: BC/HM

	DRO	GRO	
CI*	(>C ₁₀ -C ₂₈)	(C ₆ -C ₁₀)	
(mg/Kg)	(mg/Kg)	(mg/Kg)	

LAB NUMBER SAMPLE ID

ANALYSIS [DATE	03/29/07	03/29/07	03/29/07
H12395-1	5 PT BTTM COMP	<10.0	146	3900
H12395-2	4 WALL COMP	<10.0	168	1470
H12395-3	BLENDED BACKFILL	<10.0	128	928
Quality Cont	rol	783	791	490
True Value (20	800	800	500
% Recovery		98.9	97.9	98.0
Relative Per	cent Difference	1.3	0.4	1.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI^{*}: Std. Methods 4500-CI^{*}B *Analyses performed on 1:4 w:v aqueous extracts.

Bul endicate

H12395

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shull 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, whithout limitation, business interruptions, loss of use, or loss of profits incurred by client, its subschartes 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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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AF	PINAL LABORATORIES, IN	ci			
	2111 Beachwood, Abilene, TX (325) 673-7001 Fax (325) 67	79603 101 East Marland, Hob 3-7020 (505) 393-2326 Fax (60	ba, NM 88240 5) 393-2476		. In obed
Сотрану Name:	VIII CONTRACTOR AND	$\langle V \rangle$	BILL TO	ANALY	'SIS REQUEST
Project Manager:	Par Kateo ac		P.O. #:		
Addreas; [1]	UN TENLOR		Company:		
CILVE LEGE L	State: [] E	1 ZIP: S & 2 4 D	Attn:		
Phone #:	- 1 L' L' Fax #: 3 D	1441-6	Addreas:		· · · · · · · · · · · · · · · · · · ·
ŕrojact #:	Project Owns	C:	City:		
Projact Name:			State: ZIp:	Ĺ	
Project Location:	5.1) 30 T L-30-2		Plione #:	27	
Sampler Hame: 🖌) // /////////////////////////////////		Fax #:	لي أو الم	
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Lab I.D.	Sample I.D.	, то со	ТНЕК : CID/BASE: E / COOL THER : 7	- / j 5 - / d. i 1	
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r (. 1	Rended PACKFUL		3 23 676		
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 Γ Cardinal cannot accept verbal changes. Please fax wrlften changes to (325) 673-7020.

20'East GOP

SOIL BORE DATA SHEET												
SYSTEM	SYSTEM: BD LOCATION: L-30-2 LANDOWNER:Beverly Shaw/Attorney in Fact											
DGW: 100ft GPS: 32*26.842N 103*92.545W SB/MWID: SB #2												
UL L SEC. 30 TOWNSHIP 21S							RANGE 37E					
DEPTH(ft) SOIL WATER RATIO AGNO, CI PID TIME						SAMPLE DESCRIPTION						
15	10.1	30.7	3 04	0.59	1793	N/A	12:00	Medium red dirf				
20	10.1	30.2	2 80	0.86	2404	N/A	12:04	Medium red dirt				
25	10.5	30.7	2.92	0.52	1520	N/A	12::08	Medium red dirt				
30	10.3	30.7	2.98	0.4	1192	N/A	12:10	Medium red dirt				
35	10.4	30.7	2.95	0.36	1062	N/A	12:12	Medium red dirt				
40	10.5	30.6	2.91	0.35	1020	N/A	12:15	Medium red dirt				
45	10.4	30	2.88	0.3	865	N/A	12:39	Medium red dirt				
50	10.3	31.1	3.02	0.32	966	N/A	12:41	Medium red dirt				
55	10.8	30.5	2.82	0.5	1412	N/A	12:44	Medium red dirt				
60	10.3	30	2.91	0.57	1660	N/A	12:48	Medium red dirt				
65	10.8	30.5	2.82	0.83	2343	N/A	1:00	Medium red dirt				
żo	10.4	30.8	2.96	0.7	2072	N/A	1:02	Medium red dirt				
75	10.8	30.2	2.80	0.68	1901	N/A	1:05	Medium red dirt				
80	10.3	30.4	2.95	0.72	2124	N/A	1:08	Medium red dirt				
TD @ _	80	ft.										
NOTES:												
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				<u>-</u> .								
			• <u>-</u>									
	17 1 1 1											
SIGNAT			Darnll N	litchell		DATE:		4/19/2007				

15' North

SOIL BORE DATA SHEET										
SYSTEM	: 8D			LOCAT	ION: L	30-2		LANDOWNER: Beverly Shaw/attorney in fact		
DGW: 10	0ft	GPS: 3	82*26.84	2N 10:	3*92.545	W		SB/MW ID: SB #1		
UL L SEC. 30 TOWNSHIP 21S						RANGE 37E				
DEPTH(ft)	SOIL	WATER	RATIO	AgNO ₃	CI	PID		SAMPLE DESCRIPTION		
15	10.6	30.2	2.85	1.3	3703	N/A	9:16	Medium red dirt		
20	10.7	30.3	2.83	1.33	3765	N/A	9:20	Medium red dirt		
25	10.5	30.6	2.91	1.07	3117	N/A	9:24	Medium red dirt		
30	10.9	30.9	2.83	0.9	2551	N/A	9:26	Medium red dirt		
35	10.8	30.7	2.84	0.92	2614	N/A	9:28	Medium red dirt		
40	10.9	30.6	2.81	0.89	2498	N/A	9:30	Medium red dirt		
45	10.7	30.3	2.83	0.89	2519	N/A	10:10	Medium red dirt		
50	10.7	30.6	2.86	0.95	2716	N/A	10:12	Medium red dirt		
55	10.8	30.3	2.81	1.2	3366	N/A	10:14	Medium red dirt		
60	10.1	30.8	3.05	1.07	3262	N/A	10.18	Medium red dirt		
65	10.4	30.7	2.95	1.28	3777	N/A	10.36	Medium red dirt		
70	10.6	30.8	2.91	0.93	2701	N/A	10.38	Medium red dirt		
75	10.3	30.7	2.98	0.7	2086	N/A	10:40	Medium red dirt		
80	10.5	30.3	2.89	0.7	2019	N/A	10:45	Medium red dirt		
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TD@	80	ft.	A	<u> </u>	-		<u></u>			
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SIGNAT	URE:	1	Darnell N	Aitchell	· · · · · · · · · · · · · · · · · · ·	DATE:		4/19/2007		

BD Jct. L-30-2 Unit 'L', Sec. 30, T21S, R37E

Excavation Cross-Section

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5

CHLORIDE CONCENTRATION CURVE

RICE Operating Company

BD JCt. L-30-2 Unit 'L', Sec. 30, T21S, R37E

Soil Boring samples at 20 ft east of the junction (source)

													in to me	
[CI] ppm	1793	2404	1520	1192	1062	1020	865	996	1412	1660	2343	2072	1901	2124
Depth bgs (ft)	15	20	25	30	35	40	45	50	55	60	65	70	75	80

Groundwater = 148 ft

