1R - 426-1

REPORTS

DATE:



BD Jct B-1 (3 boxes) 2009

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RECEIVED

Anna Anna

Environmenial Buleau Oil Conservation Division

18426-256

DISCLOSURE

RECEIVED

 $\Delta PP - 6 2010$ RICE OPERATING COMPANY JUNCTION BOX DISCLOSURE* REPORT Environmental Bureau Oil Conservation Division BOX LOCATION SWD SYSTEM JUNCTION UNIT SECTION TOWNSHIP RANGE COUNTY BOX DIMENSIONS - FE Depth Blinebry Jct. B-1 anoth в 1 225 36E Lea Drinkard (BD) (3 boxes) moved 30 ft east LAND TYPE: BLM STATE FEE LANDOWNER _____Nymeyer Properties _____OTHER ____ Depth to Groundwater 137 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20 6/26/2009 Date Completed 9/28/2009 OCD Witness Date Started no 533.3 cubic vards Excavation Length: 30 Width 40 Depth 12 feet Soil Excavated 240 cubic yards Soil Disposed Offsite Facility _____ Sundance _____ Location ____Eunice, NM

FINAL ANALYTICAL RESULTS:

7/10/2009, 7/13/2009, Sample Date 7/24/2009, 9/28/2009

Sample Depth _____12 ft, 25 ft, 115 ft

CHLORIDE FIELD TESTS

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.

Location	ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
4-WALL COMP.	22.5	<10.0	17.4	3,840
BOTTOM COMP.	65.8	<10.0	482	2,600
BLENDED BACKFILL BELOW CLAY	69.6	<10.0	617	2,240
BLENDED BACKFILL ABOVE CLAY		<10.0	<10.0	<16
SB #1 @ 25'	0.8	<10.0	<10.0	4,640

SB #1 @ 115' 0.0 <10.0 <10.0 576 General Description of Remedial Action: These junction boxes were addressed during the pipeline replacement/upgrade program. After the former junction boxes were removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals producing a 30x40x12-ft deep excavation. Chloride field tests were performed on each sample and yielded elevated concentrations that did not relent with depth. Organic vapors were measured using a PID which yielded some elevated concentrations. The excavated soil was blended on site with clean, imported soil. Representative composite samples were collected from the blended excavated soil, the bottom of the excavation, and the excavation walls. Laboratory analysis of the representative samples confirmed elevated concentrations of chloride. The blended excavated soil was returned to the excavation up to 5 ft below ground surface (BGS). At 5-4 ft BGS, a 1-ft thick clay barrier was installed with a compaction test performed on 7/16/2009. The remaing backfill was blended with clean, imported soil and used to backfill the excavation to ground surface and to contour to the surrounding area. A new, watertight junction box was built 30 ft east of the former. On 9/9/2009, 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, a soil bore was initiated on 9/28/2009 at 8 ft west of the former junction boxes. The boring was advanced to depth of 115 ft BGS with soil samples collected every 5 ft and field tested for chloride and organic vapors. Laboratory analysis of the 25 ft and 115 ft samples confirmed elevated concentrations of chloride that decreased with depth and low

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	2558
bottom comp.	12'	2839
blended backfill below clay	n/a	1766
blended backfill above clay	n/a	n/a
background	6"	177
	15'	2636
	20'	4574
	25'	4618
	30'	3027
	35'	1985
	40'	2028
	45'	2260
	50'	2178
	55'	2124
SB #1 at 8 ft	60'	1998
west of the	65'	1823
(9/28/2009)	70'	1859
(,	75'	1264
	80'	1363
	85'	1121
	90'	1228
	95'	1292
	100'	1623
ĺ	105'	960
	110'	841
	115'	723

concentrations of TPH. The entire bore hole was plugged with bentonite to the ground surface. NMOCD was notified of potential groundwater impact on 2/26/2010.

ADDITIONAL EVALUATION IS HIGH PRIORITY

enclosures: photos, boring log, lab results, PID (field) screenings, cross-section, compaction test, chloride curve

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

SITE SUPERVISOR	Eric Garrison	SIGNATURE	not available	COMPANY	RICE OPERATING COMPANY
REPORT ASSEMBLED BY	Katie Jones	INITIAL_	K)		
PROJECT LEADER	Larry Bruce Baker Jr.	SIGNATURE	Lany Bruce Baherp	. DATE	3-8-10

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





clay compaction test

7/28/2009

backfilling the excavation, facing west

7/16/2009





plugging SB #1 with bentonite









Drill	Logger: Driller: Consultant: ing Method: Start Date:		Har None	Lara Weinheimer rison & Cooper, Inc. Drilling a - junction box upgrade plan Air rotary 9/28/2009	QUE OPER	ATTING COMPANY
End Date: 9/28/2009			Project Name:	Well ID:		
Comments: All samples from cutting			from cu	uttings. Bruce Baker and Darnell	BD jct. B-	1 SB #1
Locate	d 8 ft west of	the form	ner jun	ction box sites Estimated Depth to GW = 137 ft	Lat: N32°25'35	.205" County: Lea
Depth	chloride	LAB	PID	Description	Lithology	Well Construction
(Teet)	Tield tests				0.2555555555555	
					0	
15	2636		4.8	10 - 25 ft		
				VERY FINE TO FINE SAND		
				WITH CONSOL BOCK	00	
					0_	
20	4574		1.9	light brown, dry, slight hydrocarbon odor		
					O	
				and the second s	O	
25	4618	CI- 4840	0.8		O	
20	4010	GRO	0.0			
		<10.0 DRO		(\bigcirc)		
		<10.0				
30	3027		0.1			
0.5	1005		0			
35	1985		0	25 55 f		
<u></u>				25 - 55 1		
				VERY FINE TO FINE SAND		
40	2028		0.5	orangey-brown, dry, no odor		
	• •			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
1-	00000	-				
45	2260		0.1	and the first sector		
	-					
50	2178		0			
	_					
55	2124		0			

60	1998		0	55 - 70 ft VERY FINE TO FINE SAND WITH SANDSTONE ROCK light orangey-brown, dry, no odor		bentonite seal
70	1859		0.4		0	
75	1264		0			
80	1363		0			
				70 - 110 ft		
85	1121		0	orange, slightly moist, no odor		
90	1228		0			•
95	1292		0			
100	1623		0			
105	960		0.2			
110	841		0			
		CI- 576 GRO		110 - 115 ft		
		<10.0 DRO		VERY FINE I'U FINE SAND		
115	723	<10.0	0	iight brown, very slightly moist, no odor)

Page 2 of 3







AMALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: HACK CONDER 122 W. TAYLOR HOBBS, NM 83240 FAX TO: (575) 397-1471

Receiving Date: 09/28/09 Reporting Date: 09/30/09 Project Owner: NOT GIVEN Project Name: BD JCT 8-1 Project Location: BD JCT 8-7



Sampling Date: 09/28/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB/HM

GRO DRO (C₆-C₁₀) (>C₁₀-C₂₈) CI* (mg/kg) (mg/kg) (mg/kg)

LAB NUMBER SAMPLE (D

ANALYSIS DATE	09/29/09	09/29/09	09/29/09
H18356-1 SE #1 @ 25'	<10.0	<10.0	4,640
H18356-2 S8 #1 @ 115	<10.0	<10.0	576
·			
Quality Control	509	505	500
True Value QC	500	500	500
% Recovery	102	101	100
Relative Percent Difference	0.6	1.6	<0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB *Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight.

29/30/09

Date

H18356 TOL RICE

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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† 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



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MODEL: PGM	7300
MODEL: PGM	7300
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MODEL: PGM	7600

SERIAL NO: 590-000183 SERIAL NO: 590-000504 SERIAL NO: 110-12383 SERIAL NO: 110-02920

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	GAS COMPOSITION	: ISOBUTY	LENE 100PPM / AIR:	BALANC	E
LOT NO:	924908	EXPIR	RATION DATE:	7.2	9-2012
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ACCURACY: +/- 2	%				

SECTION TOWNSHIP RANGE SYSTEM SITE UNIT В T225 R 76E ict B-1 ßð

SAMPLE ID:

5B +1

PID DEPTH PID DEPTH PID DEPTH DEPTH PID 4.8 15' 1051 115' 0.1 \hat{D} 70' 20' 19 0.4 25 751 0 0.8 3.0' 50' 0.1 Ο 35' 45' 0 D DEPTH DEPTH PID DEPTH PID PID DEPTH PID 90' 40' 05 Ċ. 95 451 0.1 O 50' 1001 Û 0 55' D 105' 0.2 0 601 110' \mathcal{O} Lyprify that I have calibrated the above instrument in accordance to the manufacture's operation manual.

9-28-09

N

Date

Signature

SITE MAP



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: ERIC GARRISON 122 W. TAYLOR HOBBS, NM 88240

Receiving Date: 07/10/09 Reporting Date: 07/13/09 Project Number: NOT GIVEN Project Name: BD JCT B-1 Project Location: BD JCT B-1



GRO

DRO

(mg/kg) (mg/kg) (mg/kg)

 $(C_6 - C_{10})$ (> $C_{10} - C_{28}$)

Sampling Date: 07/10/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB/HM

CI*

LAB NUMBER SAMPLE ID

ANALYSIS	DATE	07/11/09	07/11/09	07/13/09
H17783-1	5PT BTTM @ 12'	<10.0	482	2,600
H17783-2	4 WALL COMP @ 30X40	<10.0	17.4	3,840
Quality Cont	rol	598	598	490
True Value.C	20	500	500	500
% Recovery		120	120	98.0
Relative Per	cent Difference	19.6	18.3	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB *Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight.

Chemist

H17783 TOL RICE

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PHONE (5175) 393-2326 . 101 E. MARLAND . HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: ERIC GARRISON 122 W. TAYLOR HOBBS, NM 88240

Receiving Date: 07/13/09 Reporting Date: 07/16/09 Project Number: NOT GIVEN Project Name: BD-JCT B-1 Project Location: BD-JCT B-1



Sampling Date: 07/13/09 Sample Type: SOIL Sample Condition: INTACT Sample Received By: ML Analyzed By: AB/HM

GRO		
$(C_6 - C_{10})$	(>C ₁₀ -C ₂₈)	C!*
(mg/kg)	(mg/kg)	(mg/kg)

000

LAB NUMBER SAMPLE ID

ANALYSIS DATE	07/14/09	07/14/09	07/14/09
H17802-1 BLENDED BACKFILL	<10.0	617	2,240
Quality Control	588	592	490
True Value QC	500	500	500
% Recovery	118	118	98.0
Relative Percent Difference	6.4	5.6	2.0

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

H17802 TOL RICE

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ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: ERIC GARRISON 122 W. TAYLOR HOBBS, NM 88240

Receiving Date: 07/24/09 Reporting Date: 07/28/09 Project Number: NOT GIVEM Project Name: BD JCT B-1 Project Location: BD JCT B-1

Sampling Date: 07/24/09 Sample Type: SO/L Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB/HM

LAB	NUM	BER	SAMP	LE ID
-----	-----	-----	------	-------

GRO	DRO	
(C [:] ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	CI*
(ma/ka)	(mg/kg)	(mg/kg)

ANALYSIS DATE	07/27/09	07/27/09	07/27/09
H17868-1 BLENDED BACKFILL	<10.0	<10.0	<16
Quality Control	533	586	490
True Value QC	500	500	500
% Recovery	107	117	98.0
Relative Percent Difference	19.4	4.5	2.0

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

Second surrogate out of historical limits due to matrix interference.

Criemis

H17863 TOL RICE

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RICE OPERATING COMPANY

122 West Tayor Hobbs, NM 88240

PHONE: (575) 393-9174 FAX: (575) 397-1471 PID METER CALIBRATION & FIELD REPORT FORM



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Model: PGM 7300 Se Model: PGM 7300 Se Model: PGM 7300 Se

Serial No: 590-000183 Serial No: 590-000508 Serial No: 590-000504 Model: Model: Model:

Model: PGM 7600 Model: PGM 7600 Model: PGM 7600 Serial No: 110-023920 Serial No: 110-013744 Serial No: 110-013676

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 2 1 1 1 1 1	EXPIRATION DATE:	713-69
FILL DATE: CONTRACTOR NO	METER READING ACCURACY:	<u></u>

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
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SAMPLE ID	PID	SAMPLE ID	PID
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	<u></u>		

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

SIGNATUE:

DATE: / / ---









Excavation Boundary

Clay Barrier

ENCLIPE SUBJECT	LABORATORY TES PETTIGREW & ASS 1110 N. GR HOBBS, NM (575) 393-9	ST REPORT OCIATES, P.A MES 88240 827	A .	AASHTO R18 DEBRA P. HICKS, P.E./L.S.I. WILLIAM M. HICKS. III, P.E./P.S.					
То:	Rice Operating Company Attn: Bruce 122 W. Taylor	Material: C	Cooper Red Clay						
	Hobbs, NM 88240	Test Method:	ASTM: D	2922					
Project:	General Information Project No. 2008.1069								
Date of Test:	July 16, 2009	Depth:	See Belo	W					
		Depth of Probe:	6"						
Test No.	Location	Dry Density % Max	% Moisture	Depth					
SG 16	BD - JCT B-1 - 15' E. & 65' S. of NW Corner of Junction Box	90.7	17.8	5' Below Surface					

COPY

RECENED

AUG 062009 HICE OPERATING HOBBS, NM

Optimum Moisture: 21.6%

Densometer ID: 5357 PETTIGREW & ASSOCIATES

BY: <u>Grich Mehant</u> BY: <u>Gran</u> P.E.

Control Density:	100.4 ASTM: D 698

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Required Compaction: 90 - 95%

Lab No.: 09 4444-4445

Copies To: Rice Operating

CHLORIDE CONCENTRATION CURVE

RICE Operating Company

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BD JCt. B-1 Unit 'B', Sec. 1, T22S, R37E

SOIL BORE samples at 8 ft west of the junction (source)

[[CI]]ppm	2636	4574	4618	3027	1985	2028	2260	2178	2124	1998	1823	1859	1264	1363	1121	1228	1292	1623	960	841	703
Depth bgs (ft)	15	20	25	30	35	40	45	50	55	60	65	20	75	80	85	06	95	100	105	110	115



