1R-427-356

### REPORTS

DATE:

1-28-11

/R427-34

EME Jct. H-32 2010

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#### CLOSURE

#### RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

				BOX LOCA	ATION					
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DI	MENSIONS	- FEET	
Eunice Monument	Jct. H-32	Н	32	19S	37E	Lea	Length	Width	Dep	th
Eumont (EME)	JCI. H-32		52	195	37	Lea		Eliminated		
LAND TYPE: B	BLM	STATE	FEE LA	NDOWNER	I	rwin Boyd				
Depth to Groun	dwater	31	feet	NMOC	D SITE AS	SESSMENT	RANKING S		20	
Date Started	7/26/	2010	Date Cor	npleted	7/26/2010		Witness	no		
Soil Excavated	0.0	cubic yar	ds Exc	avation Le	ngthC	Widt	n0	Depth	0	_feet
Soil Disposed	0	cubic yar	ds Off	fsite Facility		n/a	Location	ŗ	1/a	
AL ANALYTI	CAL RE	SULTS:	Samp	le Date	7/26/20	10	Sample De	pth	<u>12 ft</u>	

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

Sample	PID (field)	GRO	DRO	Chloride	CHLORI	DE FIELD TE	STS
Location	ppm	mg/kg	mg/kg	mg/kg	LOCATION	DEPTH	mg/kg
Source @ 12'	60.2	<10.0	<10.0	64		3'	59
						4'	98
						5'	89
General Description of	Remedial Ac	tion: This jur	nction was elimina	ated during	Soil Bore # 1	6'	101
the pipeline replacement/u	ograde program	. After the juncti	on box was remo	oved, a soil	at former	7'	108
bore was conducted at the	former junction	box due to the ir	ability to excavat	te through	junction	8'	91
the rock formation. Chloric	le field test perfo	ormed on each s	ample yielded lo	W	(Source)	9'	86
concentrations. Organic va	pors were mea	sured using a Pl	D, which yielded	relatively low		10'	89
concentrations. The deepe	est sample, 12 ft	. BGS, was sent	to a commercia	1		11'	88
laboratory for analysis of cl	nloride and TPH	which confirme	d low concentrati	ons of each.		12'	85
The entire bore hole was p	ugged with bent	onite to ground s	surface. The site	was not			
seeded due to the vegetati	on was intact		, <u></u>		······································		

end	closures:	photos,	soil bore	log, lab	results,	PID	(field)	screenings,	chloride c	urve

I HER	EBY CERTIFY THAT	THE INFORM	ATION ABOVE IS	TRUE AND CO	OMPLETE TO TH	IE BEST OF MY
		KN	NOWLEDGE AND	BELIEF.		
SITE SUPERVISOR	Jordan Woodfin		- Jacoba	Wood	COMPANY	RICE OPERATING COMPANY
REPORT ASSEMBLED BY	Larry Bruce Baker Jr.	_ INITIAL	LBB	Γ		
PROJECT LEADER	Larry Bruce Baker Jr.	SIGNATURE	Lany Buce	Baher fr.	DATE	2-28-11



#### 7/26/2010

### **Drilling Soil bore**



## EME Jct. H-32 Unit H Section 32, T19S, R37E

Driller:     Harrison & Cooper       Consultant:     RECS       Drilling Method     Air Rotary       Start Date:     7/26/2010       End Date:     7/26/2010       Consultant:     RECS       Orilling Method     Air Rotary       Start Date:     7/26/2010       Comments:     All samples from cuttings. Located at source of the former junction box site. Drafted by: Lara Weinheimer       TD = 12 ft     Estimated depth to GW = 31 ft       Depth     Chloride     LAB     PID       Getth     field tests     LAB     PID     Description     Lithology     Well Construct       3 ft     59     0.8     Tan to black caliche with chert. Slight odor.     Slight odor.     Figure 10: Tan to black caliche with chert. Slight odor.     Dight odor.     Dight odor.       6 ft     101     11.9     Tan to black caliche with chert. Slight odor.     Dight odor.	3-1 8 R37E /: Lea NM
Dritling Method   Air Rotary     Start Date:   7/26/2010     End Date:   7/26/2010     Comments:   All samples from cuttings. Located at source of the former junction box site. Drafted by: Lara Weinheimer     Dath   TD = 12 ft     Edite tests   LAB     Pipeth   chloride field tests     Aft   59     0.8	3-1 8 R37E /: Lea NM
End Date:     7/26/2010     Project Name:     Well ID: EME jct. H-32       Comments:     All samples from cuttings. Located at source of the former junction box site. Drafted by: Lara Weinheimer TD = 12 ft     Project Name:     Well ID: EME jct. H-32     SB       Depth (feet)     Chloride field tests     LAB     PID     Description     Lat: N 32°370.877"     County: Long: W 103°15'56.903"     State: N       3 ft     59     0.8	3-1 8 R37E /: Lea NM
End Date:     7/26/2010     Project Name:     Well ID: EME jct. H-32       Comments:     All samples from cuttings. Located at source of the former junction box site. Drafted by: Lara Weinheimer TD = 12 ft     Project Name:     Well ID: EME jct. H-32     SB       Depth (feet)     Chloride field tests     LAB     PID     Description     Lat: N 32°370.877"     County: Long: W 103°15'56.903"     State: N       3 ft     59     0.8	3-1 8 R37E /: Lea NM
Comments:   All samples from cuttings. Located at source of the former junction box site. Drafted by: Lara Weinheimer TD = 12 ft   EME jct. H-32   SB.     Drafted by: Lara Weinheimer Estimated depth to GW = 31 ft   County: County	3-1 8 R37E /: Lea NM
of the former junction box site. Drafted by: Lara Weinheimer TD = 12 ft     Location: UL/H sec. 32 T19S Lat: N 32°37'0.877" County: Lat: N 32°37'0.877" County: Long: W 103°15'56.903" State: N       Depth (feet)     chloride field tests     LAB     PID     Description     Lithology     Well Construct       3 ft     59     0.8	R37E /: Lea NM
Depth field tests     LAB     PID     Description     Lat: N 32°370.877"     County: Long: W 103°15'56.903"       Depth field tests     LAB     PID     Description     Lithology     Well Construct       3 ft     59     0.8     Tan to black caliche with chert. Slight odor.     Slight odor.     Image: Slight odor.     Image: Slight odor.       4 ft     98     0.8     Tan to black caliche with chert. Slight odor.     Slight odor.     Image: Slight odor.     Image: Slight odor.       6 ft     101     11.9     Image: Slight odor.       7 ft     108     13.6     Image: Slight odor.     Image: Slight odor. </td <td>/: Lea NM</td>	/: Lea NM
TD = 12 ft     Estimated depth to GW = 31 ft     Long: W 103°15'56.903"     State: N       Depth (feet)     Chloride field tests     LAB     PID     Description     Lithology     Well Construct       3 ft     59     0.8     Tan to black caliche with chert. Slight odor.     Tan to black caliche with chert. Slight odor.     Image: Charlen of the state	NM
(feet)     field tests     LAB     PID     Description     Lithology     Weil Construct       3 ft     59     0.8	uction
(feet)     field tests     LAB     PID     Description     Lithology     Weil Construct       3 ft     59     0.8	uction
3 ft   59   0.8     3 ft   59   0.8     -   -   -     4 ft   98   0.8     -   -   -     5 ft   89   1.2     6 ft   101   11.9     -   -   -     7 ft   108   13.6	
4 ft   98   0.8     4 ft   98   0.8     5 ft   89   1.2     6 ft   101   11.9     7 ft   108   13.6	
4 ft   98   0.8     4 ft   98   0.8     5 ft   89   1.2     6 ft   101   11.9     7 ft   108   13.6	
4 ft   98   0.8     4 ft   98   0.8     5 ft   89   1.2     6 ft   101   11.9     7 ft   108   13.6	
4 ft   98   0.8     -   -     -   -     -   -     5 ft   89     1.2     -   -     6 ft   101     11.9     -   -     7 ft   108	
4 ft   98   0.8     -   -     -   -     -   -     5 ft   89     1.2     -   -     6 ft   101     11.9     -   -     7 ft   108	
4 ft   98   0.8     -   -     -   -     5 ft   89     -   -     6 ft   101     11.9     -   -     7 ft   108	
5 ft 89 1.2   5 ft 89 1.2   6 ft 101 11.9   7 ft 108 13.6	
6 ft 101 11.9 7 ft 108 13.6	
6 ft 101 11.9 7 ft 108 13.6	
6 ft 101 11.9 7 ft 108 13.6	
7 ft 108 13.6	
7 ft 108 13.6	
7 ft 108 13.6	
7 ft 108 13.6	
	ntonite
	seal
8 ft 91 60.2	
9 ft 86 0.8	
White coarse caliche	
10 ft 89 0.2	
11 ft 88 1.5	
COPY	
12 ft 85 Cl- 64 1.2	
GRO <10	



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: BRUCE BAKER 112 W. TAYLOR HOBBS, NM 88240

Receiving Date: 07/28/10 Reporting Date: 07/29/10 Project Number: NOT GIVEN Project Name: EME JCT. H-32 (19/37) Project Location: EME JCT. H-32 (19/37) Sampling Date: 07/26/10 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: JH Analyzed By: AB/HM

GRO DRO

(C<sub>6</sub>-C<sub>10</sub>) (>C<sub>10</sub>-C<sub>28</sub>) CI\* (mg/kg) (mg/kg) (mg/kg)

LAB NUMBER SAMPLE ID

ANALYSIS DATE	07/29/10	07/29/10	07/29/10
H20443-1 SOURCE @ 12' BGS	<10.0	<10.0	64
Quality Control	465	456	520
True Value QC	500	500	500
% Recovery	93.0	91.2	104
Relative Percent Difference	0.3	0.5	< 0.1

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.

Vone

H20443 TCL RICE

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-Commenter

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Broine Harrie	NIEC O	CONPARY	BILL TO	ANALYSIS REQUEST
anage	5 20		P.O.#:	
Address: / 2	2 W. Taylor		Company:	
CIty: 1-20 66	State: NV	1 Zip: 58240	Attn:	
Phone #: 573	5-393-9174 Fax#: 57	5-39	Address:	
Project #:	Project Owner:	Jer:	City:	
Project Name:			State: Zlp:	
Project Location:	EME JET H-32	137	#	
Sampler Name:			Fax #:	57
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Relinquished By	g but all of retained to the performance of services hereunder !	by Cardinal, regardiesa of whether auch claim Received RV	is based upon any of the shove stated re	And the second
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CK MODEL NO.	MODEL: PGM MODEL: PGM MODEL: PGM MODEL: PGM	7300 SEJ 7300 SEI 7600 SEI	RIAL NO: 590-000 RIAL NO: 590-000 RIAL NO: 110-123 RIAL NO: 110-029	)183 ) <del>50</del> 4 <i>508</i> 883	
GA: LOT NO: 9301 FILL DATE: ACCURACY: +/- 2%	S COMPOSITION: 1 3 2	EXPIRATIO		- 24 - 13	-
SYSTEM	SITE	UNIT	SECTION	TOWNSHIP	RANGE
EME jo	+ +-32	Н	32	TI95	RJ7E
SAMPLE 1D:     DEPTH   PID     3'   0.8     4'   0.8     5'   1.2     1'   11.9     7'   13.6     8'   60.2     Signature   Iverit	S bil hare #)	PID			TH PID
SITE MAP.					N

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## EME Jct. H-32 Unit 'H', Sec. 32, T19S, R37E

# Soil bore at the former junction (source)

[GI] ppm	59	98	89	101	108	91	86	89	88	85	
Depth bgs (ft)	m	4	5	9	2	8	6	10	11	12	



