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REPORTS

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EMIE Jet N-8-2 2009

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DISCLOSURE

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RICE OPERATING COMPANY JUNCTION BOX DISCLOSURE* REPORT

APD - 6 2010

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1.1	~	and and	Durean

				BOX LOC'AT	FION			Uil Cond	Pruntia	- D-
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX D	IMENSIONS	FEETON	קר
Eunice Monument		N		205	275	1.00	Length	Width	Depth	
Eumont (EME)	JCI. N-0-2			203		Lea		eliminated		
LAND TYPE: E	3LM	STATE	FEE LAI	NDOWNER .	Jimm	ie Cooper	OTHER			_
Depth to Grour	ndwater	<u>30</u> fe	eet	NMOCD	SITE ASSI	ESSMENT	RANKING S	COR:E::	20	
Date Started	9/1/2	2009	Date Co	mpleted	11/12/2009		Witness	nc)	
Soil Excavated	133.3	cubic yard	is Exc	cavation Ler	ngth <u>30</u>	Width	10	Depth	12	feet
Soil Disposed	0	cubic yard	s Of	fsite Facility	n	/a	Location		n/a	
AL ANALYTI	CAL RES	SULTS:	Sample	Date	10/8/2009	9, 19	Sample De	pt h 12 ft,	20 ft, 24 f	t. 28

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.

CHLORIDE FIELD TESTS

Sample	PID (field)	GRO	DRO	Chlorides
Location	ppm	mg/kg	mg/kg	mg/kg
4-WALL COMP.	1.8	<10.0	<10.0	144
BOTTOM COMP.	2.4	<10.0	<10.0	400
BLENDED BACKFILL	4.8	<10.0	77.0	288
SB#1 @ 20'	69.9	<10.0	<10.0	1,650
SB#1 @ 24'	0.0	<10.0	10.7	1,280
SB#1 @ 28'	0.0	<10.0	55.5	256

General Description of Remedial Action: This junction box was eliminated during the pipeline replacement/upgrade program. An investigation was conducted at the former junction box site using a backhoe to collect soil samples at regular intervals producing a 30x10x12-ft-deep excavation. Chloride field tests were performed on each sample which yielded some elevated concententrations. Organic vapors, measured using a PID, yielded

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	354
bottom comp.	12'	481
blended backfill	n/a	457
	14'	572
	16'	1,327
SOIL BORING	18'	615
at 15 ft east of	20'	1,390
the junction	22'	604
(11/12/2009)	24'	1,446
	26'	719
	28'	614

low concentrations. The excavated soil was blended on site and representative composite samples were collected from the blended backfill, the excavation walls, and the bottom of the excavation and sent to a commercial laboratory for analysis of chloride and TPH. The blended backfill 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 11/9/2009. The remaining backfill was returned to the excavation to ground surface and contoured to the surrounding area. To further investigate depth of chloride presence, a soil bore was initiated on 11/12/2009 at 15 ft east of the former junction box. The boring was advanced to 28 ft BGS while soil samples were collected at regular intervals and field tested for chlorides. The 20 ft, 24 ft, and 28 ft samples were analyzed by a commercial laboratory for chlorides and TPH. Laboratory analysis confirmed some elevated concentrations. The entire borehole was plugged with bentonite to the ground surface. On 12/18/2009, the site was seeded with a blend of native vegetation and is expected to return to productive capacity at a normal rate. NMOCD was notified of potential groundwater impact on 2/25/2010.

ADDITIONAL EVALUATION IS HIGH PRIORITY

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

I HERE	BY CERTIFY THAT T	HE INFORMA KNG	TION-ABOVE IS	TRUE AND COMP	PLETE TO TH	E BEST OF MY
SITE SUPERVISOR	Jordan Woodfin		- Judan	Word	COMPANY	RICE OPERATING COMPANY
REPORT ASSEMBLED BY	Katie Jones		K ⁽)			
PROJECT LEADER	Larry Bruce Baker Jr.	SIGNATURE	Lany Bre	ice Baher 4		3-25-10
*This	site is a "DISCLOSURE "	It will be placed	on a prioritized list (of similar sites for furthe	er consideration	





collecting a soil sample, facing west



junction box site, facing west excavating the former



backfilling the final excavation up to 5 ft BGS, facing east

Page 1 of 2



drilling SB #1at 15 ft east of the former junction

11/12/2009

plugging SB #1 with bentonite

11/12/2009

Page 2 of 2

2						
Logger:		Lara V.	einheimer			ATING D
Drillor		Harrison	& Cooper	EME jot. N-8-1	SE OPE	And Protection
United		N/A - RC	Drining DC junctic	9	The second secon	
Consulta	ant:	box up	grade plan	ENE IN NON CONTROL		NERICE
Drilling	Method:	Geo	-probe	EME Jot. N-8-2		
Start Da	te:	11/1	2/2009	9_29 50 100 Martin Rest		
End Dati	e:	11/1	2/2009		JProject Name:	9-2 SB #1
Locate	d 15 feet e	east of	the form	er juction box site.	Location: U	L/N sec. 8 T20S R37E
		٥	rafted by	Lara Weinheimer	Lat: 32°35'3.634	"N County: Lea
	TD :	= 28 ft		Estimated Depth to GW = 30 ft	Long: 103°16'34	.06" W State: NM
Depth	chlorid	e LA	B PIC	Description	Lithology	Well Construction
(teet)	tield tes	ts				VIIIA
				11 - 14 ft		
				VERY FINE TO FINE SAND; CALICHE		
14	572		0.6	prown, ary, no odo;		
				14 - 16 ft		
				VERY EINE TO EINE SAND' CALICUE		
				-		
16	1327		1	light brown, slightly maist, no odor		
	_	-	-			
				16 - 20 ft		
10	C15		210	VERY FINE TO FINE SAND; CALICHE		
10	610	_	21.0		· 如何。- 次型的	
				slight reddish brown, dry, no odor		
		-				
20	1390	10	69.9			
		111		20 - 22 ft		bentonite
		12	-	VERY FINE TO FINE SAND WITH CLAY		seal
			1			
22	604		84.4	reddish brown, dry, no odor		
				-	1.	
				_		
24	1448	in the second se	0			
				22 - 28 ft	100 est 1	
					· 李子子 《 李	
			5	ROCK; CALICHE; CLAY	tin	
	74.0			light brown, slightly moist, no odor		
26	/19		0			
				1		
23	614	1.23	0			
		1 33			18 . O	
		1 2 =				
		1 33			and the second	111A



Depth (ft bgs)

Chloride concentration versus depth



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

Receiving Date: 11/13/09 Reporting Date: 11/17/09 Project Owner: NOT GIVEN Project Name: EME JCT, N-8-2 Project Location: EME JCT. N-8-2

ANALYSIS DATE

H18725-1

H18725-2

H18725-3

Sampling Date: 11/12/09 Sample Type: SONL Sample Condition: COOL & INTACT Sample Received By: ML Aniałyzed By: CK/HM

GRO DRO

 $(C_6 - C_{10}) (> C_{10} - C_{26})$ Cilt

LAB NUMBER SAMPLE ID

(mg/xg)	(mg/kg)	(mg/ xg)
 11/17/09	11/17/09	11/13/09
<10.0	<10.0	1,650
 <10.0	10.7	1,280
 <10.0	55.5	256

SB #1 @ 20'

S8 #1 @ 24

S8 #1 @ 28

Quality Control	457	522	500
True Value QC	500	500	500
% Recovery	91.4	104	100
Relative Percent Difference	0.5	7.7	< 0.1
METHODS: TPH GRO & DRO: EPA SW-843	8015 M; CF	: Std. Meth	ods 4500-C

TB. *Analyses performed on 1:4 wiv aqueous extracts. Reported on wet weight.

a Calerra I. Chemist

1921 سا ثر ا 1 1 Date

H18725 TCL RICE

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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	101 East Marland, H (505) 393-2326, FA	NATONES lobbs, NM 88240 2 X (505) 393-2476 (111 Beechwood 325) 673-7001 F	I, Abilene, T) AX (325)673	X 79603 #7020								
Company Nam	e: Rice Operating Com	ipany		18	11 70				ANA	LYSIS R	EQUEST	and the second of the second se	
Project Manage	er: Hack Conder			P.Ö. #:		-				-			
Address: 122	West Taylor			Company:									
city: Hobbs	,	State: NM Zip: 8	8240	Attn:									
Phone #: 393-	9174	Fax #: 397-1471		Address:									
Project #:		Project Owner:		city:			M		بر	((
Project Name:	EWE IL N'-5-L			State:	Zip:	sə	9	>	42	$\underline{\bigcirc}$	_		
'roject Locatio	n: 12 mile 1 ut 18 - 8	4		Phone #:		 hid	10	×Ξ	1 5	<u></u>	C		
Sampler Name:	Lara Weinheimer			Fax #:			8.1	18	se		\sum		
FOR LAB USE ONLY			MATRIX	PRESERV	SAMPLING	40	Ho		xə				
		C)OMP.	TER)	41					· · ·	
Lab I.D.	Sample I.	С)) ЯО ВАЯ(Э	AWONUOAE WASTEWATE JIC JIL JIL DGE	CID/BASE: CID/BASE: COOL	DATE	LI Z		·			>		
H18725-1	50416 101	#		0 0 0 0	1.6 92.101	2 1						All the second sec	
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PLEASE NOTE: Liability a auelyses. Al claims includi contro in comments of all	ud Damages. Cardinal's limbility and clie ing those for hegiligence and any other cu	ants exclusive remedy for any claim an ause whatsoever shall be deemed wa	ising Whether based in contrac ived unless mode in whiting an	at or tort shall be limited	lis the amount paid by the Wilin 30 days after comp	čllent for the Bion of the appli	able	<u> </u>					
service. In no event shart sha	datume of or related to the performance o	ducatal damages, including writout fir of services hereunder by Calidinal, fey	ilation, business Interruptions; ardiess of Whettrer such claim	loss of use, of loss of p is based upon any of th	orofils incurred by cilent, its ie above stated reasons or	subsidiaries otherwise:			بوراية معمد جف	منيقار فير أترشيه بعوي		and the second	2 24
		Uate: Mece	ived By:	CI ()	// Fax	ne Result: Result:	: ID Yes	N IZ	Padd'l	Phone #: Fax #:			
Relinquished B	einneimer	Date:	W Jui Jui	SU.		IARKS: Tail res	ults						
		Time:)										
Delivered By Sampler - UPS	: (Circle One) - Bus - Other:	-	Sample Condit Cool Intact Ves L Yes No.	tion CHECH	KED BY: Ho LW	onder(/einheil	@rice; mer@	swd.c ricesv	om; jpı vd.con	urvis@ri	ceswd.co	L	
† Cardinal	cannot accept verbal c	changes. Please fax w	ritten changes to	<u>505*393-2476</u>		NE	ED D	SAMI	DLES	RACI	X pT F	А С Н	5
						I	}	140	1111.)			

CK MODEL NO.			RICE OF PHONE: (5 PID METER C MODEL: PGM MODEL: PGM MODEL: PGM	PERATE /ešt=Taylor ~ 575)/393-917 ALIBRATION 7300 SE 7300 SE 7600 SE	NG CO Hobbs, NM 8 4 FAX: (575) 1& FIELD RE RIAL NO: 590 RIAL NO: 590 RIAL NO: 590	MF 3824(397 EPOF 0-000 0-000 0-123	PANY 0 -1471 RT FORM 0183 0504 83	C	; OP	i i i di all'an Martina di Martina di la Martina di la
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Enf	2	jct	N-8-2	N	ş		T2	05	R375	
SAMPL DEPTH IY If' 20' 22' 22' 24' 24' 24' 24' 24' 24' 24' 24	E ID: 0.6 1.0 21.6 69.9 84.4 PID 0 0 0	I verify tha	DEPTH DEPTH DEPTH DEPTH	PID PID PID	DEPTH DEPTH	P nufactur Date	PID P	DEPT	H PID	
SITE MAP									N	



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: BRUCE BAKER 122 W. TAYLOR HOBES, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 10/09/09 Reporting Date: 10/13/09 Project Owner: NOT GIVEN Project Name: FINAL SAMPLES Project Location: EME N-8-2

Sampling Date: 10/08/09 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB/HM

GRO DRO $(C_6 - C_{10}) (> C_{10} - C_{28})$ (mg/kg) (mg/kg)

LAB NUMBER SAMPLE ID

CY - (:mg/kg)

ANALYSIS D	DATE	10/12/09	10/12/09	10/12/09
H18461-1	4 WALL COMPOSITE	<10.0	<10.0	144
H18461-2	5 PT BOTTOM COMPOSITE	<10.0	<10.0	4.0%
H18461-3	BLENDED BACKFILL	<10.0	77.0	2:88
Quality Cont	rol	447	506	490
True Value C	20	500	500	500
% Recovery		89.4	101	98.0
Relative Per	cent Difference	2.2	1.9	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.

15/13/09

H18461 TOL RICE

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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	CUINAL LABOKA I UKIES 101 East Marland, Hobbs, NM 882 (505) 393-2326 FAX (505) 393-24) 40 2111 Beechwood, 76 (325) 673-7001 FJ	, Abilene, TX 79603 AX (325)673-7020		
Company Name.	: Metre opposited		OL TIB	ANALY:	SIS REQUEST
Project Manager	: URUE BAKER		P.O. #:		
Address: (.)	D. W. Taplal		Company:		
CILY LA CUN	State: NNI	OHC38: diz	Atin:		
Phone #: 39	3_9174 Fax#:5"75	-397-1471	Address:		
Project #:	Project Owner.		City:		
Project Name:	FINGL Samples		State: Zip:		
Project Location	" EME N-8-3		Phone #:		
Sampler Name:	Downell on leled		Fax #:	the second secon	
FOR LAB USE ONLY		MATRIX	PRESERV SAMPLI	NG	
Lab I.D.	Sample I.D.	9000) AO BAR(O) 8 CONTRINERS 9 CONTRINERS 8 CONTRANTER 10 10 10 10 10 10 10 10 10 10 10 10 10	арнек : Корлек : Сел : Соос : Яантс Ван Ван	T) W 5/08 IME	
1-10);;81H	4 wall composit		10-8-09	11:45 2 21	
2 -	5 AT BUTTOM COMPOSET	5	N-8-01 11	11:35 V V	
3	BLENDED BACKFIN	6-	10-8-09		
ruckse NOTE: Hanning an analyses. All claims meludir service, in nu eventishall Co minuto compressioned	in Domages, vaciminal in naminy and clients exclusive termeny fut a 1g thous for meyligence and any other course whetkoever inhall be t autural to fishel for invidental or consequental damages, including autor or settist if the surventiones of exclose theoremice theoremice.	uny daim alishing milentrer based in comune deemeed wafved unless made in witting an 1 wittout finitation, business intertuptions, vordisse at substances intertuptions	ct of tott: strait de minued to the amount par lot received by Cardinat within 30 days after Joss of tuse, of hous of pionille incurred by c	iorby me diversity to bre er completion of this applicable second is substituies	
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/シャル いこと Delivered By:	$\frac{\int \mathcal{D}\mathcal{O}\mathcal{O}_{\mathcal{N}}\mathcal{M}\mathcal{U}\mathcal{N}}{\left(Circle One\right)} = \frac{\int \mathcal{O}\mathcal{O}\mathcal{O}\mathcal{O}\mathcal{O}\mathcal{H}}{\left(Circle One\right)}$	Sample Condit Cool Intact-	tion CHECKED BY: (Initials)	J RURUIS Rice S	ew D . Cont
Sampler - UPS	- Bus (Other:)	No Contraction No Contractio No Contractio No Contraction No Contraction No Contr	Start of the second second		

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

RICE OPERATING COMPANY

I22 West Tayor Hobbs, NM 88240 PHONE: (575) 393-9174 FAX: (575) 397-1471 PID METER CALIBRATION & FIELD REPORT FORM



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

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

Check Model Number: 000183 000508 000504

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

LOTNO: 924503	EXPIRATION DATE: 7-39-2010
FILL DATE: 3-9-09	METER READING ACCURACY: 100, 100M

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
EME	N-8-2	\sum	8	21	36

SAMPLE ID	PID	SAMPLE ID	PID
4 Wall COMP	1.8		
U			
517T BOTTOM	2.4		
Blewbed BACKEEII	4.8		

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

SIGNATUE: Danselling the

DATE: 10-8-09

EME Jct. N-8-2 Unit 'N', Sec. 8, T20S, R37E

Excavation Cross-Section

Z



Excavation Boundary

and the second

Clay Barrier

ETTIGRET ETTIGRET ENGLARIA	LABORATORY TE PETTIGREW & AS 1110 N. GF HOBBS, NM (575) 393-9	ST REPORT SOCIATES, P.4 IMES 88240 9827	A. DEBRA WILLIAM	ASHTO RIB DEBRA P. HICKS, P.E./L.S.I. WILLIAM M. HICKS. III, P.E./P.S.		
To:	Rice Operating Company Attn: Bruce 122 W. Taylor	Material: W	/allach Red Clay			
	Hobbs, NM 88240	Test Method:	ASTM: D 2922			
Project:	N-8-2-EME Project No. 2009.1294					
Date of Test:	November 9, 2009	Depth:	See Below			
		Depih of Probe:	12"			
Test No.	Location	Dry Density % Max	% Moisture	Depth		
SG 1	N-8-2 EME - 7' W & 5' S. of NE Corner	90.9	16.0	FSG		

RECEIVED

DEC 18 9 2009

RICE OPERATING HOBBS, NM

Control Density: 100.7 ASTM: D 698

Required Compaction: 90% - 95%

Lab No.: 09 7347-7348

Copies To: Rice Operating Optimum Moisture: 20.7%

Densometer ID:

815 PETTIGREW & ASSOCIATES

BY: <u>Crica Methant</u> BY: <u>Crica</u>

P.E.

RICE Operating Company

EME JCt. N-8-2 Unit 'N', Sec. 8, T20S, R37E

SOIL BORE samples at 15 ft east of the junction (source)

[CI] ppm	572	1,327	615	1,390	604	1,446	719	614
Dépth bgs (ft)	14	16	18	20	22	24	26	28



Groundwater = 30 ft