1R - 423 - 07

WORKPLANS

Date: 4 -16-12



RECEIVED OCD

2012 MPR 23 A II: 32

CERTIFIED MAIL RETURN RECEIPT NO. 7008 3230 0001 9310 7686

April 16, 2012

RE:

Mr. Ed Hansen New Mexico Energy, Minerals, & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

ICP REPORT JUSTIS E-26 UNIT "E", SEC. 26, T24S, R37E LEA COUNTY, NEW MEXICO NMOCD #1R0423-07

Mr. Hansen:

RICE Operating Company (ROC) has retained Tetra Tech, Inc. (Tetra Tech) to address potential environmental concerns at the Justis SWD System E-26 site. ROC is the service provider (agent) for the Justis SWD System and has no ownership of any portion of the pipeline, well or facility. The Justis SWD system is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis. In general, project funding is not forthcoming until NMOCD approves the work plan. Therefore, your timely review of this submission is requested.

BACKGROUND & PREVIOUS WORK

As part of the ROC Junction Box Upgrade Workplan, starting on June 27, 2003, the junction box was removed and a new, watertight junction box was installed 25 feet south of the former junction box. The former junction box site was excavated to a depth of 12 feet deep with a backhoe. PID readings and chloride field tests were conducted at regular intervals. Based on the field PID readings and the chloride field tests, both the TPH and chlorides did not exhibit a decrease with depth. Upon completion of the excavation, the site was backfilled with clean imported soils and brought up to surface grade. In March 2004, ROC submitted a Junction Box Disclosure Report to the NMOCD. See Figures 1 and 2 for site location.

In order to determine the vertical extent of hydrocarbon and chloride impacts, on March 18, 2004, a soil boring (SB-1) was drilled in the former junction box to a depth of 67 feet below ground surface (bgs). Analytical results from the drilling indicate the TPH



concentrations decreased with depth, while the chloride concentrations did not exhibit a significant decline with depth. The chloride concentration was 587 milligrams per kilogram (mg/Kg) at 67 feet bgs. Upon completion of the drilling, the soil boring was backfilled with bentonite to ground surface.

Between March 18 and 22, 2010, six additional soil borings (SB-2 through SB-7) and one monitor well (MW-1) were installed in the vicinity of the former junction box in order to delineate the chlorides/TPH within the soil and determine if groundwater was impacted. In SB-2, SB-5, SB-6, and SB-7, laboratory chloride concentrations remained elevated; however, chloride readings decreased with depth. Chloride concentrations were low throughout SB-3 with a concentration of 144 mg/kg at 5 feet and <16 mg/kg at 30 feet. Chloride concentrations also decreased in SB-4 from 592 mg/kg at 20 feet to 160 mg/kg at 50 feet. See Figure 3 for soil analytical results. Chloride concentrations in monitor well MW-1 are elevated ranging from 1,560 to 1,840 mg/L. Groundwater at the site is located at a depth of approximately 68 feet below ground surface. See attached Table 1 for groundwater analytical results. Copies of the laboratory analysis are presented in Appendix A. Copies of the boring and monitor well logs and completion diagrams are included in Appendix B.

On October 24, 2011, a second up-gradient monitor well (MW-2) was installed northwest of the former junction box. Chloride analytical results for the well were 1,460 mg/L, which is consistent with the results in source well MW-1. This indicates an upgradient source contributing chlorides to the groundwater. See attached Table 2 for groundwater analytical results.

As discussed above, existing site data suggest an up-gradient source is contributing to the impairment of groundwater quality. Therefore the work elements described below are designed to assist ROC in selecting an appropriate vadose zone and groundwater remedy.

Additional Delineation to the Vadose Zone

In order to complete delineation of the chlorides in the vadose zone, ROC proposes to install an additional soil boring north of SB-7. The soil boring samples will be field screened for chloride concentrations and the data collected will be utilized to estimate liner dimensions for the proposed soils remediation. Upon completion of the drilling and collection of the analysis, ROC will submit a CAP addressing the proposed liner location and dimensions.

Chloride Remediation within Groundwater

Based on the results of the soil sampling, ROC will perform Mass Loading Calculations as part of the CAP. The mass loading will be utilized to determine a volume of chloride impacted groundwater to be removed.

As part of the remediation of the groundwater, ROC proposes to plug and abandon the two inch monitor well MW-1 and reinstall as a four inch well (MW-1R). The recovery well will be constructed in accordance with EPA and industry standards and



developed either by bailing with a rig or hand bailer, or pumping with an electric submersible pump to remove fine grain sediment disturbed during drilling and to ensure collection of representative groundwater samples.

Should you have any questions, please contact me at (432) 682-4559. Your prompt review of this submission is appreciated. Thank you for your attention to this matter.

Tetra Tech, Inc.

Jeffrey-Kindley, P.G. Senior Environmental Geologist

cc: ROC – Hack Conder NMOCD – Geoffrey Leking

enclosures: Figures, Tables, Laboratory Analysis, Soil Bore and Monitor Well Logs



FIGURES

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TABLES

	Table 1														
	Rice Operating Company														
	Justis E-26														
	Lea County, New Mexico														
MW	Depth to	Total	Well	Volume	Sample	CI	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments		
	Water	Depth	Volume	Purged	Date	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			
1	67.93	78.65	1.70	10.0	04/11/10	1800	3400	<0.001	<0.001	<0.001	<0.003	299	Clear no odor		
1	67.92	78.65	1.70	10.0	06/02/10	1580	3340	< 0.001	<0.001	<0.001	<0.003	265	Clear no odor		
1	67.99	78.65	1.70	10.0	08/26/10	1560	3360	<0.001	<0.001	<0.001	<0.003	260	Clear no odor		
1	68.02	78.65	1.70	10.0	12/01/10	1680	3650	<0.001	<0.001	<0.001	<0.003	324	Clear no odor		
1	68.02	78.64	1.70	10.0	03/24/11	1840	4000	< 0.001	< 0.001	<0.001	<0.003	260	Clear no odor		
1	68.03	78.64	1.70	10.0	06/10/11	1760	3520	<0.001	<0.001	<0.001	<0.003	266	Clear no odor		
1	68.06	78.64	1.70	10.0	09/14/11	1700	3550	< 0.001	<0.001	<0.001	<0.003	281	Clear no odor		
1	68.13	78.64	1.70	10.0	12/08/11	1680	3600	< 0.001	<0.001	<0.001	<0.003	281	Clear no odor		
1	68.05	78.64	1.70	10.0	03/08/12	1860	3920	<0.001	<0.001	<0.001	<0.003	292	Clear no odor		

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					Server 1		Table 2	2					
					R	lice Ope	rating	Company					191119
						Ju	stis E-2	26					
					L	ea Cour	nty, Ne	w Mexico					
MW	Depth to	Total	Well	Volume	Sample	CI	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
	Water	Depth	Volume	Purged	Date	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
2	68.28	78.64	1.70	10.0	12/08/11	1460	3430	< 0.001	< 0.001	< 0.001	< 0.003	652	Clear no odor
2	68.23	78.64	1.70	10.0	03/08/12	1480	3370	<0.001	< 0.001	<0.001	<0.003	465	Clear no odor





APPENDIX A LABORATORY ANALYTICAL



March 16, 2012

Hack Conder Rice Operating Company 112 W. Taylor Hobbs, NM 88240

RE: JUSTIS JUNCTION E-26

Enclosed are the results of analyses for samples received by the laboratory on 03/12/12 12:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

Rice Operating Company Hack Conder 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	03/12/2012	Sampling Date:	03/08/2012
Reported:	03/16/2012	Sampling Type:	Water
Project Name:	JUSTIS JUNCTION E-26	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S-R37E-SEC26 E - LEA CTY., NM		

Sample ID: MONITOR WELL #1 (H200630-01)

BTEX 8021B mg/L Analyzed By: AP True Value QC Analyte Reporting Limit Analyzed Method Blank BS % Recovery RPD Qualifier Result Benzene* < 0.001 0.001 03/14/2012 ND 0.052 104 0.0500 2.79 Toluene* < 0.001 0.001 03/14/2012 ND 0.054 109 0.0500 3.43 Ethylbenzene* < 0.001 0.001 03/14/2012 ND 0.056 112 0.0500 4.26 Total Xylenes* < 0.003 0.003 03/14/2012 ND 0.172 114 0.150 4.83 Surrogate: 4-Bromofluorobenzene (PIL 106 % 70.7-118 Chloride, SM4500Cl-B mg/L Analyzed By: AP Reporting Limit True Value QC RPD Qualifier Analyte Analyzed Method Blank BS % Recovery Result Chloride* ND 104 1860 4.00 03/14/2012 104 100 3.92 Sulfate 375.4 mg/L Analyzed By: HM True Value QC RPD Qualifier Reporting Limit Analyzed Method Blank 85 % Recovery Analyte Result 03/15/2012 Sulfate* 292 10.0 ND 18.8 94.2 20.0 2.14 TDS 160.1 Analyzed By: HM mg/L Method Blank True Value QC % Recovery RPD Qualifier Analyte Result Reporting Limit Analyzed 8S 237 TDS* 03/13/2012 ND 98.8 240 0.517 3920 5.00

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim 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 whethesever shall be deemed valved unless made in writing and received by client, its substitution thits thirthy (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental within thirthy (31) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, tass of uses of profits incurred by client, its substituines, atfiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based on any of the above stated reasons or therwise. Results relation to the sample admitted above. This report shall not be reprodued except in full with writter approval of Cardinal Liberations.

Celey D.Keine

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



Analytical Results For:

Rice Operating Company Hack Conder 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	03/12/2012	Sampling Date:	03/08/2012
Reported:	03/16/2012	Sampling Type:	Water
Project Name:	JUSTIS JUNCTION E-26	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S-R37E-SEC26 E - LEA CTY., NM		

Sample ID: MONITOR WELL #2 (H200630-02)

BTEX 8021B	mg/	L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	03/14/2012	ND	0.052	104	0.0500	2.79	
Toluene*	<0.001	0.001	03/14/2012	ND	0.054	109	0.0500	3.43	
Ethylbenzene*	<0.001	0.001	03/14/2012	ND	0.056	112	0.0500	4.26	
Total Xylenes*	<0.003	0.003	03/14/2012	ND	0.172	114	0.150	4.83	
Surrogate: 4-Bromofluorobenzene (PIL	104 %	6 70.7-11	8			//////		****	
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chioride*	1480	4.00	03/14/2012	ND	104	104	100	3.92	
Sulfate 375.4	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	465	10.0	03/15/2012	ND	18.8	94.2	20.0	2.14	
TDS 160.1	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	rpd	Qualifier
TDS*	3370	5.00	03/13/2012	ND	237	98.8	240	0.517	

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*=Accredited Analyte

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Celeg D. Kene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

 ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference

 **
 Samples not received at proper temperature of 6°C or below.

 Insufficient time to reach temperature.

 Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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APPENDIX B SOIL BORING MONITOR WELL LOGS

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Logger:	L	ara Weinh	neimer	\$87 © \$86	E DPE	RATING COMO					
Driller:	Ha	arrison & (Inc. Drill	Cooper, ling	SB2	RECE	TO THE					
Drilling I	Method:	Air rota	iry	\$B5 \$B3	R						
Start Dat	te:	3/18/1	0	SB4 MW1	SINCE 1955						
End Date	B:	3/18/1	0	0 510 20 30 40	Project Name:	Well ID:					
Comm	Comments: Split spoon sam			ling at 20 ft. All other were from	Justis E-	26 SB-2					
cuttings	s. Located 2	24 ft N O Draft	t the cu	urrent junction box site.	Location: U	05"N County: Lea					
N-10-11-S-V-S-S-	TD =	65 ft		GW = 68 ft	Long: 103°8'21.	.789" W State: NM					
Depth (feet)	chloride field tests (ppm)	LAB	PID	Description	Lithology	Bore Construction					
	100			0 - 5 ft							
				VERY FINE TO FINE SAND; SANDSTONE;							
	-										
5	1658	-	2.4	orangey-brown, slightly moist, no odor							
				5 - 10 ft							
				VERY FINE TO FINE SAND; SANDSTONE							
10	0750	CI-	4.4	orangey-brown, dry, no odor							
10	2/00	GRO	1.1	10 - 15 ft							
		<10.0 DBO									
		<10.0		VERY FINE TO FINE SAND; SANDSTONE							
15	1484		0.8	light orangey-brown, dry, no odor							
				15 - 20 ft							
				VERY FINE TO FINE SAND; SANDSTONE							
				orangev-brown slightly moist no odor							
20	535		0.7	סומושטי-שוטאוו, מושוווש ווטוסנ, ווט טעטו							
3.63		1									
25	792		1.2								
				1							
				-							
30	861		1								
				20 - 65 ft							
				VERY FINE TO FINE SAND							
35	632		0.7	orangey-brown, slightly moist, no odor		bentonite					
30	0.02		0.7			bencome					
				-		seal					
40	694		0.7								

Depth (feet)	chloride field tests (ppm)	LAB	PID	Description	Lithology	Bore Construction
45	1320		2			
				20 - 65 ft		
1				VERY FINE TO FINE SAND		
50	1952		2	orangey-brown, slightly moist, no odor		
55	2133	*	2.5			
60	2481		2.1			
65	2082	CI- 2160	0.2			
		GRO <10.0				
		DRO <10.0				

Logger: Driller: Drilling I Start Date End Date Comm	Method: te: b: ents: Sp	Lara Weinh larrison & C Inc. Drill Air rota 3/19/1 3/19/1 Dlit spoon	eimer Cooper, ing ry 0 0 1 samp	587 586 682 682 682 682 682 682 682 682 682 6	Project Name: Well ID: Justis E-26 SB-3						
from cu	ttings. Loc TD =	ated 24 f Draft 30 ft	tEoft edby:l	the current junction box site. Lara Welnhelmer GW = 68 ft	Location: UI Lat: 32°11'21.09 Long: 103°8'21.5	L/E sec. 26 T24S R37 95"N County: Lea 518" W State: NM					
Depth (feet)	chloride fiel tests (ppm)	d LAB	PID	Description	Lithology	Bore Constructio					
5	234	Cl- 144	0.2	0 - 5 ft VERY FINE TO FINE SAND; SANDSTONE; CALICHE light brown, dry, no odor							
		GRO <10.0 DRO <10.0		5 - 10 ft VERY FINE TO FINE SAND							
10	145		0.4	10 - 15 ft VERY FINE TO FINE SAND; SANDSTONE	-						
15	115		0.1	15 - 20 ft VERY FINE TO FINE SAND; SANDSTONE orangey-brown, slightly moist, no odor	•	bentonite					
20	91		0.5	20 - 30 ft							
25	83		0.4	VERY FINE TO FINE SAND orangey-brown, slightly moist, no odor							
30	87	CI- <16 GRO <10.0	0.2								
		<10.0									

Logger: Driller:		Lara Weir Harrison & Inc. Dri	heimer Cooper, Iling	\$87 \$86 \$86 \$62 \$562	ALCE DPER	B B				
Drilling Start Da	Method: te:	Air rot 3/19/	ary 10	\$83 \$84 \$94 \$000000000000000000000000000000000	BINCE 1955					
End Date Comm cuttings	e: ents: s. Locate	3/19/ Split spoo ed 23 ft S o Dra	10 n samp of the cu fted by: I	ling at 15 ft. All other were from urrent junction box site.	Project Name: Well II Justis E-26 S Location: UL/E sec. 26 T24 Lat: 32°11'20.949"N Count					
Depth (feet)	chloride f	= 50 ft LAB	PID	Description	Lithology	Bore Constructio				
				0 - 5 ft	•					
5	373		1.8	VERY FINE TO FINE SAND; SANDSTONE; CALICHE light brown, dry, no odor						
10	433		1.9							
				10 - 20 ft						
15	317		1.1	VERY FINE TO FINE SAND; SANDSTONE orangey-brown, slightly moist, no odor	•					
20	677	Cl- 592	1.4		-					
		<10.0 DRO <10.0								
25	368		1.9	20 - 50 ft VERY FINE TO FINE SAND						
30	353		0.9	orangey-brown, moist, no odor		seal				
35	305		1.1							

Depth (feet)	chloride field tests (ppm)	LAB	PID	Description	Lithology	Bore Construction
40	256		1.2			
				20 - 50 ft VERY FINE TO FINE SAND		
45	266		1.9	orangey-brown, moist, no odor		
50	204	CI- 160 GRO	2.4			
		<10.0 DRO <10.0				

Logger: Lara Weinheimer Harrison & Cooper, Inc. Drilling Drilling Method: Air rotary 3/19/10			neimer Cooper, ing Iry 0	\$87 586 \$82 \$85 \$85 \$85 \$85 \$85 \$85 \$85 \$85 \$85 \$85	RECEVENCE 1955			
End Date	B:	3/19/1	0	0 510 20 30 40 Feet	Project Name: Wel			Well ID:
Comm cuttings	ents: Sp s. Located TD =	22 ft W c Draft 60 ft	n samp of the c ted by: I	ling at 20 ft. All other were from ourrent junction box site. Lara Weinheimer GW = 68 ft	Justis E-26 SB Location: UL/E sec. 26 T24S Lat: 32°11'21.235"N County Long: 103°8'22.039" W State:			SB-5 26 T24S R37E County: Lea State: NM
Depth (feet)	chloride fiel tests (ppm)	d LAB	PID	Description		Lithology	Bore	Construction
				0 - 10 ft		-		
5	1735		1.7	VERY FINE TO FINE SAND; SANDSTONE		•		
10	1880		1.5			•		
				10 - 15 ft VERY FINE TO FINE SAND				
15	2821	CI- 3360	2.5	light orangey-brown, dry, no odor				
		<10.0 DRO <10.0		15 - 25 ft		•		
20	2267		1.9	VERY FINE TO FINE SAND; SANDSTONE orangey-brown, slightly moist, no odor		•		
25	1873		0.9			-		
				25 - 60 ft				
30	1616		1.5	VERY FINE TO FINE SAND				
				orangey storm, molet, no ouor	1			bentonite
35	1980		2.1					seal

Depth (feet)	chloride field tests (ppm)	LAB	PID	Description	Lithology	Bore Construction
40	1058		1.7			
	les.					
45	1875		1.8			
				25 - 60 ft		
				VERY FINE TO FINE SAND		
50	2065		1.7	orangey-brown, moist, no odor		
				1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
55	1949		1.3			
60	2121	Cl- 1380	1.2	1. 1. 1. 1. 1.		
	1960	GRO <10.0				
		DRO <10.0		1.6.1.4.1.1		

Logger: Driller:		Lara Weinheimer Harrison & Cooper, Inc. Drilling		\$87 \$86 \$86 \$82 \$	ALCE DIPE	RATING COMPANY
Drilling I	Method:	Air r	otary	@ ⁸⁸³		
Start Dat	te:	3/1	9/10	\$B4		
End Date	8:	3/1	9/10	0 510 20 30 40	Project Name:	Well ID:
Comm cuttings	<u>ents:</u> s. Locate TD	Split spo ed 34 ft N Dr = 60 ft	on samp of the c rafted by:	oling at 20 ft. All other were from urrent junction box site. Lara Weinheimer GW = 68 ft	Justis E-2 Location: UI Lat: 32°11'21.51 Long: 103°8'21.7	26 SB-6 L/E sec. 26 T24S R37 2"N County: Lea 756" W State: NM
Depth (feet)	chloride t tests (pp	field LA	B PID		Lithology	Bore Construction
			1	0 - 5 ft		
	100			VERY FINE TO FINE SAND; SANDSTONE		
5	1773		2.3	light brown, dry, no odor		
				5 - 10 ft		
				VERY FINE TO FINE SAND		
10	2027		1 2 2	light brown, dry, no odor		
10	2921		2.2	10 - 15 ft		
				VERY FINE TO FINE SAND		
15	2363	-	2			
	1000	_	- 1	15 - 20 π		
1				VERY FINE TO FINE SAND; SANDSTONE		
20	3646		2.7	orangey-brown, slightly moist, no odor		
	1					
25	3774	Cl- 276	3.3			
		GR0 <10.	0]		
		DR0 <10.	0	20 - 60 ft		
30	2029		0.7	VERY FINE TO FINE SAND		
	2020			orangey-brown, moist, no odor		
			+			bentonit
35	1197		1.2	1		seal
				1		
	L				100000000000000000000000000000000000000	

Depth (feet)	chloride field tests (ppm)	LAB	PID		Lithology		Bore Construction	
40	1834		1.4					
45	2085		1.7	20 - 60 ft				
50	2250		1.4	VERY FINE TO FINE SAND orangey-brown, moist, no odor		Start Party		
55	2167		0.7			at which where		
60	1910	CI- 2240 GRO <10.0 DRO	0.6					

Logger: Driller: Drilling Method: Start Date: End Date: Comments: from cuttings.		Lara weinneimer Harrison & Cooper, Inc. Drilling Air rotary 3/22/10 3/22/10 3/22/10 0510 20 30 40 Feet mts: Split spoon sampling at 15 - 30 ft. All other were tings. Located 47 ft N of the current junction box site. Drafted by: Lara Weinhelmer TD = 60 ft				Project Name: Well ID: Justis E-26 SB-7 Location: UL/E sec. 26 T24S R37E Lat: 32°11'21.64"N County: Lea Long: 103°8'21.763" W State: NM				
Depth (feet)	chloride t tests (pp	field om)	LAB	PID	Description		Lithology	Bo	re Co	nstructio
5	254		Cl-	0.1	0 - 10 ft VERY FINE TO FINE SAND; SANDSTONE light brown, dry, no odor		•			
10	4304		4720	2.1	10 - 15 ft VERY FINE TO FINE SAND; SANDSTONE light orangey-brown, dry, no odor		•			
20	2270			1	15 - 20 ft VERY FINE TO FINE SAND; SANDSTONE orangey-brown, slightly moist, no odor		-			
20	0791			1						
25	2349			0.8						
30	2059	,		0.7	20 - 60 ft VERY FINE TO FINE SAND orangey-brown, moist, no odor					
35	2073			1.3						bentonite seal

Depth (feet)	chloride field tests (ppm)	LAB	PID	Description	Lithology	Bore Construction
40	2067		1.2			
45	2170		1.3	20 - 60 ft		
50	2229		1.6	orangey-brown, moist, no odor		
55	2389		2.1			
60	2153	Cl- 2160	1.1			

Logger: N Harrison				poper, \$257 \$86 \$62 \$62		DEE OPERATING COMPR				
Driller: Drilling	Method:	A	c. Drilling	9 9 9 9 9 9 8 9 8 9 8 9 8 9 8 9 8 9						
Start Da	te:	3/	/22/2010	® SB4 MW1				1933		
End Dat	e:	3/	/22/2010	0 510 20 30 40 Feet	Pro	oject Name:		1	Well ID:	
Comm cutting	ents: s. Located 4 TD = 76	Split s 0 ft SE DRAFT ft	spoon s E of for ED BY I	sampling at 20 ft. All other from mer junction box site. LARA WEINHEIMER GW = 68 ft	Justis E-26 MW Location: UL/E sec. 26 T24S Lat: N32°11'20.856" County: Long: W103°8'21.517" State:			MW-1 6 T24S R37E County: LEA State: NM		
Depth (feet)	chloride field tests (ppm)	LAB	PID	Description		Lithology		Well C	Construction	
5	135	Cl- 32	0	0 - 15 ft VERY FINE TO FINE SAND; SANDSTONE					2 x 2 ft	
10	168		0	light brown, dry, no odor		•			on surface	
15	180		0.1	15 - 20 ft						
20	185	Cl- 16	0	VERY FINE TO FINE SAND; SANDSTONE orangey-brown, dry, no odor				ter PVC	bentonite	
30								2 in diamet		
40				NO SAMPLES TAKEN						
50										
60									sand pack	
70										
80							so	creen = 0.	.01"	

Logger: Kyle Norman Driller: Harrison & Cooper, Inc.		Kyle Norman Harrison & Cooper, Inc.		RECS				
Drilling M Start Dat End Date	rilling Method: Air rotary tart Date: 10/24/2011 nd Date: 10/24/2011		y 11 11	Bankry Ba	Project Name: Well ID: Justis E-26 MW-2			
Comme	ents: MW-2 bo TD =	is located ox site. All DRA 83 ft	i 240 ft n samples FTED BY:	orthwest of the former junction s were from cuttings. L. Weinheimer GW = 68 ft	Location: UL/E s Lat: 32°11'22.962 Long: 103°8'23.6	ec. 26 T24 2"N 311"W	IS R37E County: Lea State: NM	
Depth (feet)	Chlorid field test	e LAB	PID	Description	Lithology	Well C	onstruction	
				Brown Sand				
SS	114		0					
5 ft	122		0		technologia de la composition technologia de la composition			
10 ft	325	CI- 400 GRO	0.3	Tan Sand With Some Caliche	bacturation the strengths bacturation that the strengths bacturation the strengths bacturation the strengths bacturation the strengths bacturation the strengths			
		<10 DRO 17.6			ta fa factoria factoria ta factoria factoria ta factoria factoria ta factoria factoria	In PVC		
15 ft	208		0.5			2		
20 ft	219		0.6					
25 ft	174		1.6	Red Fine Sand			bentonite	
30 ft	150		0.6				seal	
35 ft	147		0					

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Co	nstructior
40 ft	113		0.2				
45 ft	120		0.2				
50 ft	143		0.1	Red Fine Sand			
55 ft	113		0.1				
60 ft	146		0.3				
65 ft	117	CI- 32 GRO <10 DRO	0.2				
70 ft		<10					
75 ft							sand pack
80 ft				NO SAMPLES TAKEN		• • • •	
85 ft						Adjancenter	
83 ft							





April 5, 2010

Hack Conder Rice Operating Company 122 West Taylor Hobbs, NM 88240

Re: Justis Jct. E-26 (Revised Report)

Enclosed are the results of analyses for sample number H19502, received by the laboratory on 03/22/10 at 9:50 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Method TX 1005 Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	
Method EPA 524.2	
Method EPA 524.2	

Haloacetic Acids (HAA-5) Total Trihalomethanes (TTHM) Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely. eene

Laboratory Director



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

Receiving Date: 03/22/10 Reporting Date: 04/05/10** Project Number: NOT GIVEN Project Name: JUSTIS JCT, E-26 Project Location: JUSTIS JCT, E-26 Sampling Date: 03/18/10 & 03/19/10 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: JH Analyzed By: AB/HM

GRO DRO

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

LAB NUMBER SAMPLE ID

ANALYSIS D	ATE	03/24/10	03/24/10	03/24/10
H19502-1	SB-2 @ 10'	<10.0	<10.0	3,760
H19502-2	SB-2 @ 65'	<10.0	<10.0	2,160
H19502-3	SB-3 @ 5'	<10.0	<10.0	144
H19502-4	SB-3 @ 30'	<10.0	<10.0	<16
H19502-5	SB-4 @ 20'	<10.0	<10.0	592
H19502-6	SB-4 @ 50'	<10.0	<10.0	160
H19502-7	SB-5 @ 15'	<10.0	<10.0	3,360
H19502-8	SB-5 @ 60'	<10.0	<10.0	1,380**
H19502-9	SB-6 @ 25'	<10.0	<10.0	2,760
H19502-10	SB-6 @ 60'	<10.0	<10.0	2,240
	······································			
Quality Contr	ol	506	535	490
True Value Q	С	500	500	500
% Recovery		101	107	98.0
Relative Perc	ent Difference	1.7	4.8	8.5

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. **REVISED REPORT

hemist

H19502 TCL 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 walved unless made in writing and received by Cardinal within thinty (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 subsidiarios, affiliates or successors origing 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

ARDINAL LABORATORIES

01	East Marland,	Hobbs, NM	88240	2111 Beechwood	, Abilene,	TX	79603

(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name	Rice Operating Company						karan Mahadara	BI	LL TO	uffic alle prof				1	ANAI	YSIS	6 RE	QUE	ST			
Project Manage	^{r:} Hack Conder					Ρ.	0. #:															
Address: 122	West Taylor					Ca	ompa	ny:							S		ł					
City: Hobbs	State: NM	Zij	p: 88	324	0	At	tn:								0		l					
Phone #: 393-	9174 Fax #: 397-1	471				Ac	Idres	s :					ł		Ū.		1	ļ				
Project #:	Project Owne	nr:				Ci	tv:			<u> </u>		Σ		-	S/P			l				
Project Name:	Justis ict. E-26				· · · · · · · · · · · · · · · · · · ·	St	ate:		Zip:		es	2		ā	Ĕ							1
Project Location: Justis ict. E-26						P	one	#:			<u>.</u>	6			E.							
Project Location: JUSIIS JCI. E-20						Fa	x #:				ē	8		l g	ů l							
FOR LAB USE ONLY		Т	T	T.	MATRIX	<u></u>	PRE	SERV	SAMPLI	NG	5	T		e	Ð							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER Soil Oil Sludge	OTHER :	ACID/BASE:	ICE / COOL OTHER :	DATE	TIME					Complet							
H19507-1	SB-2 @ 10'		1						3/18/10	01:32	1	1										
-2	SB-2 @ 65'	·	1						3/18/10	02:22	1	1		L								
-3	SB-3 @ 5'	Ŀ	1			L			3/19/10	08:39	1	1										
4	SB-3 @ 30'		1		1				3/19/10	09:04	1	1	L									
-5	SB-4 @ 20'		1			ľ			3/19/10	10:11	<u>/</u>	1					L					
-6	SB-4 @ 50'		1						3/19/10	10:46	1	1	<u> </u>	ļ								
	SB-5 @ 15'		1						3/19/10	12:36	<u> </u>	1	<u> </u>					<u> </u>				
8	SB-5 @ 60'		1	_		<u> </u>			3/19/10	01: 18	<u>/</u>	↓	 						ļ,			ļ
9	SB-6 @ 25'		1	L		ļ	 !		3/19/10	02:18	1	1	·					 				
1 10	ISB-6 @ 60'		1			1			3/19/10	02:38			1			ł .	1	ł	1	1 /	1 1	1

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Received By:	Phone Result: Ves Ø No Add'l Phone #:
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t Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476





April 7, 2010

Hack Conder Rice Operating Company 112 West Taylor Hobbs, NM 88240

Re: Justis Jct E-26

Enclosed are the results of analyses for sample number H19600, received by the laboratory on 04/05/10 at 4:50 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Method SW-846 8260 Method TX 1005

Benzene, Toluene, Ethyl Benzene, and Total Xylenes Benzene, Toluene, Ethyl Benzene, and Total Xylenes Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Method EPA 524.2 Method EPA 524.2 Haloacetic Acids (HAA-5) Total Trihalomethanes (TTHM) Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely. Celev D. Keene

Laboratory Director

This report conforms with NELAP requirements.



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: HACK CONDER **112 WEST TAYLOR** HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 04/05/10 Reporting Date: 04/06/10 Project Owner: NOT GIVEN Project Name: JUSTIS JCT. E-26 Project Location: JUSTIS JCT. E-26 Analysis Date: 04/06/10 Sampling Date: 03/22/10 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: JH Analyzed By: HM

		CI
LAB NO.	SAMPLE ID	(mg/kg)
H19600-1	SB-7 @ 10'	4,720
H19600-2	SB-7 @ 60'	2,160
H19600-3	MW-1 @ 5'	32
H19600-4	MW-1 @ 20'	16
		<u> </u>
······································		
······································		
Quality Cont	trol	500
True Value	QC	500
% Recovery		100
Relative Per	rcent Difference	2.0

METHOD: Standard Methods 4500-CI B Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemis

H19600 Rice

PLEASE NOTE: Liability and Damages. Cardinat's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount peld 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 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. Result relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name	Rice Operating Company					1.	.5993 .4.1.4	14-1-1454 N.S. 1454	81	LL TO	(*1.1992)-411-41 12.11 - 11.124 - 124	;			/	ANAL	YSIS	RE	QUE	ST		
Project Manage	r: Hack Conder					F	2.0.	#:														
Address: 122	West Taylor				·	c	om	pany	/:							S	1					
City: Hobbs	State: NM	Zip	: 88	324	D	A	ttn	;								Б						
Phone #: 393-9	9174 Fax #: 397-14	71				A	ddi	ress:								Ē						
Project #:	Project Owner	:				c	ity:						Σ		T	s/F						
Project Name:	Justis jct. E-26					s	tate	ə:		Zip:		<u><u> </u></u>	2 2	$\mathbf{\mathbf{v}}$	ā	Ë						
Project Locatio	n: Justis jct. E-26					P	hor	ne #:				i.	õ	μ	L S	ці́						
Sampler Name:	B. Baker					F	ax	#:				음			ă	ΰ						
FOR LAB USE ONLY			Γ		MATRIX	(P	RES	ERV.	SAMPLI	NG	Ō	ā		ê	<u>e</u>						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMF	# CONTAINERS	GROUNDWATER	WASTEWATER SOIL OIL	SLUDGE		ICE / COOL	OTHER :	DATE	TIME					Comple						
H19600-1	SB-7 @ 10'	Ĺ	1		1			1		3/22/10	08:37	1										
-2	SB-7 @ 60'		1		 ✓ 			1	1	3/22/10	09:28	1									 	
-3	MW-1 @ 5'		1					1		3/22/10	10:01	1									 	ļ
4	MW-1 @ 20'	 	1					\		3/22/10	10:08	✓.									 	
			ļ																		 	ļ
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PLEASE NOTE: Liability and Damages. Cardner's hability and cleart's exclusive remedy for any claim string whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including hose for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the applicable earlyses. In no event shall Cordinal be limble for incidential or consequential damages, including what limitation, business interruptions, less of taxe, or less of prefix incurred by client, its subsidiaries

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



November 01, 2011

Hack Conder Rice Operating Company 112 W. Taylor Hobbs, NM 88240

RE: JUSTIS E-26 (24/37)

Enclosed are the results of analyses for samples received by the laboratory on 10/25/11 8:06.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

Rice Operating Company Hack Conder 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	10/25/2011	Sampling Date:	10/24/2011
Reported:	11/01/2011	Sampling Type:	Soil
Project Name:	JUSTIS E-26 (24/37)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: MW - 2 @ 10' (H102314-01)

Chioride, SM4500CI-B mg/kg Analyzed By: AP Reporting Limit Analyte Result Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 400 16.0 10/27/2011 ND 416 104 400 3.77 TPH 8015M mg/kg Analyzed By: MS Analyte Result **Reporting Limit** Analyzed Method Blank True Value QC RPD Qualifier BS % Recovery GRO C6-C10 <10.0 10.0 10/28/2011 ND 167 83.4 200 3.24 DR0 >C10-C28 17.6 10.0 10/28/2011 ND 190 95.1 200 4.50 Surrogate: 1-Chlorooctane 85.2 % 55.5-154 Surrogate: 1-Chlorooctadecane 74.3 % 57.6-158

Sample ID: MW - 2 @ 65' (H102314-02)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chioride	32.0	16.0	10/27/2011	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/28/2011	ND	167	83.4	200	3.24	
DRO >C10-C28	<10.0	10.0	10/28/2011	ND	190	95.1	200	4.50	
Surrogate: 1-Chlorooctane	84.5	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	1179	% 57.6-15	8						

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*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including these for negligence and any other cause whetever shall be deemed waked 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 uses of uses of profits incurred by client, is substitutes, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the diversities restored services of uses.

Celey D.Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
•	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including troase for negligence and any other cause whetevere shall be limited to the amount paid by client for analyses. All claims, including troase for negligence and any other cause whetevere shall be deamed walved unless made in writing and received by Clardinal 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, atfliates or successors arising out of or related to the performance of the services hersunder by Clardinal, reparcless 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.

Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

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PLEASE NOTE: Liability and Damages, Cardina's leability and chent's exclusive remedy for any claim arising whether based in contract or cert, shall be invited to the amount paid by the client for the analyses, All claims including these by negligence and any other cause whoteoever shall be deemed waived unless made in writing and received by Card nativathin 30 days after completion of the applicable service. In no ovent shall Candral be liable for incidential or consequential damages, including without Institution, bushess interruptions, loss of use, or loss of profits incurrous by client, its substratives affiliates or successors profits incurrous by client, its substratives affiliates or successors profits incurrous of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is being out on any of the above stand response contentwise.

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hypella		REMARKS:
Relinguished By:	Date 2511 Received By:	email results
	TIMES EV- ADAI DOM NOCH	kjones@riceswd.com; knorman@rice-ecs.com;
Delivered By/ (Circle One)	(Sample Condition CHECKED BY:	Zconder@rice-ecs.com; Bbaker@rice-ecs.com;
Sampler - UPS - Bus - Other:	Cool Intact. ((diffais) Ø Yes 3 Yes No No	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com

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