

ANNUAL MONITORING REPORT

YEAR(S): 2007



Highlander Environmental Corp.

Midland, Texas

CERTIFIED MAIL RETURN RECEIPT NO. 7002 3150 0005 0508 7744

March 13, 2008

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

Re: 2007 Annual Groundwater Summary Report & Project Status Report, Rice Operating Company, Justis Saltwater Disposal System (SWD) Well #H-2, Unit H, Section 2, T-26-S, R-37-E, Lea County, New Mexico, NMOCD CASE #1R0423-01 (AP-49)

Dear Mr. Price:

Highlander Environmental Corp. (Highlander) takes this opportunity to submit the 2007 Annual Summary Report for the Rice Operating Company (ROC) Justis SWD Well #H-2 site located in the Justis Salt Water Disposal System (AP-49).

Background

On August 2, 2001, ROC submitted a Redwood Tank Replacement Closure Plan with the NMOCD. Tank replacement activities began at the Justis H-2 SWD facility on November 6, 2001 and are complete. On December 12, 2002, ROC submitted a Redwood Tank and Emergency Pit Closure Report for the Justis SWD Facility H-2. Soil samples were collected during tank replacement and sample results prompted the placement of monitor wells.

In January 2002, three (3) monitor wells were installed to evaluate groundwater in the vicinity of the H-2 injection facility. Originally, two monitor wells, MW-1 and MW-2 showed elevated chloride levels. On January 18, 2002, the NMOCD was notified of groundwater impact. After several quarterly sampling events, MW-2 continued to show elevated chloride levels. As a result, two (2) additional monitor wells were installed in February 2004.

On May 5, 2005, Daniel Sanchez with the NMOCD requested a Rule 19, Stage I Abatement Plan for the site. On July 13, 2005 a Stage I Abatement Plan was submitted to the NMOCD. The Stage I Abatement Plan approval was received, dated February 23, 2006.

1910 N. Big Spring

Midland, Texas 79705

(432) 682-4559

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Stage 2 Abatement Plan

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A Stage 2 Abatement Plan was prepared and submitted to the NMOCD on May 25, 2006. On June 7, 2006, the NMOCD certified the plan "Administratively Complete". A public notice was submitted and approved on July 21, 2006. Final approval for the Stage 2 Abatement plan was received on October 3, 2006. The abatement system, consisting of a solar/wind powered pump and Reverse Osmosis (R/O) system was installed on November 6, 2006. From January 3, 2007 through December 17, 2007, a total of 85,335 gallons of water had been pumped from MW-2, with 31,670 gallons of treated water re-injected into the aquifer at the site, and 53,665 gallons disposed into the permitted SWD well on site. Since startup, 100,042 total gallons have been removed from MW-2, with 41,370 gallons re-injected and 58,662 gallons disposed into the permitted SWD well on site.

All remediated water that is injected into MW-1 at the site is tested for chloride and conductivity prior to injection. During the initial year of system placement and adaptation of this system, there were periods of time when the system was down or not operating properly. During these maintenance and modification times, the pumped water was taken to disposal. When operating as designed, the system efficiency is 75% with 25% reject water waste sent for disposal. Due to the maintenance and modifications to the system, the overall unit treatment efficiency in 2007 was 37%, with the 63% reject water waste stream being sent to disposal.

Monitor Well Sampling

Monitor wells MW-2, MW-3, MW-4, MW-5 were sampled on March 15, June 13, September 17, or November 13, 2007 (Quarterly). Prior to sampling, the monitor wells MW-3, MW-4, and MW-5 were gauged for static water levels. The pumping well MW-2 and reinjection well MW-1 were not gauged throughout the year. All monitor well caps were opened and water level measurements were taken from the top of the casing. The measurements were taken to the nearest 0.01 feet.

Each well was purged using a portable submersible pump. Approximately three casing volumes of water were purged from each well prior to sampling. Between wells, the pump and associated tubing were decontaminated with a laboratory grade detergent and rinsed with deionized water. Cumulative water level measurements and purge volumes for the monitor wells are included in the Tables Section of this report.

Each well was inspected for the presence of phase-separated hydrocarbons (PSH). Groundwater samples were collected as soon as possible after the groundwater returned to its static level.

Groundwater samples were collected using clean disposable polyethylene bailers and disposable line. The samples were transferred into labeled and preserved containers provided by the laboratory. All of the samples were delivered under proper chain-of-custody control to Environmental Labs of Texas, Inc., Odessa, Texas and Cardinal Labs of Hobbs, New Mexico. The groundwater samples were analyzed for major anions, by methods 310.1, 9253 and 375.4, cations by method 6010B, Total Dissolved Solids (TDS) by method 160.1 and Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) by method EPA 8021B. Copies of the laboratory reports are enclosed in Appendix A.

Water table maps were generated for all four quarterly sampling events, using the water level measurement data and are included as Figures 3-6. The general hydraulic gradient appears to be consistently towards the north-northwest. However, with the advent of pumping from monitor well MW-2, the gradient has changed to the northeast for the June 13, 2007 sampling event.

Monitor Well Sample Results

Chloride concentrations from monitor wells MW-3, MW-4 and MW-5 were all at or below the New Mexico Water Quality Control Commission (WQCC) standards of 250 mg/L during all four quarters of 2007. MW-2 exceeded the WQCC standards for all four quarters. Samples were not obtained in monitor well MW-1 since it is utilized as an injection well. No BTEX concentrations were detected at or above reporting limits in 2007. Cumulative analytical data is summarized in the Table Section of this report.

Conclusions

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- 1. In 2007, there were no BTEX constituents at or above the New Mexico Water Quality Control Commission (WQCC) standards.
- 2. Chloride and TDS concentrations from monitor wells MW-3, MW-4 and MW-5 were all at or below the New Mexico Water Quality Control Commission (WQCC) standards of 250 mg/L and 1000 mg/L, respectively, during all four quarters of 2007. MW-2 exceeded the WQCC standards for all four quarters. Samples were not obtained from MW-1 since it is utilized as an injection well.
- 3. Since installation of the remediation system in November 2006, a total of 100,042 total gallons have been removed from MW-2, with 41,370 gallons re-injected and 58,662 gallons disposed into the permitted SWD well on site. Down time due to system maintenance and modification times reduced the normally expected 75% efficiency of the system to be reduced to 37% for 2007. In addition, 63% of the water generated by the system in 2007 was sent to the SWD well.
- 4. Quarterly monitoring at this site will continue and an annual report will be prepared and submitted to the NMOCD in the first quarter of 2009.



Respectfully Submitted, HIGHLANDER ENVIRONMENTAL CORP.

Timothy M. Reed, P.G. Vice President

cc: ROC, Edward Hansen – NMOCD Enclosures: Figures, Tables, Laboratory Analysis

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			Comments																						
			Sulfate		116	190	XX	202	194	200	196	186	180	227	349	175	215	169	166	133	114	157	151	194	47.6
			Total Xylenes		<0.002	XXX	0.066	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00108	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
			Ethyl Benzene		<0.002	XXX	0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
			Toluene I		<0.002	XXX	0.008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Operating		v Mexico	Benzene		<0.002	XXX	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.013	<0.001	0.0056	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
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Rice		Le	Sample	Date	01/03/02	03/01/02	06/10/02	08/16/02	11/12/02	02/13/03	05/20/03	09/16/03	12/16/03	03/11/04	06/28/04	09/23/04	12/21/04	03/29/05	06/16/05	09/15/05	12/05/05	02/27/06	06/14/06	09/13/06	12/05/06
			Volume	Purged	56.4	XXX	XXX	66.0	0.09	70.0	70.0	70.0	70.0	70.0	70.0	70.0	68.0	75.0	80.0	XXX	100.0	100.0	100.0	100.0	100.0
			Well	Valume	18.80	XXX	31.50	31.80	31.70	31.80	31.70														
			Total	Depth	145.00	XXX	XXX	137.00	144.00	144.00	144.00	144.00	144.00	144.00	144.00	144.00	144.00	144.00	144.00	XXX	153.00	153.00	153.00	153.00	153.00
			Depth to	Water	116.20	XXX	XXX	116.20	123.32	122.95	123.34	122.94	123.19	122.43	122.24	122.22	122.18	121.97	122.08	XXX	122.12	121.81	121.94	121.80	121.89
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Rice Engineering Operating A Lea County, New Mexico Lea County, New Mexico WW Depth to Total Well Point Total Yell 12 102 1340 Vell Vell <t< td=""><td></td><td></td><td>Sulfate</td><td></td><td>120</td><td>150</td><td>243</td><td>188</td><td>200</td><td>216</td><td>215</td><td>167</td><td>202</td><td>164</td><td>208</td><td>198</td><td>210</td><td>186</td><td>221</td><td>196</td><td>134</td><td>139</td><td>204</td><td>166</td><td>156</td><td>222</td><td>193</td><td>234</td><td>177</td></t<>			Sulfate		120	150	243	188	200	216	215	167	202	164	208	198	210	186	221	196	134	139	204	166	156	222	193	234	177
Mit Depth to Total Well Notater Douber Ethica Avater Depth to Total Well Notater Depth Notater Total Net Z 1/2.00 Total Well Volume Sample Cl TDS Benzene Totulene Ethi Net Z 1/2.00 T42.60 173.40 40.3 0107/102 700 700 7001			Total Xylenes		<0.002	XXX	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.006	<0.003
Rice Engineering Operating H-2 And Water Depth to Water Depth Volume Sample Cl TDS Benzene Toluene 2 122:00 142:00 13:40 40:3 01/07/02 18:33 90:0 colop2 colop2 colop2 2 122:00 142:00 XXX XXX XXX 00:0 700 1780 60:001 60:001 2 121:01 142:00 XXX 25:0 08/16/02 1040 3590 60:001 60:001 2 121:01 142:00 XXX 25:0 09/16/03 110'1 2780 60:001 60:001 2 121:01 142:00 XXX 25:0 09/16/03 10'0 35:0 00:011 60:011 2 121:01 142:00 XXX 25:0 09/16/03 10'0 60:01 60:01 2 121:02 142:00 XXX 27:00 12:00			Ethyl Benzene		<0.002	XXX	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001
MW Depth to Total Well Volume Sample Cl TDS 2 122.00 142.60 13.40 40.3 01/07/02 1839 3908 <0.002			Toluene		<0.002	XXX	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001
Fice Engineering H-2 MW Depth to Water Total Well Volume Sample CI TDS 2 122.00 142.60 13.40 40.3 01/07/02 1839 3908 2 XXX XXX XXX XXX 03/01/02 700 1780 2 122.00 142.00 XXX 25.0 03/16/02 1040 3390 2 121.70 142.00 XXX 25.0 03/11/02 1130 3600 2 121.70 142.00 XXX 25.0 03/11/02 1130 3600 2 121.70 142.00 XXX 25.0 03/11/02 1130 3600 2 121.70 142.00 XXX 25.0 09/16/03 1770 340 2 121.70 142.00 XXX 25.0 09/16/02 1100 2780 2 121.70 142.00 X	Operating	v Mexico	Benzene		<0.002	XXX	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	0.032	<0.001	0.0112	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001
MW Depth to Nater Total Well Volume Sample Cl 2 122:00 Total Well Volume Sample Cl 2 XXX XXX XXX XXX Date Cl 2 122:00 13:40 40.3 01/07/02 1839 Cl 2 122:10 142:00 XXX XXX 05/23/02 904 2 121.71 142:00 XXX 25:0 08/16/02 1040 2 121.71 142:00 XXX 25:0 03/17/02 1130 2 121.71 142:00 XXX 25:0 03/17/02 1130 2 121.70 142:00 XXX 25:0 03/17/04 1200 2 121.71 142:00 XXX 25:0 03/17/04 1200 2 121.74 142:00 XXX 25:0 03/17/04 1200 2 121.74 142:00 XXX	ieering H-2	ty, Nev	TDS		3908	1780	2710	3390	2600	2780	3600	3540	2490	3660	6290	3760	2877	2620	3080	3240	2630	3450	3520	2,560	2,300	3,540	3,820	3,820	3053
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			Depth to	Water	122.00	XXX	XXX	121.85	122.10	121.71	122.08	121.70	122.00	121.87	121.74	121.70	121.65	121.45	121.58	XXX	121.52	121.40	121.40	121.34	Pump	Pump	Pump	Pump	Pump
			MΜ		2	2	2	2	2	2	2	2	2	7	2	2	2	7	7	2	2	2	.2	2	2	2	2	2	2



			Comments																											
			Sulfate		145	167	182	238	219	250	278	184	184	204	203	295	242	272	215	180	139	131	123	151	170	164	226	193	201	223
			Total Xylenes		<0.015	XXX	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.006	<0.003
			Ethyl Benzene		<0.005	XXX	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00144	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001
			Toluene		<0.005	ХХХ	<0.001	<0.001	0.014	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001
Operating	-	w Mexico	Benzene		<0.005	XXX	<0.001	<0.001	0.030	<0.001	<0.001	<0.001	<0.001	0.013	<0.001	0.0124	0.00113	0.0127	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001
ieering	H-2	nty, Ne	TDS		577	561	570	631	688	666	885	568	568	517	666	735	203	1057	670	535	664	450	562	514	610	486	532	512	564	537
Engin)	a Cour	U		48	37.2	35.4	93.1	97.5	102	168	204	204	40.8	65	124	115	154	108	62.4	56.4	30.7	26.8	38.3	28	26.1	77.6	86.9	36	32
Rice		Le	Sample	Date	01/07/02	03/01/02	05/16/02	08/16/02	11/12/02	02/13/03	05/20/03	09/16/03	09/16/03	12/16/03	03/11/04	06/28/04	09/23/04	12/21/04	03/29/05	06/16/05	09/15/05	12/05/05	02/27/06	06/14/06	09/13/06	12/05/06	03/15/07	06/13/07	09/11/02	11/13/07
			Volume	Purged	30.1	XXX	XXX	20.0	25.0	25.0	25.0	25.0	25.0	30.0	30.0	30.0	25.0	7.0	25.0	30.0	XXX	20.0	15.0	15.0	15.0	10.0	10.0	10.0	10.0	10.0
			Well	Volume	10.00	XXX	2.50	2.50	2.50	2.50	2.50	2.40	2.40	2.50	2.40															
			Total	Depth	137.50	XXX	XXX	133.00	133.00	133.00	133.00	133.00	133.00	133.00	133.00	133.00	133.00	133.00	133.00	133.00	XXX	133.70	133.70	133.70	133.70	133.70	133.40	133.40	133.40	133.40
			Depth to	Water	122.10	XXX	XXX	118.68	118.90	118.53	118.87	118.53	118.53	118.79	118.71	118.53	118.52	118.52	118.31	118.41	XXX	118.25	118.18	118.18	118.23	118.21	118.26	118.49	118.07	118.23
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			Comments													Clear/no odor				
			Sulfate		174	225	180	210	186	179	135	136	136	157	180	176	211	149	220	222
			Total Xylenes		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.006	<0.003
			Ethyl Benzene		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001
			Toluene		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001
Operating		w Mexico	Benzene		<0.001	0.00749	<0.001	0.00275	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001
eering	H-2	ty, Nev	TDS		610	596	648	865	506	543	634	496	542	564	746	476	514	534	612	547
Engin		Coun	Ū		35.4	57.6	53.2	59.1	55.7	49.8	48.2	29.1	29.1	39.6	31.3	30.0	40.8	30.3	40.0	36.0
Rice		Lea	Sample	Date	03/11/04	06/28/04	09/23/04	12/21/04	03/29/05	06/16/05	09/15/05	12/05/05	02/27/06	06/14/06	09/13/06	12/05/06	03/15/07	06/13/07	09/17/07	11/13/07
			Volume	Purged	30.0	30.0	25.0	8.0	25.0	30.0	XXX	20.0	20.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
			Well	Volume	XXX	3.10	3.20	3.20	3.20	3.20	3.10	3.10	3.10	3.10						
		2:	Total	Depth	137.00	137.00	137.00	137.00	137.00	137.00	XXX	141.40	141.40	141.40	141.40	141.40	140.95	140.95	140.95	140.95
			Depth to	Water	122.12	121.96	121.93	121.88	121.66	121.80	XXX	121.81	121.59	121.61	121.62	121.63	121.65	121.58	121.45	121.64
			MM		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4



		Comments												-	Clear/no odor				
		Sulfate		198	238	224	224	201	187	136	142	139	152	186	173	220	156	227	234
		Total Xylenes		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.006	<0.003
		Ethyl Benzene		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001
		Toluene		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001
Operating	Mexico	senzene		<0.001	0.0105	<0.001	0.00292	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001
eering (H-2	ty, New	TDS E		894	1130	792	1072	636	767	852	662	696	786	984	748	766	842	668	669
Engine	a Coun	Ū		195	310	160	165	202	172	147	159	167	197	209	186	255	189	68	100
Rice	Le	Sample	Date	03/11/04	06/28/04	09/23/04	12/21/04	03/29/05	06/16/05	09/15/05	12/05/05	02/27/06	06/14/06	09/13/06	12/05/06	03/15/07	06/13/07	09/17/07	11/13/07
		Volume	Purged	30.0	30.0	25.0	8.0	25.0	30.0	XXX	20.0	20.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
		Well	Volume	XXX	3.20	3.30	3.30	3.20	3.20	3.10	3.10	3.10	3.10						
		Total	Depth	135.00	135.00	135.00	135.00	135.00	135.00	XXX	140.00	140.00	140.00	140.00	140.00	138.80	138.80	138.80	138.80
		Depth to	Water	120.15	120.04	119.98	119.93	119.73	119.88	XXX	119.80	119.68	119.65	119.69	119.74	119.72	119.65	119.53	119.70
		MM		5	5	5	5	5	5	5	5	5	5	5	5	5	5	S	5

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APPENDIX A

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	Rice Opera	aung con	ipany - I	n-2 ku sy	ystem Opera	iuny Recap.	· 2007
				•			Waste water
				MW-2	Water injected		metered to
		Field Cl-	Lab Cl-	Conductivity	into MW-1 from		disposal in
Date	Activity	mg/L	mg/L	or Lab data	T-2 in gallons		gallons
1/3/2007	discharge to MW-1	70	56		750	73.60	552
1/5/2007	discharge to MW-1	60			500	68.60	343
1/8/2007	discharge to MW-1	60			600	88.33	530
1/9/2007	discharge to MW-1	80			400	25.50	102
1/12/2007	discharge to MW-1	80			625	70.72	442
1/25/2007	discharge to MW-1	55			380	117.37	446
3/15/2007	discharge to MW-1				725	1084.14	7860
3/27/2007	discharge to MW-1	50			2500	42.04	1051
4/26/2007		59	56		1500	227.93	3419
4/27/2007		49			800	50.00	400
5/4/2007		59			1775	114.20	2027
5/11/2007		69			1125	224.80	2529
6/8/2007		45			1750	305.37	5344
9/10/2007		80			1950	400.21	7804
10/3/2007		130			1525	46.16	704
11/30/2007		30			1090	579.91	6321
12/4/2007		40			200	613.50	1227
12/5/2007		30			1300	50.54	657
12/10/2007		30			2200	72.41	1593
12/17/2007		80			275	1929.82	5307
	Totals	· · · · · ·			21970		48658
		· · · ·			21010		
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Rice Operating Company - H-2 RO System Operating Recap - 2007

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APPENDIX B

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A Xenco Laboratories Company

Analytical Report

Prepared for: Kristin Farris-Pope Rice Operating Co. 122 W. Taylor Hobbs, NM 88240

Project: Justis H-2 SWD Project Number: None Given Location: T26S R37E Sec2H Lea County, NM

Lab Order Number: 7C20014

Report Date: 04/05/07

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Project:Justis H-2 SWDProject Number:None GivenProject Manager:Kristin Farris-Pope

Fax: (505) 397-1471

ANALYTICAL REPORT FOR SAMPLES

Г				
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #2	.7C20014-01	Water	03/15/07 11:50	03-20-2007 13:45
Monitor Well #3	7C20014-02	Water	03/15/07 09:50	03-20-2007 13:45
Monitor Well #4	7C20014-03	Water	03/15/07 11:00	03-20-2007 13:45
Monitor Well #5	7C20014-04	Water	03/15/07 12:05	03-20-2007 13:45

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g Co. r 8240 Project: Justis H-2 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

Organics by GC

Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #2 (7C20014-01) Water									
Benzene	ND	0.00100	mg/L	I	EC72814	03/28/07	03/28/07	EPA 8021B	
Toluene	ND	0.00100	"	D		Η		,,	
Ethylbenzene	ND	0.00100	н	0	"	n	"	"	
Xylene (p/m)	ND	0.00100	п	н	•	n	"	11	
Xylene (0)	ND	0.00100	n	п	"	"	"	**	
Surrogate: a,a,a-Trifluorotoluene		96.2 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.2 %	80-1	20	"	"	. "	"	
Monitor Well #3 (7C20014-02) Water			•						
Benzene	ND	0.00100	mg/L	l	EC72814	03/28/07	03/28/07	EPA 8021B	
Toluene	ND	0.00100	n	"	"			11	
Ethylbenzene	ND	0.00100	"	"	"	п	"		
Xylene (p/m)	ND	0.00100	, "	н	"	n	"	•	
Xylene (0)	ND	0.00100			"	"	"		
Surrogate: a,a,a-Trifluorotoluene		93.8 %	80-1	20	. "	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.4 %	80-1	120	"	"	<i>n</i> ·	"	
Monitor Well #4 (7C20014-03) Water									
Benzene	ND	0.00100	mg/L	1	EC72814	03/28/07	03/28/07	EPA 8021B	
Toluene	ND	0.00100	н		н	"	"	•	
Ethylbenzene	ND	0.00100	"	u	"	"	"	*	
Xylene (p/m)	ND	0.00100	"	"	"	0	"	••	
Xylene (0)	ND	0.00100	н	"	"		"	••	
Surrogate: a,a,a-Trifluorotoluene		89.2 %	80-1	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.4 %	80-1	120	"	"	"	"	
Monitor Well #5 (7C20014-04) Water									
Benzene	ND	0.00100	mg/L	1	EC72814	03/28/07	03/28/07	EPA 8021B	
Toluene	ND	0.00100	"	н	n	н	"	и	
Ethylbenzene	ND	0.00100	"	н	n	11	"	11	
Xylene (p/m)	ND	0.00100		ч	"	**	"	"	
Xylene (0)	ND	0.00100	11	п	н	"	"	и	
Surrogate: a,a,a-Trifluorotoluene	-1/mar	106 %	80-1	120	"	"	"	11	
Surrogate: 4-Bromofluorobenzene		84.8 %	80-1	120	n	"	n	"	

Environmental Lab of Texas

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Project: Justis H-2 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #2 (7C20014-01) Water					······				
Total Alkalinity	210	2.00	mg/L	l	EC72808	03/28/07	03/28/07	EPA 310.1M	
Chloride	1810	25.0	**	50	EC72304	03/22/07	03/23/07	EPA 300.0	
Total Dissolved Solids	3540	10.0	**	Ĩ	EC72210	03/21/07	03/22/07	EPA 160.1	
Sulfate	222	25.0	"	50	EC72304	03/22/07	03/23/07	EPA 300.0	
Monitor Well #3 (7C20014-02) Water									
Total Alkalinity	260	2.00	mg/L	1	EC72808	03/28/07	03/28/07	EPA 310.1M	
Chloride	77.6	25.0	"	50	EC72304	03/22/07	03/23/07	EPA 300.0	
Total Dissolved Solids	532	10.0	и	1	EC72210	03/21/07	03/22/07	EPA 160.1	
Sulfate	226	25.0	н	50	EC72304	03/22/07	03/23/07	EPA 300.0	
Monitor Well #4 (7C20014-03) Water									
Total Alkalinity	188	2.00	mg/L	1	EC72808	03/28/07	03/28/07	EPA 310.1M	
Chloride	40.8	5.00	**	10	EC72304	03/22/07	03/23/07	EPA 300.0	
Total Dissolved Solids	514	10.0	"	I	EC72210	03/21/07	03/22/07	EPA 160.1	
Sulfate	211	5.00	*	10	EC72304	03/22/07	03/23/07	EPA 300.0	
Monitor Well #5 (7C20014-04) Water									
Total Alkalinity	158	2.00	mg/L	1	EC72808	03/28/07	03/28/07	EPA 310.1M	
Chloride	255	5.00	"	10	EC72304	03/22/07	03/23/07	EPA 300.0	
Total Dissolved Solids	766	10.0	"	1	EC72210	03/21/07	03/22/07	EPA 160.1	
Sulfate	220	5.00	"	10	EC72304	03/22/07	03/23/07	EPA 300.0	

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Project: Justis H-2 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #2 (7C20014-01) Water									
Calcium	352	8.10	mg/L	100	EC73011	03/30/07	03/30/07	EPA 6010B	
Magnesium	168	1.80	н	50	11	н	"	н	
Potassium	17.8	0.600	н	10	n	"	"	"	
Sodium	290	2.15	"	50	"		н	"	
Monitor Well #3 (7C20014-02) Water									
Calcium	58.0	0.810	mg/L	10	EC73011	03/30/07	03/30/07	EPA 6010B	
Magnesium	28.9	0.360	"	"	"	"	"	"	
Potassium	4.66	0.600	"		n	11	u	"	
Sodium	60.1	0.430	"	ч	H	11	fr .	н	
Monitor Well #4 (7C20014-03) Water									
Calcium	48.6	0.810	mg/L	10	EC73011	03/30/07	03/30/07	EPA 6010B	
Magnesium	25.7	0.360	"	"	11	"	и	"	
Potassium	4.38	0.600	"	п	. 11		н		
Sodium	55.2	0.430	"	п	п	**	h	"	
Monitor Well #5 (7C20014-04) Water	· · · · ·			•					
Calcium	102	4.05	ıng/L	50	EC73011	03/30/07	03/30/07	EPA 6010B	
Magnesium	43.5	0.360	"	10		н	п	"	
Potassium	5.96	0.600		"	"	u			
Sodium	78.2	2.15	*	50	"	"	н		

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Project: Justis H-2 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC72814 - EPA 5030C (GC)										

Blank (EC72814-BLK1)				Prepared &	Analyzed	03/28/07		
Benzene	ND	0.00100	mg/L					
Toluene	ND	0.00100	"					
Ethylbenzene	ND	0.00100	"					
Xylene (p/m)	ND	0.00100	"					
Xylene (0)	ND	0.00100	"					
Surrogate: a,a,a-Trifluorotoluene	47.4		ug/l	50.0		94.8	80-120	
Surrogate: 4-Bromofluorobenzene	42.2		n	50.0		84.4	80-120	
LCS (EC72814-BS1)				Prepared &	Analyzed	: 03/28/07		
Benzene	0.0513	0,00100	ıng/L	0.0500		103	80-120	
Toluene	0.0493	0.00100	2	0.0500		98.6	80-120	
Ethylbenzene	0.0500	0.00100	"	0.0500		100	80-120	
Xylene (p/m)	0.0943	0.00100	'n	0.100		94.3	80-120	
Xylene (0)	0.0511	0,00100	**	0.0500		102	80-120	
Surrogate: a,a,a-Trifluorotoluene	49.9		ug/l	50.0		99.8	80-120	
Surrogate: 4-Bromofluorobenzene	44.7		"	50.0		89.4	80-120	
Calibration Check (EC72814-CCV1)				Prepared: 0	3/28/07 A	nalyzed: 0	3/29/07	
Benzene	50.9		ug/l	50.0		102	80-120	
Toluene	49.5		н	50.0		99.0	80-120	
Ethylbenzene	50.4		н	50.0		101	80-120	
Xylene (p/m)	93.8		0	100		93.8	80-120	
Xylene (0)	52.6		. "	50.0		105	80-120	
Surrogate: a,a,a-Trifluorotoluene	51.0		n	50.0		102	80-120	
Surrogate: 4-Bromofluorohenzene	47.9		"	50,0		95.8	80-120	
Matrix Spike (EC72814-MS1)	Sou	rce: 7C20014	-02	Prepared: 0	3/28/07 A	nalyzed: 0	3/29/07	
Benzene	0.0523	0.00100	ing/L	0.0500	ND	105	80-120	
Toluene	0.0500	0.00100	"	0.0500	ND	100	80-120	
Ethylbenzene	0.0524	0.00100	**	0.0500	ND	105	80-120	
Xylene (p/m)	0.0955	0.00100	"	0.100	ND	95.5	80-120	
Xylene (0)	0.0533	0.00100		0.0500	ND	107	80-120	
Surrogate: a,a,a-Trifluorotoluene	52.9		ug l	50.0		106	80-120	
Surrogate: 4-Bromofluorobenzene	46.7		"	50.0		93.4	80-120	

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Project: Justis H-2 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

Organics by GC - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch EC72814 - EPA 5030C (GC)

Matrix Spike Dup (EC72814-MSD1)	Source: 7C20014-02			Prepared: 03/28/07 Analyzed: 0			3/29/07		
Benzene	0.0527	0.00100	mg/L	0.0500	ND	105	80-120	0.00	20
Toluene	0.0502	0.00100		0.0500	ND	100	80-120	0.00	20
Ethylbenzene	0.0515	0.00100	"	0.0500	ND	103	80-120	1.92	20
Xylene (p/m)	0.0950	0.00100		0.100	ND	95.0	80-120	0.525	20
Xylene (o)	0,0528	0.00100	'n	0.0500	ND	106	80-120	0.939	20
Surrogate: a,a,a-Trifluorotoluene	52.5		ug/l	50.0		105	80-120		
Surrogate: 4-Bromofluorobenzene	44.6		"	50.0		89.2	80-120		

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Project: Justis H-2 SWD Project Number: None Given Project Manager: Kristin Farris-Pone

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General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas										
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Part I IC 22210	WatCham					/				
Baten EC/2210 - General Preparation (weiChem)	, n -			02/01/07		100/07			
Blank (EC72210-BLK1)			~	Prepared: (J3/21/07 A	(nalyzed: 03	/22/07			
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EC72210-DUP1)	Sour	rce: 7C21003-	-01	Prepared: 03/21/07 Analyzed: 03/22/07						
Total Dissolved Solids	442	10.0	mg/L		462			4.42	20	
Duplicate (EC72210-DUP2)	Sou	Source: 7C20016-03		Prepared: (03/21/07 A	Analyzed: 03	/22/07			
Total Dissolved Solids	566	10.0	mg/L		574			1.40	20	
Batch EC72304 - General Preparation ((WetChem)									
Blank (EC72304-BLK1)				Prepared: (03/22/07 A	Analyzed: 03	8/23/07			
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
LCS (EC72304-BS1)				Prepared: 03/22/07 Analyzed: 03/23/07						
Sulfate	9.16	0.500	mg/L	10.0		91.6	80-120	-		
Chloride	8.95	0.500	"	10.0		89.5	80-120			
Calibration Check (EC72304-CCV1)				Prepared:	03/22/07 A	Analyzed: 03	3/23/07			
Sulfate	10.3		mg/L	10.0		103	80-120			
Chloride	9.20			10.0		92.0	80-120			
Duplicate (EC72304-DUP1)	Sou	rce: 7C19004	-62	Prepared:	03/22/07 A	Analyzed: 03	3/23/07			
Chloride	90.3	5.00	mg/L		92.6	-		2.52	20	
Sulfate	244	5.00	"		245			0.409	20	
Duplicate (EC72304-DUP2)	Sou	rce: 7C20014	-03	Prepared:	03/22/07 A	Analyzed: 03	3/23/07			
Sulfate	212	5.00	mg/L		211			0.473	20	
Chloride	41.0	5.00	"		40.8			0.489	20	

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

		Reporting		Snike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC72304 - General Preparatio	on (WetChem)									
Matrix Spike (EC72304-MS1)	Sourc	e: 7C19004-	62	Prepared: ()3/22/07 A	nalyzed: 03	/23/07			
Chloride	220	5.00	mg/L	100	92.6	127	80-120			N
Sulfate	389	5.00	"	100	245	144	80-120			N
Matrix Spike (EC72304-MS2)	Sourc	Source: 7C20014-03			Prepared: 03/22/07 Analyzed: 03/23/07					
Chloride	171	5.00	ıng/L	100	40.8	130	80-120			N
Sulfate	364	5.00	n	100	211	153	80-120			M
Batch EC72808 - General Preparatio	on (WetChem)									
Blank (EC72808-BLK1)				Prepared & Analyzed: 03/28/07						
Total Alkalinity	ND	2.00	mg/L							
LCS (EC72808-BS1)				Prepared &	k Analyzed	: 03/28/07				
Bicarbonate Alkalinity	176	2.00	mg/L	200		88.0	85-115			
Duplicate (EC72808-DUP1)	Sourc	e: 7C20014	·01	Prepared &	Prepared & Analyzed: 03/28/07					
Total Alkalinity	200	2.00	mg/L	· .	210			4.88	20	
Reference (EC72808-SRM1)				Prepared &	k Analyzed	: 03/28/07				
Total Alkalinity	246		mg/L	250		98.4	90-110			

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Total Metals by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

	· · · · · ·									
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch EC73011 - 6010B/No Digestion

Blank (EC73011-BLK1)				Prepared & Analy	yzed: 03/30/07				
Calcium	ND	0.0810	mg/L						
Magnesium	ND	0.0360	19						
Potassium	ND	0.0600		,					
Sodium	ND	0.0430	**						
Calibration Check (EC73011-CCV1)	Prepared & Analyzed: 03/30/07								
Calcium	2.29		mg/L	2.00	114	85-115			
Magnesium	1.89		"	2.00	94.5	85-115			
Potassium	1.78		n	2.00	89.0	85-115			
Sodium	1.77		н	2.00	88.5	85-115			
Duplicate (EC73011-DUP1)	Sour	ce: 7C20014-	02	Prepared & Anal	yzed: 03/30/07				
Calcium	49.8	0.810	mg/L	58	.0		15.2	20	
Magnesium	25.0	0.360		28	.9		14.5	20	
Potassium	4.29	0.600	**	4.0	66		8.27	20	
Sodium	51.4	0.430	"	60	.1		15.6	20	

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Rice Ope 122 W. T Hobbs N	verating Co. Taylor NM, 88240	Project: Project Number: Project Manager:	Project: Justis H-2 SWD Fa Project Number: None Given Project Manager: Kristin Farris-Pope					
		Notes and De	finitions					
MI	The MS and/or MSD were above the a	cceptance limits due to sample m	atrix interference. See Blank Spike (LC	S) .				
DET	Analyte DETECTED							
ND	Analyte NOT DETECTED at or above the	reporting limit						
NR	Not Reported							
dry	Sample results reported on a dry weight bas	sis						
RPD	Relative Percent Difference							
LCS	Laboratory Control Spike							
MS	Matrix Spike		•					
Dup	Duplicate							

Report Approved By:

Celey D. Keene, Org. Tech Director

Raland K. Tuttle, Laboratory Consultant

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James Mathis, QA/QC Officer Jeanne Mc Murrey, Inorg. Tech Director

4/5/2007

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Brent Barron, Laboratory Director/Corp. Technical Director

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Date:

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Environmental Lab of Texas

Variance/	Corrective	Action	Report-	Sample	Log-In
-----------	------------	--------	---------	--------	--------

Client:	Rice Operating
Date/ Time:	03-20-67 C1345
Lab ID # :	7(20014
Initials:	JMM

Sample Receipt Checklist

5				Client Init	ials
#1	Temperature of container/ cooler?	Yes	No	2.0 °C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(es)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Ves	No	See Below	
#13	Samples properly preserved?	Ves	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yez	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

Contact Contacted by: Date/ Time: Regarding: Corrective Action Taken: Check all that Apply: See attached e-mail/ fax Client understands and would like to proceed with analysis

Cooling process had begun shortly after sampling event



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Analytical Report

Prepared for: Kristin Farris-Pope Rice Operating Co. 122 W. Taylor Hobbs, NM 88240

Project: Justis H-2 SWD Project Number: None Given Location: T26S R37E Sec2H ~ Lea County New Mexico

Lab Order Number: 7F14020

Report Date: 06/27/07

Project: Justis H-2 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #2	7F14020-01	Water	06/13/07 11:15	06-14-2007 13:45
Monitor Well #3	7F14020-02	Water	06/13/07 12:20	06-14-2007 13:45
Monitor Well #4	7F14020-03	Water	06/13/07 13:35	06-14-2007 13:45
Monitor Well #5	7F14020-04	Water	06/13/07 14:40	06-14-2007 13:45

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Project: Justis H-2 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #2 (7F14020-01) Water									
Benzene	ND	0,00100	mg/L	1	EF71906	06/19/07	06/19/07	EPA 8021B	
Toluene	ND	0.00100	н	11	•	"	"	n	•
Ethylbenzene	ND	0.00100	"	н	"	"		n	
Xylene (p/m)	ND	0,00100	· n	н	"	н		n	
Xylene (o)	ND	0.00100	"	**	"	n		••	
Surrogate: a,a,a-Trifluorotoluene		95.0 %	80-12	20	"	н	"	"	
Surrogate: 4-Bromofluorobenzene		88.8 %	80-12	20	"	"	"	"	
Monitor Well #3 (7F14020-02) Water		_							
Benzene	ND	0.00100	mg/L	1	EF71906	06/19/07	06/20/07	EPA 8021B	
Toluene	ND	0.00100	н		**	и	н		
Ethylbenzene	ND	0.00100	u	н	11	"	•• .	"	
Xylene (p/m)	ND	0.00100	n	н	19	"			
Xylene (o)	ND	0.00100	u ^r	n	и		n	"	
Surrogate: a,a,a-Trifluorotoluene		93.8 %	80-12	20	"	"	"	· "	
Surrogate: 4-Bromofluorobenzene		88.2 %	80-12	20	"	"	"	"	
Monitor Well #4 (7F14020-03) Water									
Benzene	ND	0.00100	mg/L	1	EF71906	06/19/07	06/20/07	EPA 8021B	
Toluene	ND	0.00100	н		0				
Ethylbenzene	ND	0.00100	"	"	"	"	"	n	
Xylene (p/m)	ND	0.00100	"		tr	"	"		
Xylene (o)	ND	0.00100	"		"	"	"		
Surrogate: a,a,a-Trifluorotoluene		102 %	80-12	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.8 %	80-12	?0	"	"	"	"	
Monitor Well #5 (7F14020-04) Water									
Benzene	ND	0.00100	mg/L	1	EF71906	06/19/07	06/20/07	EPA 8021B	
Toluene	ND	0.00100	н	и	"		"	D.	
Ethylbenzene	ND	0.00100	н	11	n			н	
Xylene (p/m)	ND	0.00100	н	11	n	•	n	и	
Xylene (0)	ND	0.00100	н	11	и	"	11	n	
Surrogate: a,a,a-Trifluorotoluene		93.8 %	80-12	?0	"	"	"	"	· ·
Surrogate: 4-Bromofluorobenzene		89.6 %	80-12	20	. 11	"	"	"	

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Project: Justis H-2 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #2 (7F14020-01) Water						·			
Total Alkalinity	200	2.00	mg/L	I	EF71905	06/19/07	06/19/07	EPA 310.1M	
Chloride	1350	25.0	п	50	EF71803	06/18/07	06/20/07	EPA 300.0	
Total Dissolved Solids	3820	10.0	**	i	EF72004	06/18/07	06/20/07	EPA 160.1	
Sulfate	193	25.0	*	50	EF71803	06/18/07	06/20/07	EPA 300.0	
Monitor Well #3 (7F14020-02) Water									
Total Alkalinity	220	2.00	mg/L	1	EF71905	06/19/07	06/19/07	EPA 310.1M	
Chloride	86.9	5.00	n	10	EF71803	06/18/07	06/20/07	EPA 300.0	
Total Dissolved Solids	512	10.0		1	EF72004	06/18/07	06/20/07	EPA 160.1	
Sulfate	118	5.00	н	10	EF71803	06/18/07	06/20/07	EPA 300.0	
Monitor Well #4 (7F14020-03) Water									
Total Alkalinity	230	2.00	mg/L	I	EF71905	06/19/07	06/19/07	EPA 310.1M	
Chloride	30.3	5.00		10	EF71803	06/18/07	06/20/07	EPA 300.0	
Total Dissolved Solids	534	10.0	"	1	EF72004	06/18/07	06/20/07	EPA 160.1	
Sulfate	149	5.00	"	10	EF71803	06/18/07	06/20/07	EPA 300.0	
Monitor Well #5 (7F14020-04) Water	_								
Total Alkalinity	180	2.00	mg/L	1	EF71905	06/19/07	06/19/07	EPA 310.1M	
Chloride	189	5.00	н	10	EF71803	06/18/07	06/20/07	EPA 300.0	
Total Dissolved Solids	842	10.0	н	I	EF72004	06/18/07	06/20/07	EPA 160.1	
Sulfate	156	5.00	"	10	EF71803	06/18/07	06/20/07	EPA 300.0	

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Project: Justis H-2 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

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Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #2 (7F14020-01) Water									
Calcium	266	4.05	mg/L	50	EF72001	06/20/07	06/20/07	EPA 6010B	
Magnesium	111	1.80	"	"		"	"	**	
Potassium	24.0	0.600	п	10	"	"	. "	"	
Sodium	324	10.8	"	250	н	"	11	н	
Monitor Well #3 (7F14020-02) Water									
Calcium	38.7	4.05	mg/L	50	EF72001	06/20/07	06/20/07	EPA 6010B	
Magnesium	16.3	0.360	"	10		н	n	"	
Potassium	9.06	0.600	"	*1	"	н	н	"	
Sodium	62.6	2.15	"	50	"	"	11	n	
Monitor Well #4 (7F14020-03) Water									
Calcium	34.4	0.810	mg/L	10	EF72001	06/20/07	06/20/07	EPA 6010B	
Magnesium	15.7	0.360	н	14	п	"	"	"	
Potassium	9.25	0.600		,,	n	"	"	н	
Sodium	70.7	2.15	n	50	н	я.	"	11	
Monitor Well #5 (7F14020-04) Water									
Calcium	67.3	4.05	mg/L	50	EF72001	06/20/07	06/20/07	EPA 6010B	
Magnesium	27.4	0.360		10	"		"		
Potassium	11.5	0.600	"	"	14	п	11		
Sodium	84.4	2.15	•	50	"	"	н	. 11	

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Project: Justis H-2 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

Organics by GC - Quality Control

Environmental Lab of Texas

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF71906 - EPA 5030C (GC)										
Blank (EF71906-BLK1)				Prepared &	Analyzed:	: 06/19/07				
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100								
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	н							
Xylene (0)	ND	0.00100	"					•		
Surrogate: a,a,a-Trifluorotoluene	42.5	<u>-</u>	ug/l	50.0		85.0	80-120			
Surrogate: 4-Bromofluorobenzene	40.8		"	50.0		81.6	80-120			
LCS (EF71906-BS1)				Prepared &	Analyzed	: 06/19/07				
Benzene	0.0444	0.00100	ing/L	0.0500		88.8	80-120			
Toluene	0.0459	0.00100	"	0.0500		91.8	80-120			
Ethylbenzene	0.0504	0.00100	"	0.0500		101	80-120			
Xylene (p/m)	0.0898	0.00100	н	0.100		89.8	80-120			
Xylene (0)	0.0485	0.00100		0.0500		97.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	44.8	· · · · · · · · · · · · · · · · ·	ug·l	50.0		89.6	80-120			
Surrogate: 4-Bromofluorobenzene	44.9		"	50.0		89.8	80-120			
Calibration Check (EF71906-CCV1)				Prepared: ()6/19/07 A	nalyzed: 06	6/20/07			
Benzene	0.0508		mg/L	0.0500		102	80-120			
Toluene	0.0499		"	0.0500		99.8	80-120			
Ethylbenzene	0.0484		"	0.0500		96,8	80-120			
Xylene (p/m)	0.0907		п	0.100		90.7	80-120			
Xylene (0)	0.0508		"	0.0500		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	51.2		ugil	50.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	46.4		"	50.0		92.8	80-120			
Matrix Spike (EF71906-MS1)	Sou	irce: 7F14023-	-01	Prepared: (06/19/07 A	nalyzed: 06	5/20/07			
Benzene	0.0506	0.00100	mg/L	0.0500	ND	101	80-120			
Toluene	0.0505	0.00100	"	0.0500	ND	101	80-120			
Ethylbenzene	0.0542	0.00100		0.0500	ND	108	80-120			
Xylene (p/m)	0.0948	0.00100	"	0.100	ND	94.8	80-120			
Xylene (o)	0.0524	0.00100	*	0.0500	ND	105	80-120			
Surrogate: a,a,a-Trifluorotoluene	51.4		ug·l	50.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	49.9		"	50.0		99.8	80-120			

Environmental Lab of Texas

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Rice Operating Co.	Project: Justis H-2 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Organics by GC - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch EF71906 - EPA 5030C (GC)

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Matrix Spike Dup (EF71906-MSD1)	Sou	rce: 7F14023-	01	Prepared: 06/19/07 Analyzed: 06/20/07						
Benzene	0.0513	0,00100	mg/L	0.0500	ND	(03	80-120	1.96	20	
Toluene	0.0514	0.00100	н	0.0500	ND	103	80-120	1.96	20	
Ethylbenzene	0.0552	0.00100	"	0.0500	ND	110	80-120	1.83	20	
Xylene (p/m)	0.0963	0.00100	,,	0.100	ND	96.3	80-120	1.57	20	
Xylene (o)	0.0540	0.00100	11	0.0500	ND	108	80-120	2.82	20	
Surrogate: a,a,a-Trifluorotoluene	48.6		ug/l	50.0		97.2	80-120			
Surrogate: 4-Bromofluorobenzene	49.2		"	50.0		98.4	80-120			

Environmental Lab of Texas

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Rice Operating Co.		Pr	oject: Ju	stis H-2 SWD)				Fax: (505)	397-1471
122 W. Taylor		Project Nu	mber: No	one Given						
Hobbs NM, 88240		Project Mar	nager: Kr	istin Farris-P	ope					
General C	Chemistry Para	neters by	EPA /	Standard	Method	ls - Qua	lity Con	trol		
]	Environm	iental I	Lab of Tex	xas		· · · · · · · · · · · · · · · · · · ·		n	
	•	Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EF71803 - General Preparation ((WetChem)									
Blank (EF71803-BLK1)				Prepared: (06/18/07 A	nalyzed: 06	5/20/07			
Chloride	ND	0.500	mg/L		-			<u> </u>		
Sulfate	ND	0.500	н							
LCS (EF71803-BS1)				Prepared: (06/18/07 A	nalyzed: 06	5/20/07			
Chloride	9.87	0.500	mg/L	10.0		98.7	80-120			
Sulfate	9.99	0.500	н	10.0		99.9	80-120			
Calibration Check (EF71803-CCV1)				Prepared: (06/18/07 A	nalyzed: 06	5/20/07			
Chloride	8.94	<u>_</u>	mg/L	10.0		89.4	80-120			
Sulfate	10.8		"	10.0	·	108	80-120			
Duplicate (EF71803-DUP1)	Sour	ce: 7F14003-	•06	Prepared:	06/18/07 A	nalyzed: 06	5/20/07			
Sulfate	407	001	mg/L		326			22.1	20	R2
Chloride	8400	100	"		6670			23.0	20	R2
Matrix Spike (EF71803-MS1)	Sour	ce: 7F14003-	•06	Prepared:	06/18/07 A	nalyzed: 06	5/20/07			
Chloride	9860	100	mg/L	2000	6670	160	80-120			QM-10
Sulfate	2060	100	*	2000	326	86.7	80-120			
Batch EF71905 - General Preparation	(WetChem)									
Blank (EF71905-BLK1)				Prepared &	& Analyzed	: 06/19/07				
Total Alkalinity	ND	2.00	mg/L					•••••••••••••••••••••••••••••••••••••••		
LCS (EF71905-BS1)				Prepared &	& Analyzed	: 06/19/07				

Bicarbonate Alkalinity 174 2.00 mg/L 200 87.0 85-115

Environmental Lab of Texas

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Project: Justis H-2 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EF71905 - General Preparatio	n (WetChem)									
Duplicate (EF71905-DUP1)	Sou	ce: 7F14003-(01	Prepared &	Analyzed:	06/19/07				
Total Alkalinity	260	2.00	mg/L		260			0.00	20	
Reference (EF71905-SRM1)				Prepared &	z Analyzed:	: 06/19/07				
Total Alkalinity	250		mg/L	250		100	90-110			
Batch EF72004 - General Preparatio	n (WetChem)									
Blank (EF72004-BLK1)				Prepared: (06/18/07 A	nalyzed: 06	/20/07			
Blank (EF72004-BLK1) Total Dissolved Solids	ND	10.0	mg/L	Prepared: (06/18/07 A	nalyzed: 06	/20/07			
Blank (EF72004-BLK1) Total Dissolved Solids Duplicate (EF72004-DUP1)	ND	10.0 ce: 7F14003-0	mg/L 01	Prepared: (Prepared: (06/18/07 A	nalyzed: 06	/20/07			
Blank (EF72004-BLK1) Total Dissolved Solids Duplicate (EF72004-DUP1) Total Dissolved Solids	ND Sou 3220	10.0 • ce: 7F14003- 1 10.0	mg/L 01 mg/L	Prepared: (Prepared: (06/18/07 A 06/18/07 A 3180	nalyzed: 06 nalyzed: 06	/20/07 /20/07	1.25	20	
Blank (EF72004-BLK1) Total Dissolved Solids Duplicate (EF72004-DUP1) Total Dissolved Solids Duplicate (EF72004-DUP2)	ND Sour 3220 Sour	10.0 rce: 7F14003-4 10.0 rce: 7F14020-6	mg/L 01 mg/L 03	Prepared: (Prepared: (Prepared: (06/18/07 A 06/18/07 A 3180 06/18/07 A	nalyzed: 06 nalyzed: 06 nalyzed: 06	/20/07 /20/07 /20/07	1.25	20	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

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Project: Justis H-2 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

Total Metals by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

· ·		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EF72001 - 6010B/No Digestion			- <u></u>							
Blank (EF72001-BLK1)				Prepared &	z Analyzed:	06/20/07				
Calcium	ND	0.0810	mg/L				~~~~			
Magnesium	ND	0.0360	. "							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	н							
Calibration Check (EF72001-CCV1)				Prepared 8	k Analyzed:	06/20/07				
Calcium	2.08		mg/L	2.00		104	85-115			
Magnesium	2.17		"	2.00		108	85-115			
Potassium	1.93			2.00		. 96.5	85-115			
Sodium	2.02		"	2.00		101	85-115			
Duplicate (EF72001-DUP1)	Sou	rce: 7F12005-	01	Prepared &	k Analyzed:	06/20/07				
Calcium	76.1	4.05	mg/L		70.5	····		7.64	20	
Magnesium	13.7	0.360	н.		14.2			3.58	20	
Potassium	2.32	0.600			2.39			2.97	20	
Sodium	31.5	0 4 3 0	н		32.9			4 35	20	

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Notes and Definitions

R2	The RPD exceeded the acceptance limit.
QM-10	LCS/LCSD were analyzed in place of MS/MSD.

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
 - dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike

Dup Duplicate

Report Approved By:

Bun Barron

6/27/2007

Date:

Brent Barron, Laboratory Director/Corp. Technical Director Celey D. Keene, Org. Tech Director Raland K. Tuttle, Laboratory Consultant James Mathis, QA/QC Officer Jeanne Mc Murrey, Inorg. Tech Director

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Environmental Lab of Texas

	variance/ Corrective Action Re
Client:	Rice
Date/ Time:	16/14/07 1:45
Lab ID # :	<u>ME14020</u>
Initials:	UR

Variance/ Corrective Action Report- Sample Log-In

Sample Receipt Checklist

				C	lient Initials
#1	Temperature of container/ cooler?	Yes	No	1.5 °C	
#2	Shipping container in good condition?	(TES	No		
#3	Custody Seals intact on shipping container/ cooler?	Tes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes.	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	······
#9	Container label(s) legible and intact?	(es	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Xes	No		
#12	Samples in proper container/ bottle?	es	No	See Below	
#13	Samples properly preserved?	Yes,	No	See Below	
#14	Sample bottles intact?	res	No		
#15	Preservations documented on Chain of Custody?	¥es	No		
#16	Containers documented on Chain of Custody?	(es	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Kes	No	See Below	·····
#19	Subcontract of sample(s)?	Yes	No.	Not Applicable	
#20	VOC samples have zero headspace?	(es	No	Not Applicable	
	Variance Docur	nentation			
Con	tact: Contacted by:			Date/ Time;	

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Service Service

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Corrective Action Taken:

Check all that Apply:

 \Box

See attached e-mail/ fax

Client understands and would like to proceed with analysis

Cooling process had begun shortly after sampling event



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS. NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: KRISTIN FARRIS-POPE 122 W. TAYLOR HOBBS, NM 88240 FAX TO: (505) 397-1471

Receiving Date: 09/18/07 Reporting Date: 09/19/07 Project Number: NOT GIVEN Project Name: JUSTIS H-2 SWD Project Location: T26S-R37E-SEC2 H ~ LEA COUNTY, NM Sampling Date: 09/17/07 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: SB Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DA	ΓE	09/18/07	09/18/07	09/18/07	09/18/07
H13313-1	MONITOR WELL #2	<0.002	<0.002	<0.002	<0.006
H13313-2	MONITOR WELL #3	<0.002	<0.002	<0.002	<0.006
H13313-3	MONITOR WELL #4	<0.002	<0.002	<0.002	<0.006
H13313-4	MONITOR WELL #5	<0.002	<0.002	<0.002	<0.006
	· · · · · · · · · · · · · · · · · · ·				
Quality Control		0.092	0.094	0.093	0.261
True Value QC	***************************************	0.100	0.100	0.100	0.300
% Recovery	an radinsk manna i su pilikumur i - o voro radi Vislanda munar, mrsna manna dda mehrikov V sklava ofun	91.7	94.3	93.4	86.9
Relative Percer	nt Difference	6.4	2.5	2.3	4.2

METHOD: EPA 602/SW-846 8260

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 thirty (30) days after completion of the applicable service 1884 (BBSR) Chainal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, alfiliates 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.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS. NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: KRISTIN FARRIS-POPE 122 W. TAYLOR STREET HOBBS, NM 88240 FAX TO: (505) 397-1471

Receiving Date: 09/18/07 Reporting Date: 09/19/07 Project Owner: NOT GIVEN Project Name: JUSTIS H-2 SWD Project Location: T26S-R37E-SEC2 H~LEA COUNTY, NM

Sampling Date: 09/17/07 Sample Type: WATER Sample Condition: COOL & INTACT Sample Received By: SB Analyzed By: HM/KS/AB

		Na	Ca	Mg	к	Conductivity	T-Alkalinity
LAB NUMBER	SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(uS/cm)	(mgCaCO ₃ /L)
ANALYSIS DAT	E:	09/19/07	09/18/07	09/18/07	09/18/07	09/19/07	09/19/07
H13313-1	MONITOR WELL #2	368	333	175	12.1	4,820	144
H13313-2	MONITOR WELL #3	42	56.6	40.3	4.83	771	176
H13313-3	MONITOR WELL #4	52	49.9	44.4	4.83	810	172
H13313-4	MONITOR WELL #5	53	66.5	44.4	5.20	892	168
Quality Control		NR	50.6	50.8	1.79	9,860	NR
True Value QC		NR	50.0	50.0	2.00	10,000	NR
% Recovery		NR	101	102	89.5	98.6	NR.
Relative Percer	nt Difference	NR	< 0.1	1.6	6.5	0.1	NR
METHODS.	· · · · · · · · · · · · · · · · · · ·	SM	3500-Ca-D	3500-Mg E	8049	120.1	310.1
		<u>د</u>	SO.	CO.	HCO.	nH	TOS

		01	004	003	1.003	pri	100
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS D	DATE:	09/18/07	09/19/07	09/19/07	09/19/07	09/19/07	09/19/07
H13313-1	MONITOR WELL #2	1,424	234	0	144	7.83	3,820
H13313-2	MONITOR WELL #3	36	201	0	176	8.02	564
H13313-3	MONITOR WELL #4	40	220	0	172	7.96	612
H13313-4	MONITOR WELL #5	68	227	0.	168	8.10	668
Quality Contr	ol	500	26.7	NR	1024	6.96	NR
True Value C	2C	500	25.0	NR	1000	7.00	NR
% Recovery		100	107	NR	102	99.4	NR
Relative Perc	cent Difference	< 0.1	1.7	NR	2.4	0.3	NR
METHODS:	en an	SM4500-CI-B	375.4	310.1	310.1	150.1	160.1

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or ton, 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 waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable set 14,3343 (Contractions) and the contract or ton, shall be limited to the amount paid by client for analyses. 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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	LAB Order ID # _		۱ <i>с</i> .	I ICS, II	avui atu	lat Li	82.2138 CAIUL	Tel (505) 36 Fax (505) 36
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ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: KRISTIN FARRIS-POPE 122 W. TAYLOR ST. HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 11/16/07 Reporting Date: 11/19/07 Project Number: NOT GIVEN Project Name: JUSTIS H-2 SWD Project Location: T26S-R37E-SEC2 H ~ LEA COUNTY, NM Sampling Date: 11/13/07 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: AB

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DA	ΓE	11/19/07	11/19/07	11/19/07	11/19/07
H13738-1	MONITOR WELL #1	<0.001	<0.001	<0.001	<0,003
H13738-2	MONITOR WELL #2	<0.001	<0.001	<0.001	< 0.003
H13738-3	MONITOR WELL #3	< 0.001	<0.001	<0.001	< 0.003
H13738-4	MONITOR WELL #4	<0.001	<0.001	<0.001	<0.003
and hashed the calibration of a more of a same as made and a more of a same as the formation of the same as the same and the same as the s					
Quality Control		0.112	0.101	0.101	0.315
True Value QC		0.100	0.100	0.100	0.300
% Recovery		112	101	101	105
Relative Percer	nt Difference	2.6	4.2	1.6	2.6

METHOD: EPA SW-846 8021B

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

Receiving Date: 11/16/07 Reporting Date: 11/26/07 Project Number: NOT GIVEN Project Name: JUSTIS H-2 SWD Project Location: T26S-R37E-SEC2 H~LEA COUNTY, NM

Sampling Date: 11/13/07 Sample Type: WATER Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: HM/KS

		Na	Ca	Mg	К	Conductivity	T-Alkalinity
LAB NUMBER	SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(uS/cm)	(mgCaCO ₃ /L)
ANALYSIS DA	TE:	11/21/07	11/21/07	11/21/07	11/21/07	11/20/07	11/20/07
H13738-1	MONITOR WELL #2	386	386	182	22.4	5,150	144
H13738-2	MONITOR WELL #3	88	57.2	29.0	6.38	786	184
H13738-3	MONITOR WELL #4	97	51.9	28.2	7.40	795	184
H13738-4	MONITOR WELL #5	90	75.8	37.1	7.94	978	164
Quality Control		NR	51.5	50.8	2.89	1,409	NR
True Value QC	ananan ile aan aanan aana aanad ahayna oo ahahaya sarahayaana ada aanaa aanaan aa	NR	50.0	50.0	3.00	1,413	NR
% Recovery		NR	103	102	96.3	99.7	NR
Relative Percer	nt Difference	NR	4.6	1.6	2.1	0.4	NR
METHODS:		SM3	3500-Ca-D	3500-Mg E	8049	120.1	310.1

		CI	SO4	CO_3	HCO ₃	pН	TDS
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS D	DATE:	11/20/07	11/21/07	11/20/07	11/20/07	11/20/07	11/19/07
H13738-1	MONITOR WELL #2	1,600	177	0	176	7.71	3,053
H13738-2	MONITOR WELL #3	32	223	0	224	7.90	537
H13738-3	MONITOR WELL #4	36	222	0	224	7.81	547
H13738-4	MONITOR WELL #5	100	234	0	200	7.75	669
Quality Cont	rol	500	26.4	NR	1000	7.06	NR
True Value (500	25.0	NR	1000	7.00	NR
% Recovery	addalan nanna rara alaista dirina istaanu siriya aaasa	100	106	NR	100	101	NR
Relative Per	cent Difference	< 0.1	14.9	NR	1.2	0.1	NR
METHODS:		SM4500-CI-B	375.4	310.1	310.1	150.1	160.1

MANTO

11/26/07

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 waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In the easy 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 the easy including the service of the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

l East Martand - Hickles, New	Mexco 82240 Tel (500) 393-2328 Fax (502) 393-2475	bany Name:	ICE Operating Company	ci Manager.	ristin Farris-Pope, Project Scientist	sss: (Street. City, Zip)	2 W Taylor Street - Hobbs, New Mexico 88240	e# D5) 393-9174	ct#. Project Name: Incefic H_2 StAPD	ct location:	26S-R37E-Sec2 H ~ Lea County - New Me		LAB# FIELD CODE		7380 Monitor Well #2	Monitor Well #3	、 Monitor Well #4						duisthed by:// ,pate: _, Time: F	inexercision 13, 40	quishéo'by: Date: Time: F	14. 11	ared Byr. (Circle One)	
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