

AP - 49

ANNUAL MONITORING REPORT

YEAR(S):
2009



TETRA TECH

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April 9, 2010

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

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Re: 2009 Annual Groundwater Summary Report & Project Status Report, Rice Operating Company, Justis Saltwater Disposal System (SWD) H-2, Unit H, Section 2, T-26-S, R-37-E, Lea County, New Mexico, NMOCD CASE #1R0423-01 (AP-49)

Mr. Hansen:

Tetra Tech Inc. (Tetra Tech) submits the following 2009 Annual Groundwater Summary Report for the Rice Operating Company (ROC), SWD H-2 site, located in the Justis Salt Water Disposal System (AP-49). This report consists of the following sections:

1. Tables summarizing all laboratory results and depths to groundwater at the site, including the current year (2009).
2. Graphs depicting the concentration of chlorides, total dissolved solids (TDS), and sulfates over time.

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 1, 2009 through December 31, 2009, a total of 19,714.2 gallons of water had been pumped from MW-2 with 8,426 gallons of treated water re-injected into the aquifer at the site and 11,288.20 gallons disposed into the permitted SWD well on site. Since startup in 2007, 141,148.7 total gallons have been removed from MW-2 with 55,338.6 gallons re-injected and 85,810.1 gallons disposed into the permitted SWD well on site.

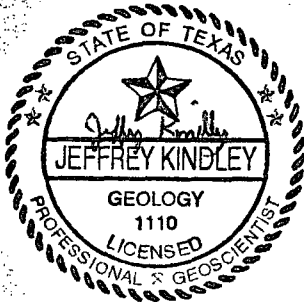


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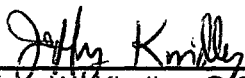
On July 16, 2009, a formal request was submitted to the NMOCD for suspension of further sampling of BTEX/Sulfate at the site. As of this report, a response has not been received from the NMOCD in regards to the suspension request. For 2010, the site R/O system will continue to be operated with quarterly sampling performed for the year.

ROC is the service provider (agent) for the Justis Salt Water Disposal 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.

Thank you for your consideration of this annual summary information. If you have any questions, please contact me at (432) 682-4559, or Hack Conder of ROC at (575) 393-9174.



Respectfully Submitted,
Tetra Tech, Inc.



Jeffrey W. Kindley, P.G.
Senior Project Manager

cc: Hack Conder – ROC
Enclosures: Tables and Graphs

Table 1

Rice Operating Company

Justis H-2

Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
1	116.20	145.00	18.80	56.4	01/03/02	336	1112	<0.002	<0.002	<0.002	<0.006	116	xxx
1	xxx	xxx	xxx	xxx	03/01/02	301	971	xxx	xxx	xxx	xxx	190	xxx
1	xxx	xxx	xxx	xxx	06/10/02	173	xxx	0.001	0.008	0.01	0.066	xxx	xxx
1	116.20	137.00	xxx	66.0	08/16/02	111	619	<0.001	<0.001	<0.001	<0.001	202	xxx
1	123.32	144.00	xxx	60.0	11/12/02	257	971	<0.001	<0.001	<0.001	<0.001	194	xxx
1	122.95	144.00	xxx	70.0	02/13/03	97.5	647	<0.001	<0.001	<0.001	<0.001	200	xxx
1	123.34	144.00	xxx	70.0	05/20/03	102	682	<0.001	<0.001	<0.001	<0.001	196	xxx
1	122.94	144.00	xxx	70.0	09/16/03	594	1920	<0.001	<0.001	<0.001	<0.001	186	xxx
1	123.19	144.00	xxx	70.0	12/16/03	81.5	587	0.013	<0.001	<0.001	<0.001	180	xxx
1	122.43	144.00	xxx	70.0	03/11/04	727	2060	<0.001	<0.001	<0.001	<0.001	227	xxx
1	122.24	144.00	xxx	70.0	06/28/04	1030	3230	0.0056	<0.001	<0.001	<0.001	349	xxx
1	122.22	144.00	xxx	70.0	09/23/04	106	749	<0.001	<0.001	<0.001	<0.001	175	xxx
1	122.18	144.00	xxx	68.0	12/21/04	93.1	858	<0.001	<0.001	<0.001	0.00108	215	xxx
1	121.97	144.00	xxx	75.0	03/29/05	98.2	608	<0.001	<0.001	<0.001	<0.001	169	xxx
1	122.08	144.00	xxx	80.0	06/16/05	173	711	<0.001	<0.001	<0.001	<0.001	166	xxx
1	xxx	xxx	xxx	xxx	09/15/05	151	840	<0.001	<0.001	<0.001	<0.001	133	xxx
1	122.12	153.00	31.50	100.0	12/05/05	93.5	586	<0.001	<0.001	<0.001	<0.001	114	xxx
1	121.81	153.00	31.80	100.0	02/27/06	414	1120	<0.001	<0.001	<0.001	<0.001	157	xxx
1	121.94	153.00	31.70	100.0	06/14/06	206	782	<0.001	<0.001	<0.001	<0.001	151	xxx
1	121.80	153.00	31.80	100.0	09/13/06	430	1,260	<0.001	<0.001	<0.001	<0.001	194	xxx
1	121.89	153.00	31.70	100.0	12/05/06	223	512	<0.001	<0.001	<0.001	<0.001	47.6	xxx

Graph 1
Rice Operating Company
MW-1
Justis H-2
Lea County, New Mexico

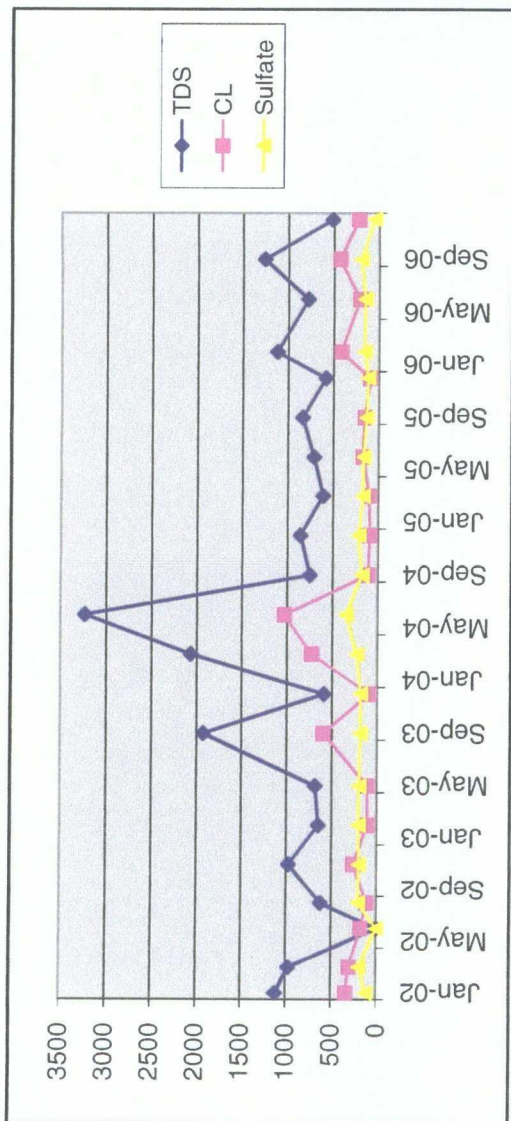


Table 2
Rice Operating Company
Justis H-2
Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	CI	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
2	122.00	142.60	13.40	40.3	01/07/02	1839	3908	<0.002	<0.002	<0.002	<0.006	120	xxx
2	xxx	xxx	xxx	xxx	03/01/02	700	1780	xxx	xxx	xxx	xxx	150	xxx
2	xxx	xxx	xxx	xxx	05/23/02	904	2710	<0.001	<0.001	<0.001	<0.001	243	xxx
2	121.85	142.00	xxx	25.0	08/16/02	1040	3390	<0.001	<0.001	<0.001	<0.001	188	xxx
2	122.10	142.00	xxx	25.0	11/12/02	1130	2600	0.002	0.003	<0.001	<0.002	200	xxx
2	121.71	142.00	xxx	25.0	02/13/03	1110	2780	<0.001	<0.001	<0.001	<0.001	216	xxx
2	122.08	142.00	xxx	25.0	05/20/03	1130	3600	<0.001	<0.001	<0.001	<0.001	215	xxx
2	121.70	142.00	xxx	25.0	09/16/03	1070	3540	<0.001	<0.001	<0.001	<0.001	167	xxx
2	122.00	142.00	xxx	30.0	12/16/03	1230	2490	0.032	0.003	<0.001	<0.001	202	xxx
2	121.87	142.00	xxx	30.0	03/11/04	1200	3660	<0.001	<0.001	<0.001	<0.001	164	xxx
2	121.74	142.00	xxx	30.0	06/28/04	2570	6290	0.0112	<0.001	<0.001	<0.001	208	xxx
2	121.70	142.00	xxx	25.0	09/23/04	1130	3760	<0.001	<0.001	<0.001	<0.001	198	xxx
2	121.65	142.00	xxx	10.0	12/21/04	1150	2877	0.0055	<0.001	<0.001	<0.001	210	xxx
2	121.45	142.00	xxx	25.0	03/29/05	1310	2620	<0.001	<0.001	<0.001	<0.001	186	xxx
2	121.58	142.00	xxx	30.0	06/16/05	1280	3080	<0.001	<0.001	<0.001	<0.001	221	xxx
2	xxx	xxx	xxx	xxx	09/15/05	1110	3240	<0.001	<0.001	<0.001	<0.001	196	xxx
2	121.52	142.60	3.40	20.0	12/05/05	1110	2630	<0.001	<0.001	<0.001	<0.001	134	xxx
2	121.40	142.60	3.40	20.0	02/27/06	1360	3450	<0.001	<0.001	<0.001	<0.001	139	xxx
2	121.40	142.60	3.40	15.0	06/14/06	1260	3520	<0.001	<0.001	<0.001	<0.001	204	xxx
2	121.34	142.60	3.40	15.0	09/13/06	1130	2,560	<0.001	<0.001	<0.001	<0.001	166	xxx
2	Pump	142.60	xxx	xxx	12/05/06	1240	2,300	<0.001	<0.001	<0.001	<0.001	156	xxx
2	Pump	142.60	xxx	xxx	03/15/07	1810	3,540	<0.001	<0.001	<0.001	<0.001	222	Clear no odor
2	Pump	142.60	xxx	xxx	06/13/07	1350	3,820	<0.001	<0.001	<0.001	<0.001	193	Clear no odor
2	Pump	142.60	xxx	xxx	09/17/07	1424	3,820	<0.002	<0.002	<0.002	<0.006	234	Clear no odor
2	Pump	142.60	xxx	xxx	11/13/07	1600	3053	<0.001	<0.001	<0.001	<0.003	177	Clear no odor
2	Pump	142.60	xxx	xxx	02/23/08	1500	3,390	<0.001	<0.001	<0.001	<0.003	169	Clear no odor

Graph 2
Rice Operating Company
MW-2
Justis H-2
Lea County, New Mexico

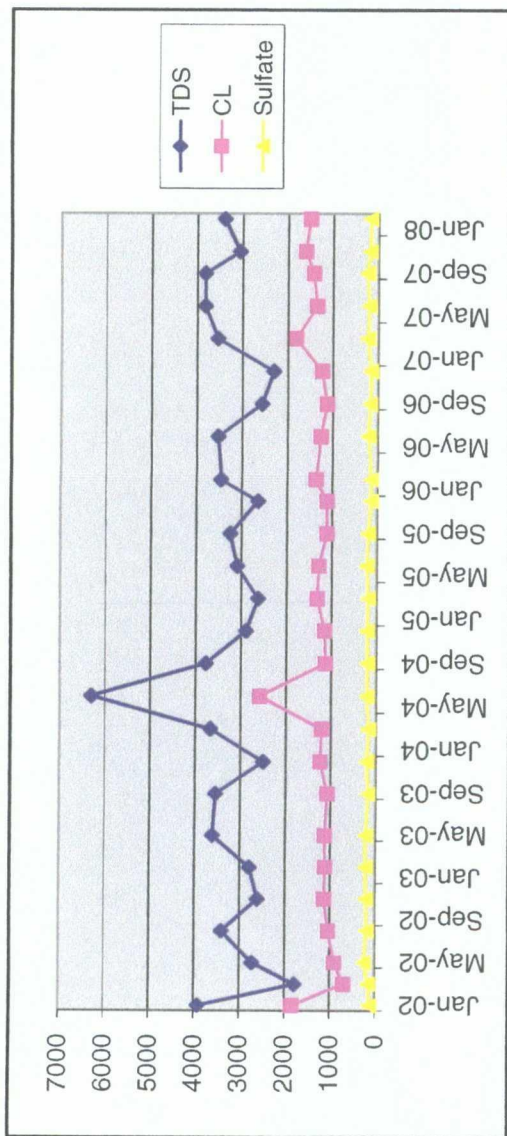


Table 3
Rice Operating Company
Justis H-2
Lea County, New Mexico

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Graph 3
Rice Operating Company
MW-2R
Justis H-2
Lea County, New Mexico

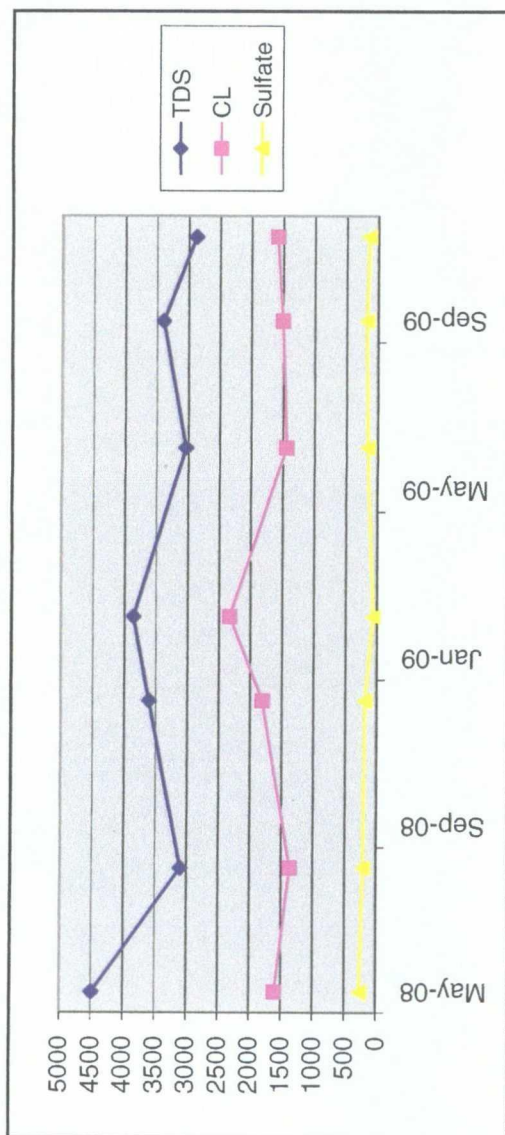


Table 4
Rice Operating Company
Justis H-2
Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	CI	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
3	122.10	137.50	10.00	30.1	01/07/02	48	577	<0.005	<0.005	<0.005	<0.015	145	xxx
3	xxx	xxx	xxx	xxx	03/01/02	37.2	561	xxx	xxx	xxx	xxx	167	xxx
3	xxx	xxx	xxx	xxx	05/16/02	35.4	570	<0.001	<0.001	<0.001	<0.001	182	xxx
3	118.68	133.00	xxx	20.0	08/16/02	93.1	631	<0.001	<0.001	<0.001	<0.001	238	xxx
3	118.90	133.00	xxx	25.0	11/12/02	97.5	688	0.030	0.014	0.002	0.003	219	xxx
3	118.53	133.00	xxx	25.0	02/13/03	102	666	<0.001	<0.001	<0.001	<0.001	250	xxx
3	118.87	133.00	xxx	25.0	05/20/03	168	885	<0.001	<0.001	<0.001	<0.001	278	xxx
3	118.53	133.00	xxx	25.0	09/16/03	204	568	<0.001	<0.001	<0.001	<0.001	184	xxx
3	118.79	133.00	xxx	30.0	12/16/03	40.8	517	0.013	<0.001	<0.001	<0.001	204	xxx
3	118.71	133.00	xxx	30.0	03/11/04	65	666	<0.001	<0.001	<0.001	<0.001	203	xxx
3	118.53	133.00	xxx	30.0	06/28/04	124	735	0.0124	<0.001	<0.001	<0.001	295	xxx
3	118.52	133.00	xxx	25.0	09/23/04	115	703	0.00113	<0.001	<0.001	<0.001	242	xxx
3	118.52	133.00	xxx	7.0	12/21/04	154	1057	0.0127	<0.001	0.00144	<0.001	272	xxx
3	118.31	133.00	xxx	25.0	03/29/05	108	670	<0.001	<0.001	<0.001	<0.001	215	xxx
3	118.41	133.00	xxx	30.0	06/16/05	62.4	535	<0.001	<0.001	<0.001	<0.001	180	xxx
3	xxx	xxx	xxx	xxx	09/15/05	56.4	664	<0.001	<0.001	<0.001	<0.001	139	xxx
3	118.25	133.70	2.50	20.0	12/05/05	30.7	450	<0.001	<0.001	<0.001	<0.001	131	xxx
3	118.18	133.70	2.50	15.0	02/27/06	26.8	562	<0.001	<0.001	<0.001	<0.001	123	xxx
3	118.18	133.70	2.50	15.0	06/14/06	38.3	514	<0.001	<0.001	<0.001	<0.001	151	xxx
3	118.23	133.70	2.50	15.0	09/13/06	28	610	<0.001	<0.001	<0.001	<0.001	170	xxx
3	118.21	133.70	2.50	10.0	12/05/06	26.1	486	<0.001	<0.001	<0.001	<0.001	164	xxx
3	118.26	133.40	2.40	10.0	03/15/07	77.6	532	<0.001	<0.001	<0.001	<0.001	226	xxx
3	118.49	133.40	2.40	10.0	06/13/07	86.9	512	<0.001	<0.001	<0.001	<0.001	193	xxx
3	118.07	133.40	2.50	10.0	09/17/07	36	564	<0.002	<0.002	<0.002	<0.006	201	xxx
3	118.23	133.40	2.40	10.0	11/13/07	32	537	<0.001	<0.001	<0.001	<0.003	223	xxx
3	118.08	133.40	2.50	10.0	02/23/08	32	548	<0.001	<0.001	<0.001	<0.003	157	xxx
3	117.98	133.40	2.50	10.0	05/21/08	32	519	<0.002	<0.002	<0.002	<0.002	156	xxx
3	118.13	133.40	2.40	10.0	08/27/08	32	544	<0.001	<0.001	<0.001	<0.003	183	xxx
3	118.26	133.40	2.40	10.0	12/01/08	36	577	<0.001	<0.001	<0.001	<0.003	177	xxx
3	118.11	134.30	2.60	10.0	02/25/09	36	543	<0.001	<0.001	<0.001	<0.003	169	xxx
3	118.14	134.30	2.60	10.0	06/15/09	36	591	<0.001	<0.001	<0.001	<0.003	145	xxx

Table 4
Rice Operating Company
Justis H-2
Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	CI	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
3	118.04	134.30	2.60	10.0	09/04/09	36	588	<0.001	<0.001	<0.001	<0.003	172	xxx
3	118.13	134.30	2.60	10.0	11/16/09	48	527	<0.001	<0.001	<0.001	<0.003	142	xxx

Graph 4
Rice Operating Company
MW-3
Justis H-2
Lea County, New Mexico

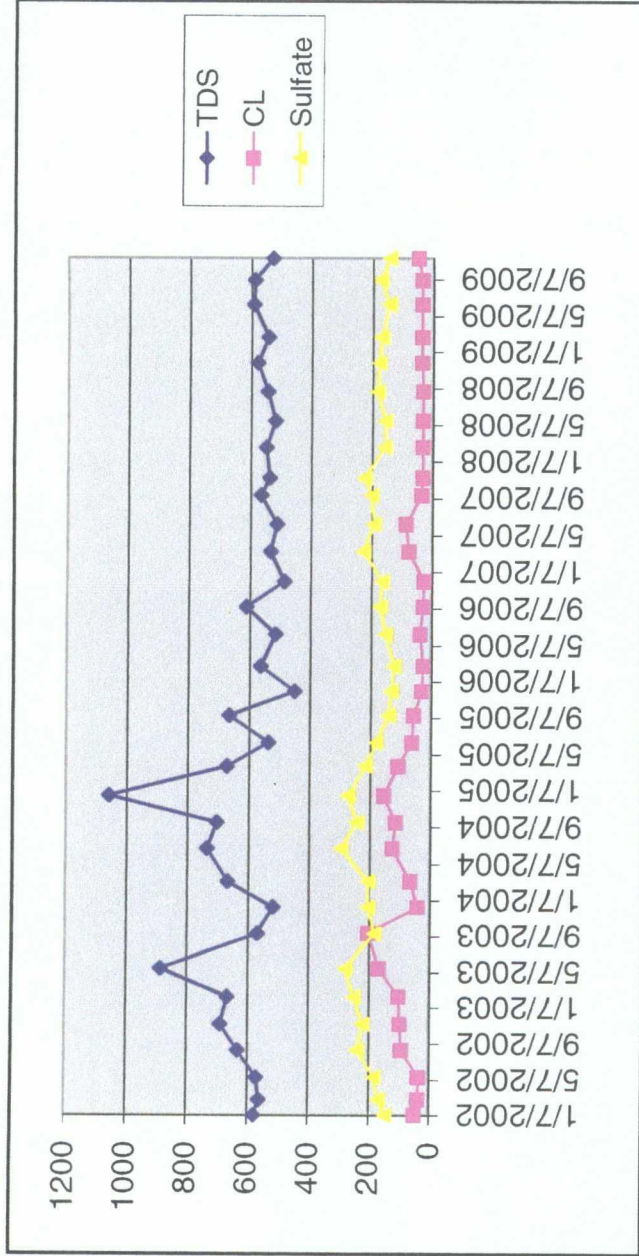


Table 5

Rice Operating Company
Justis H-2

Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
4	122.12	137.00	xxx	30.0	03/11/04	35.4	610	<0.001	<0.001	<0.001	<0.001	174	xxx
4	121.96	137.00	xxx	30.0	06/28/04	57.6	596	0.00749	<0.001	<0.001	<0.001	225	xxx
4	121.93	137.00	xxx	25.0	09/23/04	53.2	648	<0.001	<0.001	<0.001	<0.001	180	xxx
4	121.88	137.00	xxx	8.0	12/21/04	59.1	865	0.00275	<0.001	<0.001	<0.001	210	xxx
4	121.66	137.00	xxx	25.0	03/29/05	55.7	506	<0.001	<0.001	<0.001	<0.001	186	xxx
4	121.80	137.00	xxx	30.0	06/16/05	49.8	543	<0.001	<0.001	<0.001	<0.001	179	xxx
4	xxx	xxx	xxx	xxx	09/15/05	48.2	634	<0.001	<0.001	<0.001	<0.001	135	xxx
4	121.81	141.40	3.10	20.0	12/05/05	29.1	496	<0.001	<0.001	<0.001	<0.001	136	xxx
4	121.59	141.40	3.20	20.0	02/27/06	29.1	542	<0.001	<0.001	<0.001	<0.001	136	xxx
4	121.61	141.40	3.20	15.0	06/14/06	39.6	564	<0.001	<0.001	<0.001	<0.001	157	xxx
4	121.62	141.40	3.20	15.0	09/13/06	31.3	746	<0.001	<0.001	<0.001	<0.001	180	xxx
4	121.63	141.40	3.20	15.0	12/05/06	30.0	476	<0.001	<0.001	<0.001	<0.001	176	Clear/no odor
4	121.65	140.95	3.10	15.0	03/15/07	40.8	514	<0.001	<0.001	<0.001	<0.001	211	Clear/no odor
4	121.58	140.95	3.10	15.0	06/13/07	30.3	534	<0.001	<0.001	<0.001	<0.001	149	Clear/no odor
4	121.45	140.95	3.10	15.0	09/17/07	40.0	612	<0.002	<0.002	<0.002	<0.006	220	Clear/no odor
4	121.64	140.95	3.10	15.0	11/13/07	36.0	547	<0.001	<0.001	<0.001	<0.003	222	Clear/no odor
4	121.45	140.95	3.10	15.0	02/23/08	36.0	585	<0.001	<0.001	<0.001	<0.003	190	Clear/no odor
4	121.31	140.95	3.10	15.0	05/21/08	36.0	533	<0.002	<0.002	<0.002	<0.006	169	Clear/no odor
4	121.53	140.95	3.10	15.0	08/27/08	36.0	581	<0.001	<0.001	<0.001	<0.003	181	Clear/no odor
4	121.65	140.95	3.10	15.0	12/01/08	36.0	621	<0.001	<0.001	<0.001	<0.003	187	Clear/no odor
4	121.48	140.89	3.10	15.0	02/25/09	36.0	540	<0.001	<0.001	<0.001	<0.003	180	Clear/no odor
4	121.53	140.89	3.10	15.0	06/15/09	40.0	593	<0.001	<0.001	<0.001	<0.003	169	Clear/no odor
4	121.39	140.89	3.10	15.0	09/04/09	36.0	580	<0.001	<0.001	<0.001	<0.003	169	Clear/no odor
4	121.56	140.89	3.10	15.0	11/16/09	36.0	471	<0.001	<0.001	<0.001	<0.003	157	Clear/no odor

Graph 5
 Rice Operating Company
 MW-4
 Justis H-2
 Lea County, New Mexico

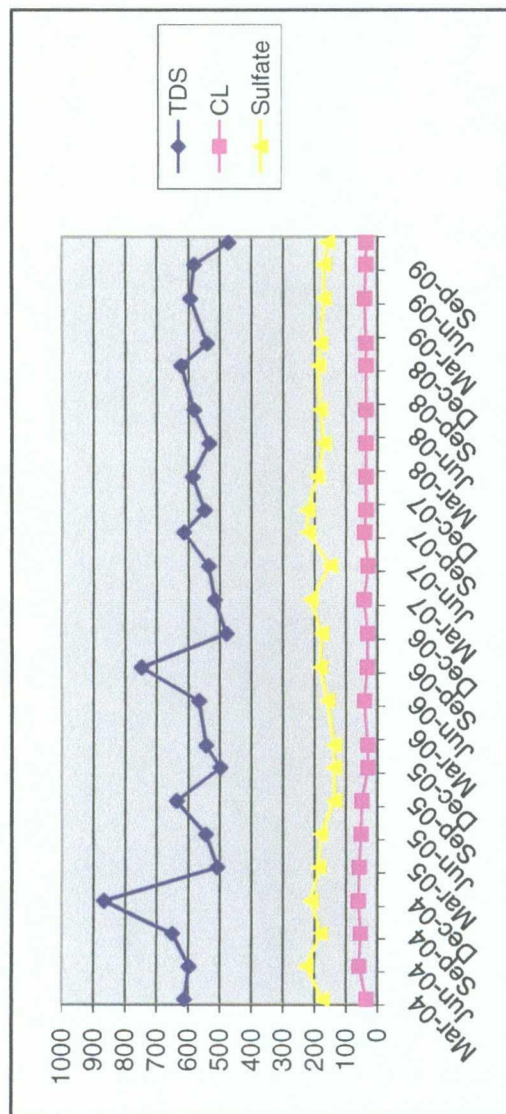


Table 6

Rice Operating Company
Justis H-2

Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	CI	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
5	120.15	135.00	xxx	30.0	03/11/04	195	894	<0.001	<0.001	<0.001	<0.001	198	xxx
5	120.04	135.00	xxx	30.0	06/28/04	310	1130	0.0105	<0.001	0.00108	<0.001	238	xxx
5	119.98	135.00	xxx	25.0	09/23/04	160	792	<0.001	<0.001	<0.001	<0.001	224	xxx
5	119.93	135.00	xxx	8.0	12/21/04	165	1072	0.00292	<0.001	<0.001	<0.001	224	xxx
5	119.73	135.00	xxx	25.0	03/29/05	202	636	<0.001	<0.001	<0.001	<0.001	201	xxx
5	119.88	135.00	xxx	30.0	06/16/05	172	767	<0.001	<0.001	<0.001	<0.001	187	xxx
5	xxx	xxx	xxx	xxx	09/15/05	147	852	<0.001	<0.001	<0.001	<0.001	136	xxx
5	119.80	140.00	3.20	20.0	12/05/05	159	662	<0.001	<0.001	<0.001	<0.001	142	xxx
5	119.68	140.00	3.30	20.0	02/27/06	167	696	<0.001	<0.001	<0.001	<0.001	139	xxx
5	119.65	140.00	3.30	15.0	06/14/06	197	786	<0.001	<0.001	<0.001	<0.001	152	xxx
5	119.69	140.00	3.20	15.0	09/13/06	209	984	<0.001	<0.001	<0.001	<0.001	186	xxx
5	119.74	140.00	3.20	15.0	12/05/06	186	748	<0.001	<0.001	<0.001	<0.001	173	Clear/no odor
5	119.72	138.80	3.10	15.0	03/15/07	255	766	<0.001	<0.001	<0.001	<0.001	220	Clear/no odor
5	119.65	138.80	3.10	15.0	06/13/07	189	842	<0.001	<0.001	<0.001	<0.001	156	Clear/no odor
5	119.53	138.80	3.10	15.0	09/17/07	68	668	<0.002	<0.002	<0.002	<0.006	227	Clear/no odor
5	119.70	138.80	3.10	15.0	11/13/07	100	669	<0.001	<0.001	<0.001	<0.003	234	Clear/no odor
5	119.55	138.80	3.10	15.0	02/23/08	216	900	<0.001	<0.001	<0.001	<0.003	198	Clear/no odor
5	119.41	138.80	3.10	15.0	05/21/08	208	877	<0.002	<0.002	<0.002	<0.006	177	Clear/no odor
5	119.59	138.80	3.10	15.0	08/27/08	200	945	<0.001	<0.001	<0.001	<0.003	198	Clear/no odor
5	119.70	138.80	3.10	15.0	12/01/08	200	885	<0.001	<0.001	<0.001	<0.003	189	Clear/no odor
5	119.54	138.75	3.10	15.0	02/25/09	184	747	<0.001	<0.001	<0.001	<0.003	185	Clear/no odor
5	119.55	138.75	3.10	15.0	06/15/09	204	894	<0.001	<0.001	<0.001	<0.003	179	Clear/no odor
5	119.46	138.75	3.10	15.0	09/04/09	204	873	<0.001	<0.001	<0.001	<0.003	181	Clear/no odor
5	119.61	138.75	3.10	15.0	11/16/09	192	741	<0.001	<0.001	<0.001	<0.003	157	Clear/no odor

Graph 6
Rice Operating Company
MW-5
Justis H-2
Lea County, New Mexico

