

AP -

48

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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2010 APR 12 P 1:04

Re: 2009 Annual Groundwater Summary Report & Project Status Report, Rice Operating Company, Justis Saltwater Disposal System (SWD) Jct. L-1, Unit L, Section 1, T-25-S, R-37-E, Lea County, New Mexico, NMOCD CASE #1R0423-0 (AP-48)

Mr. Hansen:

Tetra Tech Inc. (Tetra Tech) submits the following 2009 Annual Groundwater Summary Report for the Rice Operating (ROC), Jct. L-1 site (AP-48), located in the Justis Salt Water Disposal System. This report consists of the following sections:

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

On May 5, 2005, Mr. Daniel Sanchez with the NMOCD requested a Rule 19, Stage I Abatement Plan for this site. On July 12, 2005 a Stage I Abatement Plan was submitted to the NMOCD. The Stage I Abatement Plan approval was received, dated February 23, 2006 and implemented in March 2006.

On January 12, 2007, a Stage 1/Stage 2 Abatement Plan was submitted to the NMOCD. Based upon the results of the Stage 1 Abatement Plan implementation, it appeared that the water quality at the original junction box site is improving over time. The Stage 1/Stage 2 Plan proposed to continue to monitor all four wells on a quarterly basis to ensure continued improvement of groundwater quality. The plan was deemed administratively complete on January 9, 2009 and proof of public notice was submitted on February 13, 2009. Once the plan is approved by the NMOCD, ROC will perform the

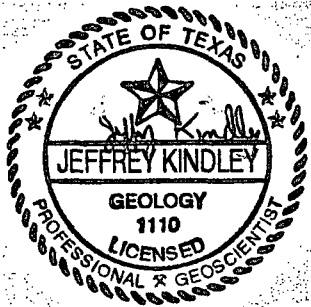


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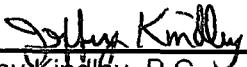
corrective action to the vadose zone. The quarterly sampling will be continued for 2010. In addition, on July 17, 2009, a formal request was resubmitted to the NMOCD for suspension of further sampling of BTEX at the site. As of this report, a response has not been received from the NMOCD in regards to the suspension request.

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 Kindley, P.G.
Senior Project Manager

cc: Hack Conder – ROC
Enclosures: Table and Graph

Table 1

Rice Operating Company
Justis L-1

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	78.43	92.00	xxx	20	12/21/04	1060	2620	0.0158	<0.001	0.00209	<0.001	550	xxx
1	78.19	92.00	xxx	20	03/29/05	873	2020	0.000904	<0.001	<0.001	<0.001	502	xxx
1	78.11	92.00	xxx	20	06/16/05	684	1900	<0.001	<0.001	<0.001	<0.001	468	xxx
1	77.95	92.00	xxx	2.5	09/15/05	464	1770	<0.001	<0.001	<0.001	<0.001	307	xxx
1	77.80	92.00	2.30	8	12/05/05	390	1410	<0.001	<0.001	<0.001	0.000666	245	xxx
1	77.56	92.00	2.30	8	02/27/06	413	1440	<0.001	<0.001	<0.001	<0.001	236	xxx
1	77.51	92.00	2.30	10	05/24/06	420	1430	<0.001	<0.001	<0.001	<0.001	246	xxx
1	77.25	92.00	2.40	10	09/14/06	672	1870	<0.001	<0.001	<0.001	<0.001	339	xxx
1	77.12	92.00	2.40	10	10/30/06	943	2360	<0.001	<0.001	<0.001	<0.001	339	Clear no odor
1	76.95	91.85	2.40	10	03/16/07	519	3630	<0.001	<0.001	<0.001	<0.001	112	Clear no odor
1	76.80	91.85	2.40	10	05/15/07	2160	4530	<0.001	<0.001	<0.001	<0.001	397	Clear no odor
1	76.48	91.85	2.50	10	08/29/07	2179	7305	<0.002	<0.002	<0.002	<0.006	500	Clear no odor
1	76.30	91.85	2.50	10	11/14/07	2250	4679	<0.002	<0.002	<0.002	<0.006	477	Clear no odor
1	76.10	91.83	2.50	10	02/27/08	2360	5420	<0.002	<0.002	<0.002	<0.006	455	Clear no odor
1	75.88	91.83	2.80	10	05/23/08	3000	6560	<0.002	<0.002	<0.002	<0.006	439	Clear no odor
1	75.77	91.83	2.60	10	08/28/08	2150	5110	<0.001	<0.001	<0.001	<0.003	550	Clear no odor
1	75.59	91.83	2.60	10	12/17/08	2500	5100	<0.001	<0.001	<0.001	<0.003	538	Clear no odor
1	75.37	91.35	2.60	10	02/23/09	2240	4630	xxx	xxx	xxx	xxx	486	Clear no odor
1	75.22	91.35	2.60	10	05/28/09	2150	4620	xxx	xxx	xxx	xxx	636	Clear no odor
1	74.98	91.35	2.60	10	09/09/09	1940	5030	xxx	xxx	xxx	xxx	546	Clear no odor
1	74.84	91.35	2.60	10	11/18/09	1980	4640	xxx	xxx	xxx	xxx	418	Clear no odor

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

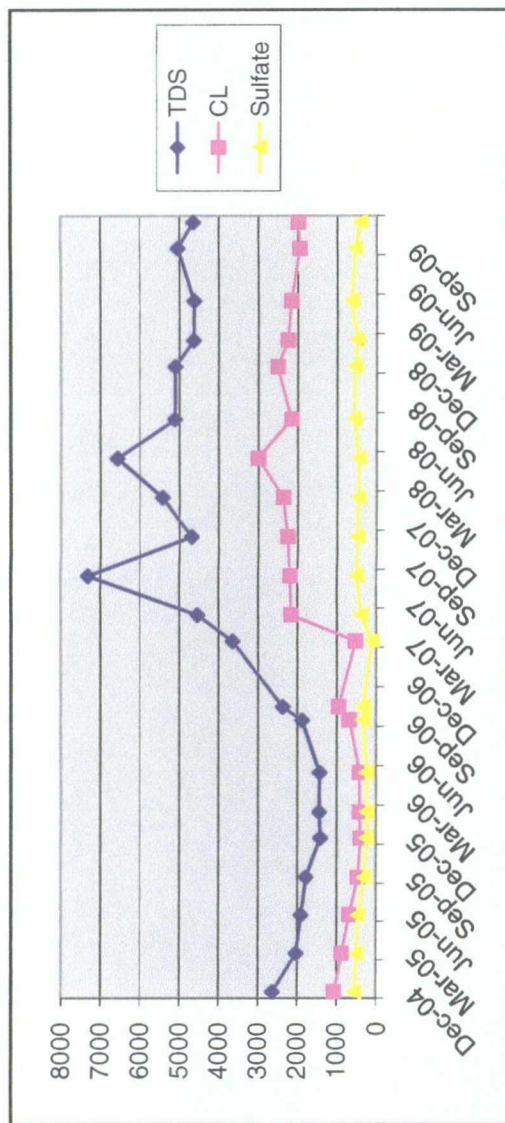


Table 2
Rice Operating Company
Justis L-1
Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	CI	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
2	77.72	93.05	2.50	12	03/28/06	564	1700	<0.001	<0.001	<0.001	<0.001	233	xxx
2	77.48	93.05	2.50	15	05/24/06	549	1730	<0.001	<0.001	<0.001	<0.001	215	xxx
2	77.23	93.05	2.50	10	09/14/06	546	1660	<0.001	<0.001	<0.001	<0.001	306	xxx
2	77.11	93.05	2.60	10	10/30/06	505	1560	<0.001	<0.001	<0.001	<0.001	275	Clear no odor
2	76.93	92.88	2.60	10	03/16/07	584	1392	<0.001	<0.001	<0.001	<0.001	362	Clear no odor
2	76.78	92.88	2.60	10	05/15/07	437	1490	<0.001	<0.001	<0.001	<0.001	262	Clear no odor
2	76.47	92.88	2.60	10	08/29/07	424	1438	<0.002	<0.002	<0.002	<0.006	295	Clear no odor
2	76.3	92.88	2.70	10	11/14/07	396	1353	<0.002	<0.002	<0.002	<0.006	283	Clear no odor
2	76.07	92.65	2.70	10	02/27/08	412	1360	<0.002	<0.002	<0.002	<0.006	269	Clear no odor
2	75.82	92.65	2.70	10	05/23/08	428	1380	<0.002	<0.002	<0.002	<0.006	267	Clear no odor
2	75.74	92.65	2.70	10	08/28/08	430	1400	<0.001	<0.001	<0.001	<0.003	240	Clear no odor
2	75.57	92.65	2.70	10	12/17/08	500	1660	<0.001	<0.001	<0.001	<0.003	351	Clear no odor
2	75.32	92.58	2.80	10	02/23/09	500	1700	xxx	xxx	xxx	xxx	346	Clear no odor
2	75.19	92.58	2.80	10	05/28/09	490	1710	xxx	xxx	xxx	xxx	438	Clear no odor
2	74.96	92.58	2.80	10	09/09/09	460	1730	xxx	xxx	xxx	xxx	438	Clear no odor
2	74.80	92.58	2.80	10	11/18/09	480	1660	xxx	xxx	xxx	xxx	349	Clear no odor

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

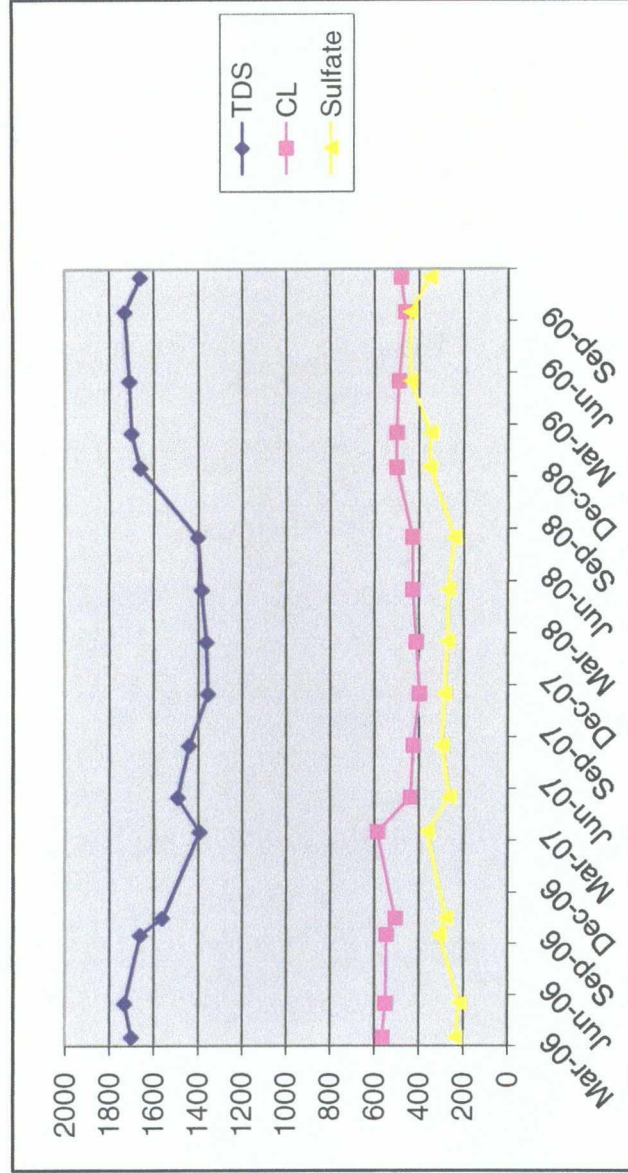


Table 3
Rice Operating Company
Justis L-1
Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
3	78.21	93.00	2.40	12	03/28/06	96.3	536	<0.001	<0.001	<0.001	<0.001	93.4	xxx
3	77.99	93.00	2.40	10	05/24/06	91.4	616	<0.001	<0.001	<0.001	<0.001	88.3	xxx
3	77.99	93.00	2.40	10	09/14/06	125	562	<0.001	<0.001	<0.001	<0.001	125	xxx
3	77.61	93.00	2.50	10	10/30/06	114	518	<0.001	<0.001	<0.001	<0.001	111	Clear no odor
3	77.47	92.84	2.50	10	03/16/07	146	574	<0.001	<0.001	<0.001	<0.001	146	Clear no odor
3	77.30	92.84	2.50	10	05/15/07	128	538	<0.001	<0.001	<0.001	<0.001	108	Clear no odor
3	76.98	92.84	2.50	10	08/29/07	156	702	<0.002	<0.002	<0.002	<0.006	134	Clear no odor
3	76.84	92.84	2.60	10	11/14/07	132	621	<0.002	0.002	0.003	0.007	131	Clear no odor
3	76.58	92.48	2.50	10	02/27/08	124	613	<0.002	<0.002	<0.002	<0.006	131	Clear no odor
3	76.36	92.48	2.60	10	05/23/08	164	696	<0.002	<0.002	<0.002	<0.006	126	Clear no odor
3	76.30	92.48	2.60	10	08/28/08	88	558	<0.001	<0.001	<0.001	<0.003	128	Clear no odor
3	76.23	92.48	2.60	10	12/17/08	140	661	<0.001	<0.001	<0.001	<0.003	128	Clear no odor
3	75.84	92.35	2.60	10	02/23/09	184	642	xxx	xxx	xxx	xxx	113	Clear no odor
3	75.76	92.35	2.70	10	05/28/09	188	751	xxx	xxx	xxx	xxx	115	Clear no odor
3	75.52	92.35	2.70	10	09/09/09	184	647	xxx	xxx	xxx	xxx	117	Clear no odor
3	75.32	92.35	2.70	10	11/18/09	196	660	xxx	xxx	xxx	xxx	85.9	Clear no odor

Graph 3
Rice Operating Company
MW-3
Justis L-1
Lea County, New Mexico

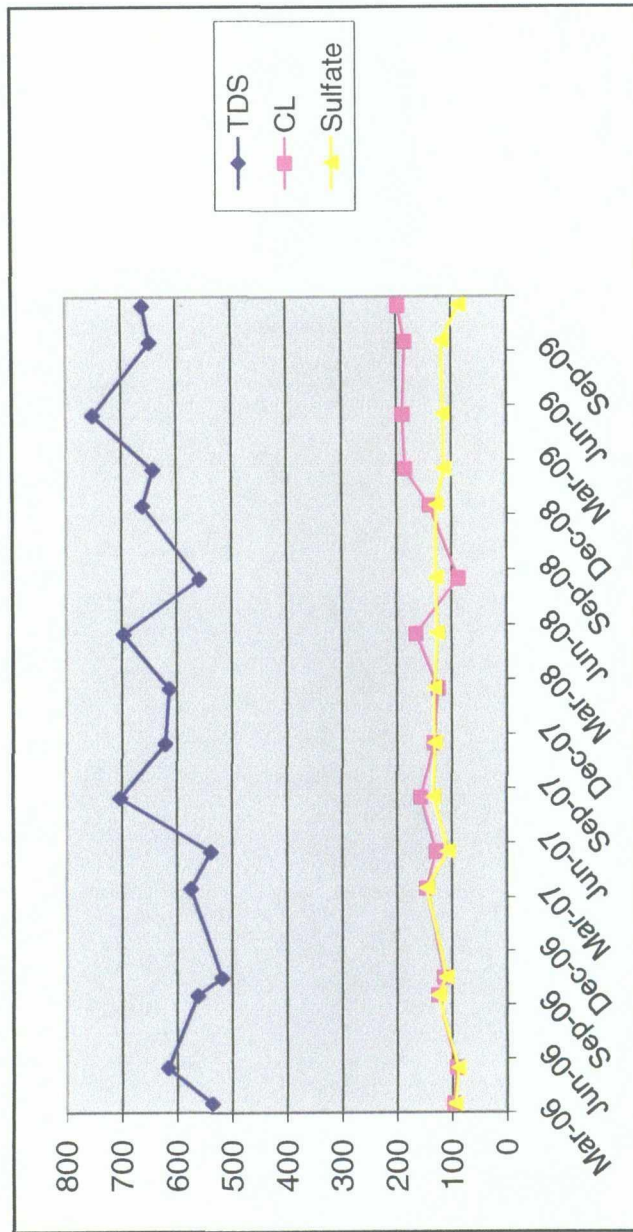


Table 4
Rice Operating Company
Justis L-1
Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
4	78.44	91.24	2.00	10	10/30/06	44.2	492	<0.001	<0.001	<0.001	<0.001	115	Clear no odor
4	78.32	90.62	2.00	10	03/16/07	45.8	512	<0.001	<0.001	<0.001	<0.001	109	Clear no odor
4	78.11	90.62	2.00	8	05/15/07	48.0	518	<0.001	<0.001	<0.001	<0.001	109	Clear no odor
4	77.84	90.62	2.00	8	08/29/07	52.0	578	<0.002	<0.002	<0.002	<0.006	151	Clear no odor
4	77.67	90.62	2.10	8	11/14/07	52.0	562	<0.002	<0.002	<0.002	<0.006	135	Clear no odor
4	77.44	90.51	2.10	8	02/27/08	52.0	554	<0.002	<0.002	<0.002	<0.006	126	Clear no odor
4	77.18	90.51	2.10	8	05/23/08	56.0	538	<0.002	<0.002	<0.002	<0.006	139	Clear no odor
4	77.11	90.51	2.10	8	08/28/08	52.0	580	<0.001	<0.001	<0.001	<0.003	114	Clear no odor
4	76.91	90.51	2.20	8	12/17/08	76.0	565	<0.001	<0.001	<0.001	<0.003	136	Clear no odor
4	76.65	90.37	2.20	8	02/23/09	52.0	567	xxx	xxx	xxx	xxx	120	Clear no odor
4	76.33	90.37	2.20	8	05/28/09	52.0	566	xxx	xxx	xxx	xxx	124	Clear no odor
4	76.27	90.37	2.30	8	09/09/09	56.0	565	xxx	xxx	xxx	xxx	121	Clear no odor
4	76.11	90.37	2.30	8	11/18/09	48.0	481	xxx	xxx	xxx	xxx	87.2	Clear no odor

Graph 4
Rice Operating Company
MW-4
Justis L-1
Lea County, New Mexico

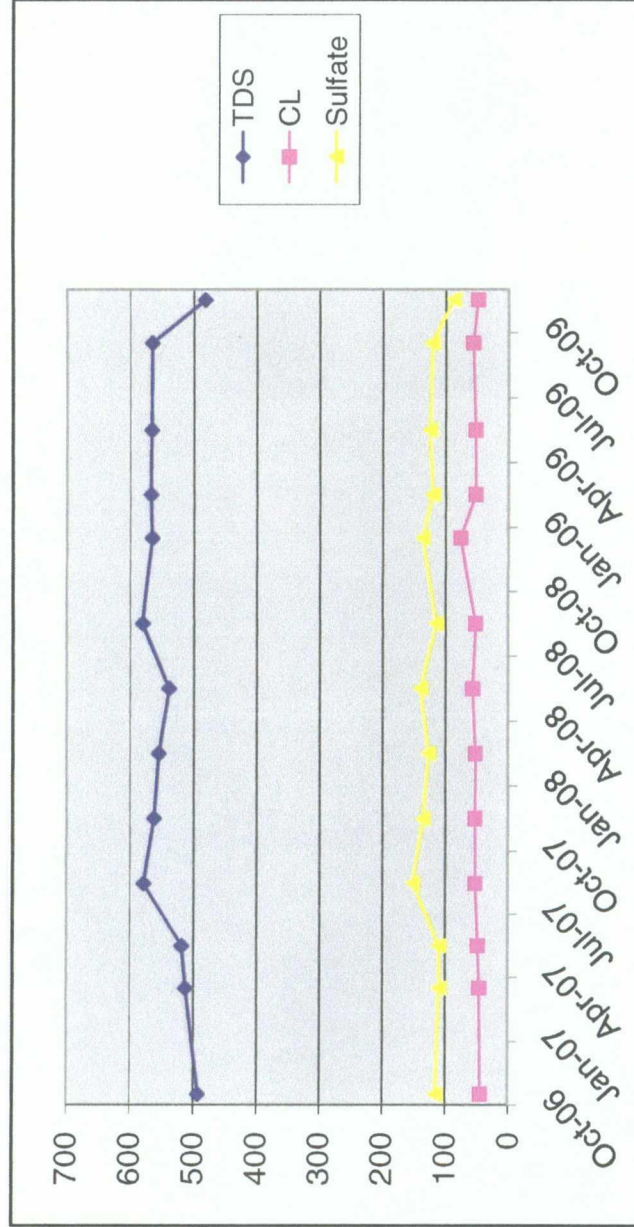


Table 5

Rice Operating Company

Justis L-1

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
5	75.94	87.20	1.80	8	05/15/07	1870	3950	<0.001	<0.001	<0.001	<0.001	655	Clear no odor
5	75.61	87.20	1.90	8	08/29/07	1619	4386	<0.002	<0.002	<0.002	<0.006	894	Clear no odor
5	75.44	87.20	1.90	8	11/14/07	1940	4306	<0.002	<0.002	<0.002	<0.006	490	Clear no odor
5	75.24	87.70	2.00	8	02/27/08	700	1950	<0.002	<0.002	<0.002	<0.006	333	Clear no odor
5	75.00	87.70	2.00	8	05/23/08	850	2450	<0.002	<0.002	<0.002	<0.006	560	Clear no odor
5	74.94	87.70	2.00	8	08/28/08	1180	3780	<0.001	<0.001	<0.001	<0.003	842	Clear no odor
5	74.76	87.70	2.10	8	12/17/08	416	1480	<0.001	<0.001	<0.001	<0.003	307	Clear no odor
5	74.52	88.19	2.20	8	02/23/09	790	2230	xxx	xxx	xxx	xxx	466	Clear no odor
5	74.38	88.19	2.20	8	05/28/09	940	2700	xxx	xxx	xxx	xxx	600	Clear no odor
5	74.14	88.19	2.20	8	09/09/09	1000	2960	xxx	xxx	xxx	xxx	635	Sand to clear
5	74.00	88.19	2.30	8	11/18/09	188	718	xxx	xxx	xxx	xxx	134	Sand to clear

Graph 5
Rice Operating Company
MW-5
Justis L-1
Lea County, New Mexico

