

AP -

47

ANNUAL MONITORING REPORT

YEAR(S):

2009



TETRA TECH

CERTIFIED MAIL
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April 6, 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, Blinebry Drinkard (BD) SWD System Junction Box F-17, Unit F, Section 17, T-21-S, R-37-E, Lea County, New Mexico, NMOCD CASE #1R0426-14 (AP-47)

Mr. Hansen:

Tetra Tech Inc. (Tetra Tech) takes this opportunity to submit the 2009 Annual Groundwater Summary Report for the Rice Operating Company (ROC), Blinebry Drinkard (BD) SWD System junction box F-17. 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.

In a meeting between the NMOCD, ROC and Tetra Tech on July 18, 2007 and January 23, 2008, it was agreed the source of the chlorides appeared to be from an up-gradient source based on groundwater gradient and chloride concentration maps. As such, it was agreed that ROC would reissue the original termination report requesting no additional groundwater monitoring. The termination request was submitted to the NMOCD in June 2008. On January 8, 2009, the NMOCD rejected ROC's request for a termination of groundwater activities at the site. In the letter, Mr. Hansen recommended that an additional monitor well be installed up-gradient of the tank battery. For 2010, ROC proposes to complete the installation of the monitor well, complete soil work, and continue quarterly sampling of the site.

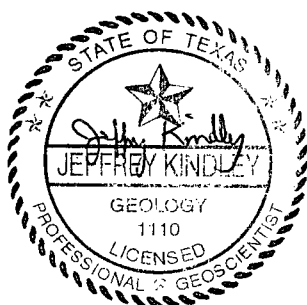
Tetra Tech
1910 North Big Spring, Midland, TX 79705
Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com



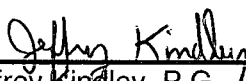
TETRA TECH

ROC is the service provider (agent) for the BD Salt Water Disposal System and has no ownership of any portion of the pipeline, well or facility. The BD 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 Environmental Geologist

cc: Hack Conder – ROC
Enclosures: Tables and Graphs

Table 1
Rice Operating Company
BD F-17
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	75.67	85.20	1.5240	4.5	06/05/03	177	589	0.004	<0.001	<0.001	<0.001	97.6	xxx
1	75.73	85.12	1.50	4.5	08/22/03	549	1540	<0.001	<0.001	<0.001	<0.001	112	xxx
1	75.75	84.85	1.456	4.3	11/20/03	851	2160	<0.001	<0.001	<0.001	<0.001	132	xxx
1	75.73	84.48	1.40	4.2	02/25/04	415	1300	<0.001	<0.001	<0.001	<0.001	96.8	xxx
1	71.75	85.12	2.13	6.4	05/27/04	195	726	<0.001	<0.001	<0.001	<0.001	97.8	xxx
1	75.48	84.60	1.46	4.4	09/02/04	284	896	<0.001	<0.001	<0.001	<0.001	90.6	Lt brown
1	75.10	84.00	1.42	4.5	12/21/04	886	3120	<0.001	<0.001	<0.001	<0.001	96.2	xxx
1	75.18	84.07	1.42	4.26	01/16/05	2970	6280	<0.001	<0.001	<0.001	<0.001	257	Re-sample
1	75.21	84.20	1.44	5.0	04/28/05	2510	4640	<0.001	<0.001	<0.001	<0.001	259	xxx
1	75.20	84.15	1.43	10.0	06/21/05	2310	4770	<0.001	<0.001	<0.001	<0.001	339	xxx
1	xxx	xxx	xxx	xxx	09/19/05	1890	4540	<0.001	<0.001	<0.001	<0.001	147	xxx
1	75.20	84.20	1.40	5.0	10/17/05	2400	4830	<0.001	<0.001	<0.001	<0.001	319	xxx
1	85.15	84.20	1.40	8.0	01/16/06	2090	4410	<0.001	<0.001	<0.001	<0.001	154	Silt to clear
1	75.20	84.20	1.40	8.0	04/11/06	2130	4340	<0.001	<0.001	<0.001	<0.001	167	Silt to clear
1	75.22	84.20	1.40	10.0	07/11/06	1930	3440	<0.001	<0.001	<0.001	<0.001	126	Clear
1	75.22	84.20	1.40	10.0	10/05/06	1020	2170	<0.001	<0.001	<0.001	<0.001	98.1	Clear
1	75.22	87.35	1.90	8.0	02/06/07	1480	2410	<0.001	<0.001	<0.001	<0.001	120	Clear
1	75.24	87.35	1.90	8.0	04/16/07	1110	2610	<0.001	<0.001	<0.001	<0.001	202	Clear
1	75.25	87.35	1.90	8.0	07/23/07	637	2110	<0.001	<0.001	<0.001	<0.002		Clear
1	75.24	87.35	1.90	8.0	10/04/07	720	1765	<0.001	<0.001	<0.001	<0.003	107	Clear
1	75.22	87.35	1.90	8.0	01/11/08	780	1760	<0.001	<0.001	0.001	0.004	115	Clear
1	75.23	87.35	1.90	8.0	04/03/08	436	1120	<0.001	<0.001	<0.001	<0.003	85.7	Clear
1	75.28	87.35	1.90	8.0	07/08/08	820	1960	<0.001	<0.001	<0.001	<0.003	105	Clear
1	75.31	87.35	1.90	8.0	10/08/08	530	1610	<0.001	<0.001	<0.001	<0.003	103	Clear
1	75.29	88.30	2.10	8.0	01/12/09	440	1160	xxx	xxx	xxx	xxx	101	Clear
1	75.30	88.30	2.10	8.0	04/20/09	404	1040	xxx	xxx	xxx	xxx	96.3	Clear
1	75.29	88.30	2.10	8.0	07/22/09	450	1160	xxx	xxx	xxx	xxx	94.5	Clear
1	75.30	88.30	2.10	8.0	10/15/09	450	1140	xxx	xxx	xxx	xxx	89.3	Clear/no odor

Graph 1
 Rice Operating Company
 MW-1
 BD F-17
 Lea County, New Mexico

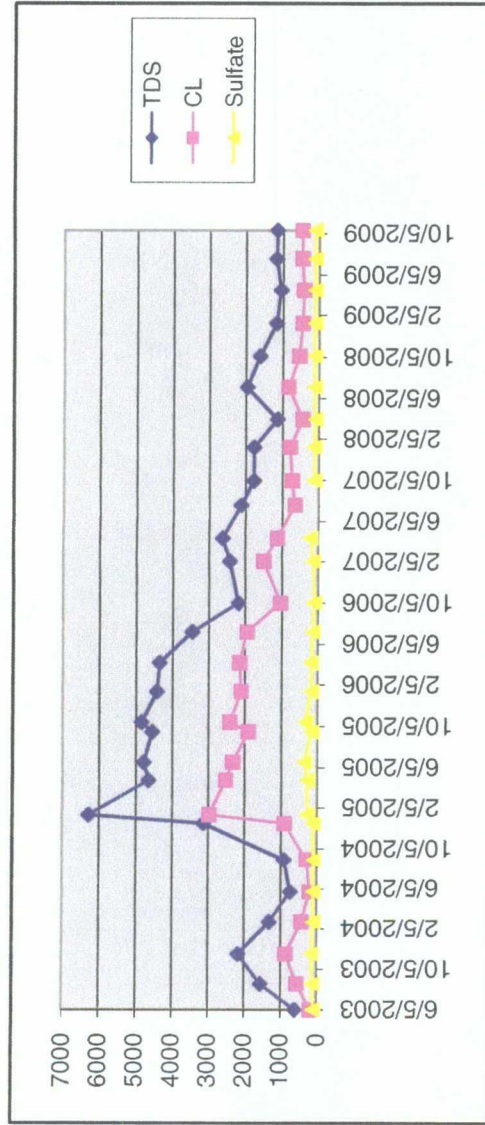


Table 2
Rice Operating Company
BD F-17
Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
2	75.55	90.00	2.30	10.0	03/27/06	50.8	412	<0.001	<0.001	<0.001	<0.001	58.4	xxx
2	75.90	90.00	2.30	10.0	04/11/06	57.9	436	<0.001	<0.001	<0.001	<0.001	68.2	xxx
2	75.60	90.00	2.30	10.0	07/11/06	60.5	456	<0.001	<0.001	<0.001	<0.001	73.3	xxx
2	75.62	90.00	2.30	10.0	10/05/06	47.6	442	<0.001	<0.001	<0.001	<0.001	59.2	Clear no odor
2	75.61	89.44	2.20	10.0	02/06/07	56	424	<0.001	<0.001	<0.001	<0.001	66.5	Clear no odor
2	75.62	89.44	2.20	8.0	04/16/07	58.5	414	<0.001	<0.001	<0.001	<0.001	74.2	Clear no odor
2	75.68	89.44	2.20	8.0	07/23/07	66.8	440	<0.001	<0.001	<0.001	<0.002	xxx	Sandy
2	75.61	89.44	2.20	8.0	10/04/07	64	475	<0.001	<0.001	<0.001	<0.003	80.5	Clear no odor
2	75.59	89.52	2.20	8.0	01/11/08	64	470	<0.001	<0.001	<0.001	<0.003	76	Clear no odor
2	75.61	89.52	2.20	8.0	04/03/08	60	446	<0.001	<0.001	<0.001	<0.003	77.2	Clear no odor
2	75.66	89.52	2.20	8.0	07/08/08	64	441	<0.001	<0.001	<0.001	<0.003	72.1	Clear no odor
2	75.70	89.52	2.20	8.0	10/08/08	60	483	<0.001	<0.001	<0.001	<0.003	79	Clear no odor
2	75.69	89.28	2.20	8.0	01/12/09	64	482	xxx	xxx	xxx	xxx	75	Clear no odor
2	75.72	89.28	2.20	8.0	04/20/09	60	443	xxx	xxx	xxx	xxx	79.4	Clear no odor
2	75.67	89.28	2.20	8.0	07/22/09	64	455	xxx	xxx	xxx	xxx	75.3	Clear no odor
2	75.68	89.28	2.20	8.0	10/15/09	64	474	xxx	xxx	xxx	xxx	71.9	Clear no odor

Graph 2
Rice Operating Company
MW-2
BD F-17
Lea County, New Mexico

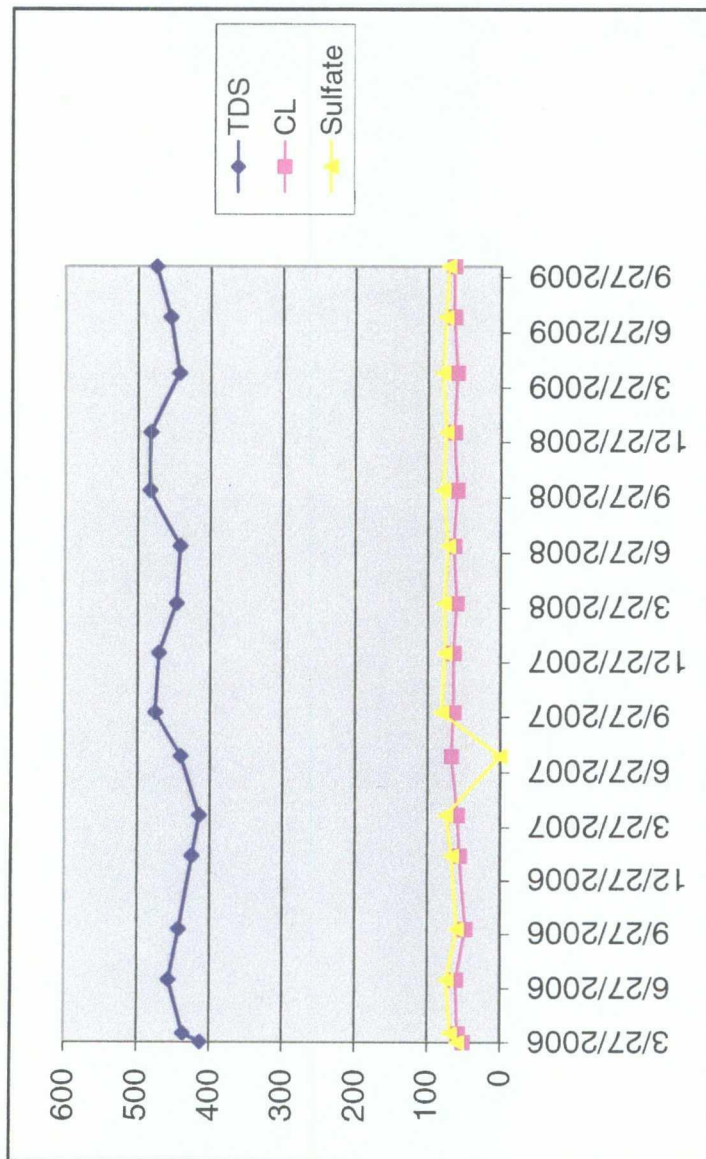


Table 3
Rice Operating Company
BD F-17
Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
3	73.91	88.00	2.30	10.0	03/27/06	901	2240	<0.001	<0.001	<0.001	<0.001	126	xxx
3	73.93	88.00	2.30	10.0	04/11/06	1340	2750	<0.001	<0.001	<0.001	<0.001	138	xxx
3	73.91	88.00	2.30	10.0	07/11/06	1680	3300	<0.001	<0.001	<0.001	<0.001	125	xxx
3	73.95	88.00	2.20	10.0	10/05/06	1600	3900	<0.001	<0.001	<0.001	<0.001	134	Clear
3	73.92	87.84	2.20	10.0	02/06/07	1490	2350	<0.001	<0.001	<0.001	<0.001	132	Clear
3	73.92	87.84	2.20	10.0	04/16/07	999	2950	<0.001	<0.001	<0.001	<0.001	177	Clear
3	73.98	87.84	2.20	8.0	07/23/07	1040	3190	<0.001	<0.001	<0.001	<0.002	xxx	Clear
3	73.97	87.84	2.20	8.0	10/04/07	830	2235	<0.001	<0.001	<0.001	<0.003	150	Clear
3	73.95	87.79	2.20	8.0	01/11/08	2160	4845	<0.001	<0.001	<0.001	<0.003	130	Clear
3	73.96	87.79	2.20	8.0	04/03/08	2140	4780	<0.001	<0.001	<0.001	<0.003	221	Clear
3	73.97	87.79	2.20	8.0	07/08/08	2500	6000	<0.001	<0.001	<0.001	<0.003	239	Clear
3	74.03	87.79	2.20	8.0	10/08/08	2080	4910	<0.001	<0.001	<0.001	<0.003	436	Clear
3	74.02	87.65	2.20	8.0	01/12/09	1400	3460	xxx	xxx	xxx	xxx	241	Clear
3	74.02	87.65	2.20	8.0	04/20/09	2200	4440	xxx	xxx	xxx	xxx	219	Clear
3	74.01	87.65	2.20	8.0	07/22/09	1880	4540	xxx	xxx	xxx	xxx	214	Clear
3	74.03	87.65	2.20	8.0	10/15/09	1180	2620	xxx	xxx	xxx	xxx	206	Clear

Graph 3
Rice Operating Company
MW-3
BD F-17
Lea County, New Mexico

