

AP - 48

ANNUAL MONITORING REPORT

YEAR(S):
2010



TETRA TECH

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March 30, 2011

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

Re: 2010 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 2010 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 figure presenting the location of the monitoring wells and most recent groundwater sampling results.
2. Tables summarizing all laboratory results and depths to groundwater at the site, including the current year (2010).
3. Graphs depicting the concentration of chlorides, total dissolved solids (TDS), and sulfates over time.
4. Laboratory results for the most recent groundwater sampling event.

On October 4, 2010, a Stage 2 Abatement Plan Addendum was submitted to the NMOCD. The addendum proposed installing a 20 mil polyethylene liner in order to impede vertical migration of chlorides in the soil near the initial junction box. In addition, the addendum included installation of a recovery well (RW-1) with plans to remove 60,385 gallons of mass calculated chloride impacted water from the well. A subsequent Addendum proposing a 45 foot by 60 foot, 20 mil polyethylene liner be installed at 4 feet bgs was submitted to the NMOCD on December 22, 2010. The NMOCD approved the Stage 2 Abatement Addendum Plan in an email dated December 27, 2010.

Tetra Tech

1910 North Big Spring, Midland, TX 79705

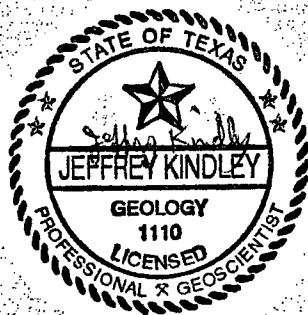
Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com



TETRA TECH

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.



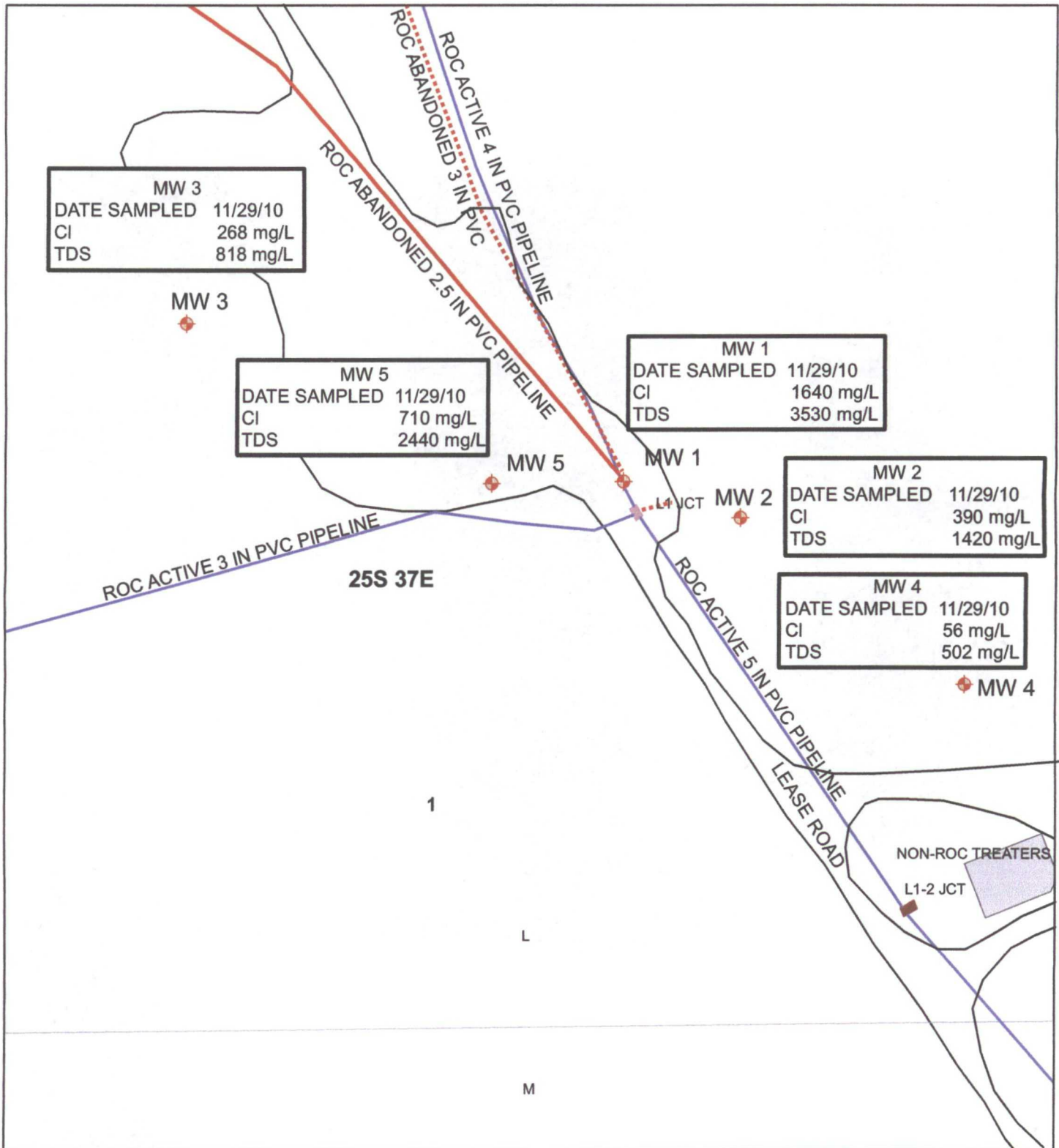
Respectfully Submitted,
Tetra Tech, Inc.

Jeffrey Kindley, P.G.
Senior Project Manager

cc: Hack Conder – ROC
Enclosures: Figure, Tables, Graphs, Lab Results

FIGURES

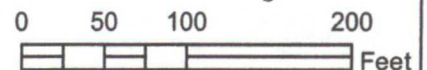
MONITOR WELL SAMPLING DATA



JUSTIS L-1 BOOT

Legals: UL/L SEC 1
T-25-S R-37-E
NMOCD Case #: AP 48

FIGURE 1



Drawing date: 3/24/11
Revision date:
Drafted by: TONY GRIECO

TABLES

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 mg/L	TDS mg/L	Benzene mg/L	Toluene mg/L	Ethyl Benzene mg/L	Total Xylenes mg/L	Sulfate mg/L	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
1	74.63	91.34	2.70	10	03/09/10	1880	5330	xxx	xxx	xxx	xxx	814	Clear no odor
1	74.42	91.34	2.70	10	06/03/10	1860	5530	xxx	xxx	xxx	xxx	510	Clear no odor
1	73.38	91.34	2.90	10	08/24/10	1740	3900	xxx	xxx	xxx	xxx	538	Clear no odor
1	74.15	91.34	2.80	10	11/29/10	1640	3530	xxx	xxx	xxx	xxx	621	Clear no odor

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

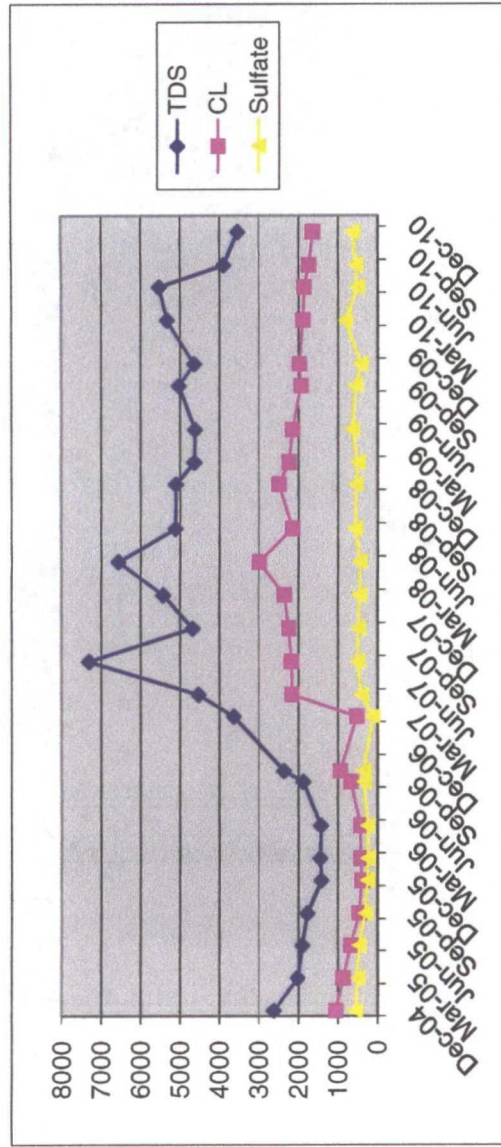


Table 2
Rice Operating Company
Justis L-1
Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	CI mg/L	TDS mg/L	Benzene mg/L	Toluene mg/L	Ethyl Benzene mg/L	Total Xylenes mg/L	Sulfate mg/L	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
2	74.59	92.58	2.90	10	03/09/10	428	1680	xxx	xxx	xxx	xxx	511	Clear no odor
2	74.41	92.58	2.90	10	06/03/10	460	1720	xxx	xxx	xxx	xxx	475	Clear no odor
2	74.34	92.58	2.90	10	08/24/10	420	1600	xxx	xxx	xxx	xxx	438	Clear no odor
2	74.10	92.58	3.00	10	11/29/10	390	1420	xxx	xxx	xxx	xxx	385	Clear no odor

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

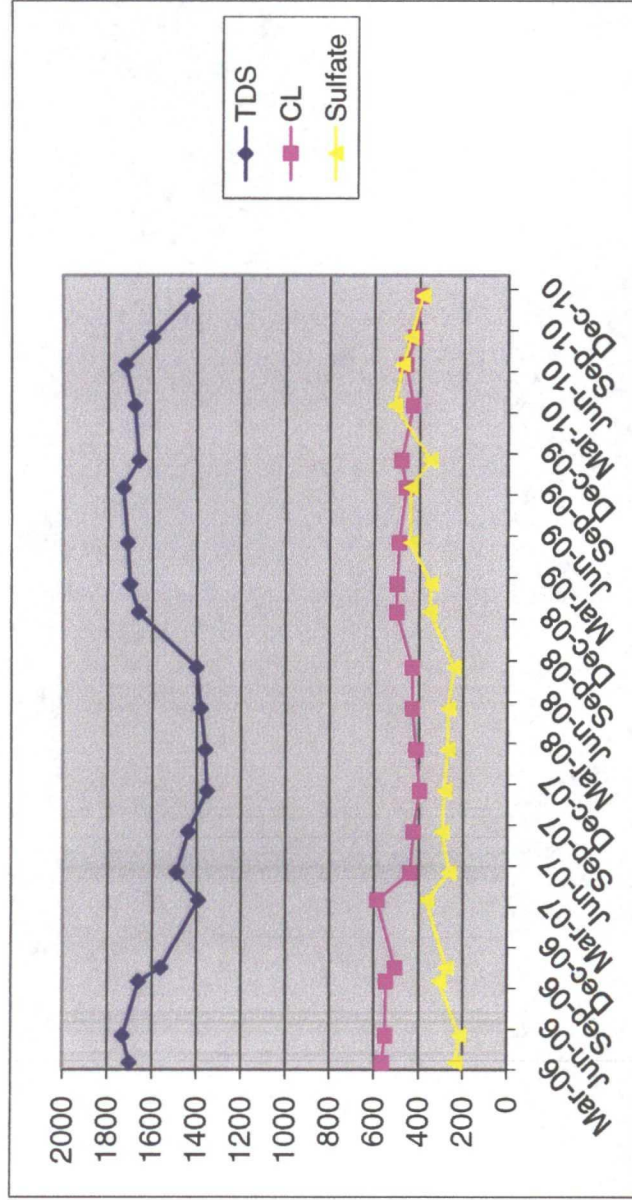


Table 3
Rice Operating Company
Justis L-1
Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	CI mg/L	TDS mg/L	Benzene mg/L	Toluene mg/L	Ethyl Benzene mg/L	Total Xylenes mg/L	Sulfate mg/L	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
3	75.11	92.29	2.70	10	03/09/10	224	793	xxx	xxx	xxx	xxx	147	Clear no odor
3	74.96	92.29	2.80	10	06/03/10	240	903	xxx	xxx	xxx	xxx	99	Clear no odor
3	74.87	92.29	2.80	10	08/24/10	244	734	xxx	xxx	xxx	xxx	108	Clear no odor
3	74.66	92.29	2.80	10	11/29/10	268	818	xxx	xxx	xxx	xxx	120	Clear no odor

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

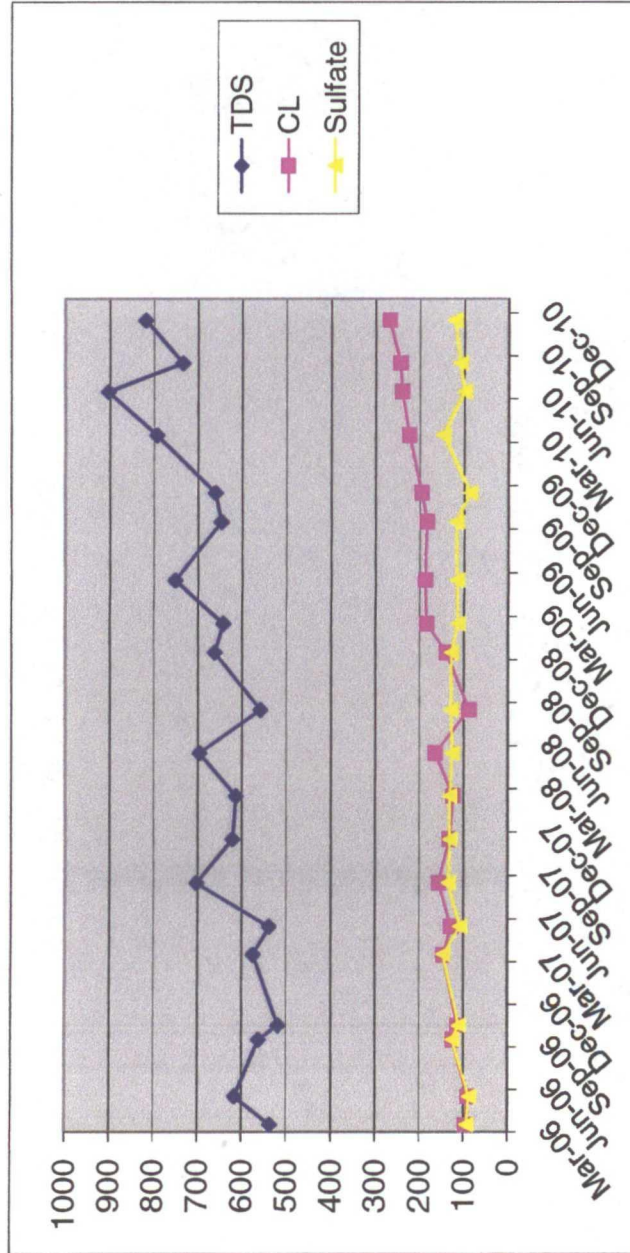


Table 4

Rice Operating Company
Justis L-1

Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl mg/L	TDS mg/L	Benzene mg/L	Toluene mg/L	Ethyl Benzene mg/L	Total Xylenes mg/L	Sulfate mg/L	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
4	75.89	90.36	2.30	8	03/09/10	48.0	536	xxx	xxx	xxx	xxx	162	Sand to clear
4	75.71	90.36	2.30	8	06/03/10	52.0	525	xxx	xxx	xxx	xxx	106	Sand to clear
4	75.63	90.36	2.40	8	08/24/10	60.0	538	xxx	xxx	xxx	xxx	128	Sand to clear
4	75.40	90.36	2.40	8	11/29/10	56.0	502	xxx	xxx	xxx	xxx	135	Sand to clear

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

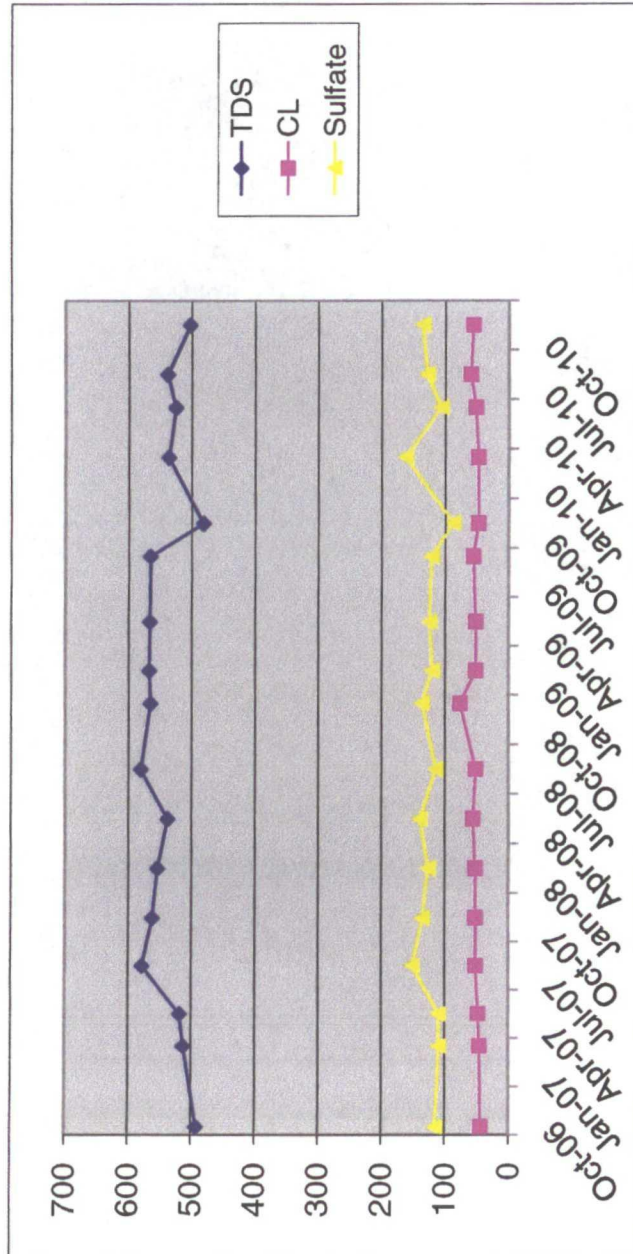
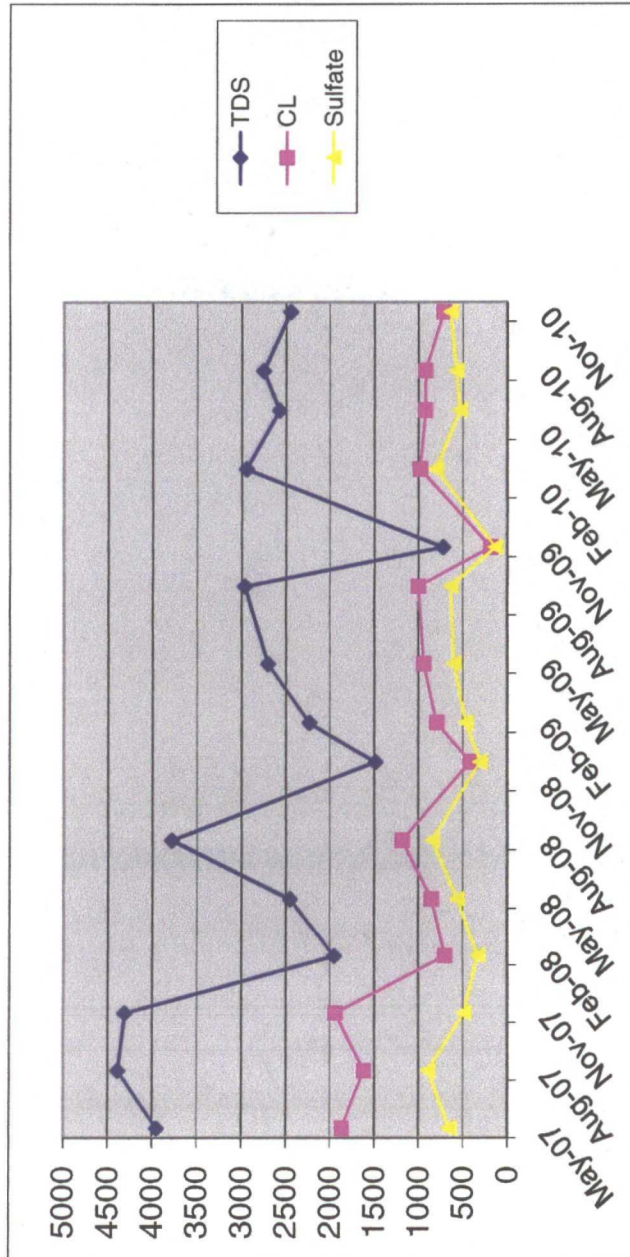


Table 5
Rice Operating Company
Justis L-1
Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	CI mg/L	TDS mg/L	Benzene mg/L	Toluene mg/L	Ethyl Benzene mg/L	Total Xylenes mg/L	Sulfate mg/L	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	<0.001	<0.001	<0.001	<0.003	466	Clear no odor
5	74.38	88.19	2.20	8	05/28/09	940	2700	<0.001	<0.001	<0.001	<0.003	600	Clear no odor
5	74.14	88.19	2.20	8	09/09/09	1000	2960	<0.001	<0.001	<0.001	<0.003	635	Sand to clear
5	74.00	88.19	2.30	8	11/18/09	188	718	<0.001	<0.001	<0.001	<0.003	134	Sand to clear
5	73.79	88.20	2.30	8	03/09/10	980	2940	<0.001	<0.001	<0.001	<0.003	801	Sand to clear
5	73.60	88.20	2.30	8	06/03/10	920	2570	<0.001	<0.001	<0.001	<0.003	530	Sand to clear
5	73.53	88.20	2.30	8	08/24/10	920	2750	<0.001	<0.001	<0.001	<0.003	572	Sand to clear
5	73.33	88.20	2.40	8	11/29/10	710	2440	<0.001	<0.001	<0.001	<0.003	636	Sand to clear

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



APPENDIX A



December 07, 2010

Hack Conder

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: JUSTIS L-1 BOOT

Enclosed are the results of analyses for samples received by the laboratory on 12/01/10 14:35.

Cardinal Laboratories is accredited through Texas NELAP for:

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

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

Received: 12/01/2010
Reported: 12/07/2010
Project Name: JUSTIS L-1 BOOT
Project Number: NOT GIVEN
Project Location: T25S-R37E-SEC1 L ~ LEA COUNTY - NM

Sampling Date: 11/29/2010
Sampling Type: Water
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: MONITOR WELL #1 (H021423-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1640	4.00	12/07/2010	ND	104	104	100	3.77	
Sulfate 375.4		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate	621	10.0	12/06/2010	ND	43.2	108	40.0	0.995	
TDS 160.1		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	3530	5.00	12/02/2010	ND				9.79	

Sample ID: MONITOR WELL #2 (H021423-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	390	4.00	12/07/2010	ND	104	104	100	3.77	
Sulfate 375.4		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate	385	10.0	12/06/2010	ND	43.2	108	40.0	0.995	
TDS 160.1		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	1420	5.00	12/02/2010	ND				2.86	

Cardinal Laboratories

*==Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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**Analytical Results For:**

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

Received: 12/01/2010
Reported: 12/07/2010
Project Name: JUSTIS L-1 BOOT
Project Number: NOT GIVEN
Project Location: T25S-R37E-SEC1 L ~ LEA COUNTY - NM

Sampling Date: 11/29/2010
Sampling Type: Water
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: MONITOR WELL #3 (H021423-03)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	268	4.00	12/07/2010	ND	104	104	100	3.77	
Sulfate 375.4		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate	120	10.0	12/06/2010	ND	43.2	108	40.0	0.995	
TDS 160.1		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	818	5.00	12/02/2010	ND				2.86	

Sample ID: MONITOR WELL #4 (H021423-04)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	56.0	4.00	12/07/2010	ND	104	104	100	3.77	
Sulfate 375.4		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate	135	10.0	12/06/2010	ND	43.2	108	40.0	0.995	
TDS 160.1		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	502	5.00	12/02/2010	ND				2.86	

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Analytical Results For:

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

Received: 12/01/2010
Reported: 12/07/2010
Project Name: JUSTIS L-1 BOOT
Project Number: NOT GIVEN
Project Location: T25S-R37E-SEC1 L ~ LEA COUNTY - NM

Sampling Date: 11/29/2010
Sampling Type: Water
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: MONITOR WELL #5 (H021423-05)

BTEX 8021B		mg/L		Analyzed By: cms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	12/03/2010	ND	0.049	97.8	0.0500	2.25	
Toluene*	<0.001	0.001	12/03/2010	ND	0.048	95.8	0.0500	2.95	
Ethylbenzene*	<0.001	0.001	12/03/2010	ND	0.047	94.7	0.0500	4.31	
Total Xylenes*	<0.003	0.003	12/03/2010	ND	0.140	93.5	0.150	4.64	

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 80-120

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	710	4.00	12/07/2010	ND	104	104	100	3.77	

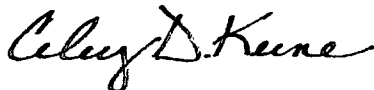
Sulfate 375.4		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate	636	10.0	12/06/2010	ND	43.2	108	40.0	0.995	

TDS 160.1		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	2440	5.00	12/02/2010	ND				2.86	

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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

Cardinal Laboratories, Inc. 101 East Mariand - Hobbs, New Mexico 88240 Tel (575) 393-2326 Fax (575) 393-2476		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST LAB Order ID # _____								
Company Name: RICE Operating Company Project Manager: Hack Conder Address: (Street, City, Zip) 122 W Taylor Street - Hobbs, New Mexico 88240 Phone #: (575) 393-9174 Fax #: (575) 397-1471		ANALYSIS REQUEST (Circle or Specify Method No.)								
Project Name: Justis L-1 Boot Project Location: T25S-R37E-Sec1 L ~ Lea County - New Mexico Sampler Signature: Rozanne Johnson (575) 631-9910 <i>rozanne@valornet.com</i>		PCB's 8082/608 GC/MS Semi. Vol. 8270C/625 GC/MS Vol. 8260B/624 RCI TCLP Pesticides TCLP Semi Volatiles TCLP Volatiles TCLP Metals Ag As Ba Cd Cr Pb Se Hg Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 BOD, TSS, pH Pesticides 8081A/608 Moisture Content Cations (Ca, Mg, Na, K) Anions (Cl, SO4, CO3, HCO3) Sulfates Total Dissolved Solids Chlorides Turn Around Time ~ 24 Hours								
LAB # (LAB USE ONLY)	FIELD CODE	CONTAINERS (G) Grab or (C) Comp	MATRIX WATER SOIL AIR SLUDGE	PRESERVATIVE METHOD HCL (2.4ml VOA) HNO3 NaHSO4 H2SO4 ICE (1-Liter HDPE) NONE	SAMPLING DATE (2010)	TIME	RECEIVED BY: Rozanne Johnson Date: 12-1-2010 Time: 14:35		RECEIVED BY: (Laboratory Staff) Date: Time:	
							Relinquished by: Date: Time:		Relinquished by: Date: Time:	
121423-1 Monitor Well #1 2 Monitor Well #2 3 Monitor Well #3 4 Monitor Well #4 A-C 5 Monitor Well #5		G 1 X G 1 X G 1 X G 1 X G 3 X			11-29 14:00 11-29 11:50 11-29 9:45 11-29 10:45 11-29 12:55		Phone Results Yes No Fax Results Yes No	REMARKS:		
Delivered By: (Circle One) <i>Rozanne Johnson</i>		Sample Condition: Cool Yes No Intact Yes No		CHECKED BY: (Initials) <i>RJ</i>		Email Results to: hconder@riceswd.com Weinheimer@rice-scs.com KJones@riceswd.com rozanne@valornet.com				

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