

AP - 75

**ANNUAL
MONITORING REPORT**

YEAR(S):
2010



CERTIFIED MAIL RECEIPT NO. 7010 2250 0001 4928 0117

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MAR 14 A 11:48 March 11, 2011

Mr. Edward Hansen
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87504

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MAR 14 2011
Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

RE: **2010 ANNUAL GROUNDWATER MONITORING REPORT
BD JCT. J-26 SITE (AP-75)
T21S, R37E, SECTION 26, UNIT LETTER J
LEA COUNTY, NEW MEXICO**

Mr. Hansen:

As agent for Rice Operating Company (ROC), Trident Environmental submits this 2010 Annual Groundwater Monitoring Report for the BD Jct. J-26 site (AP-75) located in the Blinebry-Drinkard (BD) Salt Water Disposal (SWD) System.

Recovery well RW-1 was installed on May 14, 2010. Groundwater recovery activities were initiated at monitoring well MW-2 on October 10, 2010. As of November 26, 2010, approximately 125 bbls of groundwater has been removed when the system was shut down for the winter season to avoid any breakdowns from freezing conditions.

ROC is the service provider (agent) for the BD SWD System and has no ownership of any portion of 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 concerning this annual summary of groundwater monitoring information. If you have any questions, please contact Hack Conder at (575) 393-9174.

Sincerely,

Gilbert J. Van Deventer, REM, PG

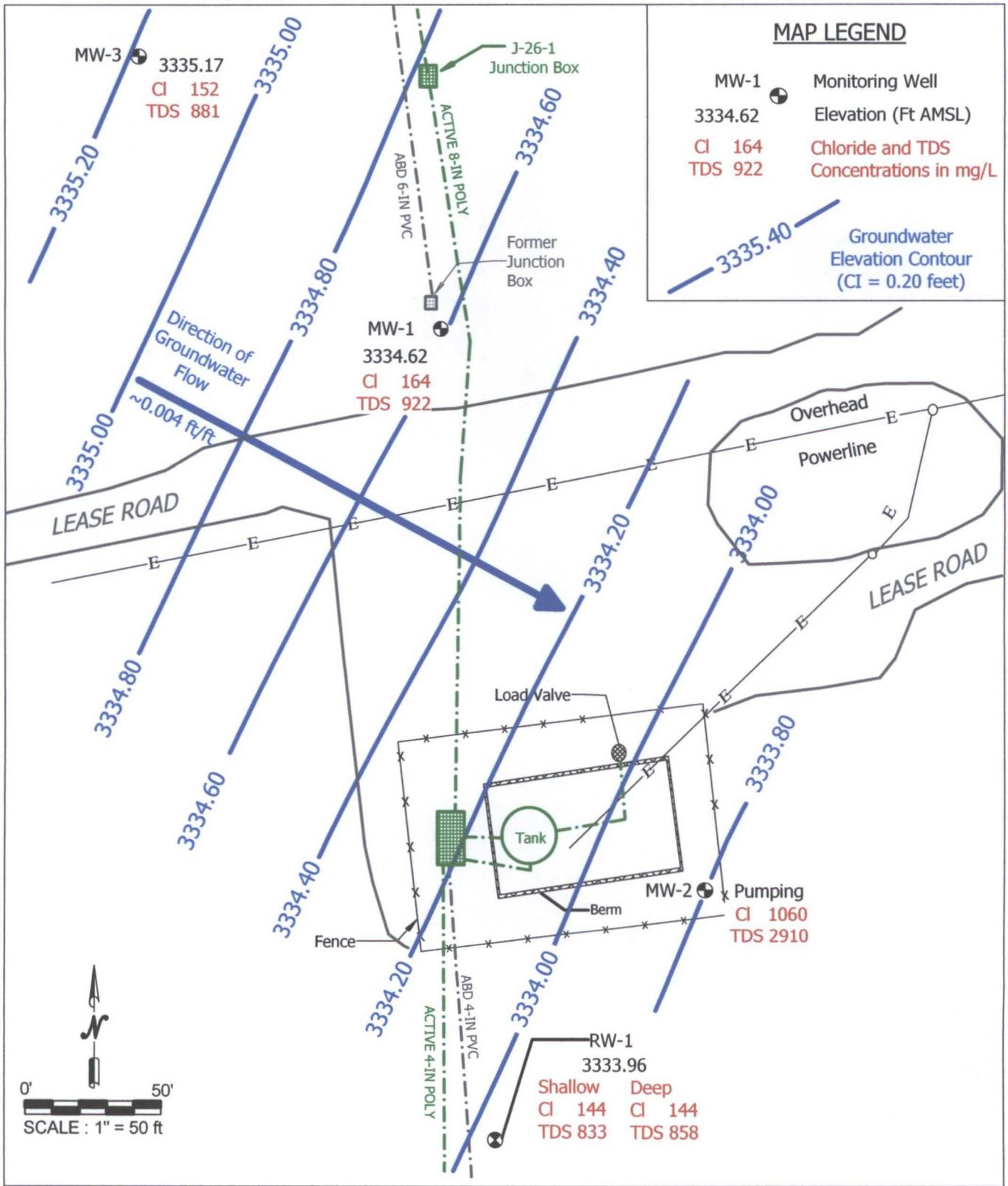
cc: Hack Conder (Rice Operating Co., Hobbs, NM)

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MAR 14 2011

Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

enclosures: map, tables, graphs, laboratory analytical reports, and chain of custody documentation



BD Jct. J-26 Site (AP-75)
 T21S - R37E - Section 26 - Unit J
 Lea County, New Mexico

FIGURE 1
 Groundwater Gradient and Chloride/TDS Concentration Map
 October 12, 2010

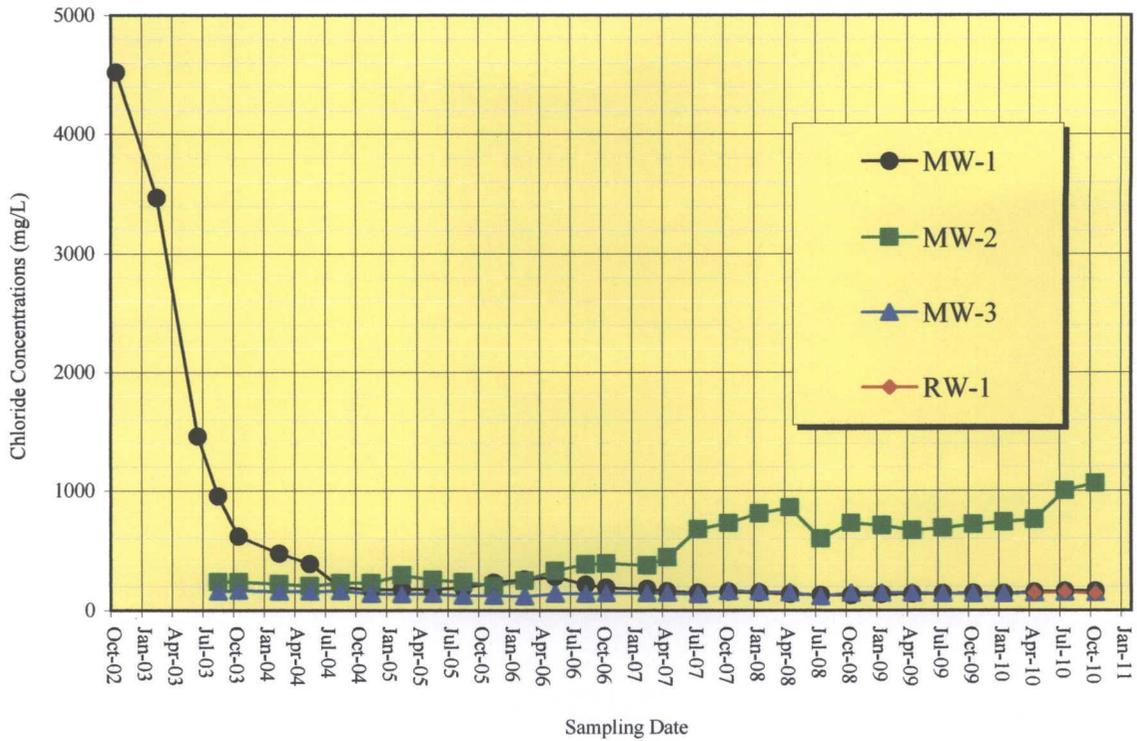
Historical Groundwater Sampling Results

Monitoring Well	Sample Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)	Chloride (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
MW-1	10/29/02	43.02	3332.82	4520	9020	< 0.001	< 0.001	< 0.001	< 0.001
	02/28/03	42.33	3333.51	3470	6870	< 0.001	< 0.001	< 0.001	< 0.001
	06/05/03	42.52	3333.32	1460	3280	< 0.001	< 0.001	< 0.001	< 0.001
	08/22/03	43.72	3332.12	957	2620	< 0.001	< 0.001	< 0.001	< 0.001
	10/30/03	43.91	3331.93	620	2040	< 0.001	< 0.001	< 0.001	< 0.001
	02/18/04	43.70	3332.14	478	1630	< 0.001	< 0.001	< 0.001	< 0.001
	05/05/04	40.80	3335.04	390	1440	< 0.001	< 0.001	< 0.001	< 0.001
	08/10/04	37.02	3338.82	195	1080	< 0.001	< 0.001	< 0.001	< 0.001
	11/09/04	36.61	3339.23	177	1100	< 0.001	< 0.001	< 0.001	< 0.001
	02/09/05	36.62	3339.22	179	1090	< 0.001	< 0.001	< 0.001	< 0.001
	05/05/05	37.00	3338.84	179	1060	< 0.001	< 0.001	< 0.001	< 0.001
	08/13/05	37.56	3338.28	193	1000	< 0.001	< 0.001	< 0.001	< 0.001
	11/07/05	37.98	3337.86	233	1020	< 0.001	< 0.001	< 0.001	< 0.001
	02/06/06	38.39	3337.45	262	1080	< 0.001	< 0.001	< 0.001	< 0.001
	05/08/06	38.55	3337.29	282	1140	< 0.001	< 0.001	< 0.001	< 0.001
	08/01/06	38.80	3337.04	218	1126	< 0.001	< 0.001	< 0.001	< 0.001
	10/23/06	39.21	3336.63	193	1010	---	---	---	---
	02/08/07	39.52	3336.32	182	912	---	---	---	---
	04/18/07	39.66	3336.18	161	898	---	---	---	---
	07/18/07	39.86	3335.98	149	900	---	---	---	---
	10/10/07	40.07	3335.77	160	915	---	---	---	---
	01/14/08	40.35	3335.49	152	904	---	---	---	---
	04/04/08	40.41	3335.43	140	890	---	---	---	---
	07/15/08	40.44	3335.40	132	907	---	---	---	---
	10/08/08	40.76	3335.08	128	952	---	---	---	---
	01/16/09	41.01	3334.83	136	890	---	---	---	---
	04/13/09	40.94	3334.90	140	899	---	---	---	---
	07/14/09	41.07	3334.77	144	893	---	---	---	---
10/13/09	41.02	3334.82	148	911	---	---	---	---	
01/14/10	41.01	3334.83	144	891	---	---	---	---	
04/12/10	41.17	3334.67	156	922	---	---	---	---	
07/16/10	41.22	3334.62	164	939	---	---	---	---	
10/12/10	41.22	3334.62	164	922	---	---	---	---	
MW-2	08/22/03	43.99	3331.33	239	1180	< 0.001	< 0.001	< 0.001	< 0.001
	10/30/03	44.17	3331.15	239	1240	< 0.001	< 0.001	< 0.001	< 0.001
	02/18/04	43.91	3331.41	221	1150	< 0.001	0.001	< 0.001	< 0.001
	05/05/04	40.98	3334.34	204	1060	< 0.001	0.001	< 0.001	< 0.001
	08/10/04	37.14	3338.18	230	1120	< 0.001	< 0.001	< 0.001	< 0.001
	11/09/04	36.99	3338.33	230	1120	< 0.001	< 0.001	< 0.001	< 0.001
	02/09/05	37.03	3338.29	294	1220	< 0.001	< 0.001	< 0.001	< 0.001
	05/06/05	37.46	3337.86	257	1210	< 0.001	< 0.001	< 0.001	< 0.001
	08/13/05	38.02	3337.30	237	1180	< 0.001	< 0.001	< 0.001	< 0.001
	11/07/05	38.44	3336.88	206	1130	< 0.001	< 0.001	< 0.001	< 0.001
	02/06/06	38.83	3336.49	250	1090	< 0.001	< 0.001	< 0.001	< 0.001
	05/08/06	39.02	3336.30	332	1500	< 0.001	< 0.001	< 0.001	< 0.001
	08/01/06	39.35	3335.97	387	1358	< 0.001	< 0.001	< 0.001	< 0.001
	10/23/06	39.71	3335.61	395	1370	---	---	---	---
	02/08/07	40.03	3335.29	378	1220	---	---	---	---
04/18/07	40.09	3335.23	446	1380	---	---	---	---	
07/18/07	40.30	3335.02	679	1720	---	---	---	---	

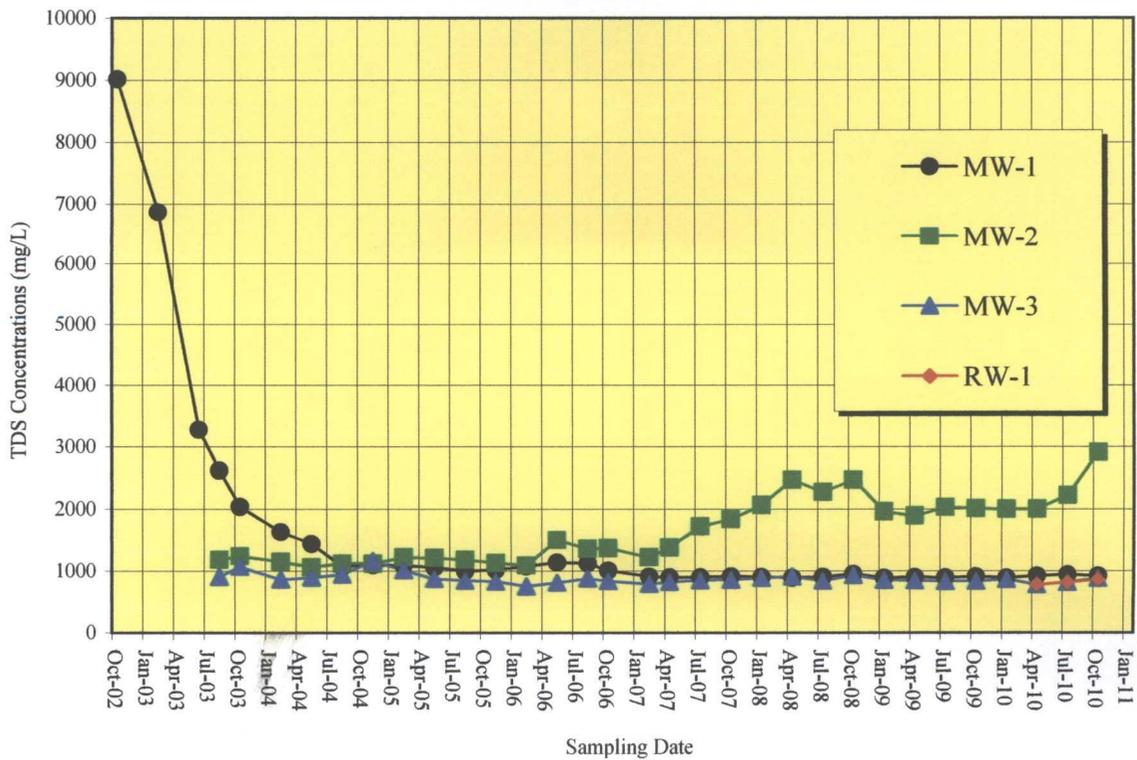
Historical Groundwater Sampling Results

Monitoring Well	Sample Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)	Chloride (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
MW-2	10/10/07	40.52	3334.80	730	1838	---	---	---	---
	01/14/08	40.74	3334.58	810	2061	---	---	---	---
	04/04/08	40.80	3334.52	860	2470	---	---	---	---
	07/15/08	40.84	3334.48	600	2270	---	---	---	---
	10/08/08	41.20	3334.12	730	2470	---	---	---	---
	01/16/09	41.39	3333.93	710	1960	---	---	---	---
	04/13/09	41.30	3334.02	670	1890	---	---	---	---
	07/14/09	41.42	3333.90	690	2030	---	---	---	---
	10/13/09	41.31	3334.01	720	2010	---	---	---	---
	01/14/10	41.33	3333.99	740	2000	---	---	---	---
	04/12/10	41.49	3333.83	760	2000	---	---	---	---
	07/16/10	41.52	3333.80	1000	2220	---	---	---	---
10/12/10	---	---	1060	2910	---	---	---	---	
MW-3	08/22/03	43.06	3332.79	160	904	< 0.001	< 0.001	< 0.001	< 0.001
	10/30/03	43.28	3332.57	168	1070	< 0.001	< 0.001	< 0.001	< 0.001
	02/18/04	43.03	3332.82	160	862	< 0.001	< 0.001	< 0.001	< 0.001
	05/05/04	40.04	3335.81	160	891	< 0.001	< 0.001	< 0.001	< 0.001
	08/10/04	36.55	3339.30	164	941	< 0.001	< 0.001	< 0.001	< 0.001
	11/09/04	36.22	3339.63	142	1160	< 0.001	< 0.001	< 0.001	< 0.001
	02/09/05	36.17	3339.68	138	1010	< 0.001	< 0.001	< 0.001	< 0.001
	05/06/05	36.56	3339.29	141	870	< 0.001	< 0.001	< 0.001	< 0.001
	08/13/05	37.12	3338.73	125	842	< 0.001	< 0.001	< 0.001	< 0.001
	11/07/05	37.55	3338.30	125	826	< 0.001	< 0.001	< 0.001	< 0.001
	02/06/06	37.84	3338.01	119	748	< 0.001	< 0.001	< 0.001	< 0.001
	05/08/06	38.00	3337.85	142	806	< 0.001	< 0.001	< 0.001	< 0.001
	08/01/06	38.22	3337.63	141	876	< 0.001	< 0.001	< 0.001	< 0.001
	10/23/06	38.68	3337.17	147	834	---	---	---	---
	02/08/07	39.01	3336.84	147	788	---	---	---	---
	04/18/07	39.16	3336.69	150	818	---	---	---	---
	07/18/07	39.40	3336.45	139	848	---	---	---	---
	10/10/07	39.60	3336.25	164	857	---	---	---	---
	01/14/08	39.90	3335.95	160	886	---	---	---	---
	04/04/08	39.95	3335.90	152	911	---	---	---	---
	07/15/08	39.99	3335.86	120	840	---	---	---	---
	10/08/08	40.27	3335.58	148	929	---	---	---	---
	01/16/09	40.54	3335.31	148	853	---	---	---	---
04/13/09	40.50	3335.35	148	844	---	---	---	---	
07/14/09	40.63	3335.22	144	831	---	---	---	---	
10/13/09	40.61	3335.24	144	835	---	---	---	---	
01/14/10	40.60	3335.25	144	865	---	---	---	---	
04/12/10	40.65	3335.20	148	776	---	---	---	---	
07/16/10	40.64	3335.21	156	811	---	---	---	---	
10/12/10	40.68	3335.17	152	881	---	---	---	---	
RW-1 (Shallow)	05/24/10	40.83	3333.93	152	846	---	---	---	---
	07/16/10	40.80	3333.96	152	834	---	---	---	---
	10/12/10	40.79	3333.97	144	833	---	---	---	---
RW-1 (Deep)	05/24/10	40.83	3333.93	152	825	---	---	---	---
	07/16/10	40.80	3333.96	152	820	---	---	---	---
	10/12/10	40.79	3333.97	144	858	---	---	---	---

Chloride Concentrations Versus Time Graph



Total Dissolved Solids Concentrations Versus Time Graph





October 20, 2010

Hack Conder
Rice Operating Company
112 W. Taylor
Hobbs, NM 88240

RE: BD JUNCTION J-26

Enclosed are the results of analyses for samples received by the laboratory on 10/14/10 9:51.

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



Analytical Results For:

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

Received:	10/14/2010	Sampling Date:	10/12/2010
Reported:	10/20/2010	Sampling Type:	Water
Project Name:	BD JUNCTION J-26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T21S R37E SEC26 J~LEA CTY, NM		

Sample ID: MONITOR WELL #1 (H021054-01)

Chloride, SM4500CI-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	164	4.00	10/18/2010	ND	108	108	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	234	10.0	10/18/2010	ND	38.9	97.2	40.0	5.36		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	922	5.00	10/15/2010	ND				1.40		

Sample ID: MONITOR WELL #2 (H021054-02)

Chloride, SM4500CI-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1060	4.00	10/18/2010	ND	108	108	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	473	10.0	10/18/2010	ND	38.9	97.2	40.0	5.36		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	2910	5.00	10/15/2010	ND				1.40		

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	10/14/2010	Sampling Date:	10/12/2010
Reported:	10/20/2010	Sampling Type:	Water
Project Name:	BD JUNCTION J-26	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T21S R37E SEC26 J~LEA CTY, NM		

Sample ID: MONITOR WELL #3 (H021054-03)

Chloride, SM4500CI-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	152	4.00	10/18/2010	ND	108	108	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	206	10.0	10/18/2010	ND	38.9	97.2	40.0	5.36		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	881	5.00	10/15/2010	ND				1.40		

Sample ID: RECOVERY WELL 1-DEEP (H021054-04)

Chloride, SM4500CI-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	4.00	10/18/2010	ND	108	108	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	114	10.0	10/18/2010	ND	38.9	97.2	40.0	5.36		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	858	5.00	10/15/2010	ND				1.40		

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received: 10/14/2010
 Reported: 10/20/2010
 Project Name: BD JUNCTION J-26
 Project Number: NONE GIVEN
 Project Location: T21S R37E SEC26 J~LEA CTY, NM

Sampling Date: 10/12/2010
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: RECOVERY WELL 1-SHALLOW (H021054-05)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	4.00	10/18/2010	ND	108	108	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	108	10.0	10/18/2010	ND	38.9	97.2	40.0	5.36		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	833	5.00	10/15/2010	ND				1.40		

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Caley D. Keene, Lab Director/Quality Manager



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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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

