L Peter Galusky, Jr PE

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April 1, 2021 Bradford Billings New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87505 RE: 2020 Annual Report Rice Operating Company BD P-26-1 and BD P-26-2 (AP-97), T21S, R37E,	 Review of 2020 Annual Report: Content satisfactory 1. Continue sampling on a semi-annual schedule at a minimum 2. OCD pre-approves sampling termination from MW #2 3. OCD pre-approves eliminating sulfate analysis from MW#1 & MW #3 this point forward 4. Submit summarized activities completed and their results in a 2021 Annual Report. Submittal to OCD expected no later than March 31,2022.

Sent by E-mail

Mr. Billings:

This letter summarizes progress made over the past calendar year for the BD P-26-1 and BD P-26-2 sites which are operated by Rice Operating Company (ROC). Location and site schematic maps are given in the Appendix (Figures 1 and 2, respectively). In brief:

BD P-26-1

Groundwater analyte concentrations for BD P-26-1 are given in Figure 3 (average annual values), Table 1 (annual averages) and Tables 2a-2c (the complete dataset) in the Appendix.

Average annual groundwater chloride concentrations in the near-source monitor well (MW-1) decreased from 242 mg/l in 2019 to 212 mg/l in 2020. Groundwater chloride concentrations in the up-gradient monitor well (MW-2) increased slightly, from 202 mg/l in 2019 to 212 mg/l in 2020. Groundwater chloride concentrations in the down-gradient monitor well (MW-3) was essentially unchanged from 219 mg/l in 2019 to 218 mg/l in 2020. BTEX concentrations (sampled and measured once in 2020) remained below the limits of laboratory detection, as they have since they were first sampled in 2007. The depth to groundwater at this location averaged approximately 48 ft bgs at the near-source monitor well (MW-1) during 2020. In 2020, NMOCD granted approval to cease BTEX sampling. NMOCD also granted approval to temporarily reduce the sampling interval to semi-annual.

BD P-26-2

Groundwater analyte concentrations for BD P-26-2 are given in Figure 4 (average annual values), Table 3 (annual averages) and Tables 4a-4c (the complete dataset) in the Appendix.

Rice Operating Company BD P-26-1&2 Annual Report

The average annual groundwater chloride concentration in the near-source monitor well (MW-1) rose from 740 mg/l in 2019 to 875 mg/l in 2020. Average annual groundwater chloride concentrations in the down-gradient well (MW-2) continued the multiyear declining trend, dropping substantially from 1,378 mg/l in 2019 to 1,035 mg/l in 2020. Average annual groundwater chloride concentrations in the far down-gradient monitor well, MW-3, also dropped, from 728 mg/l in 2019 to 660 mg/l in 2020. BTEX concentrations (sampled and measured once in 2020) remained below the limits of laboratory detection, as they have since they were first sampled in 2008. The depth to groundwater at this location averaged approximately 46 ft bgs in the near-source monitor well (MW-1) during 2020. In 2020, NMOCD granted approval to cease BTEX sampling. NMOCD also granted approval to temporarily reduce the sampling interval to semi-annual.

Summary and Path Forward

These data indicate that groundwater chloride concentrations across the BD P-26-1 location have essentially reached the OCD standard of 250 mg/l, with some year-to-year variation.

Groundwater chloride concentrations BD P-26-2 are presently several times lower than the peak value of 5,325 mg/l observed in the at-source well in 2008. However, groundwater chlorides as this site have yet to consistently decline toward the 250 mg/l standard.

ROC will continue to monitor groundwater at BD P-26-1 and BD P-26-2 quarterly during 2021.

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

Please contact either Katie Davis at Rice Operating Company or me if you have any questions or need additional information. Thank you for your consideration.

Sincerely,

L. Peter Galusky, Jr. P.E. NM Prof. Engineer No. 22561

Copy: Rice Operating Company Attachments: ... as noted, above.



L Peter Galusky, Jr PE

Received by OCD: 4/15/2021 10:28:42 AM Geographic Location

FIGUR ge B of 37



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FIGUR Bed of 37



Released to Imaging: 2/4/2022 10:37:42 AM



ROC - BD P-26-1 (AP-97) Groundwater Chloride Concentrations Table 1 - Annual Averages (mg/l)

	MW-1 (near-			
	source, down-	MW-2	MW-3 (down-	
year	gradient)	(upgradient)	gradient)	OCD Std
2007	4,350			250
2008	2,905	184		250
2009	1,263	188	195	250
2010	332	221	517	250
2011	1,398	171	1,838	250
2012	960	185	1,205	250
2013	605	197	1,090	250
2014	268	190	341	250
2015	277	177	253	250
2016	298	238	283	250
2017	233	177	229	250
2018	258	182	281	250
2019	242	202	219	250
2020	212	212	218	250

Table 2a - BD P-26-1 Groundwater Data

Table	e 2a - BD P	-26-1 G	roundwat	er Data	-				-	-	-	-	
мw	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
1	50.4	58.6	1.3	6	11/12/2007	4,350	8,396	<0.002	<0.002	< 0.002	< 0.006	347	Clear No odor
1	49.8	58.7	1.4	6	1/14/2008	3,900	7,655	<0.001	<0.001	<0.001	<0.003	355	Clear No odor
1	50.0	58.7	1.4	6	4/4/2008	3,000	6,340	< 0.001	<0.001	<0.001	<0.003	304	Sand to clear No odor
1	50.3	58.7	1.3	6	7/16/2008	2,160		<0.001	<0.001	<0.001	<0.003	299	Sand to clear No odor
1	50.9	58.7	1.2	6	10/6/2008	2,560		< 0.001	<0.001	< 0.001	< 0.003	309	Sand to clear No odor
1	50.6	58.6	1.3	6	1/16/2009		4,300	< 0.001	<0.001	< 0.001	< 0.003	310	Sand to clear No odor
1	50.5	58.6	1.3	6	4/15/2009	1,700	3,420	< 0.001	< 0.001	< 0.001	< 0.003	289	Sand to clear No odor
1	49.4	58.6	1.5	6	7/15/2009	650	1,740	< 0.001	< 0.001	< 0.001	< 0.003	233	Sand to clear No odor
1	49.1	58.6	1.5	6	10/9/2009	540	1,520	< 0.001	< 0.001	< 0.001	< 0.003	230	Sand to clear No odor
1	49.6	58.7	1.4	6	1/15/2010	560	1,400	< 0.001	<0.001	< 0.001	< 0.003	216	Sand to clear No odor
1	50.2	58.7	1.4	6	4/13/2010	220	941	< 0.001	< 0.001	< 0.001	< 0.003	223	Sand to clear No odor
1	49.9	58.7	1.4	6	7/13/2010	316	1,120	< 0.001	< 0.001	< 0.001	< 0.003	205	Sand to clear No odor
1	48.6	58.7	1.6	6	10/8/2010	232	920	< 0.001	< 0.001	< 0.001	< 0.003	182	Sand to clear No odor
1	48.2	58.7	1.7	6	1/18/2011	1,640	3,880	< 0.001	< 0.001	< 0.001	< 0.003	348	Sand to clear No odor
1	48.1	58.7	1.7	6	4/14/2011	1,670	3,270	< 0.001	< 0.001	< 0.001	< 0.003	347	Sand to clear No odor
1	48.3	58.7	1.7	6	7/21/2011	1,300		< 0.001	<0.001	<0.001	<0.003	279	Sand to clear No odor
1	48.6	58.7	1.6	6	10/17/2011	980	2,290	<0.001	<0.001	<0.001	< 0.003	215	Sand to clear No odor
1	48.6	58.7	1.6	6	1/20/2012	1,040	2,230	<0.001	<0.001	<0.001	<0.003	243	Sand to clear No odor
1	48.6	58.7	1.6	6	4/19/2012	1,180	2,280	<0.001	<0.001	<0.001	<0.003	245	Sand to clear No odor
1	53.3	58.7	0.9	6	7/17/2012	920	1,900	<0.001	<0.001	<0.001	<0.003	152	Sand to clear No odor
1	51.9	58.7	1.1	6	10/15/2012	700	1,720	<0.001	<0.001	<0.001	<0.003	245	Sand to clear No odor
1	54.1	58.7	0.7	6	1/9/2013	920	1,960	<0.001	<0.001	<0.001	<0.003	165	Sand to clear No odor
1	54.0	58.7	0.7	6	4/22/2013	630	1,580	<0.001	<0.001	<0.001	<0.003	228	
			0.8	6				<0.001	<0.001	<0.001	<0.003	183	Sand to clear No odor
1	52.8	58.7			7/18/2013	590	1,610						Sand to clear No odor
1	54.2 55.7	58.7 58.7	0.7 0.5	6 6	10/18/2013	280	1,060	<0.001 <0.001	<0.001	<0.001 <0.001	<0.003	177 184	Sand to clear No odor
					1/24/2014	392	1,260		<0.001		<0.003		Sand to clear No odor
1	56.5	58.7	0.3	6	4/8/2014	232	940	<0.001	<0.001	<0.001	<0.003	199	Sand to clear No odor
1	57.1	58.7	0.2	6	7/22/2014	244	980	< 0.001	<0.001	<0.001	< 0.003	196	Sand to clear No odor
1	52.6	58.7	1	3	10/24/2014	204	904	< 0.001	< 0.001	< 0.001	< 0.003	173	Sand to clear No odor
1	53.0	58.7	0.9	3	2/4/2015	235	1,010	< 0.001	<0.001	<0.001	<0.003	103	Sand to clear No odor
1	54.3	58.7	0.7	3	4/22/2015	224	1,000	< 0.001	<0.001	<0.001	< 0.003	163	Sand to clear No odor
1	54.9	58.7	0.61	3	7/30/2015	224	1,010	< 0.001	<0.001	< 0.001	< 0.003	139	Sand to clear No odor
1	53.5	58.7	0.84	3	10/23/2015	424	1,330	< 0.001	< 0.001	< 0.001	< 0.003	179	Sand to clear No odor
1	51.9	56.7	1.1	3	2/1/2016	292	1,120	< 0.001	<0.001	< 0.001	< 0.003	201	Sand to clear No odor
1	52.6	56.7	1	3	4/25/2016	284	1,120	< 0.001	<0.001	< 0.001	< 0.003	240	Sand to clear No odor
1	51.5	56.7	1.2	4	7/25/2016	284	1,140	< 0.001	<0.001	< 0.001	< 0.003	218	Sand to clear No odor
1	51.8	56.7	1.1	4	10/31/2016	332	1,230	<0.001	< 0.001	< 0.001	< 0.003	224	Sand to clear No odor
1	51.8	56.7	1.1	4	2/8/2017	176	898	< 0.001	<0.001	< 0.001	< 0.003	194	Sand to clear No odor
1	51.2	56.7	1.2	4	4/13/2017	312	1,150	<0.001	<0.001	<0.001	<0.003	180	Sand to clear No odor
1	49.8	56.6	1.4	4	8/17/2017	228	1,070	< 0.001	< 0.001	< 0.001	< 0.003	188	Sand to clear No odor
1	49.7	56.6	1.4	4	10/26/2017	216	1,080	<0.001	<0.001	< 0.001	< 0.003	174	Sand to clear No odor
1	49.0	58.7	1.6	4	1/18/2018	228	736	<0.001	<0.001	< 0.001	< 0.003	189	Sand to clear No odor
1	48.6	58.7	1.6	4	4/30/2018	264	1,030	<0.001	<0.001	<0.001	<0.003	244	Sand to clear No odor
1	48.4	58.7	1.6	4	8/14/2018	280	1,080	<0.001	<0.001	<0.001	<0.003	210	Sand to clear No odor
1	48.3	58.7	1.7	4	11/1/2018	260	806	<0.001	<0.001	<0.001	<0.003	258	Sand to clear No odor
1	48.1	56.6	1.7	4	2/12/2019	220	1,060	<0.001	<0.001	<0.001	<0.003	244	Sand to clear No odor
1	48.0	56.6	1.7	4	4/26/2019	208	953	<0.001	<0.001	<0.001	<0.003	158	Sand to clear No odor
1	47.9	56.6	1.7	4	7/29/2019	296	1,080	<0.001	<0.001	<0.001	<0.003	175	Sand to clear No odor
1	47.9	56.6	1.7	4	10/28/2019	244	879	<0.001	<0.001	<0.001	<0.003	151	Sand to clear No odor
1	47.7	58.7	1.8	4	2/10/2020	200	1,000	<0.001	<0.001	<0.001	<0.003	185	Sand to clear No odor
1	47.6	58.7	1.8	4	8/13/2020	224	967	XXX	ХХХ	XXX	XXX	199	Sand to clear No odor

Table 2b - BD P-26-1 Groundwater Data

Table	le 2b - BD P-26-1 Groundwater Data												
MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
2	50.1	64.4	2.3	10	10/6/2008	184	933	< 0.001	<0.001	< 0.001	<0.003	216	Sand to clear No odor
2	49.7	64.9	2.4	10	1/16/2009	192	913	< 0.001	<0.001	<0.001	<0.003	207	Sand to clear No odor
2	49.7	64.9	2.4	10	4/15/2009	188	932	< 0.001	<0.001	<0.001	<0.003	186	Sand to clear No odor
2	48.6	65.0	2.6	10	7/15/2009	192	887	< 0.001	<0.001	< 0.001	< 0.003	180	Sand to clear No odor
2	48.5	65.0	2.7	10	10/9/2009	180	895	< 0.001	< 0.001	< 0.001	< 0.003	182	Sand to clear No odor
2	48.6	65.1	2.6	10	1/15/2010	328	1,040	< 0.001	< 0.001	< 0.001	< 0.003	185	Sand to clear No odor
2	49.1	65.1	2.6	10	4/13/2010	192	896	< 0.001	< 0.001	< 0.001	< 0.003	210	Sand to clear No odor
2	49.0	65.1	2.6	10	7/13/2010	196	848	< 0.001	< 0.001	< 0.001	< 0.003	203	Sand to clear No odor
2	48.0	65.1	2.7	10	10/8/2010	168	888	< 0.001	< 0.001	< 0.001	< 0.003	167	Sand to clear No odor
2	47.7	65.1	2.8	10	1/18/2011	164	881	< 0.001	< 0.001	< 0.001	< 0.003	191	Sand to clear No odor
2	47.6	65.1	2.8	10	4/14/2011	168	867	< 0.001	< 0.001	< 0.001	< 0.003	189	Sand to clear No odor
2	47.8	65.1	2.8	10	7/21/2011	180	825	< 0.001	< 0.001	< 0.001	< 0.003	170	Sand to clear No odor
2	48.1	65.1	2.7	10	10/17/2011	172	813	< 0.001	< 0.001	< 0.001	< 0.003	136	Sand to clear No odor
2	48.1	65.1	2.7	10	1/20/2012	176	924	<0.001	<0.001	<0.001	< 0.003	189	Sand to clear No odor
2	48.1	65.1	2.7	10	4/19/2012	168	868	< 0.001	<0.001	<0.001	< 0.003	187	Sand to clear No odor
2	52.3	65.1	2.7	10	7/17/2012	204	968	<0.001	<0.001	<0.001	<0.003	194	Sand to clear No odor
2	51.0	65.1	2.3	10	10/15/2012	192	937	<0.001	<0.001	<0.001	<0.003	220	Sand to clear No odor
2	53.1	65.1	1.9	10	1/9/2013	196	862	<0.001	<0.001	<0.001	<0.003	193	Sand to clear No odor
2	53.0	65.1	1.9	10	4/22/2013	196	894	<0.001	<0.001	<0.001	<0.003	186	Sand to clear No odor
2	52.1	65.1	2.1	10	7/18/2013	208	946	<0.001	<0.001	<0.001	<0.003	185	Sand to clear No odor
2	53.3	65.1	1.9	10	10/18/2013	188	878	<0.001	<0.001	<0.001	<0.003	160	Sand to clear No odor
2	54.6	65.1	1.3	10	1/24/2014	192	868	<0.001	<0.001	<0.001	<0.003	193	Sand to clear No odor
2	55.5	65.1	1.7	10	4/8/2014	204	878	<0.001	<0.001	<0.001	<0.003	193	Sand to clear No odor
2	56.0	65.1	1.5	10	7/22/2014	192	934	<0.001	<0.001	<0.001	<0.003	190	Sand to clear No odor
2	51.9	65.1	2.1	10	10/24/2014	172	882	<0.001	<0.001	<0.001	<0.003	165	Sand to clear No odor
2	52.1	65.1	2.1	10	2/4/2014	172	870	<0.001	<0.001	<0.001	<0.003	149	Sand to clear No odor
2	52.1	65.1	2.1	10	4/22/2015	188	938	<0.001	<0.001	<0.001	<0.003	129	Sand to clear No odor
2	53.3	65.1	1.88	10	7/30/2015	172	912	<0.001	<0.001	<0.001	<0.003	140	Sand to clear No odor
2	52.0	65.1	2.1	10	10/23/2015	172	884	<0.001	<0.001	<0.001	<0.003	140	Sand to clear No odor
2	51.3	65.1	2.1	10	2/1/2016	280	842	<0.001	<0.001	<0.001	<0.003	104	
2	52.0	65.1	2.2	8	4/25/2016	208	904	<0.001	<0.001	<0.001	<0.003	166	Sand to clear No odor Sand to clear No odor
2	51.1	65.1	2.1	8	7/25/2016	208	1,110	<0.001	<0.001	<0.001	<0.003	212	Sand to clear No odor
2	51.2	65.1	2.2	8	10/31/2016	184	878	<0.001	<0.001	<0.001	<0.003	212	Sand to clear No odor
2	51.2		2.2	8	2/8/2017	184	794	<0.001	<0.001	<0.001	<0.003	175	Sand to clear No odor
2	51.5	65.1 65.1	2.2	8	4/13/2017	184	850	<0.001	<0.001	<0.001	<0.003	175	
2	49.3	65.1	2.5	8	4/13/2017 8/17/2017	168	850 954	<0.001	<0.001	<0.001	<0.003	195	Sand to clear No odor Sand to clear No odor
2	49.3	65.1	2.5	8	10/26/2017	108	954 882	<0.001	<0.001	<0.001	<0.003	174	
2		65.1	2.5	8		176	882 932	<0.001	<0.001	<0.001	<0.003	173	Sand to clear No odor Sand to clear No odor
2	48.4				1/18/2018		932 840						
	48.0	65.1	2.7	8	4/30/2018	180		<0.001	<0.001	<0.001	<0.003	224	Sand to clear No odor
2	47.8	65.1	2.8	8	8/14/2018 11/1/2018	188	936	<0.001	<0.001	<0.001	<0.003	149	Sand to clear No odor
2	47.8	65.1	2.8	8		188	1,000	<0.001	<0.001	<0.001	<0.003	179	Sand to clear No odor
2	47.6	65.1	2.8	8	2/12/2019	196	839	<0.001	<0.001	<0.001	<0.003	196	Sand to clear No odor
2	47.5	65.1	2.8	8	4/26/2019	192	944	<0.001	<0.001	<0.001	<0.003	178	Sand to clear No odor
2	47.4	65.1	2.8	8	7/29/2019	208	931	<0.001	<0.001	<0.001	<0.003	185	Sand to clear No odor
2	47.4	65.1	2.8	8	10/28/2019	212	949	<0.001	<0.001	<0.001	<0.003	166	Sand to clear No odor
2	47.2	65.1	2.9	8	2/10/2020	204	933	<0.001	<0.001	<0.001	<0.003	171	Sand to clear No odor
2	47.1	65.1	2.9	8	8/13/2020	220	1,000	XXX	XXX	XXX	XXX	165	Sand to clear No odor

Table 2c - BD P-26-1 Groundwater Data

	e 2c - BD P-26-1 Groundwater Data												
MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
3	49.3	64.6	2.4	10	4/15/2009	204	924	< 0.001	<0.001	<0.001	<0.003	190	Sand to clear No odor
3	48.1	64.5	2.6	10	7/15/2009	176	895	< 0.001	<0.001	<0.001	<0.003	169	Sand to clear No odor
3	48.0	64.5	2.6	10	10/9/2009	204	930	<0.001	<0.001	<0.001	<0.003	169	Sand to clear No odor
3	48.4	64.5	2.6	10	1/15/2010	328	1,150	<0.001	<0.001	<0.001	<0.003	176	Sand to clear No odor
3	49.1	64.5	2.5	10	4/13/2010	460	1,290	<0.001	<0.001	<0.001	<0.003	197	Sand to clear No odor
3	48.9	64.5	2.5	10	7/13/2010	450	1,170	< 0.001	<0.001	<0.001	<0.003	189	Sand to clear No odor
3	47.2	64.5	2.8	10	10/8/2010	830	1,840	< 0.001	<0.001	<0.001	<0.003	142	Sand to clear No odor
3	46.9	64.6	2.8	10	1/18/2011	1,800	3,670	< 0.001	<0.001	<0.001	<0.003	259	Sand to clear No odor
3	46.8	64.6	2.9	10	4/14/2011	2,450	4,430	< 0.001	<0.001	< 0.001	<0.003	329	Sand to clear No odor
3	47.0	64.6	2.8	10	7/21/2011	1,860	3,700	< 0.001	<0.001	< 0.001	<0.003	323	Sand to clear No odor
3	47.3	64.6	2.8	10	10/17/2011	1,240	2,870	< 0.001	<0.001	<0.001	<0.003	252	Sand to clear No odor
3	47.2	64.6	2.8	10	1/20/2012	1,040	2,600	<0.001	<0.001	<0.001	<0.003	322	Sand to clear No odor
3	47.3	64.6	2.8	10	4/19/2012	920	2,340	<0.001	<0.001	<0.001	<0.003	268	Sand to clear No odor
3	52.4	64.6	2	10	7/17/2012	1,950	3,760	<0.001	<0.001	<0.001	<0.003	297	Sand to clear No odor
3	50.5	64.6	2.3	10	10/15/2012	910	2,100	<0.001	<0.001	<0.001	<0.003	234	Sand to clear No odor
3	53.0	64.6	1.9	10	1/9/2013	2,020	3,800	<0.001	<0.001	<0.001	<0.003	323	Sand to clear No odor
3	53.0	64.6	1.9	10	4/22/2013	1,240	2,620	<0.001	<0.001	<0.001	<0.003	286	Sand to clear No odor
3	51.8	64.6	2	10	7/18/2013	500	1,440	<0.001	<0.001	<0.001	<0.003	199	Sand to clear No odor
3	53.2	64.6	1.8	10	10/18/2013	600	1,640	<0.001	<0.001	<0.001	<0.003	234	Sand to clear No odor
3	54.7	64.6	1.6	10	1/24/2014	390	854	<0.001	<0.001	<0.001	<0.003	196	Sand to clear No odor
3	55.6	64.6	1.4	10	4/8/2014	390	1,220	<0.001	<0.001	<0.001	<0.003	238	Sand to clear No odor
3	56.2	64.6	1.4	10	7/22/2014	380	1,270	<0.001	<0.001	<0.001	<0.003	225	Sand to clear No odor
3	51.4	64.6	2.1	10	10/24/2014	204	968	<0.001	<0.001	<0.001	<0.003	189	Sand to clear No odor
3	51.4	64.6	2.1	10	2/4/2015	304	1,120	<0.001	<0.001	<0.001	<0.003	195	Sand to clear No odor
3	52.8	64.6	1.9	10	4/22/2015	236	1,030	<0.001	<0.001	<0.001	<0.003	151	Sand to clear No odor
3	53.3	64.6	1.82	10	7/30/2015	212	950	<0.001	<0.001	<0.001	<0.003	128	Sand to clear No odor
3	51.9	64.6	2.04	10	10/23/2015	260	1,280	<0.001	<0.001	<0.001	<0.003	227	Sand to clear No odor
3	50.5	64.6	2.3	10	2/1/2016	264	1,130	<0.001	<0.001	< 0.001	<0.003	163	Sand to clear No odor
3	51.3	64.6	2.1	8	4/25/2016	280	944	<0.001	<0.001	<0.001	<0.003	193	Sand to clear No odor
3	50.1	64.6	2.3	8	7/25/2016	268	1,130	<0.001	<0.001	<0.001	<0.003	209	Sand to clear No odor
3	50.4	64.6	2.3	8	10/31/2016	320	1,140	<0.001	<0.001	<0.001	<0.003	271	Sand to clear No odor
3	50.3	64.6	2.3	8	2/8/2017	284	914	<0.001	<0.001	< 0.001	< 0.003	214	Sand to clear No odor
3	48.5	64.6	2.4	8	4/13/2017	188	906	<0.001	< 0.001	<0.001	< 0.003	190	Sand to clear No odor
3	48.5	64.6	2.4	8	8/17/2017	220	1,090	<0.001	< 0.001	< 0.001	< 0.003	199	Sand to clear No odor
3	48.5	64.6	2.4	8	10/26/2017	224	1,060	< 0.001	< 0.001	< 0.001	< 0.003	220	Sand to clear No odor
3	47.6	64.6	2.7	8	1/18/2018	212	1,140	< 0.001	< 0.001	< 0.001	< 0.003	202	Sand to clear No odor
3	47.2	64.6	2.8	8	4/30/2018	280	1,080	< 0.001	< 0.001	<0.001	< 0.003	276	Sand to clear No odor
3	47.0	64.6	2.8	8	8/14/2018	344	1,420	< 0.001	< 0.001	<0.001	< 0.003	240	Sand to clear No odor
3	46.9	64.6	2.8	8	11/1/2018	288	1,250	< 0.001	<0.001	<0.001	< 0.003	237	Sand to clear No odor
3	46.7	64.6	2.9	8	2/12/2019	228	977	< 0.001	<0.001	<0.001	< 0.003	247	Sand to clear No odor
3	46.6	64.4	2.9	8	4/26/2019	220	977	<0.001	<0.001	<0.001	<0.003	247	Sand to clear No odor
3	46.5	64.4	2.9	8	7/29/2019	212	931	<0.001	<0.001	<0.001	<0.003	142	Sand to clear No odor
3	46.6	64.4	2.9	8	10/28/2019	216	1,080	< 0.001	<0.001	<0.001	<0.003	198	Sand to clear No odor
3	46.4	64.6	2.9	8	2/10/2020	216	964	<0.001	<0.001	<0.001	<0.003	205	Sand to clear No odor
3	46.2	64.6	2.9	8	8/13/2020	220	1,020	XXX	XXX	XXX	XXX	167	Sand to clear No odor



ROC - BD P-26-2 (AP-97) Groundwater Chloride Concentrations Table 3 - Annual Averages (mg/l)

			MW-3 (far	
	MW-1 (at-	MW-2 (down-	down-	
year	source)	gradient)	gradient)	OCD Std
2007	5,000			250
2008	5,325	384		250
2009	3,413	431		250
2010	2,048	698		250
2011	1,105	845		250
2012	2,078	1,045		250
2013	1,315	1,133	740	250
2014	521	955	705	250
2015	562	1,160	868	250
2016	515	1,195	828	250
2017	554	1,383	760	250
2018	748	1,735	710	250
2019	740	1,378	728	250
2020	875	1,035	660	250

Table 4a - BD P-26-2 Groundwater Data

Table	e 4a - BD P	-20-2 G	rounuwa	ler Dala									
мw	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	CI	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
1	47.8	59.4	1.9	6	11/12/2007	5,000	9,415	<0.002	<0.002	<0.002	< 0.006	430	Clear No odor
1	47.4	59.5	1.9	8	1/14/2008	5,100	9,453	<0.001	< 0.001	<0.001	<0.003	469	Clear No odor
1	47.5	59.5	1.9	8	4/4/2008	5,300	10,100	<0.001	<0.001	<0.001	<0.003	437	Sand to clear No odor
1	48.1	59.5	1.8	8	7/16/2008	5,300	9,870	<0.001	< 0.001	<0.001	<0.003	448	Sand to clear No odor
1	48.4	59.5	1.8	8	10/6/2008	5,600	10,700	<0.001	< 0.001	<0.001	<0.003	473	Sand to clear No odor
1	48.8	59.4	1.7	8	1/16/2009	4,000	7,680	<0.001	< 0.001	<0.001	< 0.003	497	Sand to clear No odor
1	47.9	59.4	1.8	6	4/15/2009	4,500	8,190	<0.001	< 0.001	<0.001	<0.003	462	Sand to clear No odor
1	47.2	59.4	2	6	7/15/2009	3,050	6,000	<0.001	< 0.001	<0.001	< 0.003	403	Sand to clear No odor
1	46.9	59.4	2	6	10/9/2009	2,100	4,360	<0.001	< 0.001	<0.001	<0.003	516	Sand to clear No odor
1	47.2	59.5	2	6	1/15/2010	2,120	4,600	<0.001	< 0.001	<0.001	<0.003	410	Sand to clear No odor
1	47.4	59.5	1.9	6	4/13/2010	2,850	5,530	<0.001	< 0.001	<0.001	<0.003	489	Sand to clear No odor
1	47.3	59.5	2	6	7/13/2010	2,300	4,750	< 0.001	< 0.001	<0.001	< 0.003	453	Sand to clear No odor
1	46.5	59.5	2.1	6	10/8/2010	920	2,540	<0.001	< 0.001	<0.001	< 0.003	437	Sand to clear No odor
1	46.2	59.5	2.1	6	1/18/2011	820	2,140	<0.001	< 0.001	<0.001	< 0.003	319	Sand to clear No odor
1	46.0	59.5	2.1	6	4/14/2011	800	2,100	< 0.001	< 0.001	< 0.001	< 0.003	356	Sand to clear No odor
1	46.2	59.5	2.1	6	7/19/2011	1,320	2,760	< 0.001	< 0.001	< 0.001	< 0.003	327	Sand to clear No odor
1	46.5	59.5	2.1	6	10/17/2011	1,480	3,260	< 0.001	< 0.001	< 0.001	< 0.003	281	Sand to clear No odor
1	46.5	59.5	2.1	6	1/20/2012	2,370	4,630	< 0.001	< 0.001	< 0.001	< 0.003	392	Sand to clear No odor
1	46.5	59.5	2.1	6	4/19/2012	2,100	4,190	<0.001	< 0.001	<0.001	< 0.003	384	Sand to clear No odor
1	51.6	59.5	1.3	6	7/17/2012	2,220	3,810	<0.001	< 0.001	<0.001	< 0.003	376	Sand to clear No odor
1	49.6	59.5	1.6	6	10/15/2012		3,480	<0.001	<0.001	<0.001	< 0.003	427	Sand to clear No odor
1	51.0	59.5	1.3	6	1/9/2013	1,780	4,100	<0.001	< 0.001	<0.001	< 0.003	370	Sand to clear No odor
1	52.0	59.5	1.2	6	4/22/2013	1,900	3,800	<0.001	<0.001	<0.001	< 0.003	368	Sand to clear No odor
1	51.0	59.5	1.2	6	7/18/2013	840	2,190	<0.001	<0.001	<0.001	<0.003	284	Sand to clear No odor
1	52.3	59.5	1.1	6	10/18/2013	740	2,110	<0.001	<0.001	<0.001	<0.003	312	Sand to clear No odor
1	54.0	59.5	0.9	6	1/24/2014	600	1,760	<0.001	<0.001	<0.001	<0.003	284	Sand to clear No odor
1	54.9	59.5	0.7	6	4/8/2014	620	1,710	<0.001	<0.001	<0.001	<0.003	276	Sand to clear No odor
1	55.5	59.5	0.6	6	7/22/2014	490	1,570	<0.001	<0.001	<0.001	<0.003	307	Sand to clear No odor
1	50.6	59.5	1.4	6	10/24/2014	372	1,260	<0.001	<0.001	<0.001	<0.003	188	Sand to clear No odor
1	50.0	59.5	1.4	6	2/4/2015	460	1,560	<0.001	<0.001	<0.001	<0.003	270	Sand to clear No odor
1	51.1	59.5	1.4	6	4/22/2015	540	1,640	<0.001	<0.001	<0.001	<0.003	245	Sand to clear No odor
1	52.2	59.5	1.16	6	7/30/2015	749	2,140	<0.001	<0.001	<0.001	<0.003	245	Sand to clear No odor
1	51.0	59.5	1.10	6	10/23/2015	500	1,600	<0.001	<0.001	<0.001	<0.003	192	Sand to clear No odor
1	50.1	59.5	1.5	6	2/1/2016	384	1,390	<0.001	<0.001	<0.001	<0.003	192	Sand to clear No odor
1	51.2	59.5	1.3	6	4/25/2016	560	1,500	<0.001	<0.001	<0.001	<0.003	250	Sand to clear No odor
1	49.7	59.5	1.5	6	7/25/2016	396	1,410	<0.001	<0.001	<0.001	<0.003	226	Sand to clear No odor
1	50.1	59.5	1.0	6	10/31/2016	720	2,120	<0.001	<0.001	<0.001	<0.003	360	Sand to clear No odor
1	49.3	59.5	1.5	6	2/8/2017	700	1,880	<0.001	<0.001	<0.001	<0.003	240	Sand to clear No odor
1	48.9	59.5	1.0	6	4/13/2017	790	1,900	<0.001	<0.001	<0.001	<0.003		Sand to clear No odor
1	48.9	59.5	1.7	6	8/17/2017	356		<0.001	<0.001	<0.001	< 0.003	229	Sand to clear No odor
					10/26/2017		1,300						Sand to clear No odor
1	47.8 46.8	59.5 59.5	1.9 2	6 6	1/18/2018	368 740	1,400 1,370	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.003 <0.003	204 245	Sand to clear No odor
1	46.8	59.5	2.1	8	4/30/2018		1,370	<0.001	<0.001	<0.001	< 0.003	245	Sand to clear No odor
1	46.3	59.5	2.1	8	8/14/2018	710 730	1,590	<0.001	<0.001	<0.001	< 0.003	250	
1	46.3	59.5 59.5	2.1	8	11/1/2018	810	1,760	<0.001	<0.001	<0.001	< 0.003	211	Sand to clear No odor
1	46.2	59.5	2.1	8	2/12/2018	760		<0.001		<0.001	< 0.003		Sand to clear No odor
1		59.5 59.5					1,650		<0.001			273	Sand to clear No odor
	45.7		2.2	8	4/26/2019	710	1,700	<0.001	<0.001	<0.001	< 0.003	230	Sand to clear No odor
1	46.7	59.5	2.2	8	7/29/2019	730	1,870	<0.001	<0.001	<0.001	< 0.003	230	Sand to clear No odor
1	45.8	59.5	2.2	8	10/28/2019	760	1,860	<0.001	<0.001	<0.001	< 0.003	224	Sand to clear No odor
1	45.6	59.5	2.2	6	2/10/2020	890	2 250	<0.001	<0.001	<0.001	<0.003	307	Sand to clear No odor
1	45.4	59.5	2.2	6	8/13/2020	860	2,250	XXX	XXX	XXX	XXX	322	Sand to clear No odor

Table 4b - BD P-26-2 Groundwater Data

MW Depth Volume Sample Date CI TDS Benzen Toluen Ethyl Total Sufate Comments 2 47.4 59.9 2 10 10/6/2008 384 1,350 -0.001 -0.001 -0.001 -0.003 289 Sand to clear No odor 2 47.8 60.4 2.1 10 1/15/2009 442 1,470 -0.001		e 46 - BD P		ounand	leer Data									
2 47.8 60.4 2 10 1/16/2009 400 1.370 40.001 <0.003 252 Sand to clear No odor 2 47.0 60.4 2.2 10 7/15/2009 412 1.370 40.01 <0.001	MW					Sample Date	Cl	TDS	Benzene	Toluene			Sulfate	Comments
2 47.0 60.4 2.1 10 47/15/2009 412 1.420 <0.001 <0.001 <0.003 259 Sand to clear No odor 2 46.5 60.4 2.3 10 10/9/2009 480 1.470 <0.001	2	47.4	59.9	2	10	10/6/2008	384	1,350	<0.001	< 0.001	<0.001	<0.003	289	Sand to clear No odor
2 46.5 60.4 2.2 10 7/5/2009 432 1,470 <0.001 <0.001 <0.003 268 Sand to clear No odor 2 46.1 60.4 2.3 10 1/5/2010 590 1,660 <0.001	2	47.8	60.4	2	10	1/16/2009	400	1,360	<0.001	< 0.001	<0.001	<0.003	262	Sand to clear No odor
2 46.1 60.4 2.3 10 10/9/2009 480 1.470 40.001 <0.001	2	47.0	60.4	2.1	10	4/15/2009	412	1,370	<0.001	< 0.001	<0.001	<0.003	259	Sand to clear No odor
2 46.4 60.5 2.3 10 1/15/2010 900 1,660 -0.001 -0.001 -0.003 215 Sand to clear No odor 2 46.4 60.5 2.3 10 7/13/2010 820 1,740 -0.001 -0.001 -0.003 255 Sand to clear No odor 2 45.4 60.5 2.4 10 1/18/2011 900 -0.001 -0.001 -0.003 361 Sand to clear No odor 2 45.5 60.5 2.4 10 4/18/2011 800 2,000 -0.001 -0.001 -0.003 313 Sand to clear No odor 2 45.5 60.5 2.4 10 1/20/2012 830 1,950 -0.001 -0.001 -0.003 323 Sand to clear No odor 2 45.8 60.5 1.6 10 7/17/2012 1,340 2,870 -0.001 -0.001 -0.003 323 Sand to clear No odor 2 45.8 60.5 1.7 10 </td <td>2</td> <td>46.5</td> <td>60.4</td> <td>2.2</td> <td>10</td> <td>7/15/2009</td> <td>432</td> <td>1,420</td> <td><0.001</td> <td>< 0.001</td> <td><0.001</td> <td><0.003</td> <td>268</td> <td>Sand to clear No odor</td>	2	46.5	60.4	2.2	10	7/15/2009	432	1,420	<0.001	< 0.001	<0.001	<0.003	268	Sand to clear No odor
2 46.5 60.5 2.2 10 4/13/2010 690 1/20 -0.001 -0.001 -0.003 261 Sand to clear No odor 2 46.4 60.5 2.4 10 10/8/2010 690 1,760 -0.001 -0.001 -0.003 245 Sand to clear No odor 2 45.3 60.5 2.4 10 1/18/2011 190 2,000 -0.001 -0.001 -0.003 361 Sand to clear No odor 2 45.5 60.5 2.4 10 7/19/2011 1810 1,900 -0.001 -0.001 -0.003 323 Sand to clear No odor 2 45.7 60.5 2.4 10 1/20/2012 830 1,950 -0.001 -0.001 -0.003 323 Sand to clear No odor 2 45.7 60.5 1.6 10 7/1/2012 1,70 -0.001 -0.001 -0.003 333 Sand to clear No odor 2 45.8 60.5 1.7 10 <td>2</td> <td>46.1</td> <td>60.4</td> <td>2.3</td> <td>10</td> <td>10/9/2009</td> <td>480</td> <td>1,470</td> <td><0.001</td> <td>< 0.001</td> <td><0.001</td> <td><0.003</td> <td>237</td> <td>Sand to clear No odor</td>	2	46.1	60.4	2.3	10	10/9/2009	480	1,470	<0.001	< 0.001	<0.001	<0.003	237	Sand to clear No odor
2 46.5 60.5 2.2 10 4/13/2010 690 1/20 -0.001 -0.001 -0.003 261 Sand to clear No odor 2 46.4 60.5 2.4 10 10/8/2010 690 1,760 -0.001 -0.001 -0.003 245 Sand to clear No odor 2 45.3 60.5 2.4 10 1/18/2011 190 2,000 -0.001 -0.001 -0.003 361 Sand to clear No odor 2 45.5 60.5 2.4 10 7/19/2011 1810 1,900 -0.001 -0.001 -0.003 323 Sand to clear No odor 2 45.7 60.5 2.4 10 1/20/2012 830 1,950 -0.001 -0.001 -0.003 323 Sand to clear No odor 2 45.7 60.5 1.6 10 7/1/2012 1,70 -0.001 -0.001 -0.003 333 Sand to clear No odor 2 45.8 60.5 1.7 10 <td>2</td> <td>46.4</td> <td>60.5</td> <td>2.3</td> <td>10</td> <td>1/15/2010</td> <td>590</td> <td>1,660</td> <td><0.001</td> <td><0.001</td> <td><0.001</td> <td><0.003</td> <td>215</td> <td>Sand to clear No odor</td>	2	46.4	60.5	2.3	10	1/15/2010	590	1,660	<0.001	<0.001	<0.001	<0.003	215	Sand to clear No odor
2 45.8 60.5 2.4 10 10/8/2010 690 1,760 -0.001 <0.001 <0.003 246 Sand to clear No odor 2 45.3 60.5 2.4 10 1/18/2011 900 2,400 <0.001	2	46.5	60.5	2.2	10		690	1,720	<0.001	< 0.001	<0.001	<0.003	261	Sand to clear No odor
2 45.4 60.5 2.4 10 1/18/2011 900 2,400 -0.001 -0.001 -0.003 361 Sand to clear No odor 2 45.5 60.5 2.4 10 1/19/2011 180 1,000 -0.001 -0.003 233 Sand to clear No odor 2 45.5 60.5 2.4 10 1/17/2011 780 1,950 -0.001 -0.001 -0.003 323 Sand to clear No odor 2 45.8 60.5 2.4 10 1/17/2012 1,340 2,870 -0.001 -0.001 -0.003 323 Sand to clear No odor 2 48.6 60.5 1.6 10 7/17/2012 1,340 2,700 -0.001 -0.001 -0.003 228 Sand to clear No odor 2 51.1 60.5 1.5 10 1/18/2013 980 2,400 -0.001 -0.003 228 Sand to clear No odor 2 51.5 60.5 1.5 10 1/18/20	2	46.4	60.5	2.3	10	7/13/2010	820	1,940	<0.001	< 0.001	<0.001	<0.003	255	Sand to clear No odor
2 45.3 60.5 2.4 10 4/14/2011 890 2,010 <0.001 <0.001 <0.003 319 Sand to clear No odor 2 45.5 60.5 2.4 10 7/19/2011 810 1,900 <0.001	2	45.8	60.5	2.4	10	10/8/2010	690	1,760	<0.001	< 0.001	<0.001	<0.003	246	Sand to clear No odor
2 45.5 60.5 2.4 10 7/19/2011 810 1,900 <0.001 <0.001 <0.003 283 Sand to clear No odor 2 45.7 60.5 2.4 10 1/1/7/2011 780 1,950 <0.001	2	45.4	60.5	2.4	10	1/18/2011	900	2,400	<0.001	< 0.001	<0.001	<0.003	361	Sand to clear No odor
2 45.8 60.5 2.4 10 10/17/2011 780 1,950 <0.001 <0.001 <0.003 237 Sand to clear No odor 2 45.7 60.5 2.4 10 1/20/2012 830 1,950 <0.001	2	45.3	60.5	2.4	10	4/14/2011	890	2,010	<0.001	< 0.001	<0.001	<0.003	319	Sand to clear No odor
2 45.7 60.5 2.4 10 1/20/2012 830 1,950 <0.001 <0.001 <0.003 323 Sand to clear No odor 2 50.7 60.5 1.6 10 7/17/2012 1,340 2,870 <0.001	2	45.5	60.5	2.4	10	7/19/2011	810	1,900	<0.001	< 0.001	<0.001	<0.003	283	Sand to clear No odor
2 45.8 60.5 2.4 10 4/19/2012 870 2,100 <0.001 <0.001 <0.003 363 Sand to clear No odor 2 48.6 60.5 1.6 10 7/17/2012 1,340 2,470 <0.001	2	45.8	60.5	2.4	10	10/17/2011	780	1,950	<0.001	< 0.001	<0.001	<0.003	237	Sand to clear No odor
2 50.7 60.5 1.6 10 7/17/2012 1,340 2,870 <0.001 <0.001 <0.003 278 Sand to clear No odor 2 48.6 60.5 1.9 10 10/15/2012 1,140 2,470 <0.001	2	45.7	60.5	2.4	10	1/20/2012	830	1,950	<0.001	<0.001	<0.001	<0.003	323	Sand to clear No odor
2 48.6 60.5 1.9 10 10/15/2012 1,140 2,470 <0.001 <0.001 <0.003 373 Sand to clear No odor 2 49.8 60.5 1.7 10 1/9/2013 1,390 2,410 <0.001	2	45.8	60.5	2.4	10	4/19/2012	870	2,100	<0.001	<0.001	<0.001	<0.003	363	Sand to clear No odor
2 49.8 60.5 1.7 10 1/9/2013 1,090 2,410 <0.001 <0.001 <0.003 298 Sand to clear No odor 2 50.2 60.5 1.6 10 7/18/2013 980 2,400 <0.001	2	50.7	60.5	1.6	10	7/17/2012	1,340	2,870	<0.001	<0.001	<0.001	<0.003	278	Sand to clear No odor
2 49.8 60.5 1.7 10 1/9/2013 1,090 2,410 <0.001 <0.001 <0.003 298 Sand to clear No odor 2 50.2 60.5 1.6 10 7/18/2013 980 2,400 <0.001	2	48.6	60.5	1.9	10	10/15/2012	1,140	2,470	<0.001	<0.001	<0.001	<0.003	373	Sand to clear No odor
2 51.1 60.5 1.5 10 4/22/2013 1,340 2,700 <0.001 <0.001 <0.003 224 Sand to clear No odor 2 50.2 60.5 1.6 10 7/18/2013 980 2,400 <0.001	2	49.8	60.5	1.7	10			2,410	<0.001	<0.001	<0.001	<0.003	298	Sand to clear No odor
2 51.5 60.5 1.5 10 10/18/2013 1,120 2,560 <0.001 <0.001 <0.003 304 Sand to clear No odor 2 53.0 60.5 1.2 10 1/24/2014 1,000 2,580 <0.001	2	51.1	60.5	1.5	10		1,340	2,700	<0.001	<0.001	<0.001	<0.003	284	Sand to clear No odor
2 53.0 60.5 1.2 10 1/24/2014 1,000 2,580 <0.001 <0.001 <0.003 251 Sand to clear No odor 2 53.9 60.5 1.1 10 4/8/2014 1,160 2,510 <0.001	2	50.2	60.5	1.6	10	7/18/2013	980	2,400	<0.001	<0.001	<0.001	<0.003	222	Sand to clear No odor
2 53.9 60.5 1.1 10 4/8/2014 1,160 2,510 <0.001 <0.001 <0.003 229 Sand to clear No odor 2 54.6 60.5 1 10 7/22/2014 970 2,390 <0.001	2	51.5	60.5	1.5	10	10/18/2013	1,120	2,560	<0.001	< 0.001	<0.001	<0.003	304	Sand to clear No odor
2 54.6 60.5 1 10 7/22/2014 970 2,390 <0.001 <0.001 <0.003 245 Sand to clear No odor 2 50.0 60.5 1.7 10 10/24/2014 690 1,890 <0.001	2	53.0	60.5	1.2	10	1/24/2014	1,000	2,580	<0.001	<0.001	<0.001	<0.003	251	Sand to clear No odor
2 54.6 60.5 1 10 7/22/2014 970 2,390 <0.001 <0.001 <0.003 245 Sand to clear No odor 2 50.0 60.5 1.7 10 10/24/2014 690 1,890 <0.001	2	53.9	60.5	1.1	10	4/8/2014	1,160	2,510	<0.001	< 0.001	<0.001	< 0.003	229	Sand to clear No odor
2 50.0 60.5 1.7 10 10/24/2014 690 1,890 <0.001 <0.001 <0.003 196 Sand to clear No odor 2 50.2 60.5 1.7 10 2/4/2015 1,140 2,510 <0.001	2	54.6	60.5	1	10	7/22/2014	970		<0.001	< 0.001	<0.001	<0.003	245	Sand to clear No odor
2 50.2 60.5 1.7 10 2/4/2015 1,140 2,510 <0.001 <0.001 <0.003 285 Sand to clear No odor 2 51.1 60.5 1.5 10 4/22/2015 1,300 2,810 <0.001	2	50.0	60.5	1.7	10		690		<0.001	< 0.001	<0.001	<0.003	196	Sand to clear No odor
2 51.4 60.5 1.46 10 7/30/2015 980 2,770 <0.001 <0.001 <0.003 162 Sand to clear No odor 2 50.3 60.5 1.64 10 10/23/2015 1,220 2,680 <0.001	2	50.2	60.5	1.7	10	2/4/2015	1,140	2,510	<0.001	<0.001	<0.001	<0.003	285	Sand to clear No odor
2 50.3 60.5 1.64 10 10/23/2015 1,220 2,680 <0.001 <0.001 <0.003 205 Sand to clear No odor 2 49.4 60.5 1.8 10 2/1/2016 1,260 2,900 <0.001	2	51.1	60.5	1.5	10	4/22/2015	1,300	2,810	<0.001	<0.001	<0.001	<0.003	296	Sand to clear No odor
2 49.4 60.5 1.8 10 2/1/2016 1,260 2,900 <0.001 <0.001 <0.003 258 Sand to clear No odor 2 50.5 60.5 1.6 10 4/25/2016 1,100 2,350 <0.001	2	51.4	60.5	1.46	10	7/30/2015	980	2,770	<0.001	<0.001	<0.001	<0.003	162	Sand to clear No odor
2 50.5 60.5 1.6 10 4/25/2016 1,100 2,350 <0.001 <0.001 <0.003 288 Sand to clear No odor 2 49.0 60.5 1.9 10 7/25/2016 1,160 2,520 <0.001	2	50.3	60.5	1.64	10	10/23/2015	1,220	2,680	<0.001	<0.001	<0.001	<0.003	205	Sand to clear No odor
2 49.0 60.5 1.9 10 7/25/2016 1,160 2,520 <0.001 <0.001 <0.003 276 Sand to clear No odor 2 49.4 60.5 1.8 10 10/31/2016 1,260 2,400 <0.001	2	49.4	60.5	1.8	10	2/1/2016	1,260	2,900	<0.001	< 0.001	<0.001	<0.003	258	Sand to clear No odor
2 49.0 60.5 1.9 10 7/25/2016 1,160 2,520 <0.001 <0.001 <0.003 276 Sand to clear No odor 2 49.4 60.5 1.8 10 10/31/2016 1,260 2,400 <0.001	2	50.5	60.5	1.6	10	4/25/2016	1,100	2,350	<0.001	<0.001	<0.001	<0.003	288	Sand to clear No odor
2 48.3 60.5 2 10 2/8/2017 1,020 2,510 <0.001	2	49.0	60.5	1.9	10	7/25/2016	1,160		<0.001	<0.001	<0.001	<0.003	276	Sand to clear No odor
2 47.9 60.5 2 10 4/13/2017 1,340 2,710 <0.001	2	49.4	60.5	1.8	10	10/31/2016	1,260	2,400	<0.001	< 0.001	<0.001	<0.003	304	Sand to clear No odor
2 47.2 60.5 2 10 8/17/2017 1,570 3,160 <0.001	2	48.3	60.5	2	10	2/8/2017	1,020	2,510	<0.001	< 0.001	<0.001	<0.003	291	Sand to clear No odor
2 47.1 60.5 2 10 10/26/2017 1,600 3,430 <0.001	2	47.9	60.5	2	10	4/13/2017	1,340	2,710	<0.001	<0.001	<0.001	<0.003	294	Sand to clear No odor
2 47.1 60.5 2 10 10/26/2017 1,600 3,430 <0.001	2	47.2	60.5	2	10	8/17/2017	1,570	3,160	<0.001	<0.001	<0.001	<0.003	260	Sand to clear No odor
2 46.0 60.5 2.3 8 1/18/2018 1,700 3,310 <0.001		47.1	60.5	2	10								272	
2 45.6 60.5 2.4 8 4/30/2018 1,580 3,360 <0.001										< 0.001				
2 45.5 60.5 2.4 8 8/14/2018 1,580 3,040 <0.001		45.6												
2 45.4 60.5 2.4 8 11/1/2018 2,080 3,170 <0.001 <0.001 <0.003 302 Sand to clear No odor 2 45.2 60.5 2.5 8 2/12/2019 1,540 3,030 <0.001														
2 45.2 60.5 2.5 8 2/12/2019 1,540 3,030 <0.001														
2 45.1 60.5 2.5 8 4/26/2019 1,580 3,080 <0.001 <0.001 <0.003 351 Sand to clear No odor 2 45.0 60.5 2.5 8 7/29/2019 1,220 2,840 <0.001														
2 45.0 60.5 2.5 8 7/29/2019 1,220 2,840 <0.001 <0.001 <0.003 317 Sand to clear No odor 2 45.0 60.5 2.8 8 10/28/2019 1,170 2,660 <0.001														
2 45.0 60.5 2.8 8 10/28/2019 1,170 2,660 <0.001														
2 44.9 60.5 2.5 8 2/10/2020 1,110 2,550 <0.001 <0.001 <0.003 399 Sand to clear No odor														
ן ב ן 44.7 ן סט. ד ן ג. ד א ן אַראַן אַסט ן ג. אָזע ער אָדע אָאָג אָר אָאָג אָר אָאָג אָר אָאָג אָ גאָא אָר אַ	2	44.7	60.5	2.5	8	8/13/2020	960	2,500	XXX	XXX	XXX	XXX	371	Sand to clear No odor

Table 4c - BD P-26-2 Groundwater Data

			lounawa										
мw	Depth to	Total	Well	Volume	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments
	Water	Depth	Volume	Purged	Sample Date	U	103	Delizene	Toluelle	Benzene	Xylenes	Sunate	comments
3	52.2	62.1	1.6	8	10/18/2013	740	1,710	<0.001	< 0.001	<0.001	< 0.003	216	Sand to clear No odor
3	53.6	62.1	1.4	8	1/24/2014	680	1,780	<0.001	<0.001	<0.001	<0.003	213	Sand to clear No odor
3	54.5	62.1	1.2	8	4/8/2014	820	1,760	<0.001	<0.001	<0.001	<0.003	223	Sand to clear No odor
3	55.2	62.1	1.1	8	7/22/2014	500	1,980	<0.001	<0.001	<0.001	<0.003	201	Sand to clear No odor
3	50.9	62.1	1.8	8	10/24/2014	820	2,190	<0.001	<0.001	<0.001	<0.003	224	Sand to clear No odor
3	51.0	62.1	1.8	8	2/4/2015	820	1,970	<0.001	< 0.001	<0.001	<0.003	214	Sand to clear No odor
3	51.8	62.1	1.6	8	4/22/2015	870	2,100	<0.001	< 0.001	<0.001	<0.003	213	Sand to clear No odor
3	52.3	62.1	1.58	8	7/30/2015	910	2,360	<0.001	< 0.001	<0.001	<0.003	163	Sand to clear No odor
3	51.1	62.1	1.76	8	10/23/2015	870	2,170	<0.001	< 0.001	<0.001	< 0.003	221	Sand to clear No odor
3	50.3	62.1	1.9	8	2/1/2016	860	2,040	<0.001	< 0.001	<0.001	< 0.003	209	Sand to clear No odor
3	51.2	62.1	1.7	8	4/25/2016	830	2,030	<0.001	<0.001	<0.001	<0.003	262	Sand to clear No odor
3	49.8	62.1	2	8	7/25/2016	820	1,920	<0.001	<0.001	<0.001	<0.003	249	Sand to clear No odor
3	50.3	62.1	1.9	8	10/31/2016	800	1,990	<0.001	<0.001	<0.001	<0.003	242	Sand to clear No odor
3	49.1	62.1	2.1	8	2/8/2017	760	1,720	<0.001	<0.001	<0.001	<0.003	223	Sand to clear No odor
3	48.7	62.1	2.1	8	4/13/2017	810	1,970	<0.001	< 0.001	<0.001	<0.003	225	Sand to clear No odor
3	48.1	62.1	2.2	8	8/17/2017	780	1,920	<0.001	<0.001	<0.001	<0.003	222	Sand to clear No odor
3	48.0	62.1	2.3	8	10/26/2017	690	1,850	<0.001	<0.001	<0.001	<0.003	233	Sand to clear No odor
3	46.9	62.1	2.4	8	1/18/2018	610	1,530	<0.001	<0.001	<0.001	<0.003	236	Sand to clear No odor
3	46.5	62.1	2.5	8	4/30/2018	720	1,630	<0.001	<0.001	<0.001	<0.003	287	Sand to clear No odor
3	46.4	62.1	2.5	8	8/14/2018	730	1,760	<0.001	<0.001	<0.001	<0.003	186	Sand to clear No odor
3	46.3	62.1	2.5	8	11/1/2018	780	1,700	<0.001	<0.001	<0.001	<0.003	237	Sand to clear No odor
3	46.1	62.1	2.6	8	2/12/2019	710	1,740	<0.001	<0.001	<0.001	<0.003	253	Sand to clear No odor
3	46.0	62.1	2.6	8	4/26/2019	730	1,720	<0.001	<0.001	<0.001	<0.003	242	Sand to clear No odor
3	45.9	62.1	2.6	8	7/29/2019	750	1,740	<0.001	<0.001	<0.001	<0.003	235	Sand to clear No odor
3	45.9	62.1	2.6	8	10/28/2019	720	1,780	<0.001	<0.001	<0.001	<0.003	206	Sand to clear No odor
3	45.8	62.1	2.6	8	2/10/2020	660	1,550	<0.001	<0.001	<0.001	<0.003	232	Sand to clear No odor
3	45.6	62.1	2.6	8	8/13/2020	660	1,670	XXX	XXX	XXX	XXX	209	Sand to clear No odor



February 20, 2020

KATIE JONES Rice Operating Company 112 W. Taylor Hobbs, NM 88240

RE: BD P-26-1 VENT

Enclosed are the results of analyses for samples received by the laboratory on 02/13/20 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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 (V1, 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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	02/13/2020	Sampling Date:	02/10/2020
Reported:	02/20/2020	Sampling Type:	Water
Project Name:	BD P-26-1 VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T21S R37E SEC 26 P~ LEA CO NM		

Sample ID: MONITOR WELL #1 (H000456-01)

BTEX 8021B	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	02/17/2020	ND	0.020	102	0.0200	2.38	
Toluene*	<0.001	0.001	02/17/2020	ND	0.020	101	0.0200	1.12	
Ethylbenzene*	<0.001	0.001	02/17/2020	ND	0.020	102	0.0200	0.932	
Total Xylenes*	<0.003	0.003	02/17/2020	ND	0.060	99.9	0.0600	0.725	
Total BTEX	<0.006	0.006	02/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 58.2-13	3						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	200	4.00	02/14/2020	ND	104	104	100	3.92	
Sulfate 375.4	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	185	50.0	02/17/2020	ND	19.5	97.4	20.0	9.67	
TDS 160.1	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1000	5.00	02/17/2020	ND	533	107	500	6.24	

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/13/2020	Sampling Date:	02/10/2020
Reported:	02/20/2020	Sampling Type:	Water
Project Name:	BD P-26-1 VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T21S R37E SEC 26 P~ LEA CO NM		

Sample ID: MONITOR WELL #2 (H000456-02)

BTEX 8021B	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	02/17/2020	ND	0.020	102	0.0200	2.38	
Toluene*	< 0.001	0.001	02/17/2020	ND	0.020	101	0.0200	1.12	
Ethylbenzene*	< 0.001	0.001	02/17/2020	ND	0.020	102	0.0200	0.932	
Total Xylenes*	<0.003	0.003	02/17/2020	ND	0.060	99.9	0.0600	0.725	
Total BTEX	<0.006	0.006	02/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 58.2-13	3						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	204	4.00	02/14/2020	ND	104	104	100	3.92	
Sulfate 375.4	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	171	50.0	02/17/2020	ND	19.5	97.4	20.0	9.67	
TDS 160.1	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	933	5.00	02/17/2020	ND	533	107	500	6.24	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/13/2020	Sampling Date:	02/10/2020
Reported:	02/20/2020	Sampling Type:	Water
Project Name:	BD P-26-1 VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T21S R37E SEC 26 P~ LEA CO NM		

Sample ID: MONITOR WELL #3 (H000456-03)

BTEX 8021B	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	02/17/2020	ND	0.020	102	0.0200	2.38	
Toluene*	<0.001	0.001	02/17/2020	ND	0.020	101	0.0200	1.12	
Ethylbenzene*	<0.001	0.001	02/17/2020	ND	0.020	102	0.0200	0.932	
Total Xylenes*	<0.003	0.003	02/17/2020	ND	0.060	99.9	0.0600	0.725	
Total BTEX	<0.006	0.006	02/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	58.2-13	3						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	216	4.00	02/14/2020	ND	104	104	100	3.92	
Sulfate 375.4	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	205	50.0	02/17/2020	ND	19.5	97.4	20.0	9.67	
TDS 160.1	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	964	5.00	02/17/2020	ND	533	107	500	6.24	

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Fax (575) 393-2 Company Name:	2476										39			0					L	AB C	Order	· ID ;	#						_	_		
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Project Manager:	<u> </u>					ress:	90		Janj		reet,	City,	Zip)												letho		- T					
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(575) 393-917	74	(575) 397	-147	71			0									C35)		010E													
Project #:	Project Name: BD P-26-1 Vent				/	/	-	1								1	B1EA 8021B/002 TPH 418.1/TX1005 / TX1005 Extended (C35)		Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.	ВН												
Project Location:	DD F-20-1 VENT	-		/	Sam	pler	Signa	ature	R	ozanr	le Joh	nson	1 (57)	5)631-	9310		xtenc		Se	b Se								1				
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			1/		M	ATR	ix	ſ	PR			TIVE		SAMF	LING		X10		3	Ca				4	GC/MS Semi. Vol. 8270C/625				CO3, HCO3)	Z		Chlorides
		at	SS	-				-		MET	THO		+				05 / T		s Ba	IS Ba	es			B/62	827	000	000		S S	Na,	olid	1
LAB #	FIELD CODE	(G)rab or (C)omp	# CONTAINERS						HCL (2 40ml VOA)			ICE (1-1Liter HDPE)		(MTBE 8021B/602	DIEA 802115/602 TPH 418.1/TX100		Ag A:	Ag A	TCLP Semi Volatiles	les		GC/MS Vol. 8260B/624	Vol.	PCB'S 8082/608 Desticides 8081 A 1600		Moisture Content	Anions (CI, SO4, CO3, F	4) (ł	Total Dissolved Solids	;
/ LAB USE		or (C	TAI	æ			<u>ш</u>		40ml	4		Liter		2020		021E	3.17	20C	tals /	atals	mi V	sticio		0].	emi.	9/79/	S. P.	S	CI'S	(SO	solv	
ONLY ,		rab o	NO	WATER	-	~	SLUDGE		0	NaHSO4	H ₂ SO ₄	1-1	Ψ	DATE (2020)	ш	8	418	PAH 8270C	Me	TCLP Metals Ag	P Se	TCLP Pesticides		VS/	AS S	PCB'S 8082/608	BOD, TSS, pH	ture	Anions (CI, SO4,	Sulfates (SO4)	Sic	Chlorides
H000456		(0	# 0	NA N	SOIL	AIR	SLI		HCL (2	Nat	H ₂ S	빌	NONE	DAT	TIME	MTB	TPH	PAH	Tota		TCL	TCLI	RCI	SC	WOO CO	Doefi	30D	Nois	Anio	Sulfa	[otal	Chlo
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Somelor UD	P. Due Otter		Yes	4	Yes	V		(nitials)/	Af	7																				
Sampler - UP	S - Bus - Other:		No		No					4	5	1																				

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August 24, 2020

KATIE JONES Rice Operating Company 112 W. Taylor Hobbs, NM 88240

RE: BD P-26-1 VENT

Enclosed are the results of analyses for samples received by the laboratory on 08/18/20 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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 (V1, 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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	08/18/2020	Sampling Date:	08/13/2020
Reported:	08/24/2020	Sampling Type:	Water
Project Name:	BD P-26-1 VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T21S R37E SEC 26 P~ LEA CO NM		

Sample ID: MONITOR WELL #1 (H002153-01)

Chloride, SM4500Cl-B	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	224	4.00	08/19/2020	ND	100	100	100	0.00	
Sulfate 375.4	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	199	25.0	08/20/2020	ND	17.0	85.0	20.0	6.70	QM-07
TDS 160.1	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	967	5.00	08/20/2020	ND	416	83.2	500	0.431	

Sample ID: MONITOR WELL #2 (H002153-02)

Chloride, SM4500Cl-B	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	220	4.00	08/19/2020	ND	100	100	100	0.00	
Sulfate 375.4	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	165	25.0	08/20/2020	ND	17.0	85.0	20.0	6.70	
TDS 160.1	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1000	5.00	08/20/2020	ND	416	83.2	500	0.431	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/18/2020	Sampling Date:	08/13/2020
Reported:	08/24/2020	Sampling Type:	Water
Project Name:	BD P-26-1 VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T21S R37E SEC 26 P~ LEA CO NM		

Sample ID: MONITOR WELL #3 (H002153-03)

Chloride, SM4500Cl-B	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	220	4.00	08/19/2020	ND	100	100	100	0.00	
Sulfate 375.4	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	167	50.0	08/20/2020	ND	17.0	85.0	20.0	6.70	
TDS 160.1	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1020	5.00	08/20/2020	ND	416	83.2	500	0.431	

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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LAB #	FIELD CODE	dmo(;	NER						(NOA)				HDPE			B/602	3/602	X100		Ag A	Se se	/olati	des		8260	i. Vol.	608	081A	Ŧ	nten	S04	(MG,	ved S	
LAB USE	~						Щ		40ml		4		1 Liter	2020		80211	3021E	8.1/1	270C	etals	olatilo	emi/	estici		Vol.	Semi	3082/	es 8	SS, p	e Co	j.	s (SC	issol	es
ONLY		(G)rab or (C)omp	# CONTAINERS	WATER	SOIL	AIR	SLUDGE	Ξ		UNC3		12004	ICE (1-1Liter HDPE) NONE	DATE (2020)	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005 / TX1005 Extended (C35)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 Tot In Motels Ag As Ba Cd Cr Pb So Un		TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Moisture Content	Anions (CI, SO4, CO3, H	Cations (Ca, M Sulfates (SO4)	Total Dissolved Solids	Chlorides
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February 20, 2020

KATIE JONES Rice Operating Company 112 W. Taylor Hobbs, NM 88240

RE: BD JUNCTION P-26-2

Enclosed are the results of analyses for samples received by the laboratory on 02/13/20 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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 (V1, 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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	02/13/2020	Sampling Date:	02/10/2020
Reported:	02/20/2020	Sampling Type:	Water
Project Name:	BD JUNCTION P-26-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T21S R37E SEC 26 P ~ LEA CTY, NM		

Sample ID: MONITOR WELL #1 (H000455-01)

BTEX 8021B	Analyze	d By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	enzene* <0.001 0.001					102	0.0200	2.38	
Toluene*	< 0.001	0.001	02/17/2020	ND	0.020	101	0.0200	1.12	
Ethylbenzene*	<0.001	0.001	02/17/2020	ND	0.020	102	0.0200	0.932	
Total Xylenes*	<0.003	0.003	02/17/2020	ND	0.060	99.9	0.0600	0.725	
Total BTEX	<0.006	0.006	02/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	58.2-13	3						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	890	4.00	02/14/2020	ND	104	104	100	3.92	
Sulfate 375.4	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	307	50.0	02/17/2020	ND	19.5	97.4	20.0	9.67	
TDS 160.1	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2110	5.00	02/17/2020	ND	533	107	500	6.24	

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/13/2020	Sampling Date:	02/10/2020
Reported:	02/20/2020	Sampling Type:	Water
Project Name:	BD JUNCTION P-26-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T21S R37E SEC 26 P ~ LEA CTY, NM		

Sample ID: MONITOR WELL #2 (H000455-02)

BTEX 8021B	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	02/17/2020	ND	0.020	102	0.0200	2.38	
Toluene*	<0.001	0.001	02/17/2020	ND	0.020	101	0.0200	1.12	
Ethylbenzene*	<0.001	0.001	02/17/2020	ND	0.020	102	0.0200	0.932	
Total Xylenes*	<0.003	0.003	02/17/2020	ND	0.060	99.9	0.0600	0.725	
Total BTEX	<0.006	0.006	02/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	58.2-13	3						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1110	4.00	02/14/2020	ND	104	104	100	3.92	
Sulfate 375.4	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	399	50.0	02/17/2020	ND	19.5	97.4	20.0	9.67	
TDS 160.1	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2550	5.00	02/17/2020	ND	533	107	500	6.24	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/13/2020	Sampling Date:	02/10/2020
Reported:	02/20/2020	Sampling Type:	Water
Project Name:	BD JUNCTION P-26-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T21S R37E SEC 26 P ~ LEA CTY, NM		

Sample ID: MONITOR WELL #3 (H000455-03)

BTEX 8021B	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	02/17/2020	ND	0.020	102	0.0200	2.38	
Toluene*	<0.001	0.001	02/17/2020	ND	0.020	101	0.0200	1.12	
Ethylbenzene*	<0.001	0.001	02/17/2020	ND	0.020	102	0.0200	0.932	
Total Xylenes*	<0.003	0.003	02/17/2020	ND	0.060	99.9	0.0600	0.725	
Total BTEX	<0.006	0.006	02/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	58.2-13	3						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	660	4.00	02/14/2020	ND	104	104	100	3.92	
Sulfate 375.4	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	232	50.0	02/17/2020	ND	19.5	97.4	20.0	9.67	
TDS 160.1	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1550	5.00	02/17/2020	ND	533	107	500	6.24	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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August 26, 2020

KATIE JONES Rice Operating Company 112 W. Taylor Hobbs, NM 88240

RE: BD JUNCTION P-26-2

Enclosed are the results of analyses for samples received by the laboratory on 08/19/20 14:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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 (V1, 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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/19/2020	Sampling Date:	08/13/2020
Reported:	08/26/2020	Sampling Type:	Water
Project Name:	BD JUNCTION P-26-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T21S R37E SEC 26 P \sim LEA CTY, NM		

Sample ID: MONITOR WELL #1 (H002186-01)

Chloride, SM4500Cl-B	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	860	4.00	08/20/2020	ND	100	100	100	3.92	
Sulfate 375.4	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	322	83.3	08/20/2020	ND	17.0	85.0	20.0	6.70	
TDS 160.1	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2250	5.00	08/25/2020	ND	533	107	500	2.18	

Sample ID: MONITOR WELL #2 (H002186-02)

Chloride, SM4500Cl-B	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	960	4.00	08/20/2020	ND	100	100	100	3.92	
Sulfate 375.4	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	371	50.0	08/20/2020	ND	17.0	85.0	20.0	6.70	
TDS 160.1	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2500	5.00	08/25/2020	ND	533	107	500	2.18	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/19/2020	Sampling Date:	08/13/2020
Reported:	08/26/2020	Sampling Type:	Water
Project Name:	BD JUNCTION P-26-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T21S R37E SEC 26 P ~ LEA CTY, NM		

Sample ID: MONITOR WELL #3 (H002186-03)

Chloride, SM4500Cl-B	mg,	′L	Analyze	d By: GM									
Analyte	Analyte Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier				
Chloride*	660	4.00	08/20/2020	ND	100	100	100	3.92					
Sulfate 375.4	mg/L		Analyze	d By: AC									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier				
Sulfate*	209	50.0	08/20/2020	ND	17.0	85.0	20.0	6.70					
TDS 160.1	mg	′L	Analyze	d By: GM									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier				
TDS*	1670	5.00	08/25/2020	ND	533	107	500	2.18					

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

101 East Mariand - Hobbs, NM 88240 Tel (575) 393-2326 Fax (575) 393-2476	ทอ	1 T	ົ	h		20	4-0	N 11/2	in	a	T		_				Cŀ	IAI	N-O	F-C	CUS	STO	DY	' An	ID A				e_1	_	_	
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Project Manager:		RIC	EU		ress:	g Co	omp	any		reet, (City,	Zip)			-										thod							
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122 W Taylor Street ~ Hobbs, New Mexico 88240 Phone #:	Fax #:	(575	5) 35	93-9	174						(57	(5)3	397-1	471				0001														-
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District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 24174

CONDIT	IONS
Operator:	OGRID:
RICE OPERATING COMPANY	19174
122 W Taylor	Action Number:
Hobbs, NM 88240	24174
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of 2020 Annual Report: Content satisfactory 1. Continue sampling on a semi-annual schedule at a minimum 2. OCD pre-approves sampling termination from MW #2 3. OCD pre-approves eliminating sulfate analysis from MW#1 & MW #3 this point forward 4. Submit summarized activities completed and their results in a 2021 Annual Report. Submittal to OCD expected no later than March 31,2022.	2/4/2022