RICE Operating Company

112 West Taylor • Hobbs, New Mexico 88240 Phone: (575) 393-9174 • Fax: (575) 397-1471

April 1, 2023

REVIEWED

By Mike Buchanan at 3:21 pm, Jun 30, 2023

Nelson Velez

New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87505 Review of the 2022 Annual Groundwater Report for ROC BD Jct. B-4-2: **Content Satisfactory** 1 Continue to conduct groundwater sampling per plan. 2. Submit 2023 Annual GW Report by April 1, 2024

RE: 2022 Annual Groundwater Report Rice Operating Company – BD SWD System BD Jct. B-4-2 (1R426-204): UL/B, Sec. 4, T22S, R37E

Mr. Velez:

RICE Operating Company (ROC) is the service provider (agent) for the BD SWD System and has no ownership of any portion of the pipeline, well, or facility. The system is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

Background and Previous Work

The site is located approximately 1 mile south of Eunice, New Mexico at UL/B, Sec. 4, T22S, R37E as shown on the Geographic Location Map. Monitoring wells installed at the site confirmed groundwater is located at a depth of 92 feet below ground surface (bgs).

In 2008, ROC initiated work on the former B-4-2 junction box. The site was delineated using a backhoe to form a 30x25x12-ft deep excavation and soil samples were screened at regular intervals for both hydrocarbon and chloride. The excavated soil was blended on site, and representative samples were collected from the excavation walls (4-wall comp), excavation bottom (bottom comp), and the blended excavated soil (backfill comp). Each sample was sent to a commercial laboratory for analysis of chloride and TPH, resulting in elevated concentrations. The excavation was backfilled with the blended excavated soil up to 5 ft bgs, and a 5 ft shelf was excavated to the east and west. At 5–4 ft bgs, a 40x25x1-ft thick compacted clay barrier was installed. The clay layer will provide a barrier that will inhibit the downward migration of chloride to groundwater. The remaining blended excavated soil was returned to the excavation and the site was contoured to the surrounding area.

An ICP was submitted to NMOCD on May 4th, 2015 and approved on May 7th, 2015. A total of eleven soil bores were drilled at the site on September 28th and 29th, 2015 and June 13th, 14th, 17th, 2016 and October 19th, 2016. As the bores were advanced, soil samples were collected at regular intervals and field tested for chloride and hydrocarbon. Representative samples from each bore were sent to a commercial laboratory for confirmatory analysis. Each bore hole was plugged with bentonite to ground surface.

A Corrective Action Plan (CAP) was submitted to the NMOCD and approved on June 30th, 2017. According to the NMOCD approved CAP, a 20-mil reinforced liner with the modified dimensions of 113x70-ft was installed and properly seated at a depth of 4.5 ft bgs. The site was backfilled and seeded with a blend of native vegetation. A CAP Report and Soil Closure Request detailing this work was submitted to NMOCD on November 9th, 2017. NMOCD approved and 'Soil Closure' on December 11th, 2017.

Between November 13th-15th, 2018, three monitoring wells (MW-1, MW-2, and MW-3) were installed at the site. Lithology soil samples were collected at regular intervals. The wells were developed and have been sampled quarterly since installation. Groundwater chloride concentrations have remained low in each well. The most recent sampling event resulted in a chloride concentration of 280 mg/L in MW-1, 132 mg/L in MW-2, and 220 mg/L in MW-3. BTEX concentrations have remained below detectable limit in each well since installation. In 2020, ROC received NMOCD approval to cease BTEX sampling. On February 4th, 2022, NMOCD granted approval to cease sampling of both MW-2 and MW-3. ROC will continue quarterly sampling in 2023 and will continue to grab samples from MW-2 and MW-3, as necessary.

Attached is the Appendix, which contains:

- 1. A Geographic Location Map.
- 2. A map showing well locations.
- 3. A table presenting all laboratory results and depth to groundwater for each well at the site, and a graph showing recent laboratory results.
- 4. The laboratory analytical results for 2022.

Rice Operating Company appreciates the opportunity to work with you on this project. Please contact me at (575) 393-9174 if you have any questions or wish to further discuss this site. Thank you for your time and consideration.

Sincerely,

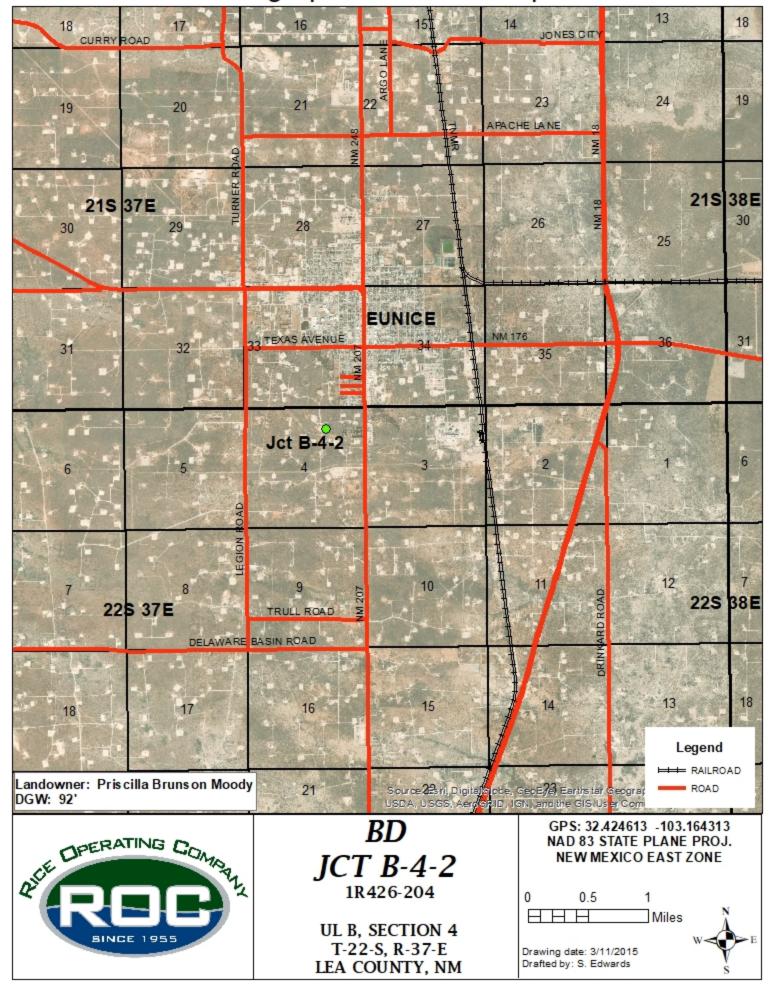
Katil Davis

Katie Davis Environmental Manager RICE Operating Company

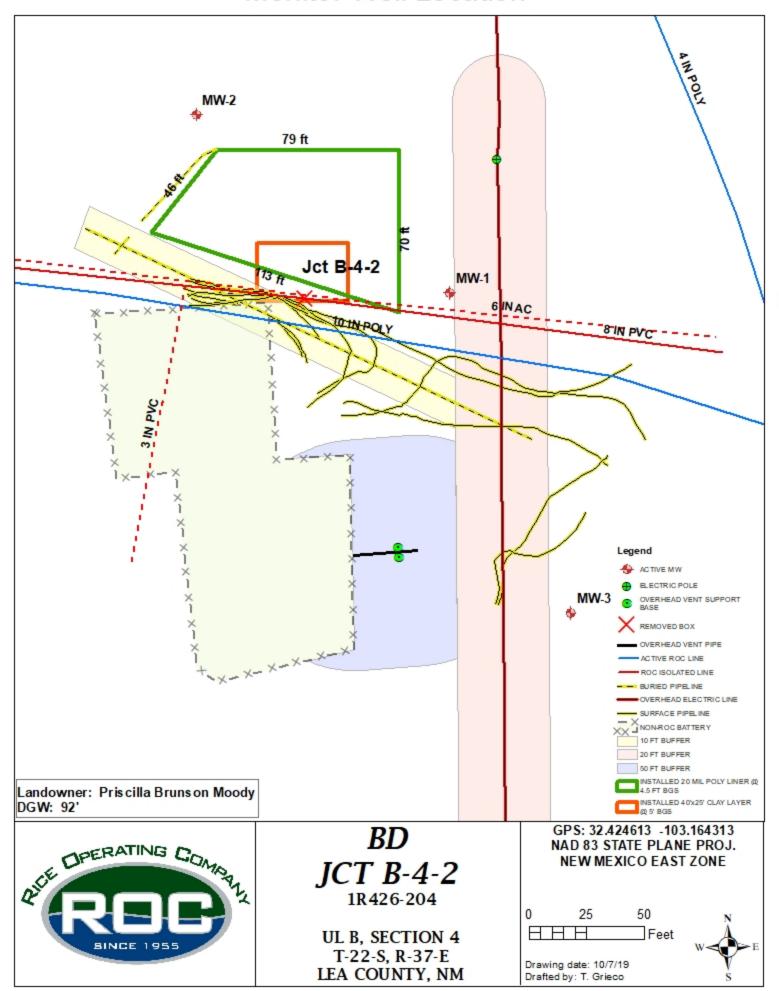
appendix

Received by OCD: 3/30/2023 9:41:53 Geographic Location Map

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ROC - BD Jct. B-4-2 (1R426-204) Unit Letter B, Section 4, T22S, R37E

MW	Depth to	Total	Well	Volume	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments
	Water	Depth	Volume	Purged						Benzene	Xylenes		
1	92.83	137.9	30	100	12/24/2018	180	759	<0.001	<0.001	<0.001	<0.003	272	Clear No odor
1	92.5	137.9	29.5	100	2/7/2019	188	841	<0.001	<0.001	<0.001	<0.003	349	Clear No odor
1	92.63	137.9	29.4	100	4/24/2019	232	866	<0.001	<0.001	<0.001	<0.003	151	Clear No odor
1	92.56	137.9	29.5	100	7/24/2019	200	1,030	<0.001	<0.001	<0.001	<0.003	291	Clear No odor
1	92.41	137.9	29.6	100	10/29/2019	176	963	<0.001	<0.001	<0.001	<0.003	253	Clear No odor
1	92.4	137.9	29.6	100	2/19/2020	260	983	<0.0005	<0.0005	<0.0005	<0.002	117	Clear No odor
1	92.43	137.9	29.6	100	5/28/2020	248	751	XXX	XXX	XXX	XXX	189	Clear No odor
1	92.34	137.9	29.6	100	8/25/2020	252	1,010	XXX	XXX	XXX	XXX	196	Clear No odor
1	92.35	137.9	29.6	100	10/29/2020	248	871	XXX	XXX	XXX	XXX	137	Clear No odor
1	92.29	137.9	30	100	2/10/2021	252	965	XXX	XXX	XXX	XXX	191	Clear No odor
1	92.3	137.9	30	100	5/12/2021	256	1,020	XXX	XXX	XXX	XXX	227	Clear No odor
1	92.28	137.9	30	100	8/13/2021	256	1,000	XXX	XXX	XXX	XXX	182	Clear No odor
1	92.15	137.9	30	100	10/19/2021	268	986	XXX	XXX	XXX	XXX	146	Clear No odor
1	92.19	137.9	30	100	2/1/2022	264	968	XXX	XXX	XXX	XXX	204	Clear No odor
1	92.23	137.9	30	100	5/6/2022	280	977	XXX	XXX	XXX	XXX	147	Clear No odor
1	92.35	137.9	30	100	8/18/2022	292	1,010	XXX	XXX	XXX	XXX	160	Clear No odor
1	92.39	137.9	30	100	11/1/2022	280	1,070	XXX	XXX	XXX	XXX	175	Clear No odor

N // N //	Depth to	Total	Well	Volume	Sample Date	Cl TDS Benz		Donzono	Taluana	Ethyl	Total	Sulfato	Comments
MW	Water	Depth	Volume	Purged	Sample Date	CI	103	Benzene	Toluene	Benzene	Xylenes	Suilate	Comments
2	93.92	100.85	1.1	5	12/24/2018	120	574	<0.001	<0.001	<0.001	<0.003	179	Clear No odor
2	93.52	100.85	1.2	5	2/7/2019	92	650	<0.001	<0.001	<0.001	<0.003	155	Clear No odor
2	93.65	100.85	1.2	5	4/24/2019	88	646	<0.001	<0.001	<0.001	<0.003	124	Clear No odor
2	93.6	100.85	1.2	5	7/24/2019	80	577	<0.001	<0.001	<0.001	<0.003	180	Clear No odor
2	93.38	100.85	1.2	5	10/29/2019	80	569	<0.001	<0.001	<0.001	<0.003	101	Clear No odor

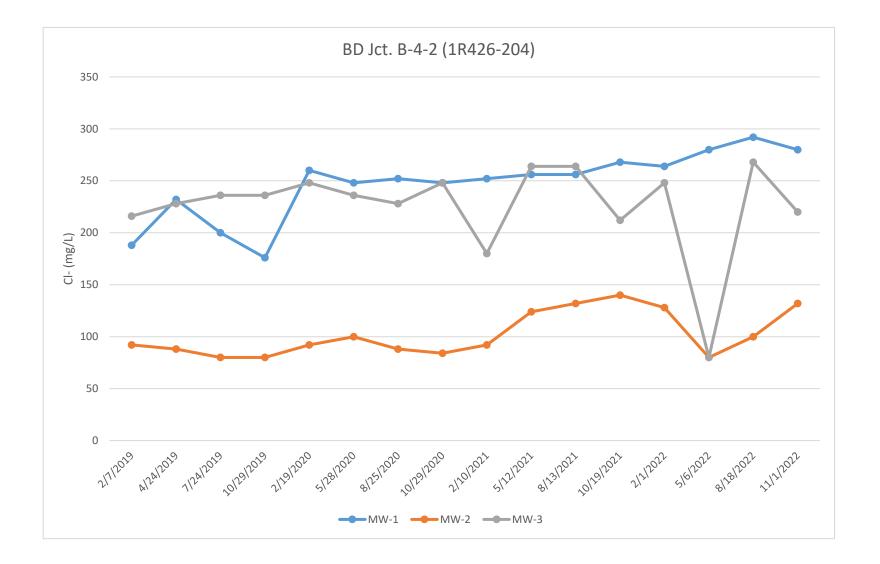
ROC - BD Jct. B-4-2 (1R426-204) Unit Letter B, Section 4, T22S, R37E

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
2	93.38	100.85	1.2	5	2/19/2020	92	598	<0.0005	<0.0005	<0.0005	<0.002	80.2	Clear No odor
2	93.41	100.85	1.2	5	5/28/2020	100	704	XXX	XXX	XXX	XXX	179	Clear No odor
2	93.32	100.85	1.2	5	8/25/2020	88	647	XXX	XXX	XXX	XXX	134	Clear No odor
2	93.38	100.85	1.2	5	10/29/2020	84	500	XXX	XXX	XXX	XXX	117	Clear No odor
2	92.29	100.85	1.2	5	2/10/2021	92	593	XXX	XXX	XXX	XXX	130	Clear No odor
2	93.34	100.85	1.2	5	5/12/2021	124	522	XXX	XXX	XXX	XXX	113	Clear No odor
2	93.33	100.85	1.2	5	8/13/2021	132	645	XXX	XXX	XXX	XXX	87.8	Clear No odor
2	93.21	100.85	1.2	5	10/19/2021	140	635	XXX	XXX	XXX	XXX	78.2	Clear No odor
2	93.18	100.85	1.5	5	2/1/2022	128	596	XXX	XXX	XXX	XXX	115	Clear No odor
2	93.25	100.85	1.5	5	5/6/2022	80	606	XXX	XXX	XXX	XXX	113	Clear No odor
2	93.36	100.85	1.2	5	8/18/2022	100	666	XXX	XXX	XXX	XXX	137	Clear No odor
2	93.4	100.85	1.2	5	11/1/2022	132	666	XXX	XXX	XXX	XXX	111	Clear No odor

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Sample Date Cl		Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
3	89.58	101.35	1.9	6	12/24/2018	220	807	<0.001	<0.001	<0.001	<0.003	187	Clear No odor
3	89.28	101.35	1.9	6	2/7/2019	216	916	<0.001	<0.001	<0.001	<0.003	177	Clear No odor
3	89.38	101.35	1.9	6	4/24/2019	228	906	<0.001	<0.001	<0.001	<0.003	144	Clear No odor
3	89.34	101.35	1.9	6	7/24/2019	236	915	<0.001	<0.001	<0.001	<0.003	158	Clear No odor
3	89.19	101.35	1.9	6	10/29/2019	236	900	<0.001	<0.001	<0.001	<0.003	191	Clear No odor
3	89.15	101.35	2	6	2/19/2020	248	892	<0.0005	<0.0005	<0.0005	<0.002	91.2	Clear No odor
3	89.17	101.35	1.9	6	5/28/2020	236	944	XXX	XXX	XXX	XXX	188	Clear No odor
3	89.07	101.35	2	6	8/25/2020	228	936	XXX	XXX	XXX	XXX	140	Clear No odor
3	89.13	101.35	2	6	10/29/2020	248	824	XXX	XXX	XXX	XXX	141	Clear No odor
3	89.05	101.35	2	6	2/10/2021	180	890	XXX	XXX	XXX	XXX	259	Clear No odor
3	89.05	101.35	2	6	5/12/2021	264	965	XXX	XXX	XXX	XXX	206	Clear No odor
3	89.02	101.35	2	6	8/13/2021	264	1,310	XXX	XXX	XXX	XXX	152	Clear No odor

ROC - BD Jct. B-4-2 (1R426-204) Unit Letter B, Section 4, T22S, R37E

MW	Depth to	Total	Well	Volume	Sample Date	CL	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments
	Water	Depth	Volume	Purged	Sample Date	C	103	Delizene	Toluelle	Benzene	Xylenes	Sunate	comments
3	88.88	101.35	2	6	10/19/2021	212	825	XXX	XXX	XXX	XXX	117	Clear No odor
3	88.97	101.35	2	6	2/1/2022	248	977	XXX	XXX	XXX	XXX	194	Clear No odor
3	89.02	101.35	2	6	5/6/2022	260	963	XXX	XXX	XXX	XXX	164	Clear No odor
3	89.11	101.35	2	6	8/18/2022	268	1,020	XXX	XXX	XXX	XXX	169	Clear No odor
3	89.15	101.35	2	6	11/1/2022	220	959	XXX	XXX	XXX	XXX	161	Clear No odor





November 10, 2022

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

RE: BD JUNCTION B-4-2

Enclosed are the results of analyses for samples received by the laboratory on 11/04/22 9:28.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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:	11/04/2022	Sampling Date:	11/01/2022
Reported:	11/10/2022	Sampling Type:	Water
Project Name:	BD JUNCTION B-4-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T22S-R37E-SEC2 B-LEA CTY., NM		

Sample ID: MONITOR WELL #1 (H225215-01)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	280	4.00	11/08/2022	ND	104	104	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*	175	50.0	11/07/2022	ND	19.6	98.0	20.0	4.22	
TDS 160.1	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1070	5.00	11/10/2022	ND	537	107	500	4.93	

Sample ID: MONITOR WELL #2 (H225215-02)

Chloride, SM4500CI-B	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	132	4.00	11/08/2022	ND	104	104	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*	111	25.0	11/07/2022	ND	19.6	98.0	20.0	4.22	
TDS 160.1	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	666	5.00	11/10/2022	ND	537	107	500	4.93	

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:	11/04/2022	Sampling Date:	11/01/2022
Reported:	11/10/2022	Sampling Type:	Water
Project Name:	BD JUNCTION B-4-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T22S-R37E-SEC2 B-LEA CTY., NM		

Sample ID: MONITOR WELL #3 (H225215-03)

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	11/08/2022	ND	104	104	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*	161	50.0	11/07/2022	ND	19.6	98.0	20.0	4.22	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	959	5.00	11/10/2022	ND	537	107	500	4.93	

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey 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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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August 26, 2022

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

RE: BD JUNCTION B-4-2

Enclosed are the results of analyses for samples received by the laboratory on 08/24/22 9:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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:	08/24/2022	Sampling Date:	08/18/2022
Reported:	08/26/2022	Sampling Type:	Water
Project Name:	BD JUNCTION B-4-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T22S-R37E-SEC2 B-LEA CTY., NM		

Sample ID: MONITOR WELL #1 (H223864-01)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	292	4.00	08/25/2022	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*	160	50.0	08/24/2022	ND	20.9	104	20.0	2.33	
TDS 160.1	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1010	5.00	08/25/2022	ND	833	83.3	1000	2.21	

Sample ID: MONITOR WELL #2 (H223864-02)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	100	4.00	08/25/2022	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*	137	25.0	08/24/2022	ND	20.9	104	20.0	2.33	
TDS 160.1	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	666	5.00	08/25/2022	ND	814	81.4	1000	1.93	

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:	08/24/2022	Sampling Date:	08/18/2022
Reported:	08/26/2022	Sampling Type:	Water
Project Name:	BD JUNCTION B-4-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T22S-R37E-SEC2 B-LEA CTY., NM		

Sample ID: MONITOR WELL #3 (H223864-03)

Chloride, SM4500CI-B	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	268	4.00	08/25/2022	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*	169	50.0	08/24/2022	ND	20.9	104	20.0	2.33	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1020	5.00	08/25/2022	ND	814	81.4	1000	1.93	

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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May 13, 2022

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

RE: BD JUNCTION B-4-2

Enclosed are the results of analyses for samples received by the laboratory on 05/11/22 12:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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:	05/11/2022	Sampling Date:	05/06/2022
Reported:	05/13/2022	Sampling Type:	Water
Project Name:	BD JUNCTION B-4-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T22S-R37E-SEC2 B-LEA CTY., NM		

Sample ID: MONITOR WELL #1 (H221994-01)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	280	4.00	05/11/2022	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*	147	50.0	05/11/2022	ND	18.2	91.0	20.0	10.2	
TDS 160.1	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	977	5.00	05/13/2022	ND	486	97.2	500	0.164	

Sample ID: MONITOR WELL #2 (H221994-02)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	80.0	4.00	05/11/2022	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*	113	25.0	05/11/2022	ND	18.2	91.0	20.0	10.2	
TDS 160.1	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	606	5.00	05/13/2022	ND	486	97.2	500	0.164	

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:	05/11/2022	Sampling Date:	05/06/2022
Reported:	05/13/2022	Sampling Type:	Water
Project Name:	BD JUNCTION B-4-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T22S-R37E-SEC2 B-LEA CTY., NM		

Sample ID: MONITOR WELL #3 (H221994-03)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	260	4.00	05/11/2022	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*	164	50.0	05/11/2022	ND	18.2	91.0	20.0	10.2	
TDS 160.1	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	963	5.00	05/13/2022	ND	486	97.2	500	0.164	

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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February 04, 2022

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

RE: BD JUNCTION B-4-2

Enclosed are the results of analyses for samples received by the laboratory on 02/02/22 11:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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:	02/02/2022	Sampling Date:	02/01/2022
Reported:	02/04/2022	Sampling Type:	Water
Project Name:	BD JUNCTION B-4-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T22S-R37E-SEC2 B-LEA CTY., NM		

Sample ID: MONITOR WELL #1 (H220395-01)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	264	4.00	02/02/2022	ND	100	100	100	0.00	
Sulfate 375.4	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	204	50.0	02/04/2022	ND	18.5	92.4	20.0	2.72	
TDS 160.1	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	968	5.00	02/03/2022	ND	519	104	500	3.07	

Sample ID: MONITOR WELL #2 (H220395-02)

Chloride, SM4500CI-B	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	128	4.00	02/02/2022	ND	100	100	100	0.00	
Sulfate 375.4	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	115	25.0	02/04/2022	ND	18.5	92.4	20.0	2.72	
TDS 160.1	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	596	5.00	02/03/2022	ND	519	104	500	3.07	

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:	02/02/2022	Sampling Date:	02/01/2022
Reported:	02/04/2022	Sampling Type:	Water
Project Name:	BD JUNCTION B-4-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T22S-R37E-SEC2 B-LEA CTY., NM		

Sample ID: MONITOR WELL #3 (H220395-03)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	248	4.00	02/02/2022	ND	100	100	100	0.00	
Sulfate 375.4	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	194	50.0	02/04/2022	ND	18.5	92.4	20.0	2.72	
TDS 160.1	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	977	5.00	02/03/2022	ND	519	104	500	3.07	

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey 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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Company Name: BILL TO Company: PO# RICE Operating Company RICE Operating Company PO#									T	ANALYSIS REQUEST												Pag										
Project Manager: Katie Jones				Address: (Street, City, Zip)										(Circle or Specify Method No.)													Ļ					
Address: (Street, City, Zip)				122 W Taylor Street ~ Hobbs, New Mexico 88240 Phone#: Fax#:										-				~														
122 W Taylor Street ~ Hobbs, New Mexico 88240 Phone #: Fax #:				(575) 393-9174 (575)397-1471										4				B/200														
(575) 393-9174 Project #: Project Name:	(575	75) 397-1471													(C35)		6010															
BD Junction B-4-2																ended		e Hg	Se Hg													
Project Location: T22S R37E Sec2 B ~ Lea County New Me>	xico	Sampler Signature: Rozanne Johnson (575)631-9310											1		5 Exte		r Pb S	L PD					25					03)			nrs	
	Γ		1	M	x	Ś	PRESERVATIVE SAMPL				MPLIN	G		TPH 418.1/TX1005 / TX1005 Extended (C35)		Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7					4	8270C/625				2	Anions (Cl, SO4, CO3, HCO3)		s	24 Hours		
H220395 LAB #	đ	RS	Þ	ŕ		T		T		TTT		+	Τ	-		./ 900		As Ba	AS D	tiles			GC/MS Vol. 8260B/624			Pesticides 8081A/608	1	Na,	CO CO		Lotal Dissolved Solids Chlorides	ne ~ 2
FIELD CODE	(C)ol	AINE					OV Im				ter HDF	122		R031B/R03	1B/60	1/TX1	2	Is Ag	tiles	ii Vola	licides		I. 826	mi. Vo	\$2/608	8081	PH	a, Mo	SO4		olved	nd Tin
(LAB USE ONLY)	(G)rab or (C)omp	# CONTAINERS	WATER	_		SLUDGE	HCL (2 40ml VOA)	õ	NaHSO ₄	5	ICE (1-1Liter HDPE)	DATE (2022)	.	E 80	BTEX 8021B/602	418.	PAH 8270C	Meta	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides		AS Vo	GC/MS Semi. Vol.	PCB's 8082/608	cides	BOD, TSS, pH Moisture Content	ns (O	ns (CI	tes	UISS(Turn Around Time ~
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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 202246

CONDITIONS Operator: OGRID: RICE OPERATING COMPANY 19174 122 W Taylor Action Number: Hobbs, NM 88240 202246 Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2022 Annual Groundwater Report for ROC BD Jct. B-4-2: Content Satisfactory 1 Continue to conduct groundwater sampling per plan. 2. Submit 2023 Annual GW Report by April 1, 2024	6/30/2023