

SURFACE WATER MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER

Summary Page

PUBLIC WATER

SYSTEM NAME: Webb County Water Utilities

PLANT NAME

OR NUMBER: Rio Bravo

I certify that I am familiar with the information contained in this report and that, to the best of my knowledge, the information is true, complete, and accurate.

PWS ID No.: 2400022

Plant ID No.: 20831

Operator's Signature: *[Signature]*

Report for the Month of: August 2024

Certificate No. & Grade: WS0014837, C

Date: September 10, 2024

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	163	Number of 4-hour periods when plant was off-line:	23
Number of readings above 0.10 NTU:	0	Number of 4-hour periods when plant was on-line but turbidity data was not collected:	0
Number of readings above 0.3 NTU:	0	Number of days when plant was on-line but individual filter turbidity data was not collected:	0
Number of readings above 0.5 NTU:	0	Number of days with readings above 1.0 NTU:	0 (2)
Number of readings above 1.0 NTU:	0	Number of days with readings above 5.0 NTU:	0 (3)
Maximum allowable turbidity level:	0.3		
Percentage of readings above this limit:	0.0 % (1)		

Bin Class: <u>2</u>	Crypto Credit Required: <u>4.0</u> (7A)	Crypto Credit Achieved: <u>4.5</u> (7B)	Bin 3&4 Credits: <u>1.0</u> (7C)
Watershed Protection:	0.0	Conventional Treatment:	3.0
Bank Filtration:	0.0	Enhanced Filter Performance:	0.5
Presedimentation with Coagulation:	0.0	Bag and Cartridge Filtration:	0.0
Two-Stage Lime Softening:	0.0	Membrane Filtration:	0.0
		Second Stage Filtration:	0.0
		UV:	1.0
		Ozone, Chlorine Dioxide:	0.0
		Perform. Demonstration:	0.0

Number of days with low inactivation (including UV) for no more than 4.0 consecutive hours:	0	Average log inactivation (including UV) for Giardia:	7.18
Number of days with low inactivation (including UV) for more than 4.0 consecutive hours:	0 (4)	Average log inactivation (including UV) for viruses:	70.09
		Number of days when profiling data was not collected:	0
		Number of days when CT data was not collected:	0

Minimum disinfectant residual required leaving the plant:	0.5 mg/L, measured as Total Chlorine		
Number of days with a low residual for no more than 4.0 consecutive hours:	0	Minimum pH in the last disinfection zone:	6.63
Number of days with a low residual for more than 4.0 consecutive hours:	0 (5)	Number of days with pH below 7.0 in the last disinfection zone:	18.00
		Number of days when disinfectant residual leaving the plant was not properly monitored:	0

DISTRIBUTION SYSTEM

Minimum disinfectant residual required in distribution system:	0.5 mg/L, measured as Total Chlorine		
Total number of readings this month:	42	(at least 31 required) (8)	
Average disinfectant residual value:	2.12	Percentage of readings with a low residual this month:	0.0 % (6A)
Number of readings with a low residual:	0	Percentage of readings with a low residual last month:	0.0 % (6B)
Number of readings with no detectable residual:	0		

ADDITIONAL REPORTS & WORKSHEETS

The Page 1 Addendum (Public Notices) is not required because there were no treatment technique or monitoring/reporting violations reported.

Additional report(s) for individual filter monitoring required: NONE Filter Profile Filter Assessment CPF

Additional report(s) for individual filter monitoring submitted: NONE Filter Profile (9) Filter Assessment (10) CPE (11)

No additional IFE Reports are required this month.

P.2-Turbidity Data	P.3-Filter Data	P.4&5-Disinfection Data	P.6-TOCMOR	P.7-TOC ACC
Alternate Technol.	UV-CDA	UV-Sensor Data	UV-UVT Analyzer	

STATISTICAL ANALYSIS OF TURBIDITY DATA

Settled Water Stastical Summary	Maximum turbidity reading:	5.61 NTU	Average turbidity value:	1.47 NTU
	Minimum turbidity reading:	0.18 NTU	Standard deviation:	0.953 NTU
	95 th percentile value:	3.44 NTU		
IFE Stastical Summary	Maximum IFE turbidity reading:	0.18 NTU	Average IFE turbidity value:	0.10 NTU
	Minimum IFE turbidity reading:	0.06 NTU	Standard deviation:	0.021 NTU
	95 th percentile IFE value:	0.13 NTU		
CFE Stastical Summary	Maximum CFE turbidity reading:	0.09 NTU	Average CFE turbidity value:	0.07 NTU
	Minimum CFE turbidity reading:	0.04 NTU	Standard deviation:	0.009 NTU
	95 th percentile CFE value:	0.08 NTU		

STATISTICAL ANALYSIS OF pH DATA

Last Zone pH Stastical Summary	Maximum pH reading:	7.26 pH	Average pH value:	6.97 pH
	Minimum pH reading:	6.63 pH	Standard deviation:	0.147 pH
	95 th percentile value:	7.26 pH		

SURFACE WATER MONTHLY OPERATING REPORT
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
SURFACE WATER MONTHLY OPERATING REPORT

This copy of the SWMOR was customized for the Webb County Water Utilities Rio Bravo SWTP and includes numerous cross-references to imported data. The file format was reviewed and approved by the TCEQ on February 1, 2022.

SURFACE WATER MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
Turbidity Data Page

PUBLIC WATER SYSTEM NAME: Webb County Water Utilities PLANT NAME OR NUMBER: Rio Bravo
PWS ID No.: 2400022 Plant ID No.: 20831 Connections: 1,987
Month: August Year: 2024 Population: 6,954

PERFORMANCE DATA																			
Date	Raw Water Pumpage (MGD)	Treated Water Pumpage (MGD)	RAW WATER ANALYSES		SETTLED WATER TURBIDITY (Optional Data)						FINISHED WATER QUALITY								
			NTU	Alk.	Basin No.						Combined Filter Effluent Turbidity						Lowest Residual	Time \square	
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6			
1	1.213	0.934	39	100	1.2	1.2						0.08	X	0.09	0.08	0.08	0.07	3.4	
2	1.174	0.914	25	100	1.2	1.1						0.07	X	0.07	0.07	0.07	0.07	2.8	
3	1.125	0.905	23	100	1.1	1.2						X	X	0.07	0.07	0.07	0.06	3.1	
4	1.232	0.891	27	100	3.5	3.2						0.06	X	0.07	0.06	0.06	0.06	3.0	
5	1.156	0.946	27	100	5.6	1.2						X	X	0.07	0.07	0.07	0.07	3.0	
6	1.280	0.976	25	100	1.2	1.2						0.07	X	0.08	0.08	0.08	0.08	1.8	
7	1.201	0.950	17	100	1.2	1.2						0.08	X	0.07	0.07	0.07	0.08	2.7	
8	1.263	0.934	27	100	1.2	1.2						0.08	X	0.07	0.08	0.08	0.08	2.2	
9	1.120	0.878	17	100	1.1	1.2						0.08	X	0.07	0.08	0.08	0.08	2.9	
10	1.205	0.878	21	100	0.2	1.3						0.08	X	0.08	0.07	0.08	0.08	2.8	
11	1.161	0.893	20	100	1.2	1.1						X	0.08	0.08	0.08	0.08	0.08	1.9	
12	1.141	0.906	21	100	1.2	1.2						0.08	X	0.08	0.09	0.08	0.06	2.9	
13	1.178	0.967	51	100	1.2	1.2						0.06	X	0.07	0.07	0.06	0.07	3.1	
14	1.195	0.879	52	100	2.3	1.2						0.07	0.08	0.06	0.07	0.07	0.07	2.8	
15	1.099	0.906	25	100	1.0	1.2						0.07	0.08	0.06	0.07	0.07	0.07	3.6	
16	1.139	0.938	35	100	1.2	1.2						X	0.07	0.06	0.07	0.07	0.06	3.3	
17	1.160	0.974	37	100	5.0	1.2						0.06	X	0.06	0.06	0.07	0.06	3.6	
18	1.203	0.946	16	100	1.2	1.2						0.06	0.06	0.06	0.06	0.06	0.06	3.3	
19	1.205	0.978	18	100	1.0	1.2						X	0.06	0.04	0.08	0.07	0.07	3.2	
20	1.276	1.028	19	100	1.7	5.0						0.06	X	0.06	0.06	0.06	0.06	3.1	
21	1.299	1.010	23	100	1.0	1.5						0.07	0.06	0.06	0.06	0.06	0.06	2.9	
22	1.224	0.952	19	100	1.0	1.5						0.06	0.07	0.06	0.06	0.06	0.07	3.0	
23	1.238	0.946	19	100	1.0	1.5						0.06	0.06	0.06	0.07	0.07	0.06	3.0	
24	1.227	0.980	16	100	1.2	1.5						0.06	0.06	0.06	0.06	0.07	0.06	3.2	
25	1.264	1.015	30	100	1.0	1.5						0.06	0.06	0.07	0.07	0.07	0.06	3.3	
26	1.189	0.929	22	100	1.2	1.5						0.07	0.06	0.06	0.06	0.06	0.06	3.3	
27	1.100	0.899	23	100	1.3	1.1						X	0.07	0.08	0.07	0.06	0.06	3.0	
28	0.982	0.841	22	100	1.3	1.1						0.08	X	0.08	0.07	0.07	0.07	2.8	
29	1.005	0.874	27	100	1.3	1.1						X	0.07	0.08	0.08	0.08	0.07	2.8	
30	1.069	0.892	18	100	1.6	1.2						0.09	0.09	0.07	0.06	0.07	0.07	2.3	
31	1.047	0.872	23	100	1.1	1.1						X	0.06	0.06	0.07	0.07	0.07	3.1	
Total	36.372	28.832			Max	5.6	5.0												
Avg	1.173	0.930			Avg	1.5	1.4												
Max	1.299	1.028			95th %	4.2	2.3												
Min	0.982	0.841			Min	0.2	1.1												
											NOTE: ONLY use the "Time" column to show the length of time that the disinfectant residual entering the distribution system fell below the acceptable level.								
											95th percentile based on data from all basins 3.4								

SUBMITTED BY: Victor Vasquez Certificate No. and Grade: WS0014837, C Date: September 10, 2024

SURFACE WATER MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)

Filter Data Page

PUBLIC WATER
SYSTEM NAME: Webb County Water Utilities

PLANT NAME
OR NUMBER: Rio Bravo

PWS ID No.: 2400022 Plant ID No.: 20831

Month: August Year: 2024

PERFORMANCE DATA																				
INDIVIDUAL FILTER TURBIDITY																				
Date	Filter No. 1		Filter No. 2		Filter No. 3		Filter No. 4		Filter No. 5		Filter No. 6		Filter No. 7		Filter No. 8		Filter No. 9		Filter No. 10	
	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs
1	0.12		0.13		0.12		0.10													
2	0.11		0.08		0.10		0.08													
3	0.11		0.08		0.07		0.09													
4	0.10		0.08		0.09		0.11													
5	0.09		0.09		0.09		0.08													
6	0.08		0.11		0.11		0.11													
7	0.10		0.09		0.10		0.13													
8	0.10		0.09		0.11		0.14													
9	0.10		0.09		0.13		0.08													
10	0.09		0.10		0.11		0.10													
11	0.15		0.12		0.09		0.09													
12	0.10		0.10		0.09		0.13													
13	0.10		0.08		0.08		0.08													
14	0.10		0.09		0.08		0.10													
15	0.08		0.08		0.10		0.08													
16	0.09		0.08		0.09		0.07													
17	0.06		0.08		0.07		0.09													
18	0.06		0.07		0.07		0.09													
19	0.12		0.11		0.07		0.08													
20	0.18		0.11		0.07		0.10													
21	0.07		0.08		0.11		0.08													
22	0.07		0.10		0.09		0.13													
23	0.08		0.09		0.09		0.12													
24	0.10		0.08		0.09		0.15													
25	0.09		0.09		0.12		0.15													
26	0.09		0.08		0.11		0.11													
27	0.07		0.09		0.08		0.12													
28	0.10		0.08		0.08		0.09													
29	0.10		0.07		0.07		0.08													
30	0.10		0.07		0.07		0.08													
31	0.09		0.16		0.12		0.09													

SUMMARY & COMPLIANCE ACTIONS	Criteria	Filter No.										Plant	
		1	2	3	4	5	6	7	8	9	10		
Number of days with event(s) above 0.5 NTU at 4.0 hrs this month													
Number of days with event(s) above 1.0 NTU this month		0	0	0	0								
Number of days with event(s) above 1.0 NTU last month		0	0	0	0								
Number of days with event(s) above 1.0 NTU two months ago		0	0	0	0								
Total number of days with event(s) above 1.0 NTU in three months		0	0	0	0								
Number of events above 2.0 NTU this month												0	
Number of events above 2.0 NTU last month												0	
Does the filter/plant have an approved Corrective Action Plan?		N	N	N	N								N
Is the plant required to submit a Filter Profile Report?		N	N	N	N								
Is the plant required to submit a Filter Assessment Report?		N	N	N	N								
Is the plant required to submit a Request for Compliance CPE?												N	

SUBMITTED BY: Victor Vasquez

Certificate No. and Grade: WS0014837, C Date: September 10, 2024

SURFACE WATER MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
Disinfection Data Page

PUBLIC WATER SYSTEM NAME: Webb County Water Utilities
PWS ID No.: 2400022 Plant ID No.: 20831

PLANT NAME OR NUMBER: Rio Bravo
Month: August Year: 2024

DISINFECTION PROCESS PARAMETERS							
APPROVED CT STUDY PARAMETERS					PERFORMANCE STANDARDS		
Parameters	Disinfection Zones				Log Inactivations		
	D1A	D1B	D2	D3	D4	Giardia lamblia Cysts	Viruses
Flow Rate (MGD)	1.250	1.250	0.625	1.250		0.5	2.0
T ₁₀ (minutes)	7.9	7.9	21.0	50.4			

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time ^{id}
1	FCL D1A	0.2	0.794	27.0	7.4				
	FCL D1B	0.4	0.794	27.3	7.2				
	FCL D2	0.8	0.397	26.6	7.5	3.49	70.45	6.97	
	CLA D3	4.0	0.794	29.1	7.3			(G)	
	D4								
2	FCL D1A	0.2	0.801	27.1	7.1				
	FCL D1B	0.2	0.801	27.4	7.1				
	FCL D2	0.6	0.400	27.1	7.1	2.99	55.95	5.99	
	CLA D3	3.1	0.801	28.0	7.3			(G)	
	D4								
3	FCL D1A	0.3	0.815	27.1	7.1				
	FCL D1B	0.2	0.815	27.3	7.1				
	FCL D2	0.6	0.408	26.8	7.1	3.06	57.12	6.11	
	CLA D3	3.2	0.815	27.3	7.0			(G)	
	D4								
4	FCL D1A	0.3	0.820	27.2	7.2				
	FCL D1B	0.3	0.820	27.5	7.1				
	FCL D2	0.6	0.410	27.0	7.2	3.23	59.27	6.46	
	CLA D3	3.7	0.820	28.6	7.1			(G)	
	D4								
5	FCL D1A	0.6	0.822	28.1	7.0				
	FCL D1B	0.5	0.822	28.3	6.9				
	FCL D2	0.6	0.411	28.3	7.0	3.71	72.66	7.42	
	CLA D3	3.0	0.822	28.5	7.0			(G)	
	D4								
6	FCL D1A	0.4	0.791	28.5	7.1				
	FCL D1B	0.4	0.791	28.5	7.0				
	FCL D2	0.6	0.395	28.5	7.0	3.74	69.73	7.48	
	CLA D3	3.4	0.791	28.4	6.8			(G)	
	D4								
7	FCL D1A	0.5	0.759	28.1	7.2				
	FCL D1B	0.6	0.759	27.5	7.0				
	FCL D2	0.6	0.379	27.3	7.2	3.43	68.84	6.85	
	CLA D3	2.9	0.759	28.8	7.1			(G)	
	D4								
8	FCL D1A	0.5	0.935	28.6	6.9				
	FCL D1B	0.5	0.935	28.5	7.0				
	FCL D2	0.4	0.467	27.8	7.1	2.71	47.83	5.41	
	CLA D3	3.4	0.935	29.1	7.1			(G)	
	D4								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time ^{id}
9	FCL D1A	0.4	0.950	29.5	6.8				
	FCL D1B	0.5	0.950	29.2	6.8				
	FCL D2	0.6	0.475	29.6	7.0	3.56	65.42	7.12	
	CLA D3	3.8	0.950	29.4	7.0			(G)	
	D4								
10	FCL D1A	0.6	0.948	29.4	7.0				
	FCL D1B	0.6	0.948	27.6	7.0				
	FCL D2	0.8	0.474	29.3	7.2	3.96	83.15	7.92	
	CLA D3	3.5	0.948	28.3	7.1			(G)	
	D4								
11	FCL D1A	0.3	0.786	28.6	7.2				
	FCL D1B	0.3	0.786	28.9	7.2				
	FCL D2	0.2	0.393	28.8	7.2	2.13	31.46	4.27	
	CLA D3	3.4	0.786	29.3	7.2			(G)	
	D4								
12	FCL D1A	0.5	0.796	29.4	6.9				
	FCL D1B	0.6	0.796	28.8	7.0				
	FCL D2	0.9	0.398	28.0	7.2	4.71	98.42	9.43	
	CLA D3	3.7	0.796	29.1	7.0			(G)	
	D4								
13	FCL D1A	0.3	0.786	28.2	7.0				
	FCL D1B	0.3	0.786	27.9	6.9				
	FCL D2	0.7	0.393	27.4	7.1	3.72	69.85	7.45	
	CLA D3	3.7	0.786	28.4	6.6			(G)	
	D4								
14	FCL D1A	0.3	0.755	29.6	6.9				
	FCL D1B	0.4	0.755	29.5	6.9				
	FCL D2	1.0	0.377	29.7	6.9	5.92	120.98	11.85	
	CLA D3	4.0	0.755	29.2	6.9			(G)	
	D4								
15	FCL D1A	0.2	0.751	28.1	6.9				
	FCL D1B	0.3	0.751	28.3	6.9				
	FCL D2	0.8	0.375	26.8	7.2	4.26	81.83	8.52	
	CLA D3	4.1	0.751	28.5	6.9			(G)	
	D4								
16	FCL D1A	0.6	0.770	30.5	6.8				
	FCL D1B	0.7	0.770	30.3	6.8				
	FCL D2	1.0	0.385	30.1	6.9	6.30	129.29	12.60	
	CLA D3	4.0	0.770	31.5	6.9			(G)	
	D4								

NOTE: - ONLY use the "Time^{id}" column to show the length of time that the total inactivation ratio was less than 1.00.

SUBMITTED BY: Victor Vasquez Certificate No. and Grade: WS0014837, C Date: September 10, 2024

SURFACE WATER MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
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Disinfection Data Page (cont.)

PUBLIC WATER SYSTEM NAME: Webb County Water Utilities

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022 Plant ID No.: 20831

Month: August Year: 2024

DISINFECTION PROCESS PARAMETERS							
APPROVED CT STUDY PARAMETERS					PERFORMANCE STANDARDS		
Parameters	Disinfection Zones				Log Inactivations		
	D1A	D1B	D2	D3	D4	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	1.25	1.25	0.63	1.25		0.5	2.0
T ₁₀ (minutes)	7.90	7.90	21.00	50.40			

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time ^a
17	FCL D1A	0.3	0.765	28.6	6.8				
	FCL D1B	0.3	0.765	28.6	6.8				
	FCL D2	0.9	0.382	28.3	6.9	5.05	94.74	10.10	
	CLA D3	4.3	0.765	28.4	6.8			(G)	
	D4								
18	FCL D1A	0.1	0.773	28.0	6.8				
	FCL D1B	0.2	0.773	27.9	6.8				
	FCL D2	0.7	0.385	28.2	6.9	4.00	69.67	8.01	
	CLA D3	4.0	0.773	28.0	6.9			(G)	
	D4								
19	FCL D1A	0.2	0.790	28.9	6.9				
	FCL D1B	0.3	0.790	28.7	6.9				
	FCL D2	0.3	0.395	29.2	6.9	2.72	41.59	5.44	
	CLA D3	3.6	0.790	29.5	6.9			(G)	
	D4								
20	FCL D1A	0.2	0.770	28.4	6.9				
	FCL D1B	0.2	0.770	28.0	6.8				
	FCL D2	0.5	0.385	28.4	7.0	3.37	59.02	6.75	
	CLA D3	3.5	0.770	28.5	7.0			(G)	
	D4								
21	FCL D1A	0.2	0.750	27.5	6.9				
	FCL D1B	0.3	0.750	27.7	6.8				
	FCL D2	0.6	0.375	27.3	7.0	3.48	60.79	6.96	
	CLA D3	3.6	0.750	27.3	7.3			(G)	
	D4								
22	FCL D1A	0.2	0.733	28.7	6.7				
	FCL D1B	0.2	0.733	28.9	6.7				
	FCL D2	0.5	0.366	28.0	7.0	3.50	59.34	7.01	
	CLA D3	3.5	0.733	27.7	6.8			(G)	
	D4								
23	FCL D1A	0.2	0.733	29.5	6.7				
	FCL D1B	0.3	0.733	29.2	6.6				
	FCL D2	0.6	0.366	29.2	6.9	3.95	70.41	7.91	
	CLA D3	3.4	0.733	28.3	6.8			(G)	
	D4								
24	FCL D1A	0.6	0.737	29.2	6.8				
	FCL D1B	0.6	0.737	29.3	6.8				
	FCL D2	0.7	0.368	29.0	7.0	5.09	97.20	10.18	
	CLA D3	3.9	0.737	28.7	6.8			(G)	
	D4								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time ^a
25	FCL D1A	0.2	0.744	28.8	6.8				
	FCL D1B	0.4	0.744	28.8	6.8				
	FCL D2	0.7	0.372	28.6	7.1	4.04	73.96	8.08	
	CLA D3	3.8	0.744	27.6	6.9			(G)	
	D4								
26	FCL D1A	0.2	0.742	28.9	6.8				
	FCL D1B	0.2	0.742	28.5	6.8				
	FCL D2	0.7	0.371	28.7	7.1	4.09	74.19	8.18	
	CLA D3	3.8	0.742	26.5	7.0			(G)	
	D4								
27	FCL D1A	0.3	0.719	27.7	6.9				
	FCL D1B	0.4	0.719	27.9	6.9				
	FCL D2	0.6	0.359	27.4	7.1	3.84	70.75	7.67	
	CLA D3	3.4	0.719	27.6	7.0			(G)	
	D4								
28	FCL D1A	0.2	0.700	27.7	6.9				
	FCL D1B	0.3	0.700	27.4	6.8				
	FCL D2	0.5	0.350	27.3	7.0	3.36	55.90	6.72	
	CLA D3	3.4	0.700	27.5	6.9			(G)	
	D4								
29	FCL D1A	0.2	0.730	28.1	6.9				
	FCL D1B	0.2	0.730	27.9	6.9				
	FCL D2	0.4	0.365	28.4	7.0	2.82	43.71	5.63	
	CLA D3	3.4	0.730	28.5	6.9			(G)	
	D4								
30	FCL D1A	0.2	0.721	26.8	6.8				
	FCL D1B	0.2	0.721	26.8	6.8				
	FCL D2	0.2	0.360	27.2	6.9	2.13	29.52	4.26	
	CLA D3	2.9	0.721	26.6	6.9			(G)	
	D4								
31	FCL D1A	0.3	0.732	28.8	6.9				
	FCL D1B	0.5	0.732	28.3	6.8				
	FCL D2	0.8	0.366	28.6	6.9	4.80	89.85	9.60	
	CLA D3	3.6	0.732	27.8	7.0			(G)	
	D4								

Max	6.30	129.29	12.60
Min	2.13	29.52	4.26
Avg	3.78	70.09	7.56
SD	0.94	22.11	1.89

NOTE: ^a = ONLY use the "Time=" column to show the length of time that the total inactivation ratio was less than 1.00.

SUBMITTED BY: Victor Vasquez

Certificate No. and Grade: WS0014837, C

Date: September 10, 2024

MONTHLY TOTAL ORGANIC CARBON REMOVAL REPORT (TOCMOR) FOR SURFACE WATER OR GROUND WATER UNDER THE INFLUENCE OF SURFACE WATER SYSTEMS

PUBLIC WATER SYSTEM NAME: Webb County Water Utilities PLANT NAME OR NUMBER: Rio Bravo
PWS ID No.: 2400022 Plant ID No.: 20831 Month: August Year: 2024
Type of treatment: Conventional Unconventional explain: _____

Note: Systems are required to run one TOC Sample Set every month. Additional space is provided for those systems that do additional sampling

Test No.	Test Date	Monthly TOC Sample Set			Actual % TOC Removed	Step 1 Required % Removal	Step 1 Removal Ratio	Optional data		INDIVIDUAL SAMPLE COMPLIANCE REMOVAL RATIO
		Raw Alkalinity	Raw TOC	Treated TOC				Step 2 Required % Removal	Step 2 Removal Ratio	
		Enter the Sample Set results						calculated	calculated from matrix	
1	8/7	100	5.10	3.65	28.4	35	0.81			0.81
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Avg		100.00	5.10	3.65	28.43		0.81			0.81
Max		100.00	5.10	3.65	28.43		0.81			0.81
Min		100.00	5.10	3.65	28.43		0.81			0.81

TOTAL ORGANIC CARBON (TOC) REMOVAL SUMMARY

TOC Summary					Monthly Compliance Ratio
Raw Water Alkalinity	Raw Water TOC	Treated Water TOC	TOC % Removal	ACC # used	
100	5.10	3.65	28.4	NA	0.81

I certify that I am familiar with the information contained in this report and that, to the best of my knowledge, the information is true, complete, and accurate.

Operator's Signature: *[Signature]* Certificate No. and Grade: WS0014837, C Date: September 10, 2024

Submit the report by the 10th of the month following the reporting period to:
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

UV MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER
UV Calculated Dose Approach Reactors

PUBLIC WATER SYSTEM NAME: Webb County Water Utilities PLANT NAME OR NUMBER: Rio Bravo
 PWS ID No.: 2400022 Plant ID No.: 20831 Month: August Year: 2024

VALIDATED OPERATIONAL CONDITIONS									
VALIDATED PARAMETERS						PERFORMANCE REQUIREMENTS			
Parameters	Reactor Number					Crypto Log Inactivation	Required UV Dose (mJ/cm ²)		
	UVCD1	UVCD2	UVCD3	UVCD4	UVCD5				
Max Validated Flow Rate (MGD)	5.080	5.080	5.080			1.0			
Min Validated UVT (%)	69.20	69.20	69.20						

PERFORMANCE DATA									
OPERATIONAL DATA									
Date	Reactor	Total Product. (MG)	Max. Flow Rate (MGD)	Min UV Trans. (%)	Minimum Meas'd UV Dose (mJ/cm ²)	Sensor CF	Adjusted Minimum UV Dose (mJ/cm ²)	Total Off-Spec Product. (MG)	Consec. Off-Spec Hours (hr)
	1	X	X	X	X	X	X	X	0.000
	2	0.654	1.116	82.93	14.23	1.00	14.23	0.000	
	3	0.443	0.750	82.93	24.81	1.00	24.81	0.000	
	4								
	5								
	1	0.506	0.921	83.03	16.70	1.00	16.70	0.000	0.000
	2	0.049	0.887	83.03	18.07	1.00	18.07	0.000	
	3	0.511	0.869	83.03	22.02	1.00	22.02	0.000	
	4								
	5								
	1	0.507	0.896	82.85	16.34	1.00	16.34	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.480	0.847	82.85	19.17	1.00	19.17	0.000	
	4								
	5								
	1	0.566	0.917	84.17	17.18	1.00	17.18	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.537	0.869	84.17	22.76	1.00	22.76	0.000	
	4								
	5								
	1	0.518	0.918	84.08	17.27	1.00	17.27	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.490	0.864	84.08	22.57	1.00	22.57	0.000	
	4								
	5								
	1	0.584	0.952	83.84	16.90	1.00	16.90	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.553	0.905	83.84	22.13	1.00	22.13	0.000	
	4								
	5								
	1	0.549	0.878	84.40	17.95	1.00	17.95	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.521	0.831	84.40	23.50	1.00	23.50	0.000	
	4								
	5								
	1	0.563	0.932	83.77	17.06	1.00	17.06	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.533	0.879	83.77	22.21	1.00	22.21	0.000	
	4								
	5								

PERFORMANCE DATA									
OPERATIONAL DATA									
Date	Reactor	Total Product. (MG)	Max. Flow Rate (MGD)	Min UV Trans. (%)	Minimum Meas'd UV Dose (mJ/cm ²)	Sensor CF	Adjusted Minimum UV Dose (mJ/cm ²)	Total Off-Spec Product. (MG)	Consec. Off-Spec Hours (hr)
	1	0.499	0.955	83.67	16.85	1.00	16.85	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.473	0.910	83.67	18.86	1.00	18.86	0.000	
	4								
	5								
	1	0.066	0.940	83.20	16.38	1.00	16.38	0.000	0.000
	2	0.578	1.050	83.20	15.74	1.00	15.74	0.000	
	3	0.450	0.882	83.20	19.02	1.00	19.02	0.000	
	4								
	5								
	1	X	X	X	X	X	X	X	0.000
	2	0.610	1.039	83.72	15.56	1.00	15.56	0.000	
	3	0.412	0.722	83.72	25.43	1.00	25.43	0.000	
	4								
	5								
	1	X	X	X	X	X	X	X	0.000
	2	0.578	1.034	83.38	15.89	1.00	15.89	0.000	
	3	0.390	0.692	83.38	19.88	1.00	19.88	0.000	
	4								
	5								
	1	X	X	X	X	X	X	X	0.25
	2	0.619	0.880	82.17	0.00	1.00	0.00	0.009	
	3	0.417	0.597	82.17	24.72	1.00	24.72	0.000	
	4								
	5								
	1	X	X	X	X	X	X	X	0.25
	2	0.635	0.947	82.07	0.00	1.00	0.00	0.011	
	3	0.428	0.636	82.07	26.28	1.00	26.28	0.000	
	4								
	5								
	1	X	X	X	X	X	X	X	0.000
	2	0.594	0.859	82.31	17.65	1.00	17.65	0.000	
	3	0.402	0.585	82.31	26.04	1.00	26.04	0.000	
	4								
	5								
	1	X	X	X	X	X	X	X	0.000
	2	0.607	0.856	82.32	17.78	1.00	17.78	0.000	
	3	0.411	0.581	82.32	25.22	1.00	25.22	0.000	
	4								
	5								

SUBMITTED BY: Victor Vasquez Certificate No. and Grade: WS0014837, C Date: September 10, 2024

UV MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
UV Calculated Dose Approach Reactors (cont.)

PUBLIC WATER SYSTEM NAME: Webb County Water Utilities
PWS ID No.: 2400022 Plant ID No.: 20831

PLANT NAME OR NUMBER: Rio Bravo
Month: August Year: 2024

TRUE

VALIDATED OPERATIONAL CONDITIONS

VALIDATED PARAMETERS						PERFORMANCE REQUIREMENTS	
Parameters	Reactor Number					Crypto Log Inactivation	Required UV Dose (mJ/cm ²)
	UVC1	UVC2	UVC3	UVC4	UVC5		
Max Validated Flow Rate (MGD)	5.080	5.080	5.080			1.0	2.50
Min Validated UVT (%)	69.20	69.20	69.20				

PERFORMANCE DATA

Date	OPERATIONAL DATA								
	Reactor	Total Product. (MG)	Max. Flow Rate (MGD)	Min UV Trans. (%)	Minimum Meas'd UV Dose (mJ/cm ²)	Sensor CF	Adjusted Minimum UV Dose (mJ/cm ²)	Total Off-Spec Product. (MG)	Consec. Off-Spec Hours (hr)
17	1	0.474	0.779	81.94	18.21	1.00	18.21	0.000	0.000
	2	0.069	0.845	81.94	18.09	1.00	18.09	0.000	
	3	0.497	0.748	81.94	23.56	1.00	23.56	0.000	
	4								
	5								
18	1	0.580	0.742	81.58	18.58	1.00	18.58	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.531	0.715	81.58	24.17	1.00	24.17	0.000	
	4								
	5								
19	1	0.519	0.756	81.81	18.39	1.00	18.39	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.492	0.712	81.81	23.79	1.00	23.79	0.000	
	4								
	5								
20	1	0.589	0.742	81.70	18.11	1.00	18.11	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.558	0.741	81.70	23.51	1.00	23.51	0.000	
	4								
	5								
21	1	0.596	0.713	81.68	22.10	1.00	22.10	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.585	0.678	81.68	25.13	1.00	25.13	0.000	
	4								
	5								
22	1	0.557	0.732	81.80	18.57	1.00	18.57	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.529	0.692	81.80	24.17	1.00	24.17	0.000	
	4								
	5								
23	1	0.568	0.724	81.21	18.80	1.00	18.80	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.538	0.679	81.21	24.68	1.00	24.68	0.000	
	4								
	5								
24	1	X	X	X	X	X	X	X	0.000
	2	0.566	0.917	81.10	16.34	1.00	16.34	0.000	
	3	0.466	0.626	81.10	25.48	1.00	25.48	0.000	
	4								
	5								

PERFORMANCE DATA

Date	OPERATIONAL DATA								
	Reactor	Total Product. (MG)	Max. Flow Rate (MGD)	Min UV Trans. (%)	Minimum Meas'd UV Dose (mJ/cm ²)	Sensor CF	Adjusted Minimum UV Dose (mJ/cm ²)	Total Off-Spec Product. (MG)	Consec. Off-Spec Hours (hr)
25	1	X	X	X	X	X	X	X	0.000
	2	0.677	0.893	81.22	16.36	1.00	16.36	0.000	
	3	0.461	0.611	81.22	25.37	1.00	25.37	0.000	
	4								
	5								
26	1	X	X	X	X	X	X	X	0.000
	2	0.642	0.847	81.37	17.00	1.00	17.00	0.000	
	3	0.440	0.576	81.37	26.37	1.00	26.37	0.000	
	4								
	5								
27	1	X	X	X	X	X	X	X	0.000
	2	0.586	0.927	81.18	15.68	1.00	15.68	0.000	
	3	0.400	0.614	81.18	25.61	1.00	25.61	0.000	
	4								
	5								
28	1	X	X	X	X	X	X	X	0.25
	2	0.546	0.797	81.08	0.00	1.00	0.00	0.008	
	3	0.372	0.545	81.08	25.81	1.00	25.81	0.000	
	4								
	5								
29	1	X	X	X	X	X	X	X	0.000
	2	0.545	0.826	80.83	15.29	1.00	15.29	0.000	
	3	0.372	0.561	80.83	24.41	1.00	24.41	0.000	
	4								
	5								
30	1	X	X	X	X	X	X	X	0.000
	2	0.587	0.819	80.05	16.02	1.00	16.02	0.000	
	3	0.401	0.564	80.05	25.28	1.00	25.28	0.000	
	4								
	5								
31	1	X	X	X	X	X	X	X	0.000
	2	0.575	0.849	80.40	13.70	1.00	13.70	0.000	
	3	0.393	0.584	80.40	24.19	1.00	24.19	0.000	
	4								
	5								

SUBMITTED BY: Victor Vasquez

Certificate No. and Grade: WS0014837, C Date: September 10, 2024

UV MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
UV Calculated Dose Approach - Daily Minimum Inactivation Summary Page

PUBLIC WATER SYSTEM NAME: Webb County Water Utilities
PWS ID No.: 2400022 Plant ID No.: 20831

PLANT NAME OR NUMBER: Rio Bravo
Month: August Year: 2024

DAILY MINIMUM INACTIVATION											
Reactor Range	SUMMARY DATA					Reactor Range	SUMMARY DATA				
	Date	Min Dose (mJ/cm ²)	Inactivation Credit Achieved				Date	Min Dose (mJ/cm ²)	Min Inactivation		
			Giardia Log	Virus Log	Crypto Log				Giardia Log	Virus Log	Crypto Log
1 to 3	1	14.23	3.40	0.00	1.00	1 to 3	9	16.85	3.63	0.00	1.00
	2	16.70	3.62	0.00	1.00		10	15.74	3.55	0.00	1.00
	3	16.34	3.60	0.00	1.00		11	15.56	3.54	0.00	1.00
	4	17.18	3.66	0.00	1.00		12	15.89	3.56	0.00	1.00
	5	17.27	3.66	0.00	1.00		13	0.00*	1.00	0.00	1.00
	6	16.90	3.64	0.00	1.00		14	0.00*	1.00	0.00	1.00
	7	17.95	3.71	0.00	1.00		15	17.65	3.69	0.00	1.00
	8	17.06	3.65	0.00	1.00		16	17.78	3.70	0.00	1.00

DAILY MINIMUM INACTIVATION											
Reactor Range	SUMMARY DATA					Reactor Range	SUMMARY DATA				
	Date	Min Dose (mJ/cm ²)	Min Inactivation				Date	Min Dose (mJ/cm ²)	Min Inactivation		
			Giardia Log	Virus Log	Crypto Log				Giardia Log	Virus Log	Crypto Log
1 to 3	17	18.09	3.72	0.00	1.00	1 to 3	25	16.36	3.60	0.00	1.00
	18	18.58	3.76	0.00	1.00		26	17.00	3.64	0.00	1.00
	19	18.39	3.74	0.00	1.00		27	15.68	3.55	0.00	1.00
	20	18.11	3.72	0.00	1.00		28	0.00*	1.00	0.00	1.00
	21	22.10	4.00	0.00	1.00		29	15.29	3.52	0.00	1.00
	22	18.57	3.75	0.00	1.00		30	16.02	3.57	0.00	1.00
	23	18.80	3.77	0.00	1.00		31	13.70	3.34	0.00	1.00
	24	16.34	3.60	0.00	1.00						

Total volume of water treated by all CDA reactors: 32.40 MG
 Total volume of off-spec water produced by all CDA reactors: 0.03 MG
 Percentage of off-spec water produced by all CDA reactors: 0.08 %
 Crypto Log-Inactivation Credit for treatment by CDA reactors: 1.00 log

Raw water pumpage and total production by all UV reactors differ by more than 15% on these days: 12, 19, 24,

SUBMITTED BY: Victor Vasquez

Certificate No. and Grade: WS0014837, C Date: September 10, 2024

UV MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
UV Sensor Calibration for Calculated Dose Reactors

PUBLIC WATER SYSTEM NAME: Webb County Water Utilities
PWS ID No.: 2400022 Plant ID No.: 20831

PLANT NAME OR NUMBER: Rio Bravo
Month: August Year: 2024

CALIBRATION DATA									
CDA Reactor Number	UV Sensor Calibration Report for Calculated Dose Reactors								
	Calibration Date and Data	Duty Sensor	Duty Sensor Serial #	Ref Sensor Serial #	Duty Sensor Reading (mJ/cm ²)	Ref Sensor Reading (mJ/cm ²)	Cal Ratio	Duty Sensor Replaced?	Calculated Sensor CF
UVCD No. 1	Previous Month's Sensor CF	1	92	11	45.80	45.00	1.02	NA	1.00
		2							
		3							
	1.00	4							
	Calibration Date	5							
		6							
	8/1/24	7							
	New Sensor CF	8							
		9							
	1.00	10							
UVCD No. 2	Previous Month's Sensor CF	1	38	11	53.70	51.10	1.05		1.00
		2							
		3							
	1.00	4							
	Calibration Date	5							
		6							
	8/1/24	7							
	New Sensor CF	8							
		9							
	1.00	10							
UVCD No. 3	Previous Month's Sensor CF	1	44	11	52.00	54.90	0.95	NA	1.00
		2							
		3							
	1.00	4							
	Calibration Date	5							
		6							
	8/1/24	7							
	New Sensor CF	8							
		9							
	1.00	10							
UVCD No. 4	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 5	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							

CALIBRATION DATA									
CDA Reactor Number	UV Sensor Calibration Report for Calculated Dose Reactors								
	Calibration Date	Duty Sensor	Duty Sensor Serial #	Ref Sensor Serial #	Duty Sensor Reading (mJ/cm ²)	Ref Sensor Reading (mJ/cm ²)	Cal Ratio	Duty Sensor Replaced?	Calculated Sensor CF
UVCD No. 6	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 7	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 8	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 9	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 10	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							

SUBMITTED BY: Victor Vasquez

Certificate No. and Grade: WS0014837, C

Date: September 10, 2024

UV MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
UV Sensor Calibration for Calculated Dose Reactors (cont.)

PUBLIC WATER SYSTEM NAME: Webb County Water Utilities
 PWS ID No.: 2400022 Plant ID No.: 20831

PLANT NAME OR NUMBER: Rio Bravo
 Month: August Year: 2024

CALIBRATION DATA									
CDA Reactor Number	UV Sensor Calibration Report for Calculated Dose Reactors								
	Calibration Date	Duty Sensor	Duty Sensor Serial #	Ref Sensor Serial #	Duty Sensor Reading (mJ/cm ²)	Ref Sensor Reading (mJ/cm ²)	Cal Ratio	Duty Sensor Replaced?	Calculated Sensor CF
UVCD No. 11	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 12	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 13	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 14	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 15	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							

CALIBRATION DATA									
CDA Reactor Number	UV Sensor Calibration Report for Calculated Dose Reactors								
	Calibration Date	Duty Sensor	Duty Sensor Serial #	Ref Sensor Serial #	Duty Sensor Reading (mJ/cm ²)	Ref Sensor Reading (mJ/cm ²)	Cal Ratio	Duty Sensor Replaced?	Calculated Sensor CF
UVCD No. 16	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 17	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 18	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 19	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 20	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							

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UV MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)

UVT Analyzer Calibration

PUBLIC WATER
SYSTEM NAME: Webb County Water Utilities

PLANT NAME
OR NUMBER: Rio Bravo

PWS ID No.: 2400022

Plant ID No.: 20831

Month: August

Year: 2024

CALIBRATION DATA									CALIBRATION DATA								
UVT Analyzer Number	Benchtop UVT Analyzer Serial Number: UVT-08-P0108955								UVT Analyzer Number	Benchtop UVT Analyzer Serial Number: UVT-08-P0108955							
	Week	Calibration Date	On-line UVT Analyzer Serial #	On-line Reading (% UVT)	Grab Sample Reading (% UVT)	Difference (% UVT)	Recalibration Performed? (if Diff > 2%)	Other Action Taken		Week	Calibration Date	On-line UVT Analyzer Serial #	On-line Reading (% UVT)	Grab Sample Reading (% UVT)	Difference (% UVT)	Recalibration Performed? (if Diff > 2%)	Other Action Taken
UVT No. 1	1	8/1/24	90422	90.60	90.10	0.50	NA	NA	UVT No. 11	1							
	2	8/5/24	90422	90.50	90.70	0.20	NA	NA		2							
	3	8/12/24	90422	88.60	88.90	0.30	NA	NA		3							
	4	8/19/24	90422	88.00	89.16	1.16	NA	NA		4							
	5	8/26/24	90422	87.40	88.20	0.80	NA	NA		5							
UVT No. 2	1								UVT No. 12	1							
	2									2							
	3									3							
	4									4							
	5									5							
UVT No. 3	1								UVT No. 13	1							
	2									2							
	3									3							
	4									4							
	5									5							
UVT No. 4	1								UVT No. 14	1							
	2									2							
	3									3							
	4									4							
	5									5							
UVT No. 5	1								UVT No. 15	1							
	2									2							
	3									3							
	4									4							
	5									5							
UVT No. 6	1								UVT No. 16	1							
	2									2							
	3									3							
	4									4							
	5									5							
UVT No. 7	1								UVT No. 17	1							
	2									2							
	3									3							
	4									4							
	5									5							
UVT No. 8	1								UVT No. 18	1							
	2									2							
	3									3							
	4									4							
	5									5							
UVT No. 9	1								UVT No. 19	1							
	2									2							
	3									3							
	4									4							
	5									5							
UVT No. 10	1								UVT No. 20	1							
	2									2							
	3									3							
	4									4							
	5									5							

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Date: September 10, 2024

SURFACE WATER MONTHLY OPERATING REPORT
 FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
 OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
 LTZESWTR Summary Page

PUBLIC WATER SYSTEM NAME: Webb County Water Utilities PLANT NAME: Rio Bravo
 PWS ID No.: 2400022 Plant ID No.: 20831 Month: August Year: 2024
 OR NUMBER: _____

Note: Indicate the treatment processes in each train. (see comment)	TREATMENT TECHNOLOGIES														OTHER TREATMENT CREDITS		
	PRETREATMENT CREDITS				FILTRATION TECHNOLOGY CREDITS						ENHANCED PERFORMANCE CREDITS		DISINFECTION TECHNOLOGY CREDITS			OTHER TREATMENT CREDITS	
	Riverbank Filtration	Prased. with Coagul.	Two-stage Lime Softening	Conventional Sedimentation or Clarification	Conventional Granular Media Filters	Bag or Cartridge Filtration	Two-Stage Filtration	Membrane Filtration (PBT)	Membrane Filtration (QBT)	Membrane Filtration (MBT)	Enhanced CFE Perform.	Optimized IFE Perform.	Crypto Chemical Disinfect.	UV Disinfect (ISA)	UV Disinfect. (CDA)	Watershed Protection	Perform. Demon.
Overall	FALSE	FALSE	FALSE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE
Train 1				TRUE	TRUE												
Train 2																	
Train 3																	
Train 4																	
Train 5																	
1					2.50									1.00			
2					2.50									1.00			
3					2.50									1.00			
4					2.50									1.00			
5					2.50									1.00			
6					2.50									1.00			
7					2.50									1.00			
8					2.50									1.00			
9					2.50									1.00			
10					2.50									1.00			
11					2.50									1.00			
12					2.50									1.00			
13					2.50									1.00			
14					2.50									1.00			
15					2.50									1.00			
16				0.50	2.50									1.00			
17					2.50									1.00			
18					2.50									1.00			
19					2.50									1.00			
20					2.50									1.00			
21					2.50									1.00			
22					2.50									1.00			
23					2.50									1.00			
24					2.50									1.00			
25					2.50									1.00			
26					2.50									1.00			
27					2.50									1.00			
28					2.50									1.00			
29					2.50									1.00			
30					2.50									1.00			
31					2.50									1.00			
MIN				0.5	2.5									0.5			1.00

SURFACE WATER MONTHLY OPERATING REPORT
 FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
 OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
 LT2ESWTR Summary Page (cont)

PUBLIC WATER SYSTEM NAME: Webb County Water Utilities Plant ID No.: 20831 Plant Name: Rio Bravo OR NUMBER: 20831 Month: August Year: 2024

	GIARDIA AND CRYPTOSPORIDIUM TREATMENT CREDITS					GIARDIA INACTIVATION CREDITS					VIRAL INACTIVATION CREDITS								
	Total Daily Credit By Train					Total Daily Bin 3 & 4 Credit by Train					Total Daily Inactivation Credit By Train								
	TRUE	FALSE	FALSE	FALSE	Minimum	TRUE	FALSE	FALSE	FALSE	Minimum	TRUE	FALSE	FALSE	FALSE	Minimum	TRUE	FALSE	FALSE	Minimum
Overall																			
Train 1	4.50				4.50	1.00				1.00	6.89				6.89	70.45			70.45
Train 2	4.50				4.50	1.00				1.00	7.11				7.11	55.95			55.95
Train 3	4.50				4.50	1.00				1.00	6.65				6.65	57.12			57.12
Train 4	4.50				4.50	1.00				1.00	6.89				6.89	59.27			59.27
Train 5	4.50				4.50	1.00				1.00	7.37				7.37	72.66			72.66
6	4.50				4.50	1.00				1.00	7.37				7.37	89.73			89.73
7	4.50				4.50	1.00				1.00	7.14				7.14	68.84			68.84
8	4.50				4.50	1.00				1.00	6.35				6.35	47.83			47.83
9	4.50				4.50	1.00				1.00	7.19				7.19	65.42			65.42
10	4.50				4.50	1.00				1.00	7.51				7.51	83.15			83.15
11	4.50				4.50	1.00				1.00	5.67				5.67	31.46			31.46
12	4.50				4.50	1.00				1.00	8.28				8.28	98.42			98.42
13	4.50				4.50	1.00				1.00	4.72				4.72	69.85			69.85
14	4.50				4.50	1.00				1.00	6.92				6.92	120.98			120.98
15	4.50				4.50	1.00				1.00	7.95				7.95	81.83			81.83
16	4.50				4.50	1.00				1.00	10.00				10.00	129.29			129.29
17	4.50				4.50	1.00				1.00	8.77				8.77	94.74			94.74
18	4.50				4.50	1.00				1.00	7.76				7.76	69.67			69.67
19	4.50				4.50	1.00				1.00	6.48				6.48	41.59			41.59
20	4.50				4.50	1.00				1.00	7.10				7.10	59.02			59.02
21	4.50				4.50	1.00				1.00	7.48				7.48	60.79			60.79
22	4.50				4.50	1.00				1.00	7.26				7.26	59.34			59.34
23	4.50				4.50	1.00				1.00	7.73				7.73	70.41			70.41
24	4.50				4.50	1.00				1.00	8.68				8.68	97.20			97.20
25	4.50				4.50	1.00				1.00	7.64				7.64	73.96			73.96
26	4.50				4.50	1.00				1.00	7.73				7.73	74.19			74.19
27	4.50				4.50	1.00				1.00	7.39				7.39	70.75			70.75
28	4.50				4.50	1.00				1.00	4.36				4.36	55.90			55.90
29	4.50				4.50	1.00				1.00	6.34				6.34	43.71			43.71
30	4.50				4.50	1.00				1.00	5.70				5.70	29.52			29.52
31	4.50				4.50	1.00				1.00	8.14				8.14	89.85			89.85
MIN	4.50				4.50	1.00				1.00	4.36				4.36	29.52			29.52
AVG	4.50				4.50	1.00				1.00	7.18				7.18	70.09			70.09
MAX	4.50				4.50	1.00				1.00	10.00				10.00	129.29			129.29