

# 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: Addio Vasquez

Report for  
the Month of: October 2024

Certificate No. & Grade: W00055462, A

Date: November 10, 2024

TREATMENT PLANT PERFORMANCE			
Total number of turbidity readings:	136	Number of 4-hour periods when plant was off-line:	60
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:	7.40
Number of days with low inactivation (including UV) for more than 4.0 consecutive hours:	0 (4)	Average log inactivation (including UV) for viruses:	78.90
		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:	7.06
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:	0.00
		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:	46 (at least 31 required) (8)	Percentage of readings with a low residual this month:	0.0 % (6A)
Average disinfectant residual value:	2.62	Percentage of readings with a low residual last month:	0.0 % (6B)
Number of readings with a low residual:	0		
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:	<input checked="" type="radio"/> NONE	<input type="radio"/> Filter Profile	<input type="radio"/> Filter Assessment	<input type="radio"/> CPF
Additional report(s) for individual filter monitoring submitted:	<input checked="" type="radio"/> NONE	<input type="radio"/> Filter Profile (9)	<input type="radio"/> Filter Assessment (10)	<input type="radio"/> 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	Maximum turbidity reading:	4.53 NTU	Average turbidity value:	1.55 NTU
	Summary	Minimum turbidity reading:	1.05 NTU	Standard deviation:	0.895 NTU
		95 <sup>th</sup> percentile value:	3.53 NTU		
IFE	Stastical	Maximum IFE turbidity reading:	0.19 NTU	Average IFE turbidity value:	0.08 NTU
	Summary	Minimum IFE turbidity reading:	0.05 NTU	Standard deviation:	0.018 NTU
		95 <sup>th</sup> percentile IFE value:	0.11 NTU		
CFE	Stastical	Maximum CFE turbidity reading:	0.10 NTU	Average CFE turbidity value:	0.07 NTU
	Summary	Minimum CFE turbidity reading:	0.05 NTU	Standard deviation:	0.009 NTU
		95 <sup>th</sup> percentile CFE value:	0.08 NTU		
STATISTICAL ANALYSIS OF pH DATA					
Last Zone pH	Stastical	Maximum pH reading:	7.80 pH	Average pH value:	7.23 pH
	Summary	Minimum pH reading:	7.06 pH	Standard deviation:	0.148 pH
		95 <sup>th</sup> percentile value:	7.48 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: 1,982

Month: October Year: 2024 Population: 6,937

PERFORMANCE DATA																			
Date	Raw Water Pumpage (MGD)	Treated Water Pumpage (MGD)	RAW WATER ANALYSES		SETTLED WATER TURBIDITY (Optional Data)						FINISHED WATER QUALITY								
			NTU	Aik.	Basin No.						Combined Filter Effluent Turbidity						Lowest Residual	Time <sup>h</sup>	
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6			
1	1.037	0.875	51	100	1.1	1.2						X	0.06	0.06	0.07	0.07	0.07	2.2	
2	1.024	0.872	62	100	1.1	1.2						X	X	0.07	0.07	0.07	0.08	2.8	
3	0.878	0.776	62	100	1.1	1.2						X	X	0.06	0.07	0.07	0.07	3.3	
4	0.956	0.873	70	100	1.1	1.2						X	X	0.05	0.05	0.05	0.06	2.7	
5	0.852	0.786	66	100	1.1	1.2						X	X	0.06	0.10	0.07	0.07	3.0	
6	0.834	0.745	71	100	1.1	1.2						X	X	0.07	0.06	0.06	0.07	3.0	
7	0.996	0.850	28	100	1.1	1.1						X	X	0.08	0.07	0.06	0.07	2.8	
8	0.921	0.842	42	120	1.1	1.1						X	X	0.06	0.06	0.06	0.07	2.2	
9	0.919	0.824	29	120	1.1	1.1						X	X	0.07	0.06	0.06	0.07	2.2	
10	0.970	0.903	41	100	1.1	1.2						X	X	0.07	0.06	0.06	0.07	3.1	
11	0.953	0.869	40	100	1.2	1.2						X	X	0.06	0.06	0.06	0.07	2.3	
12	0.971	0.882	41	100	1.1	1.3						X	0.07	0.06	0.06	0.07	0.07	2.5	
13	0.971	0.841	38	100	1.1	1.3						X	X	0.06	0.06	0.06	0.07	2.5	
14	1.071	0.942	59	100	1.1	1.3						X	0.08	0.06	0.06	0.06	0.05	3.3	
15	1.021	0.914	67	100	1.1	1.3						0.05	X	0.07	0.06	0.06	0.07	3.0	
16	1.017	0.911	36	100	1.1	1.2						X	X	0.07	0.06	0.07	0.07	3.2	
17	0.952	0.874	40	100	1.1	1.2						X	X	0.07	0.07	0.07	0.07	2.6	
18	0.963	0.927	43	100	1.1	1.2						X	X	0.08	0.07	0.07	0.07	2.4	
19	0.941	0.869	54	100	1.1	1.2						X	X	0.08	0.07	0.07	0.07	3.0	
20	0.924	0.862	54	100	1.1	1.2						X	X	0.08	0.07	0.07	0.07	2.4	
21	0.937	0.893	29	120	1.1	1.3						X	X	0.07	0.07	0.07	0.08	2.9	
22	0.916	0.842	35	100	1.1	1.1						X	X	0.07	0.06	0.06	0.07	3.1	
23	0.936	0.903	43	100	1.1	1.2						X	X	0.07	0.07	0.07	0.08	1.9	
24	1.047	0.951	38	100	1.1	2.0						X	0.05	0.09	0.08	0.09	0.08	1.8	
25	1.108	0.940	46	100	1.1	1.3						X	X	0.06	0.06	0.06	0.06	2.6	
26	1.016	1.045	54	100	3.0	3.6						0.07	0.06	0.06	0.06	0.06	0.07	2.0	
27	1.030	1.014	48	100	4.5	4.3						X	0.06	0.06	0.06	0.06	0.06	2.7	
28	1.047	1.023	34	100	2.7	3.0						X	0.06	0.06	0.06	0.06	0.06	3.2	
29	0.987	0.914	34	100	2.9	2.9						0.06	X	0.08	0.08	0.08	0.09	2.5	
30	1.039	0.967	39	100	2.8	4.5						X	0.09	0.08	0.07	0.07	0.07	3.5	
31	1.014	0.910	29	100	1.6	2.8						0.07	X	0.07	0.07	0.07	0.07	3.2	
Total	30.250	27.639			Max	4.5	4.5												
Avg	0.976	0.892			Avg	1.4	1.7												
Max	1.108	1.045			95th %	2.9	3.9												
Min	0.834	0.745			Min	1.1	1.1												
											95th percentile based on data from all basins						3.5		

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.

SUBMITTED BY: Adelio V. Certificate No. and Grade: WO0055462, A Date: November 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  
PWS ID No.: 2400022 Plant ID No.: 20831

PLANT NAME  
OR NUMBER: Rio Bravo  
Month: October 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	0.08		0.07		0.07		0.07												
2	0.07		0.06		0.07		0.07													
3	0.08		0.08		0.07		0.07													
4	0.08		0.09		0.07		0.07													
5	0.08		0.12		0.06		0.07													
6	0.08		0.07		0.07		0.07													
7	0.09		0.06		0.07		0.07													
8	0.09		0.07		0.07		0.07													
9	0.08		0.07		0.08		0.07													
10	0.08		0.07		0.08		0.07													
11	0.09		0.07		0.08		0.07													
12	0.08		0.07		0.08		0.07													
13	0.14		0.07		0.08		0.07													
14	0.09		0.08		0.08		0.08													
15	0.07		0.08		0.07		0.07													
16	0.07		0.08		0.06		0.07													
17	0.07		0.09		0.07		0.11													
18	0.07		0.07		0.07		0.07													
19	0.05		0.08		0.07		0.11													
20	0.05		0.08		0.07		0.08													
21	0.09		0.09		0.09		0.08													
22	0.09		0.08		0.07		0.16													
23	0.09		0.08		0.07		0.09													
24	0.08		0.09		0.10		0.10													
25	0.08		0.07		0.09		0.09													
26	0.07		0.07		0.10		0.09													
27	0.06		0.07		0.07		0.08													
28	0.07		0.08		0.07		0.08													
29	0.09		0.07		0.07		0.08													
30	0.09		0.06		0.08		0.10													
31	0.19		0.07		0.08		0.14													

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: Adelle V. Certificate No. and Grade: WO0055462, A Date: November 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: October 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 <sub>10</sub> (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 <sub>10</sub>
1	FCL D1A	1.2	0.774	27.9	7.1				
	FCL D1B	1.3	0.774	27.7	7.1				
	FCL D2	0.9	0.387	27.3	7.2	5.10	113.03	10.19	
	CLA D3	3.5	0.774	27.3	7.1			(G)	
	D4								
2	FCL D1A	1.1	0.771	26.4	7.2				
	FCL D1B	1.3	0.771	26.1	7.2				
	FCL D2	0.7	0.386	25.7	7.3	4.12	85.71	8.24	
	CLA D3	3.7	0.771	25.9	7.3			(G)	
	D4								
3	FCL D1A	1.1	0.753	26.4	7.1				
	FCL D1B	1.3	0.753	25.8	7.1				
	FCL D2	0.3	0.377	26.0	7.2	3.29	60.39	6.58	
	CLA D3	3.5	0.753	26.0	7.2			(G)	
	D4								
4	FCL D1A	0.7	0.719	25.9	7.1				
	FCL D1B	0.8	0.719	26.3	7.1				
	FCL D2	0.5	0.360	26.4	7.2	3.49	61.24	6.99	
	CLA D3	3.7	0.719	25.8	7.1			(G)	
	D4								
5	FCL D1A	0.9	0.732	26.9	7.1				
	FCL D1B	1.0	0.732	27.0	7.0				
	FCL D2	0.8	0.366	26.8	7.3	4.45	96.65	8.91	
	CLA D3	3.0	0.732	26.8	7.1			(G)	
	D4								
6	FCL D1A	0.8	0.734	25.8	7.1				
	FCL D1B	1.0	0.734	26.3	7.0				
	FCL D2	0.2	0.367	25.9	7.2	2.75	46.69	5.51	
	CLA D3	3.2	0.734	25.5	7.2			(G)	
	D4								
7	FCL D1A	0.3	0.748	26.8	6.9				
	FCL D1B	0.4	0.748	26.9	6.7				
	FCL D2	0.4	0.374	26.5	7.0	2.80	44.08	5.59	
	CLA D3	3.3	0.748	24.7	7.1			(G)	
	D4								
8	FCL D1A	1.0	0.734	26.2	7.2				
	FCL D1B	1.2	0.734	25.8	7.3				
	FCL D2	1.2	0.367	26.0	7.3	5.49	130.35	10.98	
	CLA D3	3.4	0.734	25.9	7.2			(G)	
	D4								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time <sub>10</sub>
9	FCL D1A	0.7	0.717	25.9	7.1				
	FCL D1B	0.8	0.717	26.0	7.1				
	FCL D2	0.5	0.359	26.3	7.2	3.60	64.09	7.21	
	CLA D3	3.7	0.717	25.5	7.2			(G)	
	D4								
10	FCL D1A	0.9	0.721	26.0	7.2				
	FCL D1B	0.9	0.721	26.3	7.1				
	FCL D2	0.9	0.361	25.9	7.3	4.60	100.16	9.20	
	CLA D3	3.4	0.721	25.3	7.2			(G)	
	D4								
11	FCL D1A	0.9	0.740	26.0	7.2				
	FCL D1B	1.0	0.740	25.4	7.2				
	FCL D2	1.0	0.370	26.2	7.2	4.81	104.79	9.62	
	CLA D3	3.5	0.740	24.9	7.3			(G)	
	D4								
12	FCL D1A	0.5	0.743	24.9	7.2				
	FCL D1B	0.6	0.743	25.0	7.3				
	FCL D2	0.9	0.372	24.9	7.3	3.93	81.54	7.85	
	CLA D3	3.6	0.743	24.8	7.3			(G)	
	D4								
13	FCL D1A	0.8	0.755	25.5	7.3				
	FCL D1B	0.9	0.755	25.8	7.3				
	FCL D2	1.0	0.378	25.7	7.4	4.39	98.37	8.77	
	CLA D3	3.5	0.755	24.9	7.3			(G)	
	D4								
14	FCL D1A	1.0	0.721	26.0	7.2				
	FCL D1B	1.1	0.721	25.8	7.1				
	FCL D2	1.1	0.361	25.1	7.4	5.20	115.34	10.40	
	CLA D3	4.0	0.721	26.3	7.2			(G)	
	D4								
15	FCL D1A	0.8	0.713	25.4	7.3				
	FCL D1B	0.8	0.713	25.6	7.1				
	FCL D2	0.9	0.356	25.8	7.2	4.77	99.77	9.54	
	CLA D3	3.8	0.713	24.4	7.3			(G)	
	D4								
16	FCL D1A	0.5	0.716	25.3	7.1				
	FCL D1B	0.8	0.716	24.7	7.2				
	FCL D2	0.6	0.358	25.3	7.1	3.54	64.78	7.09	
	CLA D3	3.3	0.716	25.0	7.3			(G)	
	D4								

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

SUBMITTED BY: Adelio V. Certificate No. WO0055462, A and Grade: WO0055462, A Date: November 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 (cont.)

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

PLANT NAME OR NUMBER: Rio Bravo  
Month: October 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 <sub>10</sub> (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 <sup>a</sup>
17	FCL D1A	1.0	0.728	24.1	6.9				
	FCL D1B	1.2	0.728	24.3	7.0				
	FCL D2	0.8	0.364	25.3	7.1	4.60	92.08	9.21	
	CLA D3	3.6	0.728	24.6	7.2			(G)	
	D4								
18	FCL D1A	0.8	0.728	23.6	7.1				
	FCL D1B	0.9	0.728	24.1	7.0				
	FCL D2	0.6	0.364	23.8	7.2	3.38	63.38	6.77	
	CLA D3	3.4	0.728	24.3	7.3			(G)	
	D4								
19	FCL D1A	0.8	0.732	24.8	7.1				
	FCL D1B	0.9	0.732	24.3	7.1				
	FCL D2	0.6	0.366	24.3	7.1	3.58	70.33	7.15	
	CLA D3	3.0	0.732	24.3	7.1			(G)	
	D4								
20	FCL D1A	0.5	0.727	24.2	7.1				
	FCL D1B	0.6	0.727	24.6	7.1				
	FCL D2	0.5	0.364	24.4	7.1	2.20	49.45	4.39	
	CLA D3	3.3	0.727	2.7	7.1			(G)	
	D4								
21	FCL D1A	0.2	0.701	23.6	7.2				
	FCL D1B	0.2	0.701	23.3	7.2				
	FCL D2	0.3	0.350	23.5	7.3	2.20	32.32	4.39	
	CLA D3	3.6	0.701	23.3	7.2			(G)	
	D4								
22	FCL D1A	0.5	0.701	24.0	7.1				
	FCL D1B	0.6	0.701	24.1	7.0				
	FCL D2	0.7	0.351	23.7	7.2	3.68	68.84	7.36	
	CLA D3	3.7	0.701	23.9	7.2			(G)	
	D4								
23	FCL D1A	0.7	0.697	24.9	7.3				
	FCL D1B	0.7	0.697	25.3	7.1				
	FCL D2	0.8	0.348	25.0	7.3	4.16	85.03	8.32	
	CLA D3	3.8	0.697	24.1	7.8			(G)	
	D4								
24	FCL D1A	0.3	0.703	24.7	7.1				
	FCL D1B	0.4	0.703	24.5	7.2				
	FCL D2	0.8	0.352	24.2	7.3	3.48	69.47	6.95	
	CLA D3	3.4	0.703	24.1	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 <sup>a</sup>
25	FCL D1A	0.5	0.720	24.2	7.2				
	FCL D1B	0.5	0.720	24.3	7.2				
	FCL D2	0.6	0.360	24.1	7.4	3.01	59.08	6.02	
	CLA D3	3.1	0.720	24.4	7.1			(G)	
	D4								
26	FCL D1A	0.4	0.723	25.0	7.2				
	FCL D1B	0.5	0.723	25.1	7.1				
	FCL D2	0.8	0.361	24.8	7.2	3.86	75.14	7.73	
	CLA D3	3.6	0.723	25.0	7.3			(G)	
	D4								
27	FCL D1A	0.5	0.709	25.2	7.3				
	FCL D1B	0.5	0.709	24.6	7.3				
	FCL D2	0.9	0.355	25.4	7.3	4.25	85.45	8.50	
	CLA D3	3.9	0.709	25.8	7.5			(G)	
	D4								
28	FCL D1A	1.3	0.693	24.7	7.2				
	FCL D1B	1.5	0.693	25.1	7.2				
	FCL D2	0.9	0.347	24.2	7.2	5.15	111.73	10.31	
	CLA D3	3.8	0.693	24.4	7.2			(G)	
	D4								
29	FCL D1A	0.5	0.703	25.3	7.4				
	FCL D1B	0.6	0.703	25.4	7.3				
	FCL D2	0.9	0.352	25.3	7.5	4.26	87.43	8.52	
	CLA D3	4.4	0.703	24.3	7.4			(G)	
	D4								
30	FCL D1A	0.5	0.713	24.8	7.3				
	FCL D1B	0.4	0.713	25.6	7.2				
	FCL D2	0.6	0.356	25.2	7.4	3.56	64.65	7.12	
	CLA D3	4.0	0.713	25.3	7.3			(G)	
	D4								
31	FCL D1A	0.2	0.715	25.9	7.1				
	FCL D1B	0.3	0.715	25.9	7.0				
	FCL D2	0.7	0.357	25.5	7.3	3.55	64.04	7.11	
	CLA D3	3.8	0.715	25.4	7.2			(G)	
	D4								

Max	5.49	130.35	10.98
Min	2.20	32.32	4.39
Avg	3.91	78.88	7.82
SD	0.83	23.10	1.66

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

SUBMITTED BY: Adalio V. Certificate No. WO0055462, A and Grade: WO0055462, A Date: November 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:** October      **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	10/22	100	4.18	2.99	28.5	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										
<b>Avg</b>		100.00	4.18	2.99	28.47		0.81			0.81
<b>Max</b>		100.00	4.18	2.99	28.47		0.81			0.81
<b>Min</b>		100.00	4.18	2.99	28.47		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	4.18	2.99	28.5	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: Adelio Vasquez      Certificate No. and Grade: WO0055462, A      Date: November 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: October Year: 2024

VALIDATED OPERATIONAL CONDITIONS							
VALIDATED PARAMETERS					PERFORMANCE REQUIREMENTS		
Parameters	Reactor Number					Crypto Log Inactivation	Required UV Dose (mJ/cm <sup>2</sup> )
	UVCD1	UVCD2	UVCD3	UVCD4	UVCD5		
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									
OPERATIONAL DATA									
Date	Reactor	Total Product. (MG)	Max. Flow Rate (MGD)	Min UV Trans. (%)	Minimum Meas'd UV Dose (mJ/cm <sup>2</sup> )	Sensor CF	Adjusted Minimum UV Dose (mJ/cm <sup>2</sup> )	Total Off-Spec Product. (MG)	Consec. Off-Spec Hours (hr)
	1	0.494	0.799	80.80	22.17	1.00	22.17	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.469	0.754	80.80	26.42	1.00	26.42	0.000	
	4								
	5								
	1	0.490	0.839	82.52	18.97	1.00	18.97	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.465	0.795	82.52	25.75	1.00	25.75	0.000	
	4								
	5								
	1	0.423	0.898	82.19	23.93	1.00	23.93	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.402	0.848	82.19	26.60	1.00	26.60	0.000	
	4								
	5								
	1	0.458	0.732	82.53	23.98	1.00	23.98	0.000	0.25
	2	0.005	0.819	82.53	0.00	1.00	0.00	0.005	
	3	0.438	0.695	82.53	24.79	1.00	24.79	0.000	
	4								
	5								
	1	0.412	0.845	82.17	18.20	1.00	18.20	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.392	0.805	82.17	24.86	1.00	24.86	0.000	
	4								
	5								
	1	0.407	0.808	81.69	18.19	1.00	18.19	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.386	0.770	81.69	25.33	1.00	25.33	0.000	
	4								
	5								
	1	0.481	0.851	82.02	18.23	1.00	18.23	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.456	0.817	82.02	24.90	1.00	24.90	0.000	
	4								
	5								
	1	0.452	0.825	82.27	18.25	1.00	18.25	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.429	0.773	82.27	25.16	1.00	25.16	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 <sup>2</sup> )	Sensor CF	Adjusted Minimum UV Dose (mJ/cm <sup>2</sup> )	Total Off-Spec Product. (MG)	Consec. Off-Spec Hours (hr)
	1	0.447	0.882	82.09	22.39	1.00	22.39	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.425	0.836	82.09	26.09	1.00	26.09	0.000	
	4								
	5								
	1	0.470	0.716	81.99	23.88	1.00	23.88	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.446	0.674	81.99	26.10	1.00	26.10	0.000	
	4								
	5								
	1	0.458	0.817	82.16	23.61	1.00	23.61	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.435	0.776	82.16	26.53	1.00	26.53	0.000	
	4								
	5								
	1	X	X	X	X	X	X	X	0.000
	2	0.542	0.836	82.27	8.72	1.00	8.72	0.000	
	3	0.372	0.577	82.27	26.43	1.00	26.43	0.000	
	4								
	5								
	1	X	X	X	X	X	X	X	0.000
	2	0.540	0.857	81.95	4.45	1.00	4.45	0.000	
	3	0.369	0.588	81.95	26.11	1.00	26.11	0.000	
	4								
	5								
	1	X	X	X	X	X	X	X	0.000
	2	0.566	0.951	82.11	13.76	1.00	13.76	0.000	
	3	0.387	0.648	82.11	25.49	1.00	25.49	0.000	
	4								
	5								
	1	X	X	X	X	X	X	X	0.000
	2	0.564	0.842	83.27	15.88	1.00	15.88	0.000	
	3	0.387	0.584	83.27	25.71	1.00	25.71	0.000	
	4								
	5								
	1	X	X	X	X	X	X	X	0.000
	2	0.578	0.837	83.13	16.46	1.00	16.46	0.000	
	3	0.396	0.578	83.13	26.25	1.00	26.25	0.000	
	4								
	5								

SUBMITTED BY: Adolfo V. Certificate No. and Grade: WO0055462, A Date: November 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

PLANT NAME  
OR NUMBER:

Rio Bravo

PWS ID No.: 240022

Plant ID No.: 20831

Month: October

Year: 2024

TRUE

## VALIDATED OPERATIONAL CONDITIONS

VALIDATED PARAMETERS						PERFORMANCE REQUIREMENTS	
Parameters	Reactor Number					Crypto Log Inactivation	Required UV Dose (mJ/cm <sup>2</sup> )
	UVCD1	UVCD2	UVCD3	UVCD4	UVCD5		
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

OPERATIONAL DATA									
Date	Reactor	Total Product. (MG)	Max. Flow Rate (MGD)	Min UV Trans. (%)	Minimum Meas'd UV Dose (mJ/cm <sup>2</sup> )	Sensor CF	Adjusted Minimum UV Dose (mJ/cm <sup>2</sup> )	Total Off-Spec Product. (MG)	Consec. Off-Spec Hours (hr)
17	1	0.470	0.612	82.72	22.24	1.00	22.24	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.448	0.762	82.72	26.42	1.00	26.42	0.000	
	4								
	5								
18	1	0.476	0.736	82.76	23.91	1.00	23.91	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.453	0.706	82.76	25.92	1.00	25.92	0.000	
	4								
	5								
19	1	0.465	0.805	82.61	23.20	1.00	23.20	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.442	0.763	82.61	26.45	1.00	26.45	0.000	
	4								
	5								
20	1	0.459	0.751	82.85	23.45	1.00	23.45	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.437	0.707	82.85	26.43	1.00	26.43	0.000	
	4								
	5								
21	1	0.459	0.736	83.20	23.75	1.00	23.75	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.437	0.706	83.20	25.11	1.00	25.11	0.000	
	4								
	5								
22	1	0.451	0.735	83.11	25.23	1.00	25.23	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.428	0.700	83.11	25.51	1.00	25.51	0.000	
	4								
	5								
23	1	0.462	0.734	82.63	25.37	1.00	25.37	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.439	0.718	82.63	26.18	1.00	26.18	0.000	
	4								
	5								
24	1	0.517	0.744	82.99	24.35	1.00	24.35	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.492	0.715	82.99	26.37	1.00	26.37	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 <sup>2</sup> )	Sensor CF	Adjusted Minimum UV Dose (mJ/cm <sup>2</sup> )	Total Off-Spec Product. (MG)	Consec. Off-Spec Hours (hr)
25	1	X	X	X	X	X	X	X	0.000
	2	0.557	0.893	82.82	15.73	1.00	15.73	0.000	
	3	0.379	0.584	82.82	25.95	1.00	25.95	0.000	
	4								
	5								
26	1	X	X	X	X	X	X	X	0.000
	2	0.651	0.964	85.16	15.64	1.00	15.64	0.000	
	3	0.442	0.649	85.16	26.32	1.00	26.32	0.000	
	4								
	5								
27	1	X	X	X	X	X	X	X	0.000
	2	0.591	0.845	84.78	9.16	1.00	9.16	0.000	
	3	0.401	0.576	84.78	26.40	1.00	26.40	0.000	
	4								
	5								
28	1	X	X	X	X	X	X	X	0.000
	2	0.585	0.919	84.81	3.00	1.00	3.00	0.000	
	3	0.398	0.625	84.81	25.66	1.00	25.66	0.000	
	4								
	5								
29	1	X	X	X	X	X	X	X	0.000
	2	0.569	0.833	84.71	4.70	1.00	4.70	0.000	
	3	0.387	0.572	84.71	26.39	1.00	26.39	0.000	
	4								
	5								
30	1	X	X	X	X	X	X	X	0.000
	2	0.591	0.862	84.52	17.26	1.00	17.26	0.000	
	3	0.403	0.593	84.52	26.05	1.00	26.05	0.000	
	4								
	5								
31	1	X	X	X	X	X	X	X	0.000
	2	0.579	0.950	84.59	16.53	1.00	16.53	0.000	
	3	0.395	0.650	84.59	25.71	1.00	25.71	0.000	
	4								
	5								

SUBMITTED BY:

Adriana V.

Certificate No.  
and Grade:

WO0055462, A

Date:

November 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: October Year: 2024

DAILY MINIMUM INACTIVATION											
Reactor Range	SUMMARY DATA					Reactor Range	SUMMARY DATA				
	Date	Min Dose (mJ/cm <sup>2</sup> )	Inactivation Credit Achieved				Date	Min Dose (mJ/cm <sup>2</sup> )	Min Inactivation		
			Giardia Log	Virus Log	Crypto Log				Giardia Log	Virus Log	Crypto Log
1 to 3	1	22.17	4.00	0.00	1.00	1 to 3	9	22.39	4.00	0.00	1.00
	2	18.97	3.78	0.00	1.00		10	23.88	4.00	0.04	1.00
	3	23.93	4.00	0.04	1.00		11	23.61	4.00	0.03	1.00
	4	0.00*	1.00	0.00	1.00		12	8.72	2.65	0.00	1.00
	5	18.20	3.73	0.00	1.00		13	4.45	1.89	0.00	1.00
	6	18.19	3.73	0.00	1.00		14	13.78	3.35	0.00	1.00
	7	18.23	3.73	0.00	1.00		15	15.88	3.58	0.00	1.00
	8	18.25	3.73	0.00	1.00		16	16.46	3.60	0.00	1.00

DAILY MINIMUM INACTIVATION											
Reactor Range	SUMMARY DATA					Reactor Range	SUMMARY DATA				
	Date	Min Dose (mJ/cm <sup>2</sup> )	Min Inactivation				Date	Min Dose (mJ/cm <sup>2</sup> )	Min Inactivation		
			Giardia Log	Virus Log	Crypto Log				Giardia Log	Virus Log	Crypto Log
1 to 3	17	22.24	4.00	0.00	1.00	1 to 3	25	15.73	3.55	0.00	1.00
	18	23.91	4.00	0.04	1.00		26	15.84	3.55	0.00	1.00
	19	23.20	4.00	0.02	1.00		27	9.16	2.72	0.00	1.00
	20	23.45	4.00	0.03	1.00		28	3.00	1.50	0.00	1.00
	21	23.75	4.00	0.04	1.00		29	4.70	1.93	0.00	1.00
	22	25.23	4.00	0.08	1.00		30	17.26	3.66	0.00	1.00
	23	25.37	4.00	0.09	1.00		31	16.53	3.61	0.00	1.00
	24	24.35	4.00	0.06	1.00						

Total volume of water treated by all CDA reactors: 28.70 MG  
 Total volume of off-spec water produced by all CDA reactors: 0.00 MG  
 Percentage of off-spec water produced by all CDA reactors: 0.02 %  
 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: 25,

SUBMITTED BY: Adelle V.

Certificate No. and Grade: WO0055462, A Date: November 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: October 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 <sup>2</sup> )	Ref Sensor Reading (mJ/cm <sup>2</sup> )	Cal Ratio	Duty Sensor Replaced?	Calculated Sensor CF
UVCD No. 1	Previous Month's Sensor CF	1	40	11	50.20	49.80	1.01	NA	1.00
		2							
		3							
	1.00	4							
	Calibration Date	5							
		6							
	10/1/24	7							
	New Sensor CF	8							
		9							
	1.00	10							
UVCD No. 2	Previous Month's Sensor CF	1	38	11	30.50	66.30	0.46		1.00
		2							
		3							
	1.00	4							
	Calibration Date	5							
		6							
	10/1/24	7							
	New Sensor CF	8							
		9							
	1.00	10							
UVCD No. 3	Previous Month's Sensor CF	1	48	11	58.80	57.60	1.02	NA	1.00
		2							
		3							
	1.00	4							
	Calibration Date	5							
		6							
	10/1/24	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 <sup>2</sup> )	Ref Sensor Reading (mJ/cm <sup>2</sup> )	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: Adelio V.

Certificate No. and Grade: W0055462, A

Date: November 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: October 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 <sup>2</sup> )	Ref Sensor Reading (mJ/cm <sup>2</sup> )	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 <sup>2</sup> )	Ref Sensor Reading (mJ/cm <sup>2</sup> )	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								

SUBMITTED BY: Adria V.

Certificate No. and Grade: WQ055462, A

Date: November 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.)  
*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: October

Year: 2024

CALIBRATION DATA								
UVT Analyzer Number	Benchtop UVT Analyzer Serial Number: <u>UVT-08-P0108955</u>							
	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	10/1/24	90422	88.80	89.67	0.87	NA	NA
	2	10/7/24	90422	88.40	89.82	1.42	NA	NA
	3	10/14/24	90422	89.00	89.90	0.90	NA	NA
	4	10/21/24	90422	90.40	90.40	0.00	NA	NA
	5	10/28/24	90422	90.30	91.20	0.90	NA	NA
UVT No. 2	1							
	2							
	3							
	4							
	5							
UVT No. 3	1							
	2							
	3							
	4							
	5							
UVT No. 4	1							
	2							
	3							
	4							
	5							
UVT No. 5	1							
	2							
	3							
	4							
	5							
UVT No. 6	1							
	2							
	3							
	4							
	5							
UVT No. 7	1							
	2							
	3							
	4							
	5							
UVT No. 8	1							
	2							
	3							
	4							
	5							
UVT No. 9	1							
	2							
	3							
	4							
	5							
UVT No. 10	1							
	2							
	3							
	4							
	5							

CALIBRATION DATA								
UVT Analyzer Number	Benchtop UVT Analyzer Serial Number: <u>UVT-08-P0108955</u>							
	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. 11	1							
	2							
	3							
	4							
	5							
UVT No. 12	1							
	2							
	3							
	4							
	5							
UVT No. 13	1							
	2							
	3							
	4							
	5							
UVT No. 14	1							
	2							
	3							
	4							
	5							
UVT No. 15	1							
	2							
	3							
	4							
	5							
UVT No. 16	1							
	2							
	3							
	4							
	5							
UVT No. 17	1							
	2							
	3							
	4							
	5							
UVT No. 18	1							
	2							
	3							
	4							
	5							
UVT No. 19	1							
	2							
	3							
	4							
	5							
UVT No. 20	1							
	2							
	3							
	4							
	5							

SUBMITTED BY: Adria V.

Certificate No. and Grade: WO0055462, A

Date: November 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.)  
 L72ESWTR Summary Page

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

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	TRUE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE
Train 1				TRUE	TRUE						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						0.50			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.)  
 L72ESWTR Summary Page (cont)

PUBLIC WATER SYSTEM NAME: Webb County Water Utilities PLANT NAME: Rio Bravo OR NUMBER: 20831 Year: 2024  
 PWS ID No.: 240022 Plant ID No.: 20831 Month: October

Overall	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
1	4.50				4.50	1.00				1.00	9.10				9.10	113.03			113.03
2	4.50				4.50	1.00				1.00	8.88				8.88	85.71			85.71
3	4.50				4.50	1.00				1.00	7.29				7.29	60.43			60.43
4	4.50				4.50	1.00				1.00	4.49				4.49	61.24			61.24
5	4.50				4.50	1.00				1.00	8.18				8.18	96.65			96.65
6	4.50				4.50	1.00				1.00	6.48				6.48	46.69			46.69
7	4.50				4.50	1.00				1.00	6.53				6.53	44.08			44.08
8	4.50				4.50	1.00				1.00	9.22				9.22	130.35			130.35
9	4.50				4.50	1.00				1.00	7.60				7.60	64.09			64.09
10	4.50				4.50	1.00				1.00	8.60				8.60	100.20			100.20
11	4.50				4.50	1.00				1.00	8.81				8.81	104.82			104.82
12	4.50				4.50	1.00				1.00	6.58				6.58	81.54			81.54
13	4.50				4.50	1.00				1.00	8.27				8.27	98.37			98.37
14	4.50				4.50	1.00				1.00	8.54				8.54	115.34			115.34
15	4.50				4.50	1.00				1.00	8.33				8.33	99.77			99.77
16	4.50				4.50	1.00				1.00	7.15				7.15	64.78			64.78
17	4.50				4.50	1.00				1.00	8.60				8.60	92.08			92.08
18	4.50				4.50	1.00				1.00	7.38				7.38	63.43			63.43
19	4.50				4.50	1.00				1.00	7.58				7.58	70.35			70.35
20	4.50				4.50	1.00				1.00	6.20				6.20	49.48			49.48
21	4.50				4.50	1.00				1.00	6.20				6.20	32.36			32.36
22	4.50				4.50	1.00				1.00	7.68				7.68	68.92			68.92
23	4.50				4.50	1.00				1.00	6.16				6.16	85.12			85.12
24	4.50				4.50	1.00				1.00	7.48				7.48	69.52			69.52
25	4.50				4.50	1.00				1.00	6.56				6.56	59.08			59.08
26	4.50				4.50	1.00				1.00	7.41				7.41	75.14			75.14
27	4.50				4.50	1.00				1.00	6.97				6.97	85.45			85.45
28	4.50				4.50	1.00				1.00	6.65				6.65	111.73			111.73
29	4.50				4.50	1.00				1.00	6.18				6.18	87.43			87.43
30	4.50				4.50	1.00				1.00	7.22				7.22	64.65			64.65
31	4.50				4.50	1.00				1.00	7.16				7.16	64.04			64.04
MIN	4.50				4.50	1.00				1.00	4.49				4.49	32.36			32.36
AVG	4.50				4.50	1.00				1.00	7.40				7.40	78.90			78.90
MAX	4.50				4.50	1.00				1.00	9.22				9.22	130.35			130.35