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 Utility

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022

Plant ID No.: 20831

Report for the Month of: January 2018

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:

Certificate No. & Grade: WS0012772, B

Date: February 10, 2018

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	103	Number of 4-hour periods when plant was off-line:	83
Number of readings above 0.10 NTU:	61	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 readings above 0.5 NTU:	0	Number of days when plant was on-line but individual filter turbidity data was not collected:	0
Number of readings above 1.0 NTU:	0		
Maximum allowable turbidity level:	0.3	Number of days with readings above 1.0 NTU:	0 (2)
Percentage of readings above this limit:	0.0 % (1)	Number of days with readings above 5.0 NTU:	0 (3)

Bin Class: 2 Crypto Credit Required: 4.0 (7A) Crypto Credit Achieved: 4.0 (7B) Bin 3&4 Credits: 1.0 (7C)

Watershed Protection:	0.0	Conventional Treatment:	3.0	Second Stage Filtration:	0.0
Bank Filtration:	0.0	Enhanced Filter Performance:	0.0	UV:	1.0
Presedimentation with Coagulation:	0.0	Bag and Cartridge Filtration:	0.0	Ozone, Chlorine Dioxide:	0.0
Two-Stage Lime Softening:	0.0	Membrane Filtration:	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:	4.13
		Average log inactivation) (including UV) for viruses:	45.61
Number of days with low inactivation (including UV) for more than 4.0 consecutive hours:	0 (4)	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:	6.66
		Number of days with pH below 7.0 in the last disinfection zone:	3.00
Number of days with a low residual for more than 4.0 consecutive hours:	0 (5)	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:	41 (at least 31 required) (8)		
Average disinfectant residual value:	2.22	Percentage of readings with a low residual this month:	0.0 % (6A)
Number of readings with a low residual:	0		
Number of readings with no detectable residual:	0	Percentage of readings with a low residual last month:	0.0 % (6B)

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 ○ CPE

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

Alternate Technol. UV–CDA UV–Sensor Data UV–UVT Analyzer

STATISTICAL ANALYSIS OF TURBIDITY DATA

Settled Water Stastical Summary	Maximum turbidity reading:	8.18 NTU	Average turbidity value:	3.49 NTU
	Minimum turbidity reading:	0.47 NTU	Standard deviation:	1.674 NTU
	95th percentile value:	6.46 NTU		
IFE Stastical Summary	Maximum IFE turbidity reading:	0.00 NTU	Average IFE turbidity value:	0.03 NTU
	Minimum IFEturbidity reading:	0.32 NTU	Standard deviation:	0.114 NTU
	95th percentile IFE value:	0.06 NTU		
CFE Stastical Summary	Maximum CFE turbidity reading:	0.24 NTU	Average CFE turbidity value:	0.11 NTU
	Minimum CFE turbidity reading:	0.02 NTU	Standard deviation:	0.046 NTU
	95th percentile CFE value:	0.18 NTU		

STATISTICAL ANALYSIS OF pH DATA

Last Zone pH Stastical Summary	Maximum pH reading:	7.60 pH	Average pH value:	7.21 pH
	Minimum pH reading:	6.66 pH	Standard deviation:	0.187 pH
	95th percentile value:	7.40 pH		

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 Utility	PLANT NAME OR NUMBER:	Rio Bravo
PWS ID No.: 2400022	Plant ID No.: 20831	Connections:	1,935
Month: January	Year: 2018	Population:	6,773

PERFORMANCE DATA

Date	Raw Water Pumpage (MGD)	Treated Water Pumpage (MGD)	RAW WATER ANALYSES NTU	RAW WATER ANALYSES Alk.	SETTLED WATER TURBIDITY (Mandatory Data) Basin No. 1	2	3	4	5	6	FINISHED WATER QUALITY Combined Filter Effluent Turbidity NTU1	NTU2	NTU3	NTU4	NTU5	NTU6	Lowest Residual	Time*
1	0.736	0.492	97	140	0.6	2.7					X	X	X	X	0.06	0.11	2.8	
2	0.738	0.467	12	140	6.5	3.1					0.12	X	X	X	0.06	0.09	2.7	
3	0.780	0.646	13	140	5.7	6.8					X	X	X	0.09	0.08	0.05	2.5	
4	0.788	0.578	14	140	5.1	5.1					X	X	X	0.05	0.06	0.07	2.9	
5	0.891	0.642	23	140	8.2	5.1					0.04	X	X	0.05	0.05	0.05	3.9	
6	0.797	0.617	35	140	3.3	5.1					X	X	X	0.06	0.08	0.07	3.7	
7	0.919	0.639	50	140	3.1	4.3					0.07	X	X	X	0.15	0.07	3.5	
8	0.999	0.652	63	140	3.8	4.1					0.10	X	X	0.05	0.05	0.12	3.2	
9	1.039	0.607	73	140	6.1	5.7					0.12	X	X	0.05	0.09	0.18	3.3	
10	1.009	0.597	76	160	0.9	1.3					0.19	X	X	0.08	0.05	0.05	2.9	
11	1.039	0.549	11	180	0.5	1.4					0.04	0.05	X	0.05	0.04	0.02	2.9	
12	0.975	0.593	20	180	2.7	2.8					0.05	0.12	X	X	0.11	0.11	2.6	
13	0.933	0.542	20	180	2.9	3.0					0.10	X	X	0.10	0.19	0.18	3.1	
14	0.827	0.572	32	180	1.7	2.2					X	X	X	0.19	0.13	X	3.2	
15	1.050	0.615	28	180	2.7	1.6					0.17	0.13	X	0.11	0.12	0.15	3.2	
16	0.666	0.407	26	180	2.6	2.0					X	X	X	X	0.14	0.13	2.6	
17	0.758	0.456	28	160	3.3	1.4					X	X	X	0.15	0.16	0.14	2.6	
18	0.746	0.478	31	160	4.2	3.2					X	X	X	0.13	0.14	0.15	2.6	
19	0.712	0.518	39	160	5.2	2.9					X	X	X	0.14	0.13	0.15	2.9	
20	0.894	0.583	24	160	5.5	2.7					X	X	X	0.15	0.17	0.16	2.4	
21	0.777	0.557	25	160	3.4	7.0					X	X	X	0.16	0.11	0.11	2.7	
22	0.769	0.598	11	160	3.3	2.2					X	X	X	0.08	0.10	0.09	3.1	
23	0.770	0.490	17	160	2.8	2.3					X	X	X	0.09	0.12	0.16	3.0	
24	1.049	0.598	22	160	3.4	2.0					0.16	X	X	0.14	0.14	0.20	0.8	
25	0.892	0.468	17	180	1.9	3.4					0.18	X	X	0.15	0.15	0.14	3.0	
26	0.808	0.507	17	140	4.2	2.9					X	X	X	0.12	0.12	0.14	3.3	
27	1.038	0.642	21	140	5.3	1.9					X	X	X	X	0.09	0.24	2.9	
28	0.925	0.581	20	140	5.7	2.4					0.12	X	X	0.20	0.14	0.09	2.8	
29	0.915	0.565	13	140	1.7	3.4					0.08	X	X	0.08	0.16	0.14	3.1	
30	0.788	0.556	22	140	2.2	4.5					X	X	X	0.17	0.12	0.18	3.0	
31	0.798	0.417	23	120	4.5	5.3					X	X	X	0.13	0.16	0.13	2.6	
Total	26.825	17.229		Max	8.2	7.0												
Avg	0.865	0.556		Avg	3.6	3.3												
Max	1.050	0.652		95th %	6.3	6.2												
Min	0.666	0.407		Min	0.5	1.3												
				95th percentile based on data from all basins						6.5								

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: Tomas Sanchez Jr. Certificate No. and Grade: WS0012772, B Date: February 10, 2018

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 Utility

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022 Plant ID No.: 20831 Month: January Year: 2018

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	0.10		0.08		0.22		0.20													
2	0.05		0.07		0.18		0.16													
3	0.07		0.06		0.14		0.08													
4	0.05		0.04		0.11		0.06													
5	0.09		0.03		0.11		0.05													
6	0.15		0.04		0.09		0.10													
7	0.08		0.04		0.12		0.08													
8	0.09		0.04		0.12		0.10													
9	0.06		0.09		0.21		0.22													
10	0.10		0.12		0.24		0.26													
11	0.04		0.10		0.16		0.14													
12	0.06		0.06		0.15		0.15													
13	0.06		0.07		0.15		0.13													
14	0.06		0.07		0.22		0.13													
15	0.06		0.06		0.22		0.24													
16	0.06		0.06		0.13		0.15													
17	0.10		0.08		0.13		0.13													
18	0.08		0.14		0.10		0.13													
19	0.08		0.06		0.08		0.11													
20	0.08		0.04		0.15		0.29													
21	0.12		0.05		0.07		0.32													
22	0.23		0.04		0.10		0.32													
23	0.06		0.05		0.05		0.09													
24	0.08		0.07		0.09		0.08													
25	0.08		0.10		0.09		0.08													
26	0.11		0.08		0.16		0.12													
27	0.12		0.08		0.29		0.18													
28	0.13		0.09		0.13		0.16													
29	0.08		0.11		0.09		0.15													
30	0.09		0.11		0.11		0.12													
31	0.14		0.15		0.15		0.20													

SUMMARY & COMPLIANCE ACTIONS

Criteria	Filter No. 1	2	3	4	5	6	7	8	9	10	Plant
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: Tomas Sanchez Jr. Certificate No. and Grade: WS0012772, B Date: February 10, 2018

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 Utility

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022 Plant ID No.: 20831 Month: January Year: 2018

DISINFECTION PROCESS PARAMETERS

APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
	Disinfection Zones					Log Inactivations	
Parameters	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=
1	FCL *D1A*	2.0	0.750	11.6	7.5				
	FCL *D1B*	2.1	0.750	10.5	7.5				
	FCL *D2*	1.2	0.375	13.7	7.2	2.51	60.80	5.02	
	CLA *D3*	3.7	0.750	12.1	7.4			(G)	
	D4								
2	FCL *D1A*	2.2	0.742	10.6	7.5				
	FCL *D1B*	1.9	0.742	9.5	7.4				
	FCL *D2*	1.5	0.371	12.6	7.5	2.60	66.98	5.21	
	CLA *D3*	4.0	0.742	11.3	7.3			(G)	
	D4								
3	FCL *D1A*	0.5	0.712	11.0	7.4				
	FCL *D1B*	0.8	0.712	11.0	7.5				
	FCL *D2*	0.6	0.356	11.6	7.6	1.34	25.60	2.67	
	CLA *D3*	3.3	0.712	11.2	7.3			(G)	
	D4								
4	FCL *D1A*	1.2	0.707	13.0	7.3				
	FCL *D1B*	1.6	0.707	13.4	7.5				
	FCL *D2*	1.0	0.353	12.3	7.4	2.17	47.10	4.34	
	CLA *D3*	3.8	0.707	13.0	7.3			(G)	
	D4								
5	FCL *D1A*	1.6	0.696	15.5	7.4				
	FCL *D1B*	2.1	0.696	15.7	7.3				
	FCL *D2*	1.9	0.348	17.7	7.6	4.05	114.19	8.10	
	CLA *D3*	4.3	0.696	15.7	7.3			(G)	
	D4								
6	FCL *D1A*	1.0	0.738	14.6	7.5				
	FCL *D1B*	1.2	0.738	14.3	7.4				
	FCL *D2*	0.8	0.369	13.9	7.4	2.15	43.71	4.30	
	CLA *D3*	4.0	0.738	15.9	7.4			(G)	
	D4								
7	FCL *D1A*	1.5	0.758	15.5	7.5				
	FCL *D1B*	1.5	0.758	15.6	7.5				
	FCL *D2*	1.0	0.379	13.3	7.6	2.31	53.04	4.63	
	CLA *D3*	4.2	0.758	14.7	7.3			(G)	
	D4								
8	FCL *D1A*	0.7	0.778	17.1	6.8				
	FCL *D1B*	0.6	0.778	17.0	6.2				
	FCL *D2*	0.3	0.389	16.7	7.0	1.69	23.02	3.38	
	CLA *D3*	3.8	0.778	17.7	6.7			(G)	
	D4								

PERFORMANCE DATA

DISINFECTION PROCESS DATA

Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
9	FCL *D1A*	0.7	0.792	16.5	7.0				
	FCL *D1B*	1.3	0.792	16.2	7.3				
	FCL *D2*	1.1	0.396	15.8	7.1	2.47	51.26	4.95	
	CLA *D3*	3.2	0.792	18.4	6.8			(G)	
	D4								
10	FCL *D1A*	0.3	0.799	17.8	7.3				
	FCL *D1B*	0.4	0.799	17.0	7.4				
	FCL *D2*	0.5	0.399	17.1	7.3	1.56	25.49	3.12	
	CLA *D3*	3.7	0.799	17.3	7.2			(G)	
	D4								
11	FCL *D1A*	0.7	0.787	19.5	7.6				
	FCL *D1B*	0.6	0.787	20.4	7.4				
	FCL *D2*	0.5	0.393	19.2	7.4	1.84	35.40	3.67	
	CLA *D3*	3.4	0.787	17.6	7.3			(G)	
	D4								
12	FCL *D1A*	1.1	0.772	17.1	7.2				
	FCL *D1B*	1.0	0.772	16.9	7.2				
	FCL *D2*	0.7	0.386	18.2	7.2	2.22	46.19	4.44	
	CLA *D3*	3.1	0.772	16.9	7.2			(G)	
	D4								
13	FCL *D1A*	0.9	0.744	14.1	7.4				
	FCL *D1B*	1.0	0.744	14.0	7.3				
	FCL *D2*	0.6	0.372	14.9	7.4	1.78	35.53	3.55	
	CLA *D3*	3.5	0.744	14.6	7.3			(G)	
	D4								
14	FCL *D1A*	1.0	0.697	14.9	7.2				
	FCL *D1B*	0.9	0.697	14.7	7.2				
	FCL *D2*	1.1	0.348	17.1	7.4	2.78	65.39	5.57	
	CLA *D3*	3.2	0.697	15.7	7.2			(G)	
	D4								
15	FCL *D1A*	0.5	0.728	18.0	7.1				
	FCL *D1B*	0.4	0.728	18.7	7.1				
	FCL *D2*	0.6	0.364	19.4	7.3	2.11	39.24	4.22	
	CLA *D3*	3.3	0.728	18.3	7.2			(G)	
	D4								
16	FCL *D1A*	0.5	0.746	13.4	7.3				
	FCL *D1B*	0.4	0.746	13.1	7.2				
	FCL *D2*	0.6	0.373	14.3	7.3	1.43	27.64	2.86	
	CLA *D3*	2.8	0.746	14.1	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: Tomas Sanchez Jr. Certificate No. and Grade: WS0012772, B Date: February 10, 2018

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 Utility

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022 Plant ID No.: 20831 Month: January Year: 2018

DISINFECTION PROCESS PARAMETERS

APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
	Disinfection Zones					Log Inactivations	
Parameters	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=
17	FCL *D1A*	0.6	0.740	13.0	7.3				
	FCL *D1B*	0.5	0.740	12.9	7.2				
	FCL *D2*	0.6	0.370	14.2	7.4	1.40	27.74	2.80	
	CLA *D3*	2.7	0.740	13.9	7.3			(G)	
	D4								
18	FCL *D1A*	1.0	0.732	12.2	7.4				
	FCL *D1B*	1.0	0.732	12.1	7.3				
	FCL *D2*	0.9	0.366	13.1	7.5	1.82	43.45	3.65	
	CLA *D3*	2.8	0.732	12.5	7.4			(G)	
	D4								
19	FCL *D1A*	0.8	0.786	12.5	7.3				
	FCL *D1B*	0.8	0.786	12.8	7.2				
	FCL *D2*	1.0	0.393	13.6	7.5	1.80	42.08	3.60	
	CLA *D3*	2.9	0.786	13.2	7.3			(G)	
	D4								
20	FCL *D1A*	0.9	0.793	16.2	7.3				
	FCL *D1B*	0.8	0.793	17.3	7.2				
	FCL *D2*	0.9	0.396	16.3	7.3	2.19	45.23	4.38	
	CLA *D3*	3.3	0.793	18.5	7.3			(G)	
	D4								
21	FCL *D1A*	1.5	0.750	16.6	7.3				
	FCL *D1B*	1.6	0.750	17.3	7.3				
	FCL *D2*	1.4	0.375	16.3	7.5	3.06	79.35	6.11	
	CLA *D3*	3.2	0.750	16.5	7.2			(G)	
	D4								
22	FCL *D1A*	1.5	0.754	15.4	7.3				
	FCL *D1B*	1.1	0.754	16.2	7.3				
	FCL *D2*	0.2	0.377	16.5	7.3	1.47	23.90	2.94	
	CLA *D3*	3.6	0.754	17.0	7.2			(G)	
	D4								
23	FCL *D1A*	1.5	0.732	15.4	7.3				
	FCL *D1B*	1.5	0.732	15.6	7.3				
	FCL *D2*	0.4	0.366	17.9	7.4	1.96	40.19	3.92	
	CLA *D3*	3.4	0.732	16.1	7.3			(G)	
	D4								
24	FCL *D1A*	0.7	0.743	13.0	7.2				
	FCL *D1B*	0.9	0.743	13.0	7.2				
	FCL *D2*	0.6	0.371	13.0	7.3	1.62	28.84	3.24	
	CLA *D3*	3.7	0.743	14.0	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=
25	FCL *D1A*	1.2	0.726	15.0	7.5				
	FCL *D1B*	1.1	0.726	15.0	7.3				
	FCL *D2*	0.7	0.363	15.0	7.5	2.11	44.75	4.22	
	CLA *D3*	3.7	0.726	15.0	7.6			(G)	
	D4								
26	FCL *D1A*	0.9	0.750	15.5	7.2				
	FCL *D1B*	1.0	0.750	15.6	7.2				
	FCL *D2*	0.9	0.375	15.6	7.1	2.46	48.93	4.92	
	CLA *D3*	4.1	0.750	15.2	7.1			(G)	
	D4								
27	FCL *D1A*	1.3	0.941	16.0	7.1				
	FCL *D1B*	1.2	0.941	16.0	7.1				
	FCL *D2*	0.7	0.470	17.0	7.1	1.86	37.09	3.72	
	CLA *D3*	3.5	0.941	16.0	7.0			(G)	
	D4								
28	FCL *D1A*	1.2	0.954	16.9	7.1				
	FCL *D1B*	1.0	0.954	16.9	7.1				
	FCL *D2*	1.0	0.477	17.1	7.2	2.11	46.25	4.22	
	CLA *D3*	3.2	0.954	15.8	7.2			(G)	
	D4								
29	FCL *D1A*	1.0	0.768	16.0	7.0				
	FCL *D1B*	1.1	0.768	16.0	6.9				
	FCL *D2*	0.9	0.384	16.0	7.0	2.61	51.60	5.22	
	CLA *D3*	3.8	0.768	16.0	6.8			(G)	
	D4								
30	FCL *D1A*	1.0	0.746	15.0	7.1				
	FCL *D1B*	1.0	0.746	15.0	7.0				
	FCL *D2*	1.1	0.373	15.0	7.1	2.62	55.46	5.24	
	CLA *D3*	3.6	0.746	15.0	7.1			(G)	
	D4								
31	FCL *D1A*	0.9	0.732	16.0	6.9				
	FCL *D1B*	0.7	0.732	15.6	7.1				
	FCL *D2*	0.6	0.366	16.9	7.1	1.97	34.75	3.95	
	CLA *D3*	3.4	0.732	18.0	7.2			(G)	
	D4								
					Max	4.05	114.19	8.10	
					Min	1.34	23.02	2.67	
					Avg	2.13	45.49	4.26	
					SD	0.55	18.27	1.11	

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

SUBMITTED BY: Tomas Sanchez Jr. Certificate No. and Grade: WS0012772, B Date: February 10, 2018

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 Utility

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022

Plant ID No.: 20831

Month: January

Year: 2018

Type of treatment: [X] 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*	*calculated*			*calculated*
1	1/4	140	2.90	2.00	31.0	15	2.07			2.07
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
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17										
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21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Avg		140.00	2.90	2.00	31.03		2.07			2.07
Max		140.00	2.90	2.00	31.03		2.07			2.07
Min		140.00	2.90	2.00	31.03		2.07			2.07

TOTAL ORGANIC CARBON (TOC) REMOVAL SUMMARY

TOC Summary					Monthly Compliance Ratio
Raw Water Alkalinity	Raw Water TOC	Treated Water TOC	TOC % Removal	ACC # used	
140	2.90	2.00	31.0	NA	2.07

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:

Certificate and Grade: No. WS0012772, B

Date: February 10, 2018

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 Utility

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022 Plant ID No.: 20831 Month: January Year: 2018

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	2.50
Min Validated UVT (%)	69.20	69.20	69.20				

PERFORMANCE 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	1	X	X	X	X	X	X	X	0.000
	2	0.361	0.941	93.00	38.40	1.00	38.40	0.000	
	3	0.246	0.622	93.00	59.75	1.00	59.75	0.000	
	4								
	5								
2	1	X	X	X	X	X	X	X	0.25
	2	0.440	1.315	92.30	0.00	1.00	0.00	0.014	
	3	0.300	0.847	92.30	0.00	1.00	0.00	0.009	
	4								
	5								
3	1	X	X	X	X	X	X	X	0.000
	2	0.443	0.904	74.30	40.22	1.00	40.22	0.000	
	3	0.301	0.609	74.30	61.37	1.00	61.37	0.000	
	4								
	5								
4	1	X	X	X	X	X	X	X	0.000
	2	0.388	0.798	86.40	20.23	1.00	20.23	0.000	
	3	0.310	0.606	86.40	63.11	1.00	63.11	0.000	
	4								
	5								
5	1	X	X	X	X	X	X	X	0.000
	2	0.450	0.778	82.20	41.07	1.00	41.07	0.000	
	3	0.349	0.600	82.20	61.48	1.00	61.48	0.000	
	4								
	5								
6	1	X	X	X	X	X	X	X	0.25
	2	0.479	1.147	83.20	0.00	1.00	0.00	0.004	
	3	0.320	0.715	83.20	0.00	1.00	0.00	0.002	
	4								
	5								
7	1	X	X	X	X	X	X	X	0.000
	2	0.514	1.236	83.70	4.94	1.00	4.94	0.000	
	3	0.347	0.808	83.70	59.45	1.00	59.45	0.000	
	4								
	5								
8	1	X	X	X	X	X	X	X	0.000
	2	0.507	0.952	83.80	37.58	1.00	37.58	0.000	
	3	0.359	0.626	83.80	58.46	1.00	58.46	0.000	
	4								
	5								

PERFORMANCE 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)
9	1	X	X	X	X	X	X	X	0.25
	2	0.480	1.268	84.00	0.00	1.00	0.00	0.013	
	3	0.336	0.836	84.00	0.00	1.00	0.00	0.009	
	4								
	5								
10	1	X	X	X	X	X	X	X	0.000
	2	0.510	1.445	82.70	5.06	1.00	5.06	0.000	
	3	0.333	0.926	82.70	40.48	1.00	40.48	0.000	
	4								
	5								
11	1	X	X	X	X	X	X	X	0.25
	2	0.551	1.330	83.00	0.00	1.00	0.00	0.005	
	3	0.363	0.849	83.00	0.00	1.00	0.00	0.003	
	4								
	5								
12	1	X	X	X	X	X	X	X	0.000
	2	0.523	0.937	83.40	37.28	1.00	37.28	0.000	
	3	0.357	0.605	83.40	59.23	1.00	59.23	0.000	
	4								
	5								
13	1	X	X	X	X	X	X	X	0.50
	2	0.492	1.296	83.90	0.00	1.00	0.00	0.010	
	3	0.329	0.823	83.90	0.00	1.00	0.00	0.005	
	4								
	5								
14	1	X	X	X	X	X	X	X	0.25
	2	0.383	1.241	83.20	0.00	1.00	0.00	0.003	
	3	0.287	0.830	83.20	0.00	1.00	0.00	0.002	
	4								
	5								
15	1	X	X	X	X	X	X	X	0.50
	2	0.520	1.500	100.00	0.00	1.00	0.00	0.004	
	3	0.388	1.188	100.00	0.00	1.00	0.00	0.004	
	4								
	5								
16	1	X	X	X	X	X	X	X	0.25
	2	0.349	1.007	84.60	0.00	1.00	0.00	0.001	
	3	0.233	0.682	84.60	55.49	1.00	55.49	0.000	
	4								
	5								

SUBMITTED BY: Tomas Sanchez Jr.

Certificate No. and Grade: WS0012772, B

Date: February 10, 2018

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 Utility

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022 Plant ID No.: 20831 Month: January Year: 2018

TRUE

VALIDATED OPERATIONAL CONDITIONS

VALIDATED PARAMETERS						PERFORMANCE REQUIREMENTS	
	Reactor Number						
Parameters	UVCD1	UVCD2	UVCD3	UVCD4	UVCD5	Crypto Log Inactivation	Required UV Dose (mJ/cm²)
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	Reactor	Total Product. (MG)	Max. Flow Rate (MGD)	Min UV Trans. (%)	Minimum Meas'd UV Dose (mJ/cm²)	Sensor CF	Adjusted Minimum UV Dose (mJ/cm²)	Total Off-Spec Product. (MG)	Consec. Off-Spec Hours (hr)
		OPERATIONAL DATA							
17	1	X	X	X	X	X	X	X	0.000
	2	0.391	1.097	83.50	24.72	1.00	24.72	0.000	
	3	0.274	0.770	83.50	49.65	1.00	49.65	0.000	
	4								
	5								
18	1	X	X	X	X	X	X	X	0.000
	2	0.360	0.885	83.40	40.47	1.00	40.47	0.000	
	3	0.277	0.609	83.40	60.94	1.00	60.94	0.000	
	4								
	5								
19	1	X	X	X	X	X	X	X	0.000
	2	0.347	1.047	83.10	4.83	1.00	4.83	0.000	
	3	0.272	0.722	83.10	52.94	1.00	52.94	0.000	
	4								
	5								
20	1	X	X	X	X	X	X	X	0.50
	2	0.484	0.958	84.20	0.00	1.00	0.00	0.010	
	3	0.326	0.668	84.20	0.00	1.00	0.00	0.007	
	4								
	5								
21	1	X	X	X	X	X	X	X	0.25
	2	0.414	0.863	86.00	0.00	1.00	0.00	0.004	
	3	0.281	0.573	86.00	0.00	1.00	0.00	0.003	
	4								
	5								
22	1	X	X	X	X	X	X	X	0.25
	2	0.406	0.906	84.50	0.00	1.00	0.00	0.008	
	3	0.284	0.597	84.50	63.65	1.00	63.65	0.000	
	4								
	5								
23	1	X	X	X	X	X	X	X	0.000
	2	0.401	0.869	84.60	13.75	1.00	13.75	0.000	
	3	0.273	0.574	84.60	64.79	1.00	64.79	0.000	
	4								
	5								
24	1	X	X	X	X	X	X	X	5.25
	2	0.506	1.138	100.00	0.00	1.00	0.00	0.156	
	3	0.339	0.781	100.00	0.00	1.00	0.00	0.104	
	4								
	5								

PERFORMANCE DATA

Date	Reactor	Total Product. (MG)	Max. Flow Rate (MGD)	Min UV Trans. (%)	Minimum Meas'd UV Dose (mJ/cm²)	Sensor CF	Adjusted Minimum UV Dose (mJ/cm²)	Total Off-Spec Product. (MG)	Consec. Off-Spec Hours (hr)
		OPERATIONAL DATA							
25	1	X	X	X	X	X	X	X	0.25
	2	0.442	1.243	84.20	0.00	1.00	0.00	0.003	
	3	0.309	0.794	84.20	0.00	1.00	0.00	0.001	
	4								
	5								
26	1	X	X	X	X	X	X	X	1.25
	2	0.448	0.958	100.00	0.00	1.00	0.00	0.007	
	3	0.295	0.621	100.00	59.48	1.00	59.48	0.000	
	4								
	5								
27	1	X	X	X	X	X	X	X	0.50
	2	0.510	1.148	98.70	0.00	1.00	0.00	0.004	
	3	0.335	0.763	98.70	0.00	1.00	0.00	0.002	
	4								
	5								
28	1	X	X	X	X	X	X	X	0.25
	2	0.456	1.122	100.00	1.81	1.00	1.81	0.009	
	3	0.303	0.730	100.00	52.72	1.00	52.72	0.000	
	4								
	5								
29	1	X	X	X	X	X	X	X	0.25
	2	0.470	0.916	100.00	0.00	1.00	0.00	0.004	
	3	0.334	0.605	100.00	0.00	1.00	0.00	0.004	
	4								
	5								
30	1	X	X	X	X	X	X	X	1.00
	2	0.392	0.877	86.00	0.00	1.00	0.00	0.008	
	3	0.294	0.590	86.00	0.00	1.00	0.00	0.002	
	4								
	5								
31	1	X	X	X	X	X	X	X	0.000
	2	0.411	0.923	86.60	38.37	1.00	38.37	0.000	
	3	0.272	0.610	86.60	58.95	1.00	58.95	0.000	
	4								
	5								

SUBMITTED BY: Tomas Sanchez Jr.

Certificate No. and Grade: WS0012772, B Date: February 10, 2018

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 Utility

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022 **Plant ID No.:** 20831 **Month:** January **Year:** 2018

DAILY MINIMUM INACTIVATION

Reactor Range	Date	Min Dose (mJ/cm²)	Inactivation Credit Achieved Giardia Log	Virus Log	Crypto Log	Reactor Range	Date	Min Dose (mJ/cm²)	Min Inactivation Giardia Log	Virus Log	Crypto Log
1 to 3	1	38.40	4.00	0.48	1.00	1 to 3	9	0.00*	1.00	0.00	1.00
	2	0.00*	1.00	0.00	1.00		10	5.06	1.98	0.00	1.00
	3	40.22	4.00	0.53	1.00		11	0.00*	1.00	0.00	1.00
	4	20.23	3.87	0.00	1.00		12	37.28	4.00	0.45	1.00
	5	41.07	4.00	0.56	1.00		13	0.00*	1.00	0.00	1.00
	6	0.00*	1.00	0.00	1.00		14	0.00*	1.00	0.00	1.00
	7	4.94	1.96	0.00	1.00		15	0.00*	1.00	0.00	1.00
	8	37.58	4.00	0.46	1.00		16	0.00	1.00	0.00	1.00

DAILY MINIMUM INACTIVATION

Reactor Range	Date	Min Dose (mJ/cm²)	Min Inactivation Giardia Log	Virus Log	Crypto Log	Reactor Range	Date	Min Dose (mJ/cm²)	Min Inactivation Giardia Log	Virus Log	Crypto Log
1 to 3	17	24.72	4.00	0.07	1.00	1 to 3	25	0.00*	1.00	0.00	1.00
	18	40.47	4.00	0.54	1.00		26	0.00	1.00	0.00	1.00
	19	4.83	1.94	0.00	1.00		27	0.00*	1.00	0.00	1.00
	20	0.00*	1.00	0.00	1.00		28	1.81	1.00	0.00	1.00
	21	0.00*	1.00	0.00	1.00		29	0.00*	1.00	0.00	1.00
	22	0.00	1.00	0.00	1.00		30	0.00*	1.00	0.00	1.00
	23	13.75	3.34	0.00	1.00		31	38.37	4.00	0.48	1.00
	24	0.00*	0.00	0.00	1.00						

Total volume of water treated by all CDA reactors:	23.45	MG
Total volume of off-spec water produced by all CDA reactors:	0.42	MG
Percentage of off-spec water produced by all CDA reactors:	1.81	%
Crypto Log-Inactivation Credit for treatment by CDA reactors:	1.00	log

Treated water pumpage and total production by all UV reactors differ by more than 15% on these days: 1, 9, 10, 14, 24, 25, 27, 28,

SUBMITTED BY: Tomas Sanchez Jr.

Certificate No. and Grade: WS0012772, B **Date:** February 10, 2018

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 Utility

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022

Plant ID No.: 20831

Month: January

Year: 2018

CALIBRATION DATA

UV Sensor Calibration Report for Calculated Dose Reactors

CDA Reactor Number	Calibration Date and Data	Duty Sensor	Duty Sensor Serial #	Ref Sensor Serial #	Duty Sensor Reading (mJ/cm²)	Ref Sensor Reading (mJ/cm²)	Cal Ratio	Duty Sensor Replaced?	Calculated Sensor CF
UVCD No. 1	Previous Month's Sensor CF	1	X	X					
		2							
		3							
	1.00	4							
	Calibration Date	5							
		6							
	1/1/18	7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 2	Previous Month's Sensor CF	1	44	38	70.90	75.40	0.94	NA	1.00
		2							
		3							
	1.00	4							
	Calibration Date	5							
		6							
	1/1/18	7							
	New Sensor CF	8							
		9							
	1.00	10							
UVCD No. 3	Previous Month's Sensor CF	1	39	38	77.00	76.70	1.00	NA	1.00
		2							
		3							
	1.00	4							
	Calibration Date	5							
		6							
	1/1/18	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

UV Sensor Calibration Report for Calculated Dose Reactors

CDA Reactor Number	Calibration Date	Duty Sensor	Duty Sensor Serial #	Ref Sensor Serial #	Duty Sensor Reading (mJ/cm²)	Ref Sensor Reading (mJ/cm²)	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: Tomas Sanchez Jr.

Certificate No. and Grade: WS0012772, B

Date: February 10, 2018

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 Utility

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022

Plant ID No.: 20831

Month: January

Year: 2018

CALIBRATION DATA

UV Sensor Calibration Report for Calculated Dose Reactors

CDA Reactor Number	Calibration Date	Duty Sensor	Duty Sensor Serial #	Ref Sensor Serial #	Duty Sensor Reading (mJ/cm²)	Ref Sensor Reading (mJ/cm²)	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

UV Sensor Calibration Report for Calculated Dose Reactors

CDA Reactor Number	Calibration Date	Duty Sensor	Duty Sensor Serial #	Ref Sensor Serial #	Duty Sensor Reading (mJ/cm²)	Ref Sensor Reading (mJ/cm²)	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 Utility

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022

Plant ID 20831

Month: January

Year: 2018

CALIBRATION DATA

Benchtop UVT Analyzer Serial Number: P0108955

UVT Analyzer Number	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	1/1/18	AF45WD	100.00	92.40	7.60	YES	NA
	2	1/8/18	AF45WD	100.00	94.40	5.60	YES	NA
	3	1/15/18	AF45WD	100.00	91.60	8.40	YES	NA
	4	1/22/18	AF45WD	100.00	93.00	7.00	YES	NA
	5	1/29/18	AF45WD	100.00	94.30	5.70	YES	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

Benchtop UVT Analyzer Serial Number: P0108955

UVT Analyzer Number	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							

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