

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

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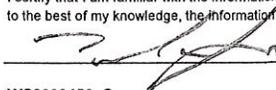
PUBLIC WATER SYSTEM NAME: Webb County Water Utility

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022

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.

Plant ID No.: 20831

Operator's Signature: 

Report for the Month of: September 2015

Certificate No. & Grade: WS0009456, C

Date: October 10, 2015

TREATMENT PLANT PERFORMANCE					
Total number of turbidity readings:	143	Number of 4-hour periods when plant was off-line:	37		
Number of readings above 0.10 NTU:	72	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)				
Statistical Summary	Maximum turbidity reading:	0.21 NTU	Average turbidity value:	0.12 NTU	
	Minimum turbidity reading:	0.07 NTU	Standard deviation:	0.035 NTU	
	CFE 95 th percentile value:	0.19 NTU	IFE 95 th percentile:	0.295 NTU	
Bin Class: <u>2</u>	Crypto Credit Required: <u>4.0 (7A)</u>	Crypto Credit Achieved: <u>0.0 (7B)</u>	Bin 3&4 Credits: <u>0.0 (7C)</u>		
Watershed Protection:	0.0	Conventional Treatment:	3.0	Second Stage Filtration:	0.0
Bank Filtration:	0.0	Enhanced Filter Performance:	0.0	UV:	0.0
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 a low CT for no more than 4.0 consecutive hours:	0	Average log inactivation for Giardia:	6.91 (R)		
Number of days with a low CT for more than 4.0 consecutive hours:	0 (4)	Average log inactivation for viruses:	204.55 (R)		
		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				
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:	30		

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 30 required) (8)	Percentage of readings with a low residual this month:	0.0 % (6A)
Average disinfectant residual value:	1.46	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 required because there was at least one treatment technique or monitoring/reporting violation reported.			
Additional report(s) for individual filter monitoring required:	<input checked="" type="radio"/> NONE	<input type="radio"/> Filter Profile	<input type="radio"/> Filter Assessment
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)
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.			

SURFACE WATER MONTHLY OPERATING REPORT
 TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
 WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
 P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

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.)
Summary Page Addendum (Violations and Public Notices)

PUBLIC WATER SYSTEM NAME: Webb County Water Utility

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022

Plant ID No.: 20831

Month: September

Year: 2015

PUBLIC NOTICES						
VIOLATION TYPE	DESCRIPTION OF VIOLATION	VIOLATION OCCURRED?	NOTICE TO TCEQ	NOTICE TO CUSTOMER *		VIOLATION DATES
			DATE OF NOTICE	DATE OF NOTICE	PENDING	
TREATMENT TECHNIQUE	Were more than 5.0% of the turbidity readings above the acceptable level? - see (1) on the Summary Page	No				
	Were there any days with turbidity readings above 1.0 NTU? - see (2) on the Summary Page	No				
	Were there any days with turbidity readings above 5.0 NTU? - see (3) on the Summary Page	No				
	Were there any periods when the plant failed to meet the CT requirements for more than 4.0 consecutive hours? - see (4) on the Summary Page	No				
	Were there any periods when the residuals leaving the plant fell below the acceptable level for more than 4.0 consecutive hours? - see (5) on the Summary Page	No				
	Were more than 5.0% of the residuals in the distribution system below the acceptable level for two months in a row? - see (6A) and (6B) on the Summary Page	No				
	Was Cryptosporidium removal credit less than required based on Bin Classification? - see (7A), (7B), and (7C) on the Summary Page	Yes				1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30
MONITORING & REPORTING	Were there any days when the plant failed to report all of the required Combined Filter Effluent (CFE) turbidity readings? - see the Turbidity Data Page	No				
	Were there any days when the plant failed to report all the CT data needed to evaluate the level of microbial inactivation achieved? - see the Disinfection Data Page	No				
	Were there any days when the plant failed to report the minimum disinfectant residual entering the distribution system? - see the Turbidity Data Page	Yes				1, 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.
	Did the system fail to collect enough samples in the distribution system to meet the minimum disinfectant monitoring requirements? - see (8) on the Summary Page	No				
	Were there any days when the plant failed to report the maximum individual filter effluent (IFE) turbidity level produced by each filter? - see the Filter Data Page	No				
	Were there any days when the plant failed to report the IFE turbidity level 4-hours after beginning a filter run? - see the Filter Data Page	Not Applicable				
	Did the plant fail to submit a Filter Profile Report if one was required? - see (9) on the Summary page	No				
	Did the plant fail to submit a Filter Assessment Report if one was required? - see (10) on the Summary Page	No				
	Did the plant fail to submit a Comprehensive Performance Evaluation Request if one was required? - see (11) on the Summary Page	No				
Did the plant fail to collect at least one Total Organic Carbon sample set? - see TOCMOR Page	No					

* Treatment technique violation notices are due no later than the end of the next business day. Please include a copy if possible.
 * Copies of each Public Notice must accompany this report if they have already been issued.

SUBMITTED BY: TOMAS SANCHEZ JR.

Certificate No. and Grade: WS0009456, C

Date: October 10, 2015

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.)
Summary Page Addendum (Violations and Public Notices)

PUBLIC WATER SYSTEM NAME: Webb County Water Utility

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022

Plant ID No.: 20831

Month: September

Year: 2015

PUBLIC NOTICES							
VIOLATION TYPE	DESCRIPTION OF VIOLATION	VIOLATION OCCURRED?	NOTICE TO TCEQ <input checked="" type="checkbox"/>		NOTICE TO CUSTOMER *		VIOLATION DATES
			DATE OF NOTICE		DATE OF NOTICE	PENDING	
MONITORING & REPORTING FOR ALTERNATIVE TECHNOLOGIES	Were there any days when the plant failed to report all of the data required to evaluate its watershed protection program?	Not Applicable					
	Were there any days when the plant failed to report all of the data required to evaluate its bank filters? - see the Prefilters worksheet	Not Applicable					
	Were there any days when the plant failed to report all of the data needed to evaluate its presedimentation basin? - see the Prefilters worksheet	Not Applicable					
	Were there any days when the plant failed to report all of the data needed to evaluate its two stage softening process? - see the Prefilters worksheet	Not Applicable					
	Were there any days when the plant failed to report all of the data needed to evaluate its bag or cartridge filters? - see the Bag, Cartridge worksheet	Not Applicable					
	Were there any days when the plant failed to report all of the data needed to evaluate its 2nd stage filters? - see the 2ndStageFilters worksheet	Not Applicable					
	Were there any days when the plant failed to report all of the data needed to evaluate its membrane filters? - see the membrane worksheets	Not Applicable					
	Were there any days when the plant failed to report all of the data needed to evaluate its UV reactors? - see the UV-ISA and UV-CDA worksheets	Not Applicable					
	Did the plant fail to report the data needed to evaluate its UV sensors or UV Transmittance analyzers? - see the UV-Sensors and UVT worksheets	Not Applicable					
	Were there any days when the plant failed to report all the CT data needed to evaluate the level of <i>Cryptosporidium</i> inactivation achieved? - see the Crypto CT worksheet	Not Applicable					
Were there any days when the plant failed to report all of the data required by the Demonstration of Performance approval letter issued by the TCEQ?	Not Applicable						

- Treatment technique violation notices are due no later than the end of the next business day. Please include a copy if possible.
- Copies of each Public Notice must accompany this report if they have already been issued.

SUBMITTED BY: TOMAS SANCHEZ JR.

Certificate No. and Grade: WS0009466, C

Date: October 10, 2015

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: 1,909
 Month: September Year: 2015 Population: 6,682

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	
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6			
1	1.392	1.017	6	100	0.7	1.0						0.14	X	0.15	0.13	0.14	0.15	MD	
2	1.393	1.026	34	100	0.8	1.7						0.15	X	0.18	0.14	0.15	0.14	MD	
3	1.407	0.990	10	100	1.0	1.5						0.14	X	0.14	0.15	0.20	0.19	MD	
4	1.559	1.094	10	100	1.1	1.7						0.20	X	0.19	0.18	0.18	0.17	MD	
5	1.557	1.142	10	120	1.0	1.5						0.21	X	0.19	0.21	0.19	0.18	MD	
6	1.369	1.016	9	100	0.9	1.1						0.19	X	0.18	0.18	0.18	0.16	MD	
7	1.545	1.049	7	120	0.8	1.0						0.15	X	0.15	0.14	0.16	0.16	MD	
8	1.710	1.069	9	120	0.9	0.9						0.15	0.13	0.15	0.20	0.19	0.19	MD	
9	1.411	1.030	17	120	0.9	0.6						0.19	0.17	X	0.12	0.11	0.12	MD	
10	1.454	0.978	10	120	0.6	0.6						0.15	X	0.14	0.09	0.10	0.10	MD	
11	0.969	0.627	9	120	0.6	0.5						0.08	X	0.10	0.07	0.10	X	MD	
12	1.338	0.947	8	100	0.7	0.7						X	0.13	0.09	X	0.09	0.10	MD	
13	1.264	0.849	10	100	0.7	0.5						0.11	X	X	0.10	0.09	0.10	MD	
14	1.733	0.874	10	120	0.5	0.8						X	X	0.10	0.08	0.10	0.09	MD	
15	0.814	0.874	9	120	0.6	1.7						X	X	0.09	0.09	0.11	0.09	MD	
16	1.271	0.827	7	100	0.5	0.8						X	X	0.10	0.08	0.11	0.10	MD	
17	1.410	0.942	7	120	0.6	1.0						0.10	X	0.10	0.11	0.10	0.11	MD	
18	1.480	0.960	9	120	0.6	0.7						0.10	X	0.10	0.13	0.11	0.11	MD	
19	1.308	0.946	7	100	0.8	1.2						0.10	X	0.10	0.12	0.11	0.10	MD	
20	1.120	0.947	8	100	0.7	0.7						X	X	0.10	0.10	0.11	0.10	MD	
21	1.651	0.944	22	120	0.6	0.8						0.10	0.10	0.10	0.11	0.10	0.09	MD	
22	1.403	0.983	8	120	0.8	0.7						0.09	X	0.09	0.13	0.12	0.10	MD	
23	1.416	0.884	6	120	0.8	1.5						0.10	X	0.10	0.10	0.12	0.11	MD	
24	1.361	0.932	8	120	0.6	0.6						0.11	X	0.11	0.10	0.12	0.11	MD	
25	1.077	0.610	10	120	0.9	0.9						0.10	X	0.10	0.10	0.09	0.10	MD	
26	1.491	1.121	18	120	0.8	0.8						X	X	0.10	0.09	0.09	0.10	MD	
27	1.412	0.993	12	120	0.9	1.2						0.11	X	X	0.10	0.09	0.09	MD	
28	1.427	1.034	6	120	0.7	0.8						0.08	X	0.11	0.09	0.10	0.09	MD	
29	1.289	0.886	16	120	0.8	1.5						0.09	X	0.10	0.09	0.08	0.08	MD	
30	1.452	0.909	9	120	0.9	1.8						0.10	X	0.11	0.10	0.10	0.10	MD	
31																			
Total	41.483	28.500																	
Avg	1.383	0.950																	
Max	1.733	1.142																	
Min	0.814	0.610																	

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: WS0009456, C Date: October 10, 2015

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: September Year: 2015

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																
1	0.09		0.19		0.24		0.32													
2	0.08		0.19		0.23		0.24													
3	0.17		0.25		0.27		0.27													
4	0.19		0.23		0.24		0.30													
5	0.17		0.26		0.31		0.26													
6	0.15		0.20		0.33		0.30													
7	0.13		0.23		0.23		0.27													
8	0.15		0.19		0.29		0.31													
9	0.12		0.19		0.17		0.26													
10	0.22		0.27		0.22		0.17													
11	0.14		0.14		0.17		0.15													
12	0.16		0.15		0.18		0.25													
13	0.09		0.16		0.20		0.18													
14	0.08		0.13		0.19		0.17													
15	0.09		0.13		0.17		0.14													
16	0.08		0.14		0.17		0.14													
17	0.10		0.14		0.17		0.15													
18	0.24		0.13		0.16		0.14													
19	0.12		0.11		0.17		0.17													
20	0.10		0.15		0.23		0.39													
21	0.13		0.17		0.21		0.18													
22	0.16		0.15		0.25		0.20													
23	0.14		0.15		0.21		0.16													
24	0.13		0.15		0.20		0.17													
25	0.12		0.12		0.21		0.16													
26	0.10		0.15		0.23		0.21													
27	0.08		0.15		0.22		0.16													
28	0.09		0.20		0.24		0.14													
29	0.08		0.17		0.28		0.15													
30	0.09		0.16		0.23		0.13													
31																				

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: Tomas Sanchez Jr.

Certificate No. and Grade: WS0009456, C Date: October 10, 2015

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

PLANT NAME OR NUMBER: Rio Bravo
Month: September Year: 2015

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
1	FCL D1A	0.3	0.833	28.3	6.7	10.93	334.78	21.87	
	FCL D1B	0.5	0.833	28.4	6.5				
	FCL D2	4.0	0.416	28.0	6.8				
	CLA D3	1.6	1.667	29.9	6.8				
	D4								
2	FCL D1A	0.9	0.830	27.1	6.6	11.72	351.61	23.43	
	FCL D1B	0.7	0.830	26.8	6.5				
	FCL D2	4.5	0.415	28.2	6.7				
	CLA D3	1.7	1.660	27.8	6.7				
	D4								
3	FCL D1A	1.0	0.844	27.2	6.9	10.65	337.44	21.30	
	FCL D1B	1.1	0.844	26.7	6.7				
	FCL D2	4.4	0.422	27.5	6.9				
	CLA D3	1.6	1.689	27.4	6.8				
	D4								
4	FCL D1A	1.1	0.847	26.6	6.9	10.66	325.97	21.31	
	FCL D1B	0.9	0.847	26.3	6.7				
	FCL D2	4.3	0.423	27.1	6.8				
	CLA D3	2.2	1.694	27.7	7.0				
	D4								
5	FCL D1A	0.9	0.843	28.8	6.8	9.92	296.71	19.85	
	FCL D1B	1.0	0.843	28.8	6.6				
	FCL D2	3.3	0.421	28.2	6.9				
	CLA D3	1.5	1.687	28.5	7.8				
	D4								
6	FCL D1A	1.1	0.836	29.1	6.9	12.33	380.86	24.66	
	FCL D1B	1.2	0.836	28.8	6.7				
	FCL D2	4.7	0.418	28.9	6.8				
	CLA D3	1.2	1.673	28.5	6.9				
	D4								
7	FCL D1A	1.2	0.854	28.5	6.6	11.38	330.90	22.75	
	FCL D1B	1.1	0.854	28.5	6.5				
	FCL D2	3.8	0.427	27.8	6.7				
	CLA D3	1.6	1.709	28.4	6.7				
	D4								
8	FCL D1A	1.8	0.846	28.6	6.8	11.72	352.42	23.45	
	FCL D1B	1.9	0.846	27.8	6.6				
	FCL D2	3.8	0.423	27.6	6.8				
	CLA D3	1.7	1.692	29.1	6.8				
	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	1.2	0.836	28.4	6.7	11.67	347.25	23.34	
	FCL D1B	1.3	0.836	28.7	6.4				
	FCL D2	3.8	0.418	28.0	6.8				
	CLA D3	2.6	1.673	29.4	7.0				
	D4								
10	FCL D1A	1.1	0.847	26.8	7.0	9.66	310.37	19.32	
	FCL D1B	1.4	0.847	26.2	6.9				
	FCL D2	3.6	0.423	27.6	7.0				
	CLA D3	1.4	1.694	25.9	7.2				
	D4								
11	FCL D1A	1.2	0.850	27.6	7.1	8.91	295.64	17.81	
	FCL D1B	1.1	0.850	27.5	6.8				
	FCL D2	3.3	0.425	28.0	7.2				
	CLA D3	1.4	1.700	28.0	7.0				
	D4								
12	FCL D1A	0.7	0.882	26.5	7.1	8.96	287.94	17.92	
	FCL D1B	0.6	0.882	26.6	6.9				
	FCL D2	3.7	0.441	27.2	7.0				
	CLA D3	1.3	1.764	26.3	6.8				
	D4								
13	FCL D1A	1.2	0.874	26.8	7.0	8.96	298.00	17.91	
	FCL D1B	1.1	0.874	26.0	6.8				
	FCL D2	3.8	0.437	26.8	7.1				
	CLA D3	1.1	1.749	28.1	7.0				
	D4								
14	FCL D1A	0.9	0.840	26.5	6.8	5.61	132.62	11.22	
	FCL D1B	0.9	0.840	26.1	6.6				
	FCL D2	1.6	0.420	25.8	6.7				
	CLA D3	1.5	1.681	25.7	6.6				
	D4								
15	FCL D1A	1.0	0.858	27.1	7.2	4.31	118.29	8.61	
	FCL D1B	1.0	0.858	25.9	7.1				
	FCL D2	1.4	0.429	25.0	7.3				
	CLA D3	2.3	1.716	28.8	7.1				
	D4								
16	FCL D1A	0.5	0.864	28.2	7.3	5.09	144.58	10.17	
	FCL D1B	0.5	0.864	28.4	7.3				
	FCL D2	1.6	0.432	28.4	7.2				
	CLA D3	1.6	1.728	28.2	6.8				
	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: WS0009456, C Date: October 10, 2015

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: September Year: 2015

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
17	FCL D1A	0.4	0.879	26.4	7.0	4.77	117.54	9.54	
	FCL D1B	0.4	0.879	26.3	6.8				
	FCL D2	1.5	0.439	27.2	7.0				
	CLA D3	2.8	1.759	28.2	6.9				
	D4								
18	FCL D1A	0.2	0.882	26.7	7.0	3.06	73.01	6.13	
	FCL D1B	0.2	0.882	25.6	6.9				
	FCL D2	0.9	0.441	27.0	7.1				
	CLA D3	2.4	1.785	26.7	7.1				
	D4								
19	FCL D1A	0.3	0.871	27.2	6.7	3.38	80.63	6.75	
	FCL D1B	0.2	0.871	26.4	6.5				
	FCL D2	1.0	0.435	26.9	7.1				
	CLA D3	2.3	1.743	28.6	6.8				
	D4								
20	FCL D1A	0.4	0.837	26.7	6.8	4.12	97.65	8.24	
	FCL D1B	0.5	0.837	26.5	6.6				
	FCL D2	1.2	0.418	26.0	6.9				
	CLA D3	2.2	1.674	28.1	7.0				
	D4								
21	FCL D1A	0.4	0.867	26.5	7.3	2.98	76.02	5.95	
	FCL D1B	0.3	0.867	26.1	6.9				
	FCL D2	0.9	0.433	27.9	7.4				
	CLA D3	2.4	1.735	25.9	7.4				
	D4								
22	FCL D1A	0.2	0.839	25.5	7.5	2.82	77.25	5.64	
	FCL D1B	0.2	0.839	25.8	7.2				
	FCL D2	1.0	0.419	26.9	7.5				
	CLA D3	2.3	1.679	28.3	7.5				
	D4								
23	FCL D1A	0.4	0.856	26.9	7.1	5.20	135.35	10.41	
	FCL D1B	0.5	0.856	25.9	7.0				
	FCL D2	1.6	0.428	28.0	7.0				
	CLA D3	2.4	1.713	26.0	7.1				
	D4								
24	FCL D1A	0.3	0.858	26.0	7.4	3.62	97.55	7.24	
	FCL D1B	0.3	0.858	25.1	7.2				
	FCL D2	1.3	0.429	26.0	7.3				
	CLA D3	2.4	1.716	26.3	7.3				
	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	0.6	0.867	25.4	7.6	3.67	118.39	7.34	
	FCL D1B	0.6	0.867	25.6	7.5				
	FCL D2	1.5	0.433	26.1	7.7				
	CLA D3	2.4	1.735	25.7	6.8				
	D4								
26	FCL D1A	0.4	0.897	25.6	6.9	3.35	92.17	6.69	
	FCL D1B	0.1	0.897	26.9	6.9				
	FCL D2	1.3	0.448	26.6	7.3				
	CLA D3	2.0	1.794	26.1	7.1				
	D4								
27	FCL D1A	0.6	0.888	26.4	7.4	3.14	97.98	6.28	
	FCL D1B	0.4	0.888	26.2	7.3				
	FCL D2	1.5	0.444	23.8	7.7				
	CLA D3	2.5	1.776	26.1	7.4				
	D4								
28	FCL D1A	1.0	0.899	26.2	7.3	5.74	169.06	11.48	
	FCL D1B	1.0	0.899	26.3	7.3				
	FCL D2	2.2	0.449	25.9	7.2				
	CLA D3	2.6	1.798	26.2	7.2				
	D4								
29	FCL D1A	0.2	0.875	24.7	7.1	3.98	115.49	7.96	
	FCL D1B	0.3	0.875	27.6	7.0				
	FCL D2	1.8	0.437	24.7	7.3				
	CLA D3	2.3	1.751	27.0	7.2				
	D4								
30	FCL D1A	0.6	0.865	25.9	7.1	4.93	143.09	9.86	
	FCL D1B	0.8	0.865	25.7	7.0				
	FCL D2	2.0	0.432	25.0	7.2				
	CLA D3	1.8	1.730	28.0	7.3				
	D4								
31	D1A								
	D1B								
	D2								
	D3								
	D4								

NOTE: The log removal credits for this plant were restricted on at least one day this month due to high free chlorine levels in one or more zones or trains.

	Max	Min	Avg	SD
Giardia	12.33	2.82	6.91	3.37
Virus	380.86	73.01	204.55	110.33
Inact. Ratio	24.86	5.64	13.82	6.73

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

SUBMITTED BY: Thomas Sanchez Jr Certificate No. and Grade: WS0009456, C Date: October 10, 2015

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: September Year: 2015

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										
1	9/2	100	3.25	2.26	30.5	25	1.22			1.22
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
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28										
29										
30										
31										
Avg		100.00	3.25	2.26	30.46		1.22			1.22
Max		100.00	3.25	2.26	30.46		1.22			1.22
Min		100.00	3.25	2.26	30.46		1.22			1.22

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	3.25	2.26	30.5	NA	1.22

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. and Grade: WS0009455, C Date: October 10, 2015

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