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

COPY

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: June 2015

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: WS0009456, C

Date: July 10, 2015

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	155	Number of 4-hour periods when plant was off-line:	25
Number of readings above 0.10 NTU:	140	Number of 4-hour periods when plant was on-line	
Number of readings above 0.3 NTU:	0	but turbidity data was not collected:	0
Number of readings above 0.5 NTU:	0	Number of days when plant was on-line	
Number of readings above 1.0 NTU:	0	but individual filter turbidity data was not collected:	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)

Statistical Summary

Maximum turbidity reading:	0.25 NTU	Average turbidity value:	0.15 NTU
Minimum turbidity reading:	0.06 NTU	Standard deviation:	0.038 NTU
CFE 95th percentile value:	0.21 NTU	IFE 95th percentile:	0.300 NTU

Bin Class: 2 Crypto Credit Required: 4.0 (7A) Crypto Credit Achieved: 0.0 (7B) Bin 3&4 Credits: 0.0 (7C)

Watershed Protection:	0.0	Conventional Treatment:	3.0	Second Stage Filtration:	0.0
Bank Filtration:	0.0	Enhanced Filter Performance:	0.0	UV:	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:	15.03 (R)
		Average log inactivation for viruses:	375.15 (R)
Number of days with a low CT 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		
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:	39 (at least 30 required) (8)		
Average disinfectant residual value:	1.03	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 required because there was at least one treatment technique or monitoring/reporting violation 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.

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: June Year: 2015

PUBLIC NOTICES

VIOLATION TYPE	DESCRIPTION OF VIOLATION	VIOLATION OCCURRED?	NOTICE TO TCEQ ▪ DATE OF NOTICE	NOTICE TO CUSTOMER * DATE OF NOTICE	NOTICE TO CUSTOMER * PENDING	VIOLATION DATES
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*	No				
	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.

SUMITTED BY: Tomas Sanchez Jr. Certificate No. and Grade: WS0009456, C Date: July 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: June Year: 2015

PUBLIC NOTICES

VIOLATION TYPE	DESCRIPTION OF VIOLATION	VIOLATION OCCURRED?	NOTICE TO TCEQ ■ DATE OF NOTICE	NOTICE TO CUSTOMER * DATE OF NOTICE	NOTICE TO CUSTOMER * PENDING	VIOLATION DATES
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 *Crptosporidium* 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				

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SUMITTED BY: Tomas Sanchez JR. Certificate No. and Grade: WS0009456, C Date: July 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:** 1,882

Month: June **Year:** 2015 **Population:** 6,587

PERFORMANCE DATA

Date	Raw Water Pumpage (MGD)	Treated Water Pumpage (MGD)	RAW WATER ANALYSES		SETTLED WATER TURBIDITY (Optional Data) Basin No.						FINISHED WATER QUALITY Combined Filter Effluent Turbidity						Lowest Residual	Time*
			NTU	Alk.	1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6		
1	0.665	0.673	12	100	1.5	0.4					X	X	0.14	0.14	0.12	0.11	1.4	
2	1.167	0.822	15	120	2.9	1.3					0.11	0.11	0.06	0.06	0.07	0.06	2.9	
3	1.173	0.842	15	120	0.8	0.5					0.06	0.07	0.08	0.08	0.08	0.09	1.5	
4	1.345	0.900	67	100	0.8	1.8					0.09	0.16	0.09	0.09	0.10	0.15	1.3	
5	1.476	0.923	18	120	0.9	0.7					0.15	0.08	0.13	0.13	0.12	0.14	1.1	
6	1.508	0.863	12	120	0.8	0.7					0.14	0.12	0.12	0.12	0.11	0.12	1.8	
7	1.403	0.994	13	120	0.9	1.9					0.12	X	0.13	0.13	0.13	0.12	1.4	
8	1.439	1.001	20	120	1.5	0.7					0.12	0.14	0.20	0.20	0.22	0.25	1.6	
9	1.327	1.063	14	100	0.8	0.6					0.25	X	0.18	0.18	0.18	0.18	0.5	
10	1.329	0.869	14	100	0.7	0.8					0.18	X	0.17	0.17	0.19	0.22	1.6	
11	1.284	1.057	15	100	0.7	0.9					0.22	X	0.17	0.17	0.15	0.19	1.0	
12	1.469	0.944	14	100	0.6	0.8					0.19	X	0.17	0.17	0.16	0.23	0.7	
13	1.362	0.995	11	100	0.6	0.6					0.23	X	0.16	0.16	0.16	0.18	1.2	
14	1.386	1.000	8	100	0.6	0.7					0.18	X	0.17	0.17	0.19	0.21	1.0	
15	1.443	1.053	8	120	0.7	0.6					0.21	X	0.16	0.16	0.16	0.16	1.2	
16	1.306	1.003	10	120	1.2	0.6					0.16	X	0.15	0.16	0.16	0.15	1.1	
17	1.437	0.855	9	120	1.4	0.5					0.15	0.17	0.18	0.21	0.21	0.19	1.1	
18	1.178	1.385	9	120	1.2	1.0					0.19	X	0.15	0.15	0.15	0.19	1.0	
19	1.284	0.351	8	120	1.0	0.6					0.19	X	0.15	0.15	0.15	0.17	2.0	
20	1.016	0.770	12	120	1.4	0.7					0.17	X	0.15	0.17	0.17	0.15	1.4	
21	1.300	0.812	11	100	0.8	0.6					0.15	X	0.15	0.16	0.16	0.16	2.0	
22	1.268	0.663	8	120	1.0	0.7					0.17	0.17	0.17	0.15	0.15	0.18	1.3	
23	1.454	0.860	16	120	1.0	0.6					0.18	0.18	0.14	0.18	0.18	0.17	1.3	
24	1.844	0.859	8	120	0.8	0.8					0.17	0.16	0.23	0.20	0.20	X	1.1	
25	1.166	0.711	7	120	1.1	0.6					X	0.20	0.20	0.17	0.17	0.18	2.1	
26	1.946	0.981	9	120	1.0	1.4					0.18	X	0.14	0.14	0.14	X	2.1	
27	0.746	0.783	12	100	0.9	1.5					X	X	0.13	0.14	0.14	0.12	2.1	
28	1.417	0.945	12	100	1.0	0.7					0.12	X	0.15	0.13	0.13	X	2.1	
29	1.073	0.815	9	100	0.8	0.8					X	X	0.13	0.13	0.13	0.14	2.1	
30	1.413	1.008	11	100	0.7	0.9					0.14	0.14	0.14	0.14	0.14	0.13	2.1	
31																		
Total	39.624	26.800																
Avg	1.321	0.893																
Max	1.946	1.385																
Min	0.665	0.351																

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:** July 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: June 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	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	0.28		0.27		0.28		0.19													
2	0.16		0.12		0.20		0.19													
3	0.14		0.15		0.14		0.16													
4	0.18		0.18		0.23		0.19													
5	0.28		0.26		0.32		0.28													
6	0.25		0.18		0.24		0.20													
7	0.22		0.13		0.19		0.22													
8	0.32		0.26		0.34		0.32													
9	0.29		0.29		0.27		0.22													
10	0.23		0.25		0.28		0.26													
11	0.24		0.28		0.25		0.26													
12	0.22		0.25		0.24		0.22													
13	0.23		0.23		0.20		0.26													
14	0.23		0.22		0.24		0.30													
15	0.26		0.20		0.28		0.21													
16	0.26		0.26		0.27		0.28													
17	0.24		0.26		0.20		0.29													
18	0.28		0.28		0.24		0.29													
19	0.24		0.21		0.26		0.24													
20	0.23		0.23		0.24		0.21													
21	0.20		0.24		0.22		0.26													
22	0.22		0.24		0.21		0.24													
23	0.22		0.21		0.20		0.29													
24	0.27		0.26		0.27		0.26													
25	0.22		0.28		0.30		0.28													
26	0.21		0.19		0.22		0.28													
27	0.16		0.18		0.19		0.19													
28	0.18		0.16		0.18		0.22													
29	0.25		0.27		0.15		0.30													
30	0.14		0.17		0.24		0.17													
31																				

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: WS0009456, C Date: July 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

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022 Plant ID No.: 20831 Month: June Year: 2015

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)	17.3	17.3	21.3	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*	1.4	0.866	25.0	6.4	8.01	252.92	16.03 (G)	
	FCL *D1B*	2.2	0.866	25.0	6.3				
	FCL *D2*	2.6	0.433	26.0	7.7				
	CLA *D3*	1.8	1.732	25.0	6.1				
	D4								
2	FCL *D1A*	1.1	0.608	27.0	6.4	19.29	429.59	38.58 (G)	
	FCL *D1B*	1.8	0.608	26.0	6.3				
	FCL *D2*	3.4	0.304	26.0	6.1				
	CLA *D3*	3.3	1.216	27.0	6.2				
	D4								
3	FCL *D1A*	1.0	0.584	26.0	6.0	19.62	402.13	39.25 (G)	
	FCL *D1B*	1.2	0.584	26.0	6.0				
	FCL *D2*	2.9	0.292	27.0	6.0				
	CLA *D3*	2.4	1.169	28.0	6.1				
	D4								
4	FCL *D1A*	1.0	0.810	27.0	6.1	14.99	325.91	29.98 (G)	
	FCL *D1B*	1.6	0.810	27.0	6.1				
	FCL *D2*	3.3	0.405	27.0	6.1				
	CLA *D3*	2.6	1.621	28.0	6.0				
	D4								
5	FCL *D1A*	0.1	0.804	28.0	6.1	7.01	140.66	14.02 (G)	
	FCL *D1B*	1.0	0.804	28.0	6.1				
	FCL *D2*	1.7	0.402	27.0	6.2				
	CLA *D3*	2.0	1.608	28.0	6.2				
	D4								
6	FCL *D1A*	0.5	0.792	26.9	6.6	12.49	345.42	24.97 (G)	
	FCL *D1B*	0.9	0.792	27.0	6.6				
	FCL *D2*	3.8	0.396	27.2	6.6				
	CLA *D3*	2.4	1.585	26.7	6.8				
	D4								
7	FCL *D1A*	0.8	0.808	27.6	6.4	13.29	311.59	26.57 (G)	
	FCL *D1B*	1.0	0.808	27.3	6.4				
	FCL *D2*	3.2	0.404	27.2	6.3				
	CLA *D3*	2.5	1.617	27.7	6.4				
	D4								
8	FCL *D1A*	0.9	0.802	27.7	6.5	15.00	364.25	30.00 (G)	
	FCL *D1B*	1.1	0.802	27.6	6.4				
	FCL *D2*	3.5	0.401	28.1	6.3				
	CLA *D3*	2.5	1.604	27.5	6.4				
	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*	1.5	0.795	26.6	6.3	15.81	396.42	31.62 (G)	
	FCL *D1B*	1.8	0.795	29.1	6.2				
	FCL *D2*	3.8	0.397	26.8	6.4				
	CLA *D3*	2.2	1.591	29.0	6.5				
	D4								
10	FCL *D1A*	1.8	0.763	28.0	6.4	16.51	493.72	33.02 (G)	
	FCL *D1B*	2.3	0.763	28.0	6.2				
	FCL *D2*	4.2	0.381	28.0	7.0				
	CLA *D3*	2.1	1.527	28.0	6.8				
	D4								
11	FCL *D1A*	1.2	0.768	26.6	6.4	15.28	387.00	30.55 (G)	
	FCL *D1B*	0.8	0.768	27.0	6.4				
	FCL *D2*	4.3	0.384	27.0	6.3				
	CLA *D3*	2.1	1.537	29.0	6.4				
	D4								
12	FCL *D1A*	1.1	0.906	28.5	6.4	9.98	266.92	19.96 (G)	
	FCL *D1B*	1.6	0.906	27.1	6.4				
	FCL *D2*	3.1	0.453	25.4	6.9				
	CLA *D3*	2.5	1.812	28.8	6.7				
	D4								
13	FCL *D1A*	1.5	0.766	28.0	5.8	18.64	395.15	37.28 (G)	
	FCL *D1B*	2.4	0.766	28.0	5.6				
	FCL *D2*	3.4	0.383	27.0	5.6				
	CLA *D3*	2.0	1.533	27.0	5.7				
	D4								
14	FCL *D1A*	1.8	0.774	29.2	6.5	15.49	519.83	30.98 (G)	
	FCL *D1B*	1.9	0.774	29.2	6.3				
	FCL *D2*	4.4	0.387	29.0	7.4				
	CLA *D3*	1.8	1.548	29.3	6.5				
	D4								
15	FCL *D1A*	2.1	0.794	29.9	6.5	20.46	503.08	40.93 (G)	
	FCL *D1B*	2.6	0.794	29.8	6.5				
	FCL *D2*	3.4	0.397	29.8	6.3				
	CLA *D3*	1.9	1.589	28.8	6.6				
	D4								
16	FCL *D1A*	1.2	0.781	28.0	6.4	15.76	368.07	31.52 (G)	
	FCL *D1B*	1.4	0.781	29.0	6.3				
	FCL *D2*	3.2	0.390	28.0	6.3				
	CLA *D3*	2.7	1.562	28.0	6.5				
	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: July 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: June Year: 2015

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)	17.30	17.30	21.30	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*	1.3	0.761	29.4	6.3	19.52	466.34	39.03 (G)	
	FCL *D1B*	1.7	0.761	29.7	6.3				
	FCL *D2*	3.5	0.380	29.9	6.3				
	CLA *D3*	2.4	1.523	30.3	6.4				
	D4								
18	FCL *D1A*	0.8	0.757	29.1	6.3	17.40	427.23	34.79 (G)	
	FCL *D1B*	1.0	0.757	29.3	6.3				
	FCL *D2*	3.8	0.378	28.7	6.3				
	CLA *D3*	2.2	1.514	29.9	6.4				
	D4								
19	FCL *D1A*	0.8	0.763	29.2	6.3	15.75	371.51	31.50 (G)	
	FCL *D1B*	1.1	0.763	29.5	6.3				
	FCL *D2*	3.4	0.381	28.0	6.3				
	CLA *D3*	2.5	1.526	30.1	6.4				
	D4								
20	FCL *D1A*	1.1	0.787	29.4	6.2	18.94	463.73	37.89 (G)	
	FCL *D1B*	1.9	0.787	29.6	6.2				
	FCL *D2*	3.9	0.393	29.5	6.3				
	CLA *D3*	2.5	1.575	29.8	6.4				
	D4								
21	FCL *D1A*	1.4	0.794	28.0	6.4	16.12	400.90	32.24 (G)	
	FCL *D1B*	1.7	0.794	27.0	6.3				
	FCL *D2*	3.5	0.397	28.0	6.4				
	CLA *D3*	1.2	1.589	27.0	6.3				
	D4								
22	FCL *D1A*	1.0	0.779	28.0	6.4	13.85	314.48	27.69 (G)	
	FCL *D1B*	1.0	0.779	27.0	6.3				
	FCL *D2*	3.0	0.389	27.0	6.3				
	CLA *D3*	2.8	1.558	26.0	6.5				
	D4								
23	FCL *D1A*	1.2	0.803	27.2	6.5	13.84	340.61	27.68 (G)	
	FCL *D1B*	1.3	0.803	26.8	6.5				
	FCL *D2*	3.3	0.401	26.9	6.5				
	CLA *D3*	2.6	1.607	27.8	6.5				
	D4								
24	FCL *D1A*	1.0	0.809	27.6	6.9	13.33	347.55	26.65 (G)	
	FCL *D1B*	1.7	0.809	27.3	6.5				
	FCL *D2*	3.7	0.404	26.5	6.4				
	CLA *D3*	2.5	1.618	26.6	6.5				
	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*	1.0	0.808	27.0	6.5	11.50	308.92	23.01 (G)	
	FCL *D1B*	1.6	0.808	26.7	6.4				
	FCL *D2*	3.7	0.404	24.4	6.7				
	CLA *D3*	3.2	1.617	26.5	6.5				
	D4								
26	FCL *D1A*	1.1	0.810	25.9	6.6	11.88	318.12	23.77 (G)	
	FCL *D1B*	1.3	0.810	25.5	6.4				
	FCL *D2*	3.2	0.405	26.8	6.7				
	CLA *D3*	2.5	1.620	28.3	6.7				
	D4								
27	FCL *D1A*	1.4	0.778	28.0	6.4	14.29	384.24	28.58 (G)	
	FCL *D1B*	1.6	0.778	27.5	6.3				
	FCL *D2*	4.4	0.389	25.0	6.6				
	CLA *D3*	1.3	1.556	28.3	6.5				
	D4								
28	FCL *D1A*	1.2	0.780	28.6	6.4	17.45	428.42	34.91 (G)	
	FCL *D1B*	1.7	0.780	28.4	6.2				
	FCL *D2*	5.3	0.390	27.6	6.3				
	CLA *D3*	1.6	1.560	29.9	6.4				
	D4								
29	FCL *D1A*	0.9	0.743	27.8	6.7	14.17	415.16	28.34 (G)	
	FCL *D1B*	0.7	0.743	28.3	6.8				
	FCL *D2*	4.3	0.371	27.8	6.7				
	CLA *D3*	1.8	1.487	28.8	6.4				
	D4								
30	FCL *D1A*	0.1	0.717	29.0	6.2	15.09	364.57	30.18 (G)	
	FCL *D1B*	0.2	0.717	28.0	6.2				
	FCL *D2*	3.7	0.358	28.0	6.2				
	CLA *D3*	2.1	1.434	29.0	7.6				
	D4								
31	*D1A*								
	D1B								
	D2								
	D3								
	D4								
	Max					20.46	519.83	40.93	
	Min					7.01	140.66	14.02	
	Avg					15.03	375.15	30.05	
	SD					3.22	78.03	6.45	

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.

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: July 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: June

Year: 2015

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	6/3	120	4.42	2.47	44.1	35	1.26			1.26
2										
3										
4										
5										
6										
7										
8										
9										
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Avg		120.00	4.42	2.47	44.12		1.26			1.26
Max		120.00	4.42	2.47	44.12		1.26			1.26
Min		120.00	4.42	2.47	44.12		1.26			1.26

TOTAL ORGANIC CARBON (TOC) REMOVAL SUMMARY

TOC Summary					Monthly Compliance Ratio
Raw Water Alkalinity	Raw Water TOC	Treated Water TOC	TOC % Removal	ACC # used	
120	4.42	2.47	44.1	NA	1.26

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: WS0009456, C Date: July 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