

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: <u>Webb County Water Utilities</u>	PLANT NAME OR NUMBER: <u>Rio Bravo</u>
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.: <u>2400022</u>	Operator's Signature:
Plant ID No.: <u>20831</u>	Certificate No. & Grade: <u>WS0014086, B</u>
Report for the Month of: <u>May 2024</u>	Date: <u>June 10, 2024</u>

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	133	Number of 4-hour periods when plant was off-line:	53				
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 6.0 NTU:	0 (3)				
Maximum allowable turbidity level:	0.3						
Percentage of readings above this limit:	0.0 % (1)						
<table border="0" style="width: 100%;"> <tr> <td>Bin Class: <u>2</u></td> <td>Crypto Credit Required: <u>4.0 (7A)</u></td> <td>Crypto Credit Achieved: <u>4.5 (7B)</u></td> <td>Bin 3&4 Credits: <u>1.0 (7C)</u></td> </tr> </table>				Bin Class: <u>2</u>	Crypto Credit Required: <u>4.0 (7A)</u>	Crypto Credit Achieved: <u>4.5 (7B)</u>	Bin 3&4 Credits: <u>1.0 (7C)</u>
Bin Class: <u>2</u>	Crypto Credit Required: <u>4.0 (7A)</u>	Crypto Credit Achieved: <u>4.5 (7B)</u>	Bin 3&4 Credits: <u>1.0 (7C)</u>				
Watershed Protection:	0.0	Conventional Treatment:	3.0				
Bank Filtration:	0.0	Enhanced Filter Performance:	0.6				
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:	7.28				
Number of days with low inactivation (including UV) for more than 4.0 consecutive hours:	0 (4)	Average log inactivation (including UV) for viruses:	74.35				
		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:	0.6 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:	6.29				
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:	28.00				
		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:	47 (at least 31 required) (8)	Percentage of readings with a low residual this month:	0.0 % (6A)
Average disinfectant residual value:	2.47	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: 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-TCCMOR
Alternate Technol.	UV-CDA	UV-Sensor Data	UV-UVT Analyzer

STATISTICAL ANALYSIS OF TURBIDITY DATA

Settled Water Statistical Summary	Maximum turbidity reading: <u>5.86</u> NTU Minimum turbidity reading: <u>1.12</u> NTU 95 th percentile value: <u>5.00</u> NTU	Average turbidity value: <u>2.05</u> NTU Standard deviation: <u>1.165</u> NTU
IFE Statistical Summary	Maximum IFE turbidity reading: <u>0.16</u> NTU Minimum IFE turbidity reading: <u>0.06</u> NTU 95 th percentile IFE value: <u>0.12</u> NTU	Average IFE turbidity value: <u>0.08</u> NTU Standard deviation: <u>0.018</u> NTU
CFE Statistical Summary	Maximum CFE turbidity reading: <u>0.09</u> NTU Minimum CFE turbidity reading: <u>0.05</u> NTU 95 th percentile CFE value: <u>0.08</u> NTU	Average CFE turbidity value: <u>0.07</u> NTU Standard deviation: <u>0.007</u> NTU

STATISTICAL ANALYSIS OF pH DATA

Last Zone pH Statistical Summary	Maximum pH reading: <u>7.53</u> pH Minimum pH reading: <u>6.29</u> pH 95 th percentile value: <u>7.08</u> pH	Average pH value: <u>6.82</u> pH Standard deviation: <u>0.206</u> pH
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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: 1,995

Month: May Year: 2024 Population: 6,992

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 ^h	
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6			
1	1.051	1.016	19	120	1.7	1.2						X	X	0.07	0.07	0.08	0.07	0.8	
2	1.139	1.093	17	120	1.3	1.2						X	X	0.08	0.06	0.06	0.07	2.4	
3	1.146	1.009	17	120	1.2	1.2						0.08	X	0.07	0.05	0.07	0.06	2.7	
4	1.059	0.924	21	120	1.1	1.3						X	X	0.06	0.06	0.07	0.06	2.8	
5	0.864	0.812	16	120	1.1	1.3						X	X	X	0.07	0.07	0.08	2.8	
6	1.072	0.999	24	120	1.5	1.4						X	X	0.07	0.07	0.07	0.07	2.6	
7	1.068	0.994	23	100	1.5	1.4						X	X	0.06	0.06	0.07	0.07	2.2	
8	1.132	0.995	19	100	1.5	1.4						X	X	0.08	0.08	0.07	0.07	3.0	
9	1.124	1.027	15	100	1.6	1.5						0.07	X	0.06	0.06	0.07	0.05	2.2	
10	1.131	1.026	25	100	1.5	1.5						X	X	0.06	0.06	0.07	0.06	3.0	
11	1.081	1.027	33	100	1.5	1.5						X	X	0.06	0.06	0.07	0.05	3.2	
12	1.104	0.990	26	100	1.5	1.6						X	X	0.06	0.06	0.06	0.06	3.0	
13	1.062	0.931	22	100	1.6	1.6						X	X	0.06	0.08	0.06	0.06	2.2	
14	1.110	1.198	9	120	1.6	1.6						X	X	0.06	0.08	0.06	0.06	2.2	
15	1.200	0.933	15	100	1.6	1.6						X	X	0.06	0.06	0.06	0.06	2.9	
16	1.185	1.214	18	100	1.6	1.6						X	X	0.06	0.06	0.08	0.06	2.9	
17	1.081	0.878	18	100	1.7	1.6						X	X	0.07	0.07	0.07	0.07	2.0	
18	1.055	0.878	21	100	1.8	1.6						X	X	0.07	0.07	0.07	0.06	2.5	
19	1.096	0.969	16	100	1.8	1.6						X	X	0.06	0.06	0.06	0.06	1.9	
20	1.161	0.997	20	100	1.9	1.6						X	X	0.07	0.06	0.08	0.09	2.3	
21	1.120	1.023	30	100	2.2	1.6						0.08	X	0.08	0.09	0.07	0.07	2.7	
22	1.163	0.955	30	100	2.1	1.6						X	X	0.08	0.07	0.07	0.07	3.7	
23	1.146	1.061	36	100	2.9	1.6						X	X	0.06	0.06	0.06	0.07	3.2	
24	1.222	1.112	58	100	3.9	1.6						0.08	X	0.08	0.07	0.07	0.07	3.2	
25	1.295	1.052	44	100	4.2	1.6						0.07	X	0.07	0.07	0.07	0.07	3.7	
26	1.192	1.119	18	120	4.9	2.4						X	0.07	0.06	0.06	0.06	0.06	2.4	
27	1.261	1.160	24	100	1.8	5.1						0.07	X	0.07	0.07	0.08	0.07	3.0	
28	1.014	0.782	18	100	1.9	5.9						0.07	X	0.08	0.07	0.07	0.07	2.9	
29	1.227	0.998	23	80	5.0	4.3						X	0.06	0.07	0.08	0.07	0.07	2.3	
30	0.955	0.822	17	80	1.9	5.0						0.06	X	0.07	0.07	0.07	0.07	1.2	
31	0.971	0.687	18	80	1.6	4.4						X	X	0.07	0.07	0.07	0.07	2.8	
Total	34.509	30.679			Max	5.0	5.9												
Avg	1.113	0.990			Avg	2.0	2.1												
Max	1.295	1.214			95th %	4.6	5.0												
Min	0.864	0.687			Min	1.1	1.2												
					95th percentile based on data from all basins												5.0		

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: Jase A Vasquez Certificate No. and Grade: WS0014086, B Date: June 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: May Year: 2024

DISINFECTION PROCESS PARAMETERS

APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
Parameters	Disinfection Zones					Log Inactivations	
	D1A	D1B	D2	D3	D4	Giardia lamblia Cysts	Viruses
Flow Rate (MGD)	1.250	1.250	0.625	1.250		0.5	2.0
T ₁₀ (minutes)	7.9	7.9	21.0	60.4			

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time ₁₀
1	FCL D1A	0.4	0.868	26.0	6.9				
	FCL D1B	0.6	0.868	26.0	6.9				
	FCL D2	0.4	0.434	25.8	7.1	2.03	38.16	4.06	
	CLA D3	1.9	0.868	25.7	6.9			(S)	
	D4								
2	FCL D1A	1.2	0.847	26.4	6.9				
	FCL D1B	1.3	0.847	26.5	6.9				
	FCL D2	0.8	0.423	26.5	7.2	4.12	89.49	8.24	
	CLA D3	2.7	0.847	26.1	7.5			(G)	
	D4								
3	FCL D1A	0.7	0.883	26.8	6.9				
	FCL D1B	0.8	0.883	26.3	6.9				
	FCL D2	0.5	0.441	26.9	6.8	3.27	57.98	6.54	
	CLA D3	3.3	0.883	26.6	6.3			(G)	
	D4								
4	FCL D1A	0.5	0.890	27.1	6.9				
	FCL D1B	0.4	0.890	27.0	6.8				
	FCL D2	0.6	0.445	27.2	7.0	3.17	56.04	6.33	
	CLA D3	3.4	0.890	27.2	6.8			(G)	
	D4								
5	FCL D1A	1.6	0.880	27.1	7.0				
	FCL D1B	1.5	0.880	27.0	7.0				
	FCL D2	1.0	0.440	27.1	7.0	5.11	112.81	10.21	
	CLA D3	3.4	0.880	27.2	7.0			(G)	
	D4								
6	FCL D1A	0.6	0.908	26.1	6.8				
	FCL D1B	0.6	0.908	26.2	6.6				
	FCL D2	0.7	0.454	26.2	6.6	3.77	64.06	7.54	
	CLA D3	3.7	0.908	27.5	6.7			(G)	
	D4								
7	FCL D1A	0.2	0.880	25.4	6.6				
	FCL D1B	0.3	0.880	25.8	6.6				
	FCL D2	0.3	0.440	24.9	6.3	2.26	28.51	4.52	
	CLA D3	3.2	0.880	25.8	6.6			(G)	
	D4								
8	FCL D1A	0.2	0.881	25.9	6.8				
	FCL D1B	0.3	0.881	25.9	6.7				
	FCL D2	0.6	0.441	27.5	6.9	3.11	55.02	6.21	
	CLA D3	3.2	0.881	27.9	6.6			(G)	
	D4								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time ₁₀
9	FCL D1A	0.3	0.894	27.2	7.2				
	FCL D1B	0.2	0.894	26.4	7.0				
	FCL D2	0.4	0.447	26.6	7.1	2.29	37.40	4.57	
	CLA D3	3.3	0.894	27.1	7.2			(G)	
	D4								
10	FCL D1A	0.6	0.866	27.3	6.8				
	FCL D1B	0.7	0.866	27.1	6.8				
	FCL D2	0.5	0.433	26.8	6.9	3.18	56.18	6.37	
	CLA D3	3.1	0.866	26.4	6.9			(G)	
	D4								
11	FCL D1A	0.9	0.887	26.6	6.9				
	FCL D1B	1.0	0.887	26.9	6.8				
	FCL D2	1.1	0.444	26.4	7.0	4.77	98.10	9.54	
	CLA D3	4.0	0.887	27.7	6.9			(G)	
	D4								
12	FCL D1A	0.6	0.906	26.7	6.9				
	FCL D1B	0.5	0.906	26.9	6.9				
	FCL D2	0.7	0.453	25.8	7.1	3.17	59.60	6.34	
	CLA D3	3.3	0.906	27.4	6.9			(G)	
	D4								
13	FCL D1A	0.4	0.913	26.7	6.9				
	FCL D1B	0.4	0.913	26.3	7.0				
	FCL D2	0.5	0.456	26.3	7.0	2.55	46.20	5.10	
	CLA D3	2.7	0.913	28.2	7.0			(G)	
	D4								
14	FCL D1A	0.5	0.877	27.9	6.6				
	FCL D1B	0.5	0.877	27.4	6.6				
	FCL D2	0.6	0.438	26.5	6.9	3.42	59.51	6.84	
	CLA D3	3.7	0.877	27.4	6.6			(S)	
	D4								
15	FCL D1A	1.0	0.833	27.1	6.8				
	FCL D1B	1.1	0.833	26.4	6.9				
	FCL D2	0.6	0.417	27.4	6.9	4.22	76.73	8.44	
	CLA D3	4.2	0.833	28.3	6.8			(G)	
	D4								
16	FCL D1A	0.9	0.874	27.8	6.8				
	FCL D1B	0.9	0.874	27.3	6.9				
	FCL D2	0.9	0.437	28.0	7.0	4.58	94.58	9.15	
	CLA D3	3.3	0.874	29.1	6.9			(G)	
	D4								

NOTE: = ONLY use the "Time₁₀" column to show the length of time that the total inactivation ratio was less than 1.00.

SUBMITTED BY: Jose A Vasquez Certificate No. and Grade: WS0014086, B Date: June 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

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022

Plant ID No.: 20831

Month: May

Year: 2024

DISINFECTION PROCESS PARAMETERS

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

PERFORMANCE DATA

Date	DISINFECTION PROCESS DATA									
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time@	
17	FCL D1A	0.4	0.815	26.0	6.9					
	FCL D1B	0.4	0.815	25.6	6.8					
	FCL D2	0.7	0.408	25.8	7.0	3.32	60.30	6.64		
	CLA D3	3.2	0.815	28.1	6.9			(G)		
	D4									
18	FCL D1A	0.3	0.832	27.1	6.9					
	FCL D1B	0.2	0.832	27.4	6.9					
	FCL D2	0.8	0.416	26.7	7.0	3.61	69.17	7.23		
	CLA D3	3.4	0.832	28.7	6.9			(G)		
	D4									
19	FCL D1A	0.3	0.840	26.4	6.9					
	FCL D1B	0.2	0.840	27.4	6.8					
	FCL D2	0.2	0.420	27.3	6.9	1.89	27.59	3.78		
	CLA D3	2.7	0.840	27.2	7.0			(G)		
	D4									
20	FCL D1A	0.2	0.819	27.8	6.7					
	FCL D1B	0.3	0.819	27.7	6.7					
	FCL D2	0.6	0.410	27.6	6.8	3.39	55.06	6.78		
	CLA D3	3.7	0.819	28.4	6.8			(G)		
	D4									
21	FCL D1A	0.3	0.804	27.0	6.7					
	FCL D1B	0.4	0.804	27.3	6.6					
	FCL D2	1.1	0.402	27.0	6.8	4.97	94.46	9.95		
	CLA D3	3.9	0.804	27.9	6.8			(G)		
	D4									
22	FCL D1A	0.4	0.878	28.4	6.7					
	FCL D1B	0.4	0.878	28.1	6.6					
	FCL D2	0.9	0.439	27.2	7.2	3.99	80.16	7.97		
	CLA D3	3.9	0.878	27.8	6.8			(G)		
	D4									
23	FCL D1A	0.7	0.850	28.2	6.7					
	FCL D1B	0.7	0.850	28.3	6.7					
	FCL D2	1.2	0.425	26.8	6.9	5.19	107.05	10.37		
	CLA D3	3.5	0.850	28.8	6.7			(G)		
	D4									
24	FCL D1A	0.4	0.829	27.7	6.6					
	FCL D1B	0.5	0.829	28.0	6.6					
	FCL D2	0.8	0.415	28.0	6.7	4.53	78.59	9.05		
	CLA D3	4.0	0.829	28.4	6.8			(G)		
	D4									

PERFORMANCE DATA

Date	DISINFECTION PROCESS DATA									
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time@	
25	FCL D1A	0.2	0.850	28.5	6.8					
	FCL D1B	0.4	0.850	27.3	6.7					
	FCL D2	0.7	0.425	27.4	7.1	3.51	66.40	7.02		
	CLA D3	3.8	0.850	30.0	6.8			(G)		
	D4									
26	FCL D1A	1.0	0.829	28.1	6.7					
	FCL D1B	1.1	0.829	28.3	6.7					
	FCL D2	1.2	0.414	27.6	6.9	6.24	130.83	12.49		
	CLA D3	4.2	0.829	28.9	6.8			(G)		
	D4									
27	FCL D1A	0.7	0.796	28.4	6.7					
	FCL D1B	0.8	0.796	27.9	6.6					
	FCL D2	0.7	0.398	28.3	6.8	4.47	83.28	8.94		
	CLA D3	3.1	0.796	28.5	6.7			(G)		
	D4									
28	FCL D1A	0.6	0.876	27.3	6.8					
	FCL D1B	0.6	0.876	28.3	6.7					
	FCL D2	0.6	0.438	27.6	7.0	3.37	81.66	8.73		
	CLA D3	3.3	0.876	28.1	6.8			(G)		
	D4									
29	FCL D1A	1.7	0.827	27.3	6.8					
	FCL D1B	1.5	0.827	27.8	6.9					
	FCL D2	1.3	0.413	27.3	6.5	7.35	150.33	14.70		
	CLA D3	3.9	0.827	27.4	6.8			(G)		
	D4									
30	FCL D1A	1.0	0.833	27.2	6.7					
	FCL D1B	0.9	0.833	27.3	6.7					
	FCL D2	0.9	0.417	27.2	6.9	5.02	101.61	10.03		
	CLA D3	3.2	0.833	26.1	6.8			(G)		
	D4									
31	FCL D1A	0.9	0.833	28.3	6.9					
	FCL D1B	0.9	0.833	29.3	7.0					
	FCL D2	0.9	0.417	28.6	7.0	5.14	107.71	10.28		
	CLA D3	3.5	0.833	28.3	6.8			(G)		
	D4									

Max	7.35	150.33	14.70
Min	1.89	27.59	3.78
Avg	3.90	74.34	7.81
SD	1.21	28.89	2.41

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

SUBMITTED BY:

Jose A. Vasquez

Certificate No. and Grade: WS0014086, B

Date: June 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: Wabb County Water Utilities PLANT NAME OR NUMBER: Rio Bravo
 PWS ID No.: 2400022 Plant ID No.: 20831 Month: May 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	5/13	100	5.41	3.45	36.2	35	1.04			1.04
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Avg		100.00	5.41	3.45	36.23		1.04			1.04
Max		100.00	5.41	3.45	36.23		1.04			1.04
Min		100.00	5.41	3.45	36.23		1.04			1.04

TOTAL ORGANIC CARBON (TOC) REMOVAL SUMMARY

TOC Summary					Monthly Compliance Ratio
Raw Water Alkalinity	Raw Water TOC	Treated Water TOC	TOC % Removal	ACC # used	
100	5.41	3.45	36.2	NA	1.04

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: WS0014086, B

Date: June 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.: 2408022

Plant ID No.: 20831

Month: May

Year: 2024

VALIDATED OPERATIONAL CONDITIONS

VALIDATED PARAMETERS					PERFORMANCE REQUIREMENTS		
Parameters	Reactor Number					Crypto Log Inactivation	Required UV Dose (mJ/cm ²)
	UVCD1	UVCD2	UVCD3	UVCD4	UVCD5		
Max Validated Flow Rate (MGD)	5.080	5.080	5.080			1.0	2.50
Min Validated UVT (%)	69.20	69.20	69.20				

PERFORMANCE DATA

Date	OPERATIONAL DATA								
	Reactor	Total Product. (MG)	Max. Flow Rate (MGD)	Min UV Trans. (%)	Minimum Meas'd UV Dose (mJ/cm ²)	Sensor CF	Adjusted Minimum UV Dose (mJ/cm ²)	Total Off-Spec Product. (MG)	Consec. Off-Spec Hours (hr)
1	1	0.426	0.757	95.04	23.69	1.00	23.69	0.000	0.000
	2	0.555	0.833	95.04	19.36	1.00	19.36	0.000	
	3	X	X	X	X	X	X	X	
	4								
	5								
2	1	0.449	0.862	95.13	23.94	1.00	23.94	0.000	0.000
	2	0.583	1.154	95.13	22.07	1.00	22.07	0.000	
	3	X	X	X	X	X	X	X	
	4								
	5								
3	1	0.131	0.734	95.29	23.78	1.00	23.78	0.000	0.25
	2	0.824	0.989	95.29	0.00	1.00	0.00	0.010	
	3	0.320	1.497	95.29	16.99	1.00	16.99	0.000	
	4								
	5								
4	1	X	X	X	X	X	X	X	0.000
	2	0.585	1.032	94.65	14.21	1.00	14.21	0.000	
	3	0.391	0.698	94.65	24.48	1.00	24.48	0.000	
	4								
	5								
5	1	X	X	X	X	X	X	X	0.000
	2	0.483	1.018	94.52	7.78	1.00	7.78	0.000	
	3	0.323	0.684	94.52	25.13	1.00	25.13	0.000	
	4								
	5								
6	1	X	X	X	X	X	X	X	0.000
	2	0.583	1.143	92.41	17.58	1.00	17.58	0.000	
	3	0.391	0.783	92.41	25.01	1.00	25.01	0.000	
	4								
	5								
7	1	X	X	X	X	X	X	X	0.000
	2	0.604	1.084	91.82	5.19	1.00	5.19	0.000	
	3	0.403	0.707	91.82	26.02	1.00	26.02	0.000	
	4								
	5								
8	1	X	X	X	X	X	X	X	0.000
	2	0.607	1.197	92.34	17.40	1.00	17.40	0.000	
	3	0.407	0.604	92.34	26.40	1.00	26.40	0.000	
	4								
	5								

PERFORMANCE DATA

Date	OPERATIONAL DATA								
	Reactor	Total Product. (MG)	Max. Flow Rate (MGD)	Min UV Trans. (%)	Minimum Meas'd UV Dose (mJ/cm ²)	Sensor CF	Adjusted Minimum UV Dose (mJ/cm ²)	Total Off-Spec Product. (MG)	Consec. Off-Spec Hours (hr)
9	1	X	X	X	X	X	X	X	0.000
	2	0.613	1.160	91.91	17.27	1.00	17.27	0.000	
	3	0.409	0.783	91.91	26.23	1.00	26.23	0.000	
	4								
	5								
10	1	0.447	1.011	90.51	19.22	1.00	19.22	0.000	0.000
	2	0.108	1.002	90.51	16.95	1.00	16.95	0.000	
	3	0.483	0.949	90.51	25.33	1.00	25.33	0.000	
	4								
	5								
11	1	0.521	0.890	91.43	23.25	1.00	23.25	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.483	0.813	91.43	26.81	1.00	26.81	0.000	
	4								
	5								
12	1	0.524	0.962	90.08	22.70	1.00	22.70	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.488	0.895	90.08	26.47	1.00	26.47	0.000	
	4								
	5								
13	1	0.487	1.018	89.85	16.93	1.00	16.93	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.480	0.950	89.85	25.40	1.00	25.40	0.000	
	4								
	5								
14	1	0.513	0.881	91.11	22.25	1.00	22.25	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.478	0.821	91.11	26.23	1.00	26.23	0.000	
	4								
	5								
15	1	0.570	0.970	91.22	22.08	1.00	22.08	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.528	0.905	91.22	25.84	1.00	25.84	0.000	
	4								
	5								
16	1	0.563	0.989	91.27	22.05	1.00	22.05	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.522	0.918	91.27	25.68	1.00	25.68	0.000	
	4								
	5								

SUBMITTED BY:

José A. Vasquez

Certificate No.
and Grade:

WS0014086, B

Date:

June 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.: 2408022

Plant ID No.: 20831

Month: May

Year: 2024

TRUE

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

OPERATIONAL DATA									
Date	Reactor	Total Product (MG)	Max. Flow Rate (MGD)	Min UV Trans. (%)	Minimum Meas'd UV Dose (mJ/cm ²)	Sensor CF	Adjusted Minimum UV Dose (mJ/cm ²)	Total Off-Spec Product (MG)	Consec. Off-Spec Hours (hr)
17	1	0.525	0.908	91.08	24.03	1.00	24.03	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.488	0.840	91.08	26.45	1.00	26.45	0.000	
	4								
	5								
18	1	0.499	0.889	91.20	23.78	1.00	23.78	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.462	0.810	91.20	24.73	1.00	24.73	0.000	
	4								
	5								
19	1	0.522	0.856	91.46	24.66	1.00	24.66	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.486	0.801	91.46	26.32	1.00	26.32	0.000	
	4								
	5								
20	1	0.531	0.880	90.69	17.94	1.00	17.94	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.492	0.845	90.69	24.14	1.00	24.14	0.000	
	4								
	5								
21	1	0.459	0.885	90.61	18.21	1.00	18.21	0.000	0.000
	2	0.552	0.890	90.61	22.26	1.00	22.26	0.000	
	3	0.032	0.916	90.61	24.22	1.00	24.22	0.000	
	4								
	5								
22	1	0.452	0.794	90.29	25.03	1.00	25.03	0.000	0.25
	2	0.589	1.007	90.29	0.00	1.00	0.00	0.009	
	3	X	X	X	X	X	X	X	
	4								
	5								
23	1	0.449	0.716	90.73	26.60	1.00	26.60	0.000	0.000
	2	0.584	0.909	90.73	18.50	1.00	18.50	0.000	
	3	X	X	X	X	X	X	X	
	4								
	5								
24	1	0.467	0.756	90.04	26.54	1.00	26.54	0.000	0.000
	2	0.608	0.984	90.04	5.13	1.00	5.13	0.000	
	3	X	X	X	X	X	X	X	
	4								
	5								

PERFORMANCE DATA

OPERATIONAL DATA									
Date	Reactor	Total Product (MG)	Max. Flow Rate (MGD)	Min UV Trans. (%)	Minimum Meas'd UV Dose (mJ/cm ²)	Sensor CF	Adjusted Minimum UV Dose (mJ/cm ²)	Total Off-Spec Product (MG)	Consec. Off-Spec Hours (hr)
25	1	0.511	0.717	90.48	25.01	1.00	25.01	0.000	0.000
	2	0.667	0.937	90.48	19.29	1.00	19.29	0.000	
	3	X	X	X	X	X	X	X	
	4								
	5								
26	1	0.467	0.700	90.26	26.35	1.00	26.35	0.000	0.000
	2	0.609	0.909	90.26	8.85	1.00	8.85	0.000	
	3	X	X	X	X	X	X	X	
	4								
	5								
27	1	0.476	0.864	85.40	24.35	1.00	24.35	0.000	0.000
	2	0.623	0.903	85.40	16.68	1.00	16.68	0.000	
	3	X	X	X	X	X	X	X	
	4								
	5								
28	1	0.457	0.879	84.25	17.32	1.00	17.32	0.000	0.000
	2	0.129	0.967	84.25	15.79	1.00	15.79	0.000	
	3	0.337	0.818	84.25	23.29	1.00	23.29	0.000	
	4								
	5								
29	1	0.577	0.876	85.68	18.44	1.00	18.44	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.534	0.803	85.68	19.88	1.00	19.88	0.000	
	4								
	5								
30	1	0.457	0.869	85.70	25.61	1.00	25.61	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.424	0.799	85.70	25.96	1.00	25.96	0.000	
	4								
	5								
31	1	0.457	0.904	85.48	25.04	1.00	25.04	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.425	0.832	85.48	26.07	1.00	26.07	0.000	
	4								
	5								

SUBMITTED BY:

Jose A Vasquez

Certificate No.
and Grade:

WS0014086, B

Date:

June 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: May Year: 2024

CALIBRATION DATA									
CDA Reactor Number	UV Sensor Calibration Report for Calculated Dose Reactors								
	Calibration Date and Data	Duty Sensor	Duty Sensor Serial #	Ref Sensor Serial #	Duty Sensor Reading (mJ/cm ²)	Ref Sensor Reading (mJ/cm ²)	Cal Ratio	Duty Sensor Replaced?	Calculated Sensor CF
UVCD No. 1	Previous Month's Sensor CF	1	40	11	51.10	53.40	0.96	NA	1.00
		2							
		3							
	1.00	4							
	Calibration Date	5							
		6							
	5/1/24	7							
	New Sensor CF	8							
		9							
	1.00	10							
UVCD No. 2	Previous Month's Sensor CF	1	38	11	82.50	57.90	0.91		1.00
		2							
		3							
	1.00	4							
	Calibration Date	5							
		6							
	5/1/24	7							
	New Sensor CF	8							
		9							
	1.00	10							
UVCD No. 3	Previous Month's Sensor CF	1	48	11	86.20	91.10	0.95	NA	1.00
		2							
		3							
	1.00	4							
	Calibration Date	5							
		6							
	5/1/24	7							
	New Sensor CF	8							
		9							
	1.00	10							
UVCD No. 4	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 5	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							

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

SUBMITTED BY: Jose A. Vasquez

Certificate No. and Grade: WS0014088, B

Date: June 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: May Year: 2024

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

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

SUBMITTED BY: Jose A. Vasquez

Certificate No. and Grade: W30014088, B

Date: June 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: May

Year: 2024

CALIBRATION DATA								
UVT Analyzer Number	Benchtop UVT Analyzer Serial Number: UVT-08-P0108955							
	Week	Calibration Date	On-line UVT Analyzer Serial #	On-line Reading (% UVT)	Grab Sample Reading (% UVT)	Difference (% UVT)	Recalibration Performed? (If Diff > 2%)	Other Action Taken
UVT No. 1	1	5/1/24	90422	95.50	94.70	0.80	NA	NA
	2	5/6/24	90422	93.20	92.50	0.70	NA	NA
	3	5/13/24	90422	91.90	92.30	0.40	NA	NA
	4	5/20/24	90422	92.10	91.40	0.70	NA	NA
	5	5/27/24	90422	89.70	90.30	1.60	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: UVT-08-P0108955							
	Week	Calibration Date	On-line UVT Analyzer Serial #	On-line Reading (% UVT)	Grab Sample Reading (% UVT)	Difference (% UVT)	Recalibration Performed? (If Diff > 2%)	Other Action Taken
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: Jose A. Vasquez

Certificate No. and Grade: WS0014086, B

Date: June 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 (cont1)
 LT2ESWTR Summary Page (cont)

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

Plant ID No.: 20831

PLANT NAME: RIO BRAVO
 OR NUMBER: _____
 Month: May

Year: 2024

	Total Daily Credit By Train				Total Daily Bin 3 & 4 Credit by Train				Total Daily Inactivation Credit By Train				Total Daily Inactivation Credit by Train			
	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE
Overall																
Train 1	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE
Train 2	FALSE				FALSE				FALSE				FALSE			
Train 3	FALSE				FALSE				FALSE				FALSE			
Train 4	FALSE				FALSE				FALSE				FALSE			
Train 5	FALSE				FALSE				FALSE				FALSE			
1	4.50				4.50	1.00			1.00	5.84			5.84	38.16		
2	4.50				4.50	1.00			1.00	6.03			6.03	89.48		
3	4.50				4.50	1.00			1.00	4.27			4.27	57.98		
4	4.50				4.50	1.00			1.00	6.57			6.57	60.04		
5	4.50				4.50	1.00			1.00	7.82			7.82	112.81		
6	4.50				4.50	1.00			1.00	7.48			7.48	84.06		
7	4.50				4.50	1.00			1.00	4.28			4.28	28.51		
8	4.50				4.50	1.00			1.00	6.78			6.78	55.02		
9	4.50				4.50	1.00			1.00	5.95			5.95	37.40		
10	4.50				4.50	1.00			1.00	6.82			6.82	58.18		
11	4.50				4.50	1.00			1.00	8.77			8.77	98.12		
12	4.50				4.50	1.00			1.00	7.17			7.17	59.80		
13	4.50				4.50	1.00			1.00	8.33			8.33	48.20		
14	4.50				4.50	1.00			1.00	7.42			7.42	59.51		
15	4.50				4.50	1.00			1.00	8.22			8.22	78.73		
16	4.50				4.50	1.00			1.00	8.22			8.22	80.35		
17	4.50				4.50	1.00			1.00	8.58			8.58	94.56		
18	4.50				4.50	1.00			1.00	7.32			7.32	80.35		
19	4.50				4.50	1.00			1.00	7.81			7.81	89.21		
20	4.50				4.50	1.00			1.00	5.89			5.89	27.66		
21	4.50				4.50	1.00			1.00	7.10			7.10	55.06		
22	4.50				4.50	1.00			1.00	8.70			8.70	94.48		
23	4.50				4.50	1.00			1.00	8.94			8.94	80.18		
24	4.50				4.50	1.00			1.00	107.05			107.05	107.05		
25	4.50				4.50	1.00			1.00	8.94			8.94	78.59		
26	4.50				4.50	1.00			1.00	8.51			8.51	88.40		
27	4.50				4.50	1.00			1.00	7.32			7.32	86.40		
28	4.50				4.50	1.00			1.00	7.32			7.32	130.63		
29	4.50				4.50	1.00			1.00	8.89			8.89	83.28		
30	4.50				4.50	1.00			1.00	8.09			8.09	81.86		
31	4.50				4.50	1.00			1.00	11.09			11.09	150.33		
MIN	4.50				4.50	1.00			1.00	9.02			9.02	101.70		
AVG	4.50				4.50	1.00			1.00	9.14			9.14	107.79		
MAX	4.50				4.50	1.00			1.00	4.28			4.28	27.98		
										7.28			7.28	74.36		
										11.09			11.09	150.33		