

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: City of Wichita Falls

PLANT NAME

OR NUMBER: Cypress DPR (Microfiltration/RO)

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.: 2439001

Plant ID No.: 21557

Operator's Signature: [Signature]

Report for
the Month of: August 2014

Certificate No. & Grade: W00023530, A Surface

Date: September 10, 2014

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings: <u>186</u>	Number of 4-hour periods when plant was off-line: <u>0</u>
Number of readings above 0.10 NTU: <u>3</u>	Number of 4-hour periods when plant was on-line but turbidity data was not collected: <u>0</u>
Number of readings above 0.3 NTU: <u>0</u>	Number of days when plant was on-line but individual filter turbidity data was not collected: <u>0</u>
Number of readings above 0.5 NTU: <u>0</u>	Number of days with readings above 1.0 NTU: <u>0</u> (2)
Number of readings above 1.0 NTU: <u>0</u>	Number of days with readings above 5.0 NTU: <u>0</u> (3)
Maximum allowable turbidity level: <u>0.3</u>	
Percentage of readings above this limit: <u>0.0</u> % (1)	

Statistical Summary

Maximum turbidity reading: <u>0.12</u> NTU	Average turbidity value: <u>0.07</u> NTU
Minimum turbidity reading: <u>0.05</u> NTU	Standard deviation: <u>0.014</u> NTU
CFE 95 th percentile value: <u>0.10</u> NTU	IFE 95 th percentile: <u>0.265</u> NTU

Bin Class: <u>4</u>	Crypto Credit Required: <u>5.5</u> (7A)	Crypto Credit Achieved: <u>7.3</u> (7B)	Bin 3&4 Credits: <u>2.8</u> (7C)
Watershed Protection: <u>0.0</u>	Conventional Treatment: <u>3.0</u>	Second Stage Filtration: <u>0.0</u>	
Bank Filtration: <u>0.0</u>	Enhanced Filter Performance: <u>1.0</u>	UV: <u>0.0</u>	
Presedimentation with Coagulation: <u>0.0</u>	Bag and Cartridge Filtration: <u>0.0</u>	Ozone, Chlorine Dioxide: <u>0.0</u>	
Two-Stage Lime Softening: <u>0.0</u>	Membrane Filtration: <u>2.8</u>	Perform. Demonstration: <u>0.5</u>	

Number of days with a low CT for no more than 4.0 consecutive hours: <u>0</u>	Average log inactivation for Giardia: <u>8.67</u>
Number of days with a low CT for more than 4.0 consecutive hours: <u>0</u> (4)	Average log inactivation for viruses: <u>20.13</u>
	Number of days when profiling data was not collected: <u>0</u>
	Number of days when CT data was not collected: <u>0</u>

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: <u>0</u>	Number of days when disinfectant residual leaving the plant was not properly monitored: <u>0</u>
Number of days with a low residual for more than 4.0 consecutive hours: <u>0</u> (5)	

DISTRIBUTION SYSTEM

Minimum disinfectant residual required in distribution system: <u>0.5</u> mg/L, measured as Total Chlorine	(at least 100 required) (8)
Total number of readings this month: <u>172</u>	Percentage of readings with a low residual this month: <u>0.0</u> % (5A)
Average disinfectant residual value: <u>2.70</u>	Percentage of readings with a low residual last month: <u>0.0</u> % (5B)
Number of readings with a low residual: <u>0</u>	
Number of readings with no detectable residual: <u>0</u>	

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

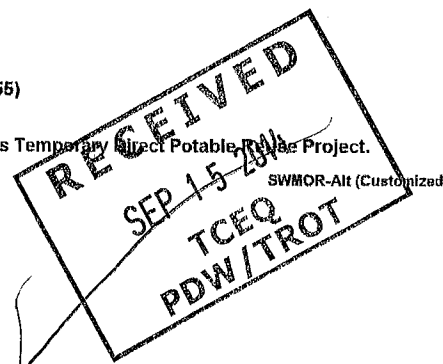
P.4&5-Disinfection Data

P.6-TOCMOR

Alternate Technol.	Enhanced IFE Worksheet	Performance Demonstration
Membranes-PBT		

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

This edition of the SWMOR-Alt was customized by the TCEQ on 05/18/14 for use during the City of Wichita Falls Temporary Direct Potable Reuse Project.



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:

City of Wichita Falls

PLANT NAME

OR NUMBER:

Cypress DPR (Microfiltration/RO)

PWS ID No.:

2430001

Plant ID No.:

21567

Connections:

33,934

Month:

August

Year:

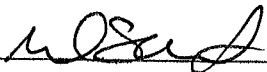
2014

Population:

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 (min)
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6		
1	7.100	7.713	2	43	1.0	1.8					0.05	0.05	0.05	0.10	0.05	0.05	2.5	
2	7.200	10.376	2	71	1.9	2.3					0.06	0.07	0.06	0.06	0.06	0.06	2.4	
3	7.200	10.980	2	47	1.4	2.2					0.06	0.06	0.06	0.06	0.06	0.05	2.4	
4	7.100	9.770	3	53	1.1	1.1					0.06	0.06	0.06	0.06	0.06	0.06	2.8	
5	7.100	9.620	2	53	1.5	1.8					0.07	0.07	0.07	0.07	0.10	0.08	2.7	
6	7.100	11.270	2	63	1.5	1.9					0.07	0.08	0.07	0.07	0.07	0.07	1.3	
7	7.100	12.211	2	85	1.7	1.6					0.08	0.08	0.06	0.06	0.06	0.06	2.2	
8	7.100	8.784	2	62	1.6	1.9					0.07	0.08	0.08	0.07	0.09	0.08	2.3	
9	7.100	8.272	2	71	1.3	1.6					0.07	0.07	0.06	0.07	0.08	0.09	3.2	
10	7.200	10.987	2	68	1.0	1.6					0.08	0.08	0.06	0.06	0.06	0.09	3.3	
11	7.000	10.033	2	46	0.9	1.7					0.06	0.06	0.06	0.06	0.06	0.06	3.3	
12	7.200	8.895	2	76	1.5	2.4					0.10	0.10	0.07	0.07	0.07	0.08	3.4	
13	7.100	9.539	2	54	1.5	1.9					0.07	0.07	0.07	0.07	0.07	0.07	3.2	
14	7.200	10.595	2	64	1.0	1.9					0.07	0.07	0.07	0.08	0.07	0.09	2.5	
15	7.100	11.505	2	57	1.0	1.9					0.10	0.09	0.08	0.08	0.08	0.08	2.5	
16	7.100	9.780	3	56	1.0	2.6					0.09	0.10	0.10	0.10	0.08	0.08	2.9	
17	7.100	9.660	3	46	1.0	2.6					0.07	0.07	0.07	0.08	0.07	0.09	3.0	
18	7.100	10.690	2	47	1.5	2.0					0.05	0.06	0.05	0.05	0.07	0.07	3.2	
19	7.200	10.217	2	47	1.5	2.1					0.08	0.06	0.06	0.06	0.07	0.06	3.1	
20	7.100	9.107	2	65	1.6	2.0					0.06	0.06	0.05	0.05	0.06	0.07	3.1	
21	7.200	9.483	2	64	1.6	2.0					0.06	0.06	0.05	0.05	0.06	0.07	3.0	
22	7.200	9.571	2	65	1.3	2.5					0.07	0.06	0.06	0.05	0.06	0.08	3.0	
23	7.200	8.170	2	51	1.5	2.8					0.07	0.07	0.08	0.07	0.07	0.08	3.1	
24	7.200	10.180	2	53	1.0	1.6					0.08	0.08	0.08	0.08	0.09	0.09	3.0	
25	7.200	10.440	3	47	1.5	2.6					0.09	0.08	0.08	0.08	0.08	0.09	3.1	
26	7.100	8.977	4	51	2.0	1.8					0.10	0.09	0.08	0.08	0.08	0.09	3.2	
27	7.200	9.702	4	44	2.0	1.2					0.09	0.09	0.09	0.07	0.08	0.10	3.2	
28	7.100	11.970	4	47	1.2	1.4					0.10	0.11	0.09	0.06	0.07	0.08	3.2	
29	7.100	9.648	3	45	1.0	1.2					0.10	0.09	0.08	0.07	0.09	0.09	3.2	
30	7.100	9.480	2	51	0.9	1.1					0.09	0.09	0.08	0.08	0.08	0.09	3.2	
31	4.900	10.235	2	43	1.0	1.8					0.12	0.12	0.08	0.08	0.08	0.09	3.3	
Total	219.000	308.070																
Avg	7.065	9.938																
Max	7.200	12.211																
Min	4.900	7.713																

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:



Certificate No.

and Grade:

WO0023530, A Surface

Date:

September 10, 2014

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: City of Wichita Falls

PLANT NAME
OR NUMBER: Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001

Plant ID No.: 21567

Month: August Year: 2014

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	0.18	0.06	0.18	0.05	0.19	0.06	0.19	0.06	0.05	x										
2	0.06	x	0.06	x	0.07	x	0.07	x	0.04	x										
3	0.06	x	0.06	x	0.07	x	0.07	x	0.22	0.04										
4	0.08	x	0.08	x	0.08	x	0.07	x	0.10	x										
5	0.26	0.07	0.26	0.07	0.12	0.07	0.29	0.10	0.07	x										
6	0.07	x	0.06	x	0.07	x	0.09	x	0.06	x										
7	0.08	x	0.07	x	0.07	x	0.08	x	0.12	0.08										
8	0.26	0.08	0.26	0.08	0.09	x	0.09	x	0.09	x										
9	0.08	x	0.08	x	0.22	0.10	0.09	0.09	0.07	x										
10	0.07	x	0.07	x	0.09	x	0.10	x	0.06	x										
11	0.28	0.12	0.27	0.08	0.08	x	0.08	x	0.11	0.11										
12	0.11	x	0.08	x	0.26	0.10	0.30	0.11	0.16	x										
13	0.07	x	0.15	0.09	0.08	x	0.08	x	0.07	x										
14	0.27	0.08	0.12	x	0.29	0.12	0.12	0.11	0.16	0.10										
15	0.08	x	0.11	x	0.10	x	0.10	x	0.11	x										
16	0.13	0.13	0.23	0.11	0.41	0.10	0.14	0.13	0.09	x										
17	0.06	x	0.07	x	0.07	x	0.07	x	0.12	0.08										
18	0.21	0.06	0.17	0.06	0.27	x	0.25	0.09	0.05	x										
19	0.06	x	0.05	x	0.11	x	0.08	x	0.20	0.08										
20	0.08	0.07	0.14	0.07	0.06	x	0.06	x	0.08	x										
21	0.07	x	0.06	x	0.12	0.10	0.14	0.07	0.05	x										
22	0.06	x	0.05	x	0.08	x	0.08	x	0.15	0.11										
23	0.13	0.09	0.15	0.07	0.08	x	0.08	x	0.10	x										
24	0.08	x	0.07	x	0.27	0.13	0.23	0.11	0.07	x										
25	0.14	0.13	0.11	x	0.11	0.10	0.10	x	0.17	0.08										
26	0.12	x	0.09	x	0.09	x	0.12	0.10	0.10	x										
27	0.14	0.09	0.13	0.08	0.16	0.11	0.11	x	0.17	0.09										
28	0.13	0.12	0.16	0.04	0.17	0.08	0.16	0.13	0.12	0.11										
29	0.12	x	0.08	x	0.10	x	0.22	0.13	0.11	x										
30	0.16	0.12	0.20	0.06	0.16	0.11	0.12	x	0.17	0.11										
31	0.12	x	0.08	x	0.10	x	0.09	x	0.11	x										

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	0	0	0	0	0						
	Number of days with event(s) above 1.0 NTU this month	0	0	0	0	0						
	Number of days with event(s) above 1.0 NTU last month	0	0	0	0	0						
	Number of days with event(s) above 1.0 NTU two months ago	0	0	0	0	0						
	Total number of days with event(s) above 1.0 NTU in three months	0	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						N
	Is the plant required to submit a Filter Profile Report?	N	N	N	N	N						
	Is the plant required to submit a Filter Assessment Report?	N	N	N	N	N						
Is the plant required to submit a Request for Compliance CPE?											N	

SUBMITTED BY: 

Certificate No. and Grade: WO0023530, A Surface Date: September 10, 2014

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: City of Wichita Falls

PLANT NAME
OR NUMBER: Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001

Plant ID No.: 21567

Month: August

Year: 2014

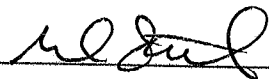
DISINFECTION PROCESS PARAMETERS									
APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS			
Parameters	Disinfection Zones					Log Inactivations			
	D1	D2	D3	D4	D5	Giardia lamblia Cysts		Viruses	
Flow Rate (MGD)	7.500	7.500	3.308	10.000	10.000	2.0		5.0	
T ₁₀ (minutes)	357.0	223.2	5.6	67.1	223.3				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time (min)
1	CLA D1	2.5	7.200	28.4	6.7				
	CLA D2	2.3	7.200	26.8	6.5				
	CLA D3	2.2	2.200	26.5	6.8	9.55	21.84	4.37	
	CLA D4	3.2	10.000	26.4	9.1			(V)	
	CLA D5	3.3	10.000	26.3	9.1				
2	CLA D1	3.3	7.300	25.8	6.8				
	CLA D2	2.2	7.300	27.1	6.5				
	CLA D3	2.3	2.200	26.4	6.9	10.73	22.28	4.46	
	CLA D4	3.3	10.000	26.0	9.1			(V)	
	CLA D5	3.5	10.000	25.0	9.1				
3	CLA D1	2.9	7.200	25.3	6.7				
	CLA D2	2.0	7.200	26.0	6.5				
	CLA D3	1.6	2.200	25.5	6.8	10.07	20.24	4.05	
	CLA D4	4.1	10.000	25.1	9.1			(V)	
	CLA D5	3.3	10.000	25.2	9.1				
4	CLA D1	1.2	7.200	29.0	6.5				
	CLA D2	1.8	7.200	28.1	6.5				
	CLA D3	1.2	2.200	27.9	6.8	7.42	17.73	3.55	
	CLA D4	3.5	10.000	27.2	9.1			(V)	
	CLA D5	3.5	10.000	27.3	9.1				
5	CLA D1	2.8	7.100	27.4	6.7				
	CLA D2	1.5	7.100	27.2	6.5				
	CLA D3	1.2	2.200	27.0	6.6	9.12	20.73	4.15	
	CLA D4	3.3	10.000	27.3	9.2			(V)	
	CLA D5	3.4	10.000	26.8	9.2				
6	CLA D1	2.4	7.200	26.4	6.5				
	CLA D2	1.5	7.200	26.3	6.4				
	CLA D3	1.5	2.200	25.6	6.7	8.41	18.28	3.66	
	CLA D4	3.3	10.000	26.5	9.2			(V)	
	CLA D5	3.0	10.000	26.8	9.2				
7	CLA D1	2.2	7.200	26.6	6.6				
	CLA D2	1.5	7.200	26.7	6.5				
	CLA D3	1.5	2.200	26.7	6.8	7.90	17.52	3.50	
	CLA D4	2.8	10.000	27.2	9.1			(V)	
	CLA D5	2.9	10.000	27.0	9.0				
8	CLA D1	2.6	7.200	27.0	6.6				
	CLA D2	1.7	7.200	26.7	6.5				
	CLA D3	1.5	2.200	26.0	6.8	9.40	21.15	4.23	
	CLA D4	3.6	10.000	27.3	9.3			(V)	
	CLA D5	3.5	10.000	27.1	8.3				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time (min)
9	CLA D1	2.6	7.200	27.0	6.6				
	CLA D2	1.7	7.200	26.7	6.5				
	CLA D3	1.5	2.200	26.0	6.6	9.40	21.15	4.23	
	CLA D4	3.6	10.000	27.3	9.3			(V)	
	CLA D5	3.5	10.000	27.1	9.3				
10	CLA D1	0.1	7.200	30.9	6.6				
	CLA D2	2.2	7.200	28.7	6.7				
	CLA D3	1.7	2.200	27.8	6.7	6.40	15.54	3.11	
	CLA D4	3.6	10.000	28.2	9.3			(V)	
	CLA D5	3.7	10.000	27.6	9.2				
11	CLA D1	2.2	7.200	30.0	6.5				
	CLA D2	1.9	7.200	28.3	6.5				
	CLA D3	2.0	2.200	28.0	6.5	9.22	23.51	4.81	
	CLA D4	3.7	10.000	27.7	9.3			(G)	
	CLA D5	3.7	10.000	28.2	9.2				
12	CLA D1	2.9	7.100	29.4	6.6				
	CLA D2	1.3	7.100	30.0	6.3				
	CLA D3	0.1	2.200	29.0	6.7	9.76	25.24	4.88	
	CLA D4	3.9	10.000	28.5	9.2			(G)	
	CLA D5	3.7	10.000	28.3	9.3				
13	CLA D1	2.8	7.100	26.3	6.6				
	CLA D2	1.7	7.100	26.8	6.4				
	CLA D3	1.5	2.200	26.0	6.7	9.77	22.05	4.41	
	CLA D4	3.6	10.000	27.9	9.3			(V)	
	CLA D5	3.5	10.000	27.9	9.2				
14	CLA D1	2.0	7.100	29.2	6.6				
	CLA D2	1.0	7.100	28.7	6.3				
	CLA D3	1.5	2.100	27.1	6.6	7.46	18.41	3.66	
	CLA D4	3.1	10.000	27.5	9.1			(V)	
	CLA D5	3.1	10.000	27.5	9.1				
15	CLA D1	0.5	7.100	31.6	6.8				
	CLA D2	2.0	7.100	28.3	6.7				
	CLA D3	0.9	2.100	29.3	6.7	6.18	16.02	3.09	
	CLA D4	3.2	10.000	29.1	9.1			(G)	
	CLA D5	3.1	10.000	28.8	9.1				
16	CLA D1	2.4	7.100	26.8	6.6				
	CLA D2	2.0	7.100	26.6	6.5				
	CLA D3	1.3	2.200	26.4	6.7	8.84	19.03	3.81	
	CLA D4	3.6	10.000	25.8	9.2			(V)	
	CLA D5	2.8	10.000	25.8	9.1				

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

SUBMITTED BY:



Certificate No.

and Grade: W00023530, A Surface

Date: September 10, 2014

TCEQ - 00102D-MGD (Rev. 01-01-14)

PAGE 4

SWMOR-Alt (Customized)

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:

City of Wichita Falls

PLANT NAME

OR NUMBER:

Cypress DPR (Microfiltration/RO)

PWS ID No.:

2430001

Plant ID No.:

21567

Month:

August

Year:

2014

DISINFECTION PROCESS PARAMETERS

APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
Parameters	Disinfection Zones					Log Inactivations	
	D1	D2	D3	D4	D5	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	7.50	7.50	3.31	10.00	10.00	2.0	5.0
T ₁₀ (minutes)	357.00	223.20	5.60	67.10	223.30		

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time (h)
17	CLA D1	1.2	7.200	30.0	6.5				
	CLA D2	1.3	7.200	28.7	6.3				
	CLA D3	2.1	2.200	28.1	6.7	8.76	17.39	3.38	
	CLA D4	4.3	10.000	28.3	9.1			(G)	
	CLA D5	3.0	10.000	28.6	9.1				
18	CLA D1	2.0	7.100	29.9	6.7				
	CLA D2	2.1	7.100	27.9	6.3				
	CLA D3	2.1	2.100	28.9	6.7	8.96	22.06	4.41	
	CLA D4	3.5	10.000	27.5	9.2			(V)	
	CLA D5	3.5	10.000	27.2	9.1				
19	CLA D1	2.5	7.100	27.6	6.7				
	CLA D2	2.8	7.100	28.5	6.5				
	CLA D3	2.7	2.200	28.4	6.6	10.26	23.89	4.78	
	CLA D4	3.8	10.000	27.7	9.2			(V)	
	CLA D5	3.3	10.000	28.2	9.2				
20	CLA D1	2.4	7.200	26.2	6.6				
	CLA D2	1.5	7.200	26.3	6.4				
	CLA D3	1.4	2.200	26.4	6.8	8.64	18.64	3.71	
	CLA D4	3.5	10.000	26.4	9.2			(V)	
	CLA D5	3.2	10.000	26.5	9.2				
21	CLA D1	2.7	7.200	26.7	6.7				
	CLA D2	1.5	7.200	27.1	6.6				
	CLA D3	1.5	2.200	27.2	6.9	9.11	20.34	4.07	
	CLA D4	3.3	10.000	27.1	9.2			(V)	
	CLA D5	3.3	10.000	27.0	9.2				
22	CLA D1	2.4	7.200	27.0	6.7				
	CLA D2	1.5	7.200	27.4	6.5				
	CLA D3	1.4	2.200	27.8	6.8	8.72	19.99	4.00	
	CLA D4	3.5	10.000	28.0	9.2			(V)	
	CLA D5	3.3	10.000	27.3	9.1				
23	CLA D1	1.6	7.200	30.8	6.5				
	CLA D2	0.8	7.200	29.7	6.5				
	CLA D3	0.9	2.200	30.0	6.7	6.78	17.61	3.39	
	CLA D4	3.7	10.000	27.3	9.2			(G)	
	CLA D5	3.1	10.000	27.9	9.1				
24	CLA D1	2.5	7.100	26.8	6.6				
	CLA D2	1.6	7.100	26.9	6.4				
	CLA D3	1.4	2.200	26.4	6.7	9.55	21.14	4.23	
	CLA D4	3.8	10.000	26.1	9.2			(V)	
	CLA D5	3.8	10.000	26.9	9.1				

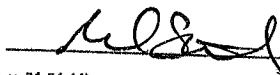
PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time (h)
25	CLA D1	1.1	7.200	29.7	6.5				
	CLA D2	0.9	7.200	27.7	9.4				
	CLA D3	2.0	2.200	29.1	6.8	8.49	17.25	3.25	
	CLA D4	3.9	10.000	29.7	9.0			(G)	
	CLA D5	3.4	10.000	29.6	9.1				
26	CLA D1	2.3	7.100	27.7	6.5				
	CLA D2	1.9	7.100	28.0	6.2				
	CLA D3	1.8	2.200	28.1	6.6	9.69	22.98	4.60	
	CLA D4	4.0	10.000	27.9	9.1			(V)	
	CLA D5	3.9	10.000	27.7	9.1				
27	CLA D1	1.9	7.200	31.1	8.6				
	CLA D2	1.3	7.200	31.2	6.3				
	CLA D3	1.0	2.200	31.0	6.6	8.17	22.78	4.08	
	CLA D4	3.9	10.000	29.6	9.2			(G)	
	CLA D5	3.8	10.000	28.9	9.1				
28	CLA D1	2.6	7.200	27.0	6.5				
	CLA D2	1.1	7.200	27.3	6.3				
	CLA D3	1.1	2.200	26.9	6.6	9.12	20.91	4.18	
	CLA D4	4.0	10.000	27.6	9.2			(V)	
	CLA D5	3.7	10.000	27.5	9.1				
29	CLA D1	0.0	7.200	25.7	6.4				
	CLA D2	3.2	7.200	27.1	6.2				
	CLA D3	0.1	2.200	26.7	6.5	7.21	15.76	3.15	
	CLA D4	4.0	10.000	25.7	9.0			(V)	
	CLA D5	3.7	10.000	26.4	9.0				
30	CLA D1	3.0	7.300	28.3	6.5				
	CLA D2	1.7	7.300	27.0	6.2				
	CLA D3	1.3	2.200	28.7	6.6	10.26	21.58	4.32	
	CLA D4	4.1	10.000	24.7	9.1			(V)	
	CLA D5	3.8	10.000	25.5	9.0				
31	CLA D1	2.7	7.200	26.8	6.6				
	CLA D2	1.1	7.200	27.0	6.3				
	CLA D3	1.6	2.200	26.5	6.6	9.36	21.07	4.21	
	CLA D4	4.3	10.000	26.7	9.0			(V)	
	CLA D5	3.7	10.000	27.4	9.0				

Max	10.73	25.24
Min	6.18	15.54
Avg	8.67	20.13
SD	1.25	2.48

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

SUBMITTED BY:



Certificate No.

and Grade:

W0023530, A Surface

Date: September 10, 2014

TCEQ - 00102D-MGD (Rev. 01-01-14)

PAGE 5

SWMOR-Alt (Customized)

MEMBRANE MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER
Pressure Decay Rate Direct Integrity Tests

PUBLIC WATER
SYSTEM NAME: City of Wichita Falls

PLANT NAME
OR NUMBER: Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001

Plant ID No.: 21567

Month: August

Year: 2014

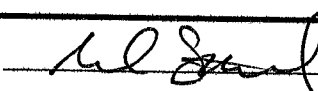
TEST PARAMETERS & ADDITIONAL DATA

DIT CONDITIONS & ADDITIONAL DATA	Unit No. 1										Unit No. 2									
	DIT Cond'n's	P _{test} psi	LRC	UCL		Prev. Month Data	DIT _{last} date	Pass? Yes/No	C/A Success?		DIT Cond'n's	P _{test} psi	LRC	UCL		Prev. Month	DIT _{last} date	Pass? Yes/No	C/A Success?	
		16.5	2.8	1.560			7/31/14	YES	NA			16.5	2.8	1.560			7/31/14	YES	NA	
	Optional Data	Filt.Flux gfd	TMP psi								Optional Data	Filt.Flux gfd	TMP psi							

PERFORMANCE DATA

Date	Unit No. 1										Unit No. 2									
	Operational Data						DIT Data				Operational Data						DIT Data			
	Daily Pump. MG	Norm. Filt.Flux gfd	TMP psi	Norm. Spc.Flux gfd/psi	Daily Max. mNTU	CIP done?	P _{initial} psi	ΔP _{test} /Δt psi/min	DIT pass?	C/A success?	Daily Pump. MG	Norm. Filt.Flux gfd	TMP psi	Norm. Spc.Flux gfd/psi	Daily Max. mNTU	CIP done?	P _{initial} psi	ΔP _{test} /Δt psi/min	DIT pass?	C/A success?
1	1.286	14.2	3.4	4.24	33		18.3	0.620	YES	NA	1.318	14.2	2.5	5.81	38		18.5	0.610	YES	NA
2	1.340	14.2	3.2	4.50	40		18.3	0.620	YES	NA	0.899	14.2	2.4	5.88	24		18.5	0.610	YES	NA
3	1.539	14.2	3.3	4.28	38		18.3	0.630	YES	NA	0.189	15.1	2.4	6.25	23		18.5	0.610	YES	NA
4	1.559	14.2	3.2	4.52	35		18.2	0.650	YES	NA	0.305	14.5	2.3	6.41	29		18.4	0.620	YES	NA
5	1.716	14.2	3.2	4.43	42		18.3	0.640	YES	NA	0.802	14.1	2.3	6.26	24		18.6	0.610	YES	NA
6	1.360	14.2	3.3	4.37	36		18.4	0.630	YES	NA	1.260	14.3	2.3	6.12	38		18.6	0.640	YES	NA
7	1.270	14.2	3.2	4.44	35		18.5	0.640	YES	NA	1.330	14.2	2.3	6.17	20		18.6	0.620	YES	NA
8	1.379	14.2	3.2	4.44	33		18.5	0.650	YES	NA	1.125	14.3	2.3	6.22	25		18.6	0.620	YES	NA
9	1.292	14.2	3.1	4.58	42		18.4	0.620	YES	NA	1.331	14.3	2.3	6.22	23		18.6	0.620	YES	NA
10	1.317	14.2	3.2	4.40	35		18.4	0.630	YES	NA	1.251	14.6	2.4	6.16	45		18.6	0.600	YES	NA
11	1.220	14.2	3.1	4.56	36		18.4	0.620	YES	NA	1.310	14.1	2.3	6.18	18		18.5	0.610	YES	NA
12	1.340	14.2	3.3	4.30	30		18.4	0.630	YES	NA	1.192	14.2	2.2	6.43	31		18.6	0.600	YES	NA
13	1.267	14.2	3.3	4.30	40		18.4	0.610	YES	NA	1.360	14.2	2.3	6.17	27		18.5	0.600	YES	NA
14	1.420	14.3	3.4	4.21	37		17.4	0.560	YES	NA	1.415	14.3	2.4	6.07	35		18.8	0.450	YES	NA
15	1.302	14.2	3.1	4.54	38		18.4	0.630	YES	NA	1.302	14.2	3.1	4.53	32		18.6	0.490	YES	NA
16	1.204	14.2	3.2	4.43	99		18.5	0.600	YES	NA	1.223	14.1	2.3	6.11	28		18.7	0.490	YES	NA
17	1.288	14.2	3.2	4.38	32		18.4	0.610	YES	NA	1.307	14.2	2.4	5.97	23		18.6	0.480	YES	NA
18	1.220	14.5	3.4	4.26	28		18.5	0.610	YES	NA	1.228	14.5	2.3	6.30	27		18.6	0.480	YES	NA
19	1.322	14.5	3.3	4.44	38		18.4	0.620	YES	NA	1.300	14.6	2.4	5.99	24		18.6	0.490	YES	NA
20	1.287	14.3	3.3	4.28	36		18.5	0.610	YES	NA	1.277	14.4	2.3	6.16	26		18.7	0.480	YES	NA
21	1.305	14.2	3.2	4.46	29		18.5	0.610	YES	NA	1.308	14.2	2.4	6.03	24		18.7	0.480	YES	NA
22	1.292	14.2	3.2	4.46	42		18.5	0.600	YES	NA	1.230	14.2	2.2	6.37	35		18.7	0.470	YES	NA
23	1.323	14.2	3.2	4.40	33		18.5	0.600	YES	NA	1.294	14.1	2.3	6.08	22		18.7	0.470	YES	NA
24	1.286	14.2	3.1	4.59	32		18.5	0.610	YES	NA	1.295	14.2	2.3	6.24	27		18.6	0.500	YES	NA
25	0.730	14.9	2.3	6.61	53	yes	16.5	1.020	YES	NA	1.595	14.8	2.5	5.85	27		18.7	0.470	YES	NA
26	1.495	14.6	2.6	5.68	30		17.5	0.870	YES	NA	1.498	14.6	2.4	6.00	72		18.7	0.480	YES	NA
27	1.253	14.2	2.4	5.84	29		18.0	0.790	YES	NA	1.263	14.2	2.3	6.15	32		18.8	0.480	YES	NA
28	1.334	14.2	2.7	5.36	27		18.4	0.690	YES	NA	1.259	14.1	2.3	6.09	22		18.7	0.480	YES	NA
29	1.268	14.3	2.7	5.38	40		17.9	0.730	YES	NA	1.268	14.2	2.4	5.96	71		18.6	0.460	YES	NA
30	1.471	14.7	3.2	4.59	29		18.0	0.720	YES	NA	1.475	14.3	2.6	5.50	26		18.6	0.480	YES	NA
31	1.341	14.4	2.7	5.42	28		18.0	0.740	YES	NA	1.259	14.4	2.3	6.20	18		18.7	0.460	YES	NA

SUMMARY	Unit No. 1										Unit No. 2									
	Operational Data										Operational Data									
	DIT Data										DIT Data									
	Number of days with DIT triggered by high turbidity or particle count										Number of days with a monitoring violation									
	0										0									

SUBMITTED BY:  Certificate No. and Grade: WO0023530, A Surface Date: September 10, 2014

TCEQ - 20356-MGD (07-01-13)

Membranes, PBT

MMOR

MEMBRANE MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
Pressure Decay Rate Direct Integrity Tests (cont.)

PUBLIC WATER
SYSTEM NAME: City of Wichita Falls

PLANT NAME
OR NUMBER: Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001

Plant ID No.: 21567

Month: August

Year: 2014

TEST PARAMETERS & ADDITIONAL DATA

DIT CONDITIONS & ADDITIONAL DATA	Unit No. 3										Unit No. 4									
	DIT Cond'n's	P _{test} psi	LRC	UCL		Prev. Month	DIT _{last} date	Pass? Yes/No	C/A Success?		DIT Cond'n's	P _{test} psi	LRC	UCL		Prev. Month	DIT _{last} date	Pass? Yes/No	C/A Success?	
		18.6	2.8	1.560			7/31/14	YES	NA			16.5	2.8	1.560			7/31/14	YES	NA	
	Optional Data	Filt.Flux gfd	TMP psi								Optional Data	Filt.Flux gfd	TMP psi							

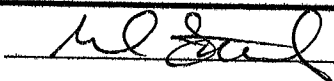
PERFORMANCE DATA

Date	Unit No. 3										Unit No. 4									
	Operational Data					DIT Data					Operational Data					DIT Data				
	Daily Pump. MG	Norm. Filt.Flux gfd	TMP psi	Norm. Spc.Flux gfd/psi	Daily Max. mNTU	CIP done?	P _{initial} psi	$\Delta P_{test}/\Delta t$ psi/min	DIT pass?	C/A success?	Daily Pump. MG	Norm. Filt.Flux gfd	TMP psi	Norm. Spc.Flux gfd/psi	Daily Max. mNTU	CIP done?	P _{initial} psi	$\Delta P_{test}/\Delta t$ psi/min	DIT pass?	C/A success?
1	1.229	14.2	3.4	4.14	47		18.1	0.610	YES	NA	1.385	15.0	1.2	12.75	35		18.8	0.390	YES	NA
2	1.424	14.2	3.4	4.15	45		18.1	0.600	YES	NA	1.341	14.5	1.0	14.08	37		18.8	0.390	YES	NA
3	1.521	14.2	3.3	4.29	63		18.1	0.620	YES	NA	1.638	15.4	1.2	12.75	42		18.8	0.390	YES	NA
4	1.479	14.2	3.4	4.15	43		18.1	0.630	YES	NA	1.516	15.6	1.1	14.61	41		18.9	0.400	YES	NA
5	1.487	14.2	3.3	4.33	27		18.1	0.640	YES	NA	1.403	14.3	0.9	15.38	33		18.9	0.390	YES	NA
6	1.260	14.3	3.4	4.26	48		18.3	0.640	YES	NA	1.280	14.7	1.0	14.98	33		19.1	0.400	YES	NA
7	1.353	14.2	3.3	4.34	31		18.2	0.630	YES	NA	1.243	14.6	1.0	14.75	31		19.0	0.400	YES	NA
8	1.235	14.2	3.2	4.44	25		18.3	0.620	YES	NA	1.433	14.9	1.0	14.50	37		19.0	0.400	YES	NA
9	1.584	14.2	3.3	4.30	33		18.2	0.610	YES	NA	1.259	14.7	1.0	14.27	31		18.9	0.400	YES	NA
10	1.585	14.2	3.2	4.51	32		18.1	0.610	YES	NA	1.489	15.6	1.2	13.47	42		18.9	0.400	YES	NA
11	1.315	14.2	3.3	4.36	43		18.1	0.610	YES	NA	1.232	14.2	1.0	14.80	42		18.8	0.390	YES	NA
12	1.660	14.2	3.1	4.52	31		18.2	0.620	YES	NA	1.406	14.5	1.0	14.50	27		18.9	0.400	YES	NA
13	1.368	14.2	3.4	4.21	49		18.2	0.590	YES	NA	1.254	14.3	1.0	14.48	33		18.8	0.400	YES	NA
14	1.426	14.3	3.3	4.29	38		17.2	0.530	YES	NA	1.607	14.9	1.1	13.50	39		18.2	0.370	YES	NA
15	0.133	14.2	3.4	4.14	35		18.3	0.590	YES	NA	1.233	14.3	1.0	14.90	31		18.9	0.400	YES	NA
16	1.234	14.2	3.3	4.36	29		18.4	0.590	YES	NA	1.298	14.3	1.0	14.28	26		19.0	0.390	YES	NA
17	1.298	14.2	3.5	4.10	32		18.3	0.580	YES	NA	1.227	14.5	1.0	14.77	29		18.9	0.390	YES	NA
18	1.377	14.7	3.3	4.41	30		18.2	0.620	YES	NA	1.396	14.6	1.0	14.28	49		19.0	0.390	YES	NA
19	1.238	14.7	3.6	4.11	28		18.3	0.580	YES	NA	1.322	14.8	1.0	14.80	28		19.0	0.390	YES	NA
20	1.384	14.4	3.3	4.37	43		18.3	0.590	YES	NA	1.261	14.7	1.1	14.00	55		19.0	0.390	YES	NA
21	1.223	14.2	3.3	4.25	58		18.4	0.590	YES	NA	1.335	14.3	0.9	15.64	45		19.0	0.400	YES	NA
22	1.364	14.2	3.2	4.48	29		18.3	0.590	YES	NA	1.328	14.7	1.0	14.59	47		19.0	0.390	YES	NA
23	1.224	14.2	3.2	4.42	38		18.4	0.580	YES	NA	1.319	14.2	0.9	15.63	31		19.0	0.400	YES	NA
24	1.380	14.2	3.3	4.26	46		18.3	0.580	YES	NA	1.263	14.3	0.9	16.44	27		19.0	0.390	YES	NA
25	0.415	14.2	3.4	4.17	47	yes	18.4	0.580	YES	NA	1.853	15.4	1.2	13.31	47		19.0	0.400	YES	NA
26	0.345	14.2	2.5	5.71	31		18.5	1.030	YES	NA	1.415	15.2	1.1	14.32	68		19.1	0.390	YES	NA
27	1.346	14.2	2.9	4.97	36		17.6	0.800	YES	NA	1.346	14.6	1.0	14.46	79		19.1	0.390	YES	NA
28	1.262	14.2	3.0	4.72	54		17.9	0.710	YES	NA	1.276	14.3	0.9	15.41	26		19.0	0.400	YES	NA
29	1.376	14.3	3.2	4.50	29		17.9	0.710	YES	NA	1.340	14.6	1.1	13.77	24		18.9	0.390	YES	NA
30	1.497	14.3	3.5	4.09	50		18.0	0.680	YES	NA	1.850	15.7	1.1	14.27	36		18.9	0.390	YES	NA
31	1.370	14.4	3.2	4.46	44		18.1	0.650	YES	NA	1.290	14.7	1.0	14.57	25		19.0	0.400	YES	NA

SUMMARY

DIT	Unit No. 3										Unit No. 4									
	Number of days with DIT triggered by high turbidity or particle count										0									
	Number of days with a monitoring violation										0									
	Number of days with failure to pass a DIT										0									
	Number of days with a treatment technique violation										0									
Comments	General Remarks										Additional Comments									

SUBMITTED BY:



Certificate No.
and Grade:

W00023530, A Surface

Date: September 10, 2014

TCEQ - 20356-MGD (07-01-13)

Membranes, PBT - Addendum

MMOR

MEMBRANE MONTHLY OPERATING REPORT
 FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
 OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
 Pressure Decay Rate Direct Integrity Tests (cont.)

PUBLIC WATER
 SYSTEM NAME: City of Wichita Falls

PLANT NAME
 OR NUMBER: Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001

Plant ID No.: 21667

Month: August

Year: 2014

TEST PARAMETERS & ADDITIONAL DATA

DIT CONDITIONS & ADDITIONAL DATA	Unit No. 5										Unit No. 6									
	DIT Cond'n's	P _{test} psi	LRC	UCL		Prev. Month	DIT _{last} date	Pass? Yes/No	C/A Success?		DIT Cond'n's	P _{test} psi	LRC	UCL		Prev. Month	DIT _{last} date	Pass? Yes/No	C/A Success?	
		16.5	2.8	1.560			7/31/14	YES	NA											
	Optional Data	Filt.Flux gfd	TMP psi								Optional Data	Filt.Flux gfd	TMP psi							

PERFORMANCE DATA

Date	Unit No. 5										Unit No. 6									
	Operational Data					DIT Data					Operational Data					DIT Data				
	Daily Pump. MG	Norm. Filt.Flux gfd	TMP psi	Norm. Spc.Flux gfd/psi	Daily Max. mNTU	CIP done?	P _{initial} psi	ΔP _{test} /Δt psi/min	DIT pass?	C/A success?	Daily Pump. MG	Norm. Filt.Flux gfd	TMP psi	Norm. Spc.Flux gfd/psi	Daily Max. mNTU	CIP done?	P _{initial} psi	ΔP _{test} /Δt psi/min	DIT pass?	C/A success?
1	1.264	14.4	1.8	7.80	24		19.0	0.360	YES	NA										
2	1.404	14.2	1.8	8.08	24		19.0	0.360	YES	NA										
3	1.542	14.7	1.8	7.97	27		19.0	0.370	YES	NA										
4	1.617	14.7	1.9	7.78	22		19.0	0.380	YES	NA										
5	1.344	14.2	1.7	8.49	26		18.9	0.390	YES	NA										
6	1.245	14.3	1.8	7.96	22		19.1	0.370	YES	NA										
7	1.298	14.2	1.6	8.66	23		19.1	0.380	YES	NA										
8	1.304	14.4	1.8	8.14	20		19.1	0.360	YES	NA										
9	1.302	14.4	1.7	8.49	23		19.1	0.370	YES	NA										
10	1.177	14.7	1.8	7.98	67		19.0	0.360	YES	NA										
11	1.321	14.2	1.6	9.03	20		18.9	0.390	YES	NA										
12	1.288	14.3	1.7	8.41	27		19.0	0.370	YES	NA										
13	1.218	14.2	1.6	8.66	33		19.0	0.360	YES	NA										
14	0.546	14.2	1.1	12.57	39		17.2	0.890	YES	NA										
15	1.333	14.2	1.3	10.76	31		17.8	0.770	YES	NA										
16	1.184	14.2	1.4	10.29	21		18.2	0.660	YES	NA										
17	1.329	14.3	1.4	10.37	22		18.2	0.620	YES	NA										
18	1.247	14.7	1.5	10.16	23		18.4	0.580	YES	NA										
19	1.327	14.8	1.5	9.99	23		18.5	0.580	YES	NA										
20	1.281	14.6	1.5	9.73	22		18.7	0.620	YES	NA										
21	1.328	14.2	1.4	10.16	22		18.7	0.620	YES	NA										
22	1.259	14.4	1.4	10.18	17		18.8	0.490	YES	NA										
23	1.308	14.2	1.4	10.13	18		18.7	0.490	YES	NA										
24	1.280	14.2	1.4	10.53	19		18.9	0.460	YES	NA										
25	1.783	15.1	1.7	8.73	20		18.9	0.460	YES	NA										
26	1.408	14.8	1.5	9.83	26		18.8	0.480	YES	NA										
27	1.217	14.3	1.5	9.45	17		19.0	0.450	YES	NA										
28	1.372	14.2	1.4	10.16	17		18.9	0.480	YES	NA										
29	1.271	14.4	1.6	9.23	18		18.9	0.420	YES	NA										
30	1.815	15.4	1.7	9.04	16		18.9	0.420	YES	NA										
31	1.314	14.5	1.5	9.66	18		19.0	0.410	YES	NA										

SUMMARY	Unit No. 5										Unit No. 6									
	DIT										DIT									
	Number of days with DIT triggered by high turbidity or particle count										0									
	Number of dates with monitoring violation										0									
	Number of dates with failure to pass DIT										0									
Comments	Number of dates with treatment technique violation										0									
	General Remarks										Additional Comments									

SUBMITTED BY:



Certificate No.
 and Grade:

WO0023530, A Surface

Date: September 10, 2014

TCEQ - 20356-MGD (07-01-13)

Membranes, PBT - Addendum

MMOR

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.)

Enhanced Individual Filter Performance Data Page

PUBLIC WATER
SYSTEM NAME:

City of Wichita Falls

PLANT NAME

OR NUMBER:

Cypress DPR (Microfiltration/RO)

PWS ID No.:

2430001

Plant ID No.:

21567

Month:

August

Year:

2014

Optimized Individual Filter Effluent (IFE) Performance

PERFORMANCE DATA

Filter No.	Total No. of Readings	No. of Readings > or = 0.15 NTU	Percent of Readings > or = 0.15 NTU	No. of Confirmed Readings > 0.3 NTU	Filter No.	Total No. of Readings	No. of Readings > or = 0.15 NTU	Percent of Readings > or = 0.15 NTU	No. of Confirmed Readings > 0.3 NTU
1	2,941	11	0.37%	0	26				
2	2,931	10	0.34%	0	27				
3	2,945	14	0.48%	0	28				
4	2,942	14	0.48%	0	29				
5	2,942	10	0.34%	0	30				
6					31				
7					32				
8					33				
9					34				
10					35				
11					36				
12					37				
13					38				
14					39				
15					40				
16					41				
17					42				
18					43				
19					44				
20					45				
21					46				
22					47				
23					48				
24					49				
25					50				
Summary	Were more than 5% of the IFE readings from any of the filters above the 0.15 NTU performance criteria?			No	Giardia and Cryptosporidium Log Removal Credit Allowed this Month For Enhanced IFE Performance				1.0
	Did any of the filters have confirmed IFE readings above 0.3 NTU?			No					

SUBMITTED BY:



Certificate No.

and Grade:

WO0023530, A Surface

Date:

September 10, 2014

TCEQ - 00102D-MGD (Rev. 01-01-14)

Enhanced IFE Performance

SWMOR-Alt (Customized)

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.)

LT2ESWTR Summary Page

PUBLIC WATER

SYSTEM NAME: City of Wichita Falls

PLANT NAME

OR NUMBER:

Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001

Plant ID No.: 21567

Month: August

Year: 2014

TREATMENT TECHNOLOGIES																	
Note: Indicate the treatment processes in each train. (see comment)	PRETREATMENT CREDITS				FILTRATION TECHNOLOGY CREDITS						ENHANCED PERFORMANCE CREDITS		DISINFECTION TECHNOLOGY CREDITS			OTHER TREATMENT CREDITS	
	Riverbank Filtration	Press. with Coagul.	Two-stage Lime Softening	Conventional Sedimentation or Clarification	Conventional Granular Media Filters	Bag or Cartridge Filtration	Two-Stage Filtration	Membrane Filtration (PBT)	Membrane Filtration (QBT)	Membrane Filtration (MBT)	Enhanced Performance		Crypto Chemical Disinfect.	UV Disinfect. (ISA)	UV Disinfect. (CDA)	Watershed Protection	Perform. Demon.
											Enhanced CPE Perform.	Optimized IFE Perform.					
Overall	FALSE	FALSE	FALSE	TRUE	TRUE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE
Train 1				TRUE	TRUE					TRUE	TRUE	TRUE					TRUE
Train 2																	
Train 3																	
Train 4																	
Train 5																	
1								2.80									0.50
2								2.80									0.50
3								2.80									0.50
4								2.80									0.50
5								2.80									0.50
6								2.80									0.50
7								2.80									0.50
8								2.80									0.50
9								2.80									0.50
10								2.80									0.50
11								2.80									0.50
12								2.80									0.50
13								2.80									0.50
14								2.80									0.50
15								2.80									0.50
16				0.50	2.50			2.80				0.00	1.00				0.50
17								2.80									0.50
18								2.80									0.50
19								2.80									0.50
20								2.80									0.50
21								2.80									0.50
22								2.80									0.50
23								2.80									0.50
24								2.80									0.50
25								2.80									0.50
26								2.80									0.50
27								2.80									0.50
28								2.80									0.50
29								2.80									0.50
30								2.80									0.50
31								2.80									0.50
MIN				0.5	2.5			2.80				0.0	1.0				0.5

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.)
LT2ESWTR Summary Page (cont)

PUBLIC WATER SYSTEM NAME: City of Wichita Falls PLANT NAME: Cypress DPR (Microfiltration/RO) OR NUMBER: 21567 Year: 2014

PWS ID No.: 2430001 Plant ID No.: 21567 Month: August

GIARDIA AND CRYPTOSPORIDIUM TREATMENT CREDITS										GIARDIA INACTIVATION CREDITS					VIRAL INACTIVATION CREDITS					
Total Daily Credit By Train										Total Daily Inactivation Credit By Train					Total Daily Inactivation Credit by Train					
Overall	Train 1	Train 2	Train 3	Train 4	Train 5	TRUE	FALSE	FALSE	FALSE	Minimum	TRUE	FALSE	FALSE	FALSE	Minimum	TRUE	FALSE	FALSE	FALSE	Minimum