

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)

PWS ID No.:

2430001

Plant ID No.:

21567

Report for

the Month of:

September 2014

Operator's Signature: [Signature]

Certificate No. & Grade:

W00023530, A Surface

Date: October 10, 2014

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.

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:

180

Number of readings above 0.10 NTU:

36

Number of readings above 0.3 NTU:

0

Number of readings above 0.5 NTU:

0

Number of readings above 1.0 NTU:

0

Maximum allowable turbidity level:

0.3

Percentage of readings above this limit:

0.0 % (1)

Number of 4-hour periods when plant was off-line:

0

Number of 4-hour periods when plant was on-line but turbidity data was not collected:

0

Number of days when plant was on-line but individual filter turbidity data was not collected:

0

Number of days with readings above 1.0 NTU:

0 (2)

Number of days with readings above 5.0 NTU:

0 (3)

Statistical Summary

Maximum turbidity reading:

0.16 NTU

Minimum turbidity reading:

0.04 NTU

CFE 95th percentile value:

0.13 NTU

Average turbidity value:

0.09 NTU

Standard deviation:

0.023 NTU

IFE 95th percentile:

0.280 NTU

Bin Class: 4

Crypto Credit Required:

5.5 (7A)

Crypto Credit Achieved:

7.3 (7B)

Bin 3&4 Credits:

2.8 (7C)

Watershed Protection:

0.0

Conventional Treatment:

3.0

Second Stage Filtration:

0.0

Bank Filtration:

0.0

Enhanced Filter Performance:

1.0

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:

2.8

Perform. Demonstration:

0.5

Number of days with a low CT

for no more than 4.0 consecutive hours:

0

Average log inactivation for Giardia:

8.30

Number of days with a low CT

for more than 4.0 consecutive hours:

0 (4)

Average log inactivation for viruses:

17.81

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:

164

(at least 100 required) (8)

Average disinfectant residual value:

3.04

Percentage of readings with a low residual this month:

0.0 % (9A)

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 % (9B)

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

Membranes-PBT

Enhanced IFE Worksheet

Performance
Demonstration

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:

33,112

Month:

September

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	5.000	10.947	3	33	1.5	1.8					0.08	0.07	0.07	0.07	0.08	0.09	3.4	
2	5.000	10.780	3	37	1.2	1.2					0.09	0.08	0.07	0.08	0.08	0.09	3.3	
3	5.000	7.649	2	49	1.6	1.4					0.09	0.09	0.07	0.07	0.07	0.08	3.3	
4	5.000	10.082	2	53	1.4	1.0					0.07	0.08	0.07	0.07	0.07	0.08	3.3	
5	5.000	9.800	2	55	1.0	1.1					0.09	0.10	0.11	0.09	0.11	0.11	3.1	
6	5.000	9.320	2	52	1.1	1.2					0.12	0.07	0.08	0.08	0.07	0.08	3.0	
7	5.000	9.573	2	47	1.0	1.6					0.09	0.09	0.09	0.11	0.10	0.09	3.4	
8	5.000	9.923	2	49	1.0	1.3					0.09	0.08	0.08	0.08	0.09	0.11	3.7	
9	5.000	8.990	2	44	1.4	1.8					0.11	0.11	0.10	0.09	0.08	0.09	3.3	
10	5.000	10.897	2	46	1.7	1.8					0.08	0.08	0.11	0.14	0.12	0.13	3.3	
11	5.000	11.753	2	50	1.1	1.4					0.12	0.09	0.13	0.16	0.11	0.15	3.3	
12	5.000	10.364	2	30	1.3	1.9					0.06	0.13	0.05	0.09	0.12	0.12	3.5	
13	5.000	11.030	3	37	1.3	1.5					0.11	0.12	0.10	0.10	0.11	0.12	3.7	
14	5.000	9.001	2	39	1.2	1.9					0.14	0.10	0.15	0.15	0.14	0.14	3.6	
15	5.000	9.708	3	33	1.4	2.2					0.13	0.13	0.11	0.10	0.10	0.11	3.3	
16	5.000	8.626	3	44	1.5	3.3					0.11	0.10	0.09	0.08	0.07	0.08	3.1	
17	5.000	9.518	2	54	1.5	1.2					0.10	0.11	0.11	0.08	0.09	0.10	3.1	
18	5.000	10.947	2	61	1.6	1.2					0.09	0.09	0.09	0.10	0.09	0.10	3.4	
19	5.000	10.130	2	45	1.1	0.9					0.10	0.09	0.09	0.07	0.08	0.07	3.6	
20	5.000	11.333	2	72	1.5	1.2					0.08	0.08	0.08	0.07	0.07	0.07	3.6	
21	5.000	10.240	2	46	1.2	1.3					0.08	0.07	0.07	0.06	0.06	0.07	2.7	
22	5.000	9.400	2	45	1.2	1.8					0.07	0.08	0.08	0.06	0.06	0.06	3.0	
23	5.000	10.647	2	49	2.1	1.7					0.10	0.10	0.06	0.06	0.07	0.07	2.6	
24	5.000	9.988	3	47	1.4	2.2					0.07	0.07	0.06	0.06	0.06	0.06	2.5	
25	5.000	8.103	3	50	1.8	1.6					0.08	0.06	0.06	0.05	0.05	0.05	2.7	
26	5.000	11.331	3	37	1.1	1.9					0.06	0.05	0.06	0.06	0.06	0.07	2.9	
27	5.000	9.742	3	48	1.4	1.6					0.10	0.08	0.07	0.06	0.07	0.08	2.9	
28	5.000	11.472	3	40	1.7	2.3					0.09	0.09	0.07	0.06	0.06	0.06	3.1	
29	5.000	9.154	2	43	2.1	1.2					0.06	0.06	0.06	0.06	0.07	0.06	3.2	
30	5.000	10.046	3	43	1.2	1.3					0.06	0.09	0.07	0.04	0.06	0.08	3.1	
31																		
Total	150.000	300.494	NOTE: ONLY use the "Time ^{min} " column to show the length of time that the disinfectant residual entering the distribution system fell below the acceptable level.															
Avg	5.000	10.016																
Max	5.000	11.753																
Min	5.000	7.649																

NOTE: ONLY use the "Time^{min}" 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:

October 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:

September

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	0.08	X	0.12	0.10	0.08	X	0.28	0.10	0.08	X										
2	0.27	0.09	0.10	X	0.25	0.09	0.09	X	0.13	0.09										
3	0.08	X	0.07	X	0.09	X	0.08	X	0.09	X										
4	0.08	X	0.09	X	0.09	X	0.14	0.13	0.09	X										
5	0.28	0.10	0.14	0.13	0.16	0.12	0.14	X	0.14	0.10										
6	0.11	X	0.11	X	0.12	X	0.14	0.12	0.11	X										
7	0.23	0.12	0.17	0.12	0.25	0.11	0.13	X	0.28	0.11										
8	0.28	0.12	0.26	0.13	0.29	0.14	0.26	0.15	0.22	0.15										
9	0.11	X	0.12	X	0.12	X	0.13	X	0.12	X										
10	0.19	0.09	0.15	0.12	0.27	0.12	0.24	0.12	0.24	0.12										
11	0.26	0.13	0.28	0.14	0.26	0.18	0.28	0.10	0.23	0.11										
12	0.13	X	0.19	0.12	0.13	X	0.13	X	0.11	X										
13	0.27	0.15	0.13	X	0.18	0.14	0.28	0.17	0.28	0.15										
14	0.24	0.13	0.30	0.14	0.26	0.18	0.12	0.12	0.23	0.16										
15	0.12	X	0.12	X	0.15	X	0.29	X	0.16	X										
16	0.12	0.04	0.19	0.13	0.11	X	0.12	X	0.10	X										
17	0.09	x	0.10	x	0.23	0.14	0.18	0.11	0.15	0.11										
18	0.11	0.10	0.15	0.10	0.16	0.14	0.10	x	0.11	x										
19	0.09	x	0.10	x	0.11	x	0.14	0.11	0.11	x										
20	0.08	x	0.08	x	0.09	x	0.10	x	0.07	x										
21	0.08	x	0.08	x	0.09	x	0.10	x	0.08	x										
22	0.26	0.12	0.13	x	0.23	0.13	0.19	x	0.21	0.10										
23	0.19	x	0.25	x	0.30	0.07	0.20	0.10	0.28	x										
24	0.07	x	0.09	x	0.09	x	0.10	x	0.07	x										
25	0.06	x	0.07	x	0.08	x	0.08	x	0.06	x										
26	0.27	0.10	0.22	0.06	0.17	0.13	0.08	x	0.16	0.10										
27	0.09	x	0.10	x	0.14	x	0.28	0.11	0.10	x										
28	0.07	x	0.07	x	0.08	x	0.10	x	0.07	x										
29	0.06	x	0.07	x	0.07	x	0.08	x	0.06	x										
30	0.10	0.09	0.24	0.10	0.10	x	0.07	x	0.05	x										
31																				

SUMMARY & COMPLIANCE ACTIONS

Criteria	Filter No.										Plant
Number of days with event(s) above 0.5 NTU at 4.0 hrs this month	0	0	0	0	0	0					
Number of days with event(s) above 1.0 NTU this month	0	0	0	0	0	0					
Number of days with event(s) above 1.0 NTU last month	0	0	0	0	0	0					
Number of days with event(s) above 1.0 NTU two months ago	0	0	0	0	0	0					
Total number of days with event(s) above 1.0 NTU in three months	0	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					N
Is the plant required to submit a Filter Profile Report?	N	N	N	N	N	N					
Is the plant required to submit a Filter Assessment Report?	N	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:

October 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.: 2430DD1

Plant ID No.: 21567

Month:

September

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	6.6	67.1	223.3				

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	CLA D1	1.9	7.200	30.3	6.5				
	CLA D2	1.2	7.200	28.7	6.1				
	CLA D3	2.0	2.200	28.3	6.5	8.18	21.54	4.09	
	CLA D4	3.5	10.000	28.2	9.0			(3)	
	CLA D5	3.8	10.000	28.9	8.0				
2	CLA D1	2.2	7.400	27.9	6.5				
	CLA D2	1.1	7.400	27.6	6.2				
	CLA D3	0.1	2.200	27.2	6.5	8.45	19.58	3.92	
	CLA D4	4.2	10.000	26.7	9.3			(V)	
	CLA D5	3.7	10.000	27.2	8.9				
3	CLA D1	1.8	7.400	29.9	6.6				
	CLA D2	1.9	7.400	28.7	6.3				
	CLA D3	1.6	2.200	28.8	6.6	8.60	21.54	4.30	
	CLA D4	3.4	10.000	27.8	9.1			(3)	
	CLA D5	3.9	10.000	27.6	9.0				
4	CLA D1	2.6	7.200	26.8	9.0				
	CLA D2	1.1	7.200	27.3	6.3				
	CLA D3	1.0	2.200	27.3	6.6	9.16	19.85	3.97	
	CLA D4	3.8	10.000	26.3	9.0			(V)	
	CLA D5	3.8	10.000	25.9	9.0				
5	CLA D1	2.3	7.400	26.9	6.7				
	CLA D2	1.2	7.400	27.8	6.5				
	CLA D3	1.2	2.200	27.1	6.7	8.31	18.60	3.72	
	CLA D4	3.5	10.100	26.8	9.2			(V)	
	CLA D5	3.5	10.100	26.7	9.0				
6	CLA D1	1.0	7.300	24.7	6.7				
	CLA D2	1.7	7.300	26.4	6.8				
	CLA D3	1.7	2.200	26.8	6.8	7.17	15.17	3.03	
	CLA D4	4.3	10.000	24.9	9.1			(V)	
	CLA D5	3.5	10.000	26.8	9.0				
7	CLA D1	2.4	7.100	24.8	6.5				
	CLA D2	1.6	7.100	25.0	6.4				
	CLA D3	1.5	2.200	25.1	6.7	9.83	19.39	3.88	
	CLA D4	5.3	10.000	24.3	9.0			(V)	
	CLA D5	4.0	10.000	25.2	9.0				
8	CLA D1	2.9	7.100	26.1	6.2				
	CLA D2	1.6	7.100	26.4	6.3				
	CLA D3	1.8	2.200	26.1	6.6	10.32	21.75	4.35	
	CLA D4	4.1	10.000	25.7	9.0			(V)	
	CLA D5	3.9	10.000	26.0	8.9				

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	CLA D1	1.9	7.300	28.8	6.6				
	CLA D2	1.2	7.300	28.0	6.4				
	CLA D3	1.1	2.200	27.9	6.7	7.92	20.60	3.96	
	CLA D4	3.5	10.000	28.1	9.0			(3)	
	CLA D5	3.6	10.000	30.0	8.9				
10	CLA D1	1.7	7.400	28.7	6.5				
	CLA D2	0.5	7.400	28.7	6.4				
	CLA D3	0.6	2.200	30.3	6.8	6.60	16.47	3.29	
	CLA D4	3.5	10.000	27.6	9.0			(V)	
	CLA D5	3.2	10.000	28.6	8.9				
11	CLA D1	2.6	7.200	25.8	6.6				
	CLA D2	1.4	7.200	26.0	6.4				
	CLA D3	1.5	2.200	26.4	6.7	9.48	19.27	3.85	
	CLA D4	4.6	10.000	25.4	9.0			(V)	
	CLA D5	3.6	10.000	25.1	9.0				
12	CLA D1	2.6	7.200	22.6	6.3				
	CLA D2	1.4	7.200	22.8	6.2				
	CLA D3	1.5	2.200	23.9	6.6	7.81	15.75	3.15	
	CLA D4	4.5	10.000	21.2	6.9			(V)	
	CLA D5	4.0	10.000	21.7	8.9				
13	CLA D1	2.2	7.200	22.5	6.4				
	CLA D2	1.7	7.200	23.6	6.1				
	CLA D3	1.2	2.200	23.2	6.3	7.80	15.71	3.14	
	CLA D4	4.3	10.000	19.9	9.0			(V)	
	CLA D5	4.2	10.000	22.5	6.7				
14	CLA D1	2.1	7.100	23.0	6.5				
	CLA D2	1.4	7.100	23.9	6.3				
	CLA D3	1.1	5.300	22.8	6.6	7.16	14.40	2.88	
	CLA D4	3.5	10.000	21.8	9.0			(V)	
	CLA D5	3.7	10.000	22.4	8.8				
15	CLA D1	2.7	7.400	26.0	6.4				
	CLA D2	1.1	7.400	25.6	6.1				
	CLA D3	1.1	2.200	25.4	6.6	8.47	17.27	3.45	
	CLA D4	3.8	10.000	24.4	9.0			(V)	
	CLA D5	3.2	10.000	24.5	8.9				
16	CLA D1	2.4	7.300	27.7	6.7				
	CLA D2	1.5	7.300	27.3	6.3				
	CLA D3	1.5	2.200	27.8	6.5	8.32	18.20	3.64	
	CLA D4	3.4	10.000	24.7	9.0			(V)	
	CLA D5	3.1	10.000	24.5	9.0				

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: October 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 (cont.)

PUBLIC WATER
SYSTEM NAME:

City of Wichita Falls

PLANT NAME

OR NUMBER:

Cypress DPR (Microfiltration/RO)

PWS ID No.:

2430001

Plant ID No.:

24567

Month:

September

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		
T ₁₀ (minutes)	367.00	223.20	6.60	67.10	223.30	2.0	6.0

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
17	CLA D1	2.6	7.200	26.8	6.6				
	CLA D2	1.4	7.200	26.4	6.4				
	CLA D3	1.4	2.200	25.6	6.7	9.02	19.03	3.81	
	CLA D4	4.0	10.000	24.2	9.2			(V)	
	CLA D5	3.7	10.000	23.8	9.0				
18	CLA D1	2.7	7.200	26.3	6.6				
	CLA D2	1.5	7.200	26.6	6.4				
	CLA D3	1.5	2.200	26.2	6.7	9.51	19.77	3.95	
	CLA D4	4.5	10.000	24.8	9.2			(V)	
	CLA D5	3.7	10.000	24.1	9.1				
19	CLA D1	2.4	7.300	27.0	6.8				
	CLA D2	1.0	7.300	26.0	6.5				
	CLA D3	1.1	2.200	26.0	6.8	8.79	18.64	3.73	
	CLA D4	4.4	10.000	24.1	9.1			(V)	
	CLA D5	3.8	10.000	25.6	9.0				
20	CLA D1	0.1	7.200	26.4	6.7				
	CLA D2	2.6	7.200	27.3	6.4				
	CLA D3	1.3	2.200	27.5	6.8	6.98	15.65	3.13	
	CLA D4	4.1	10.000	25.6	9.1			(V)	
	CLA D5	3.9	10.000	27.1	9.1				
21	CLA D1	2.3	7.300	27.9	6.4				
	CLA D2	0.6	7.300	26.3	6.3				
	CLA D3	1.0	2.200	27.5	6.7	6.90	15.72	3.14	
	CLA D4	3.8	10.000	26.6	9.0			(V)	
	CLA D5	2.1	10.000	25.7	9.0				
22	CLA D1	2.2	7.300	26.2	6.5				
	CLA D2	1.5	7.300	27.4	6.3				
	CLA D3	1.2	2.200	26.5	6.7	8.33	17.66	3.53	
	CLA D4	3.7	10.000	25.5	9.2			(V)	
	CLA D5	3.2	10.000	25.7	9.0				
23	CLA D1	2.5	7.300	26.0	6.6				
	CLA D2	1.2	7.300	25.6	6.4				
	CLA D3	1.1	2.200	26.5	6.8	7.37	15.08	3.02	
	CLA D4	3.5	10.000	23.6	9.2			(V)	
	CLA D5	2.1	10.000	25.1	9.1				
24	CLA D1	2.4	7.300	25.5	6.5				
	CLA D2	1.6	7.300	24.6	6.4				
	CLA D3	1.3	2.200	24.9	6.7	8.84	17.72	3.54	
	CLA D4	4.1	10.000	24.9	9.2			(V)	
	CLA D5	3.3	10.000	25.4	9.1				

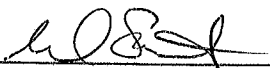
PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
25	CLA D1	2.4	7.500	25.5	6.6				
	CLA D2	1.4	7.500	26.0	6.4				
	CLA D3	0.9	2.200	25.8	6.7	8.11	16.38	3.28	
	CLA D4	3.6	10.000	24.5	9.1			(V)	
	CLA D5	3.2	10.000	24.1	9.1				
26	CLA D1	2.7	7.300	24.4	6.5				
	CLA D2	2.1	7.300	25.4	6.4				
	CLA D3	1.6	2.200	22.4	6.7	9.39	18.64	3.73	
	CLA D4	3.8	10.000	24.1	9.2			(V)	
	CLA D5	3.4	10.000	24.5	9.2				
27	CLA D1	2.0	7.100	24.3	6.4				
	CLA D2	1.6	7.100	24.8	6.2				
	CLA D3	1.5	2.200	24.6	6.5	8.08	16.10	3.22	
	CLA D4	4.4	10.000	23.2	9.1			(V)	
	CLA D5	3.8	10.000	22.9	9.1				
28	CLA D1	2.4	7.200	24.3	6.6				
	CLA D2	1.3	7.200	25.1	6.3				
	CLA D3	1.0	2.200	24.3	6.7	8.44	16.73	3.35	
	CLA D4	4.2	10.000	24.0	9.1			(V)	
	CLA D5	3.6	10.000	24.1	9.0				
29	CLA D1	1.5	7.200	27.2	6.4				
	CLA D2	1.5	7.200	26.0	6.2				
	CLA D3	0.7	2.200	25.9	6.5	7.61	15.90	3.18	
	CLA D4	3.7	10.000	24.5	9.1			(V)	
	CLA D5	3.8	10.000	24.2	9.0				
30	CLA D1	1.2	7.200	27.0	6.5				
	CLA D2	2.5	7.200	25.7	6.3				
	CLA D3	2.1	2.200	25.3	6.7	7.91	16.25	3.25	
	CLA D4	2.8	10.000	24.7	9.1			(V)	
	CLA D5	3.6	10.000	24.8	9.0				
31	D1								
	D2								
	D3								
	D4								
	D5								

Max	10.32	21.75
Min	6.60	14.40
Avg	8.30	17.81
SD	0.88	2.07

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: October 10, 2014

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: September

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 psi/min		Prev. Month Data	DIT _{test} date	Pass? Yes/No	C/A Success?	DIT Cond'n's	P _{test} psi	LRC -	UCL psi/min		Prev. Month	DIT _{test} date	Pass? Yes/No	C/A Success?
		18.5	2.8	1.650			8/31/14	YES	NA		16.5	2.8	1.650			8/31/14	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.	Norm. Filtr.Flux	TMP	Norm. Spc.Flux	Daily Max.	CIP done?	P _{Initial}	ΔP _{test} /Δt	DIT pass?	C/A success?	Daily Pump.	Norm. Filtr.Flux	TMP	Norm. Spc.Flux	Daily Max.	CIP done?	P _{Initial}	ΔP _{test} /Δt	DIT pass?	C/A success?
	MG	gfd	psi	gfd/psi	mNTU	-	psi	psi/min	-	-	MG	gfd	psi	gfd/psi	mNTU	-	psi	psi/min	-	-
1	1.259	14.4	2.8	5.07	27		18.2	0.700	YES	NA	1.324	14.4	2.4	6.05	31		18.7	0.470	YES	NA
2	1.232	14.3	2.7	5.40	27		18.1	0.730	YES	NA	1.169	14.3	2.2	6.38	28		18.8	0.470	YES	NA
3	1.272	14.3	2.8	5.14	25		18.2	0.690	YES	NA	1.340	14.3	2.3	6.17	19		18.8	0.470	YES	NA
4	1.364	14.4	2.8	5.22	28		18.3	0.700	YES	NA	1.292	14.4	2.3	6.37	28		18.7	0.460	YES	NA
5	1.312	14.5	2.9	5.02	28		18.4	0.670	YES	NA	1.240	14.4	23.4	0.62	18		18.8	0.460	YES	NA
6	1.341	14.3	3.0	4.83	30		18.3	0.660	YES	NA	1.366	14.3	2.3	6.11	33		18.6	0.480	YES	NA
7	1.262	14.3	3.1	4.57	26		18.3	0.610	YES	NA	1.249	14.3	2.5	5.72	18		18.7	0.430	YES	NA
8	1.000	14.4	3.3	4.36	34		18.3	0.640	YES	NA	1.000	14.4	2.3	6.23	34		18.7	0.450	YES	NA
9	1.306	14.3	3.1	4.64	27		18.3	0.640	YES	NA	0.562	14.2	1.5	9.50	22		16.6	0.400	YES	NA
10	1.260	14.4	3.2	4.45	29		18.4	0.640	YES	NA	1.206	14.2	1.6	8.66	23		17.7	0.780	YES	NA
11	1.162	14.3	3.2	4.48	27		18.3	0.630	YES	NA	1.518	14.2	1.8	8.05	32		17.9	0.660	YES	NA
12	1.380	14.3	3.5	4.09	30		18.2	0.620	YES	NA	1.298	14.3	1.9	7.42	16		18.0	0.650	YES	NA
13	1.000	13.9	3.4	4.12	30		18.1	0.590	YES	NA	1.000	14.4	1.9	7.42	29		18.0	0.590	YES	NA
14	1.000	14.3	3.8	3.73	25		18.3	0.580	YES	NA	1.000	14.4	2.2	6.68	19		18.1	0.680	YES	NA
15	1.194	14.3	3.5	4.15	30		18.3	0.610	YES	NA	1.246	14.3	2.0	7.34	10		18.2	0.580	YES	NA
16	1.367	14.3	3.6	3.99	26		18.2	0.620	YES	NA	1.339	14.3	2.0	7.29	29		18.2	0.580	YES	NA
17	1.195	14.3	3.2	4.45	26		18.3	0.610	YES	NA	1.246	14.3	1.9	7.53	20		18.3	0.580	YES	NA
18	1.273	14.3	3.5	4.10	33		18.0	0.610	YES	NA	1.348	14.3	2.0	7.16	28		18.0	0.580	YES	NA
19	1.373	14.3	3.3	4.30	32		18.2	0.640	YES	NA	1.252	14.3	1.9	7.44	19		18.3	0.540	YES	NA
20	1.272	14.3	3.6	4.03	29		18.2	0.610	YES	NA	1.281	14.3	2.1	6.94	33		18.4	0.580	YES	NA
21	1.511	14.4	3.4	4.29	40		18.3	0.630	YES	NA	1.514	14.4	2.0	7.09	19		18.2	0.580	YES	NA
22	1.239	14.3	3.5	4.05	28		18.3	0.610	YES	NA	1.211	14.3	2.1	6.81	35		18.4	0.550	YES	NA
23	1.377	14.3	3.6	3.94	29		18.3	0.610	YES	NA	1.316	14.3	2.1	6.91	24		18.2	0.560	YES	NA
24	1.260	14.3	3.8	3.77	30		18.3	0.600	YES	NA	1.232	14.3	2.3	6.33	25		18.4	0.520	YES	NA
25	1.380	14.3	3.9	3.65	28		18.3	0.590	YES	NA	1.372	14.3	2.3	6.35	22		18.3	0.520	YES	NA
26	1.318	14.3	4.0	3.55	30		18.3	0.600	YES	NA	1.179	14.3	2.4	5.98	25		18.4	0.510	YES	NA
27	1.330	14.3	4.3	3.32	34		18.2	0.620	YES	NA	1.322	14.3	2.4	5.96	17		18.3	0.530	YES	NA
28	1.300	14.4	4.2	3.48	35		18.3	0.610	YES	NA	1.300	14.4	2.7	5.32	21		18.4	0.520	YES	NA
29	1.300	14.3	4.1	3.50	30		18.2	0.610	YES	NA	1.300	14.5	2.7	5.44	25		18.3	0.530	YES	NA
30	1.212	14.3	3.9	3.70	29		18.2	0.620	YES	NA	1.257	14.3	2.4	6.03	17		18.4	0.520	YES	NA
31																				

SUMMARY	Unit No. 1									Unit No. 2							
	IIT									DIT							
	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							
Comments	General Remarks									Additional Comments							

SUBMITTED BY:

Certificate No.
and Grade:

WO0023530, A Surface

Date: October 10, 2014

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

Membranes, PBT

MMOR

MEMBRANE MONTHLY OPERATING REPORT

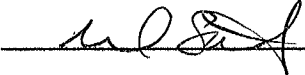
FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
Pressure Decay Rate Direct Integrity Tests (cont.)

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: September 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 psi/min		Prev. Month	DIT _{test} date	Pass? Yes/No	C/A Success?		DIT Cond'n's	P _{test} psi	LRC -	UCL psi/min		Prev. Month	DIT _{test} date	Pass? Yes/No	C/A Success?	
		18.5	2.8	1.650			8/31/14	YES	NA			18.5	2.8	1.650			8/31/14	YES	NA	
	Optional Data	Filt.Fluid gfd	TMP psi								Optional Data	Filt.Fluid gfd	TMP psi							

PERFORMANCE DATA																				
Date	Unit No. 3										Unit No. 4									
	Operational Data						DIT Data				Operational Data						DIT Data			
	Daily Pump.	Norm. Filt.Flux	TMP	Norm. Spc.Flux	Daily Max.	CIP done?	P _{Initial}	ΔP _{test} /Δt	DIT pass?	C/A success?	Daily Pump.	Norm. Filt.Flux	TMP	Norm. Spc.Flux	Daily Max.	CIP done?	P _{Initial}	ΔP _{test} /Δt	DIT pass?	C/A success?
	MG	gfd	psi	gfd/psi	mNTU	-	psi	psi/min	-	-	MG	gfd	psi	gfd/psi	mNTU	-	psi	psi/min	-	-
1	1.259	14.4	3.1	4.63	31		18.2	0.650	YES	NA	1.373	14.8	1.0	15.14	29		19.0	0.400	YES	NA
2	1.284	14.3	3.3	4.39	40		19.1	0.640	YES	NA	1.148	14.4	0.9	15.31	26		19.1	0.400	YES	NA
3	1.264	14.3	3.1	4.62	42		18.3	0.630	YES	NA	1.352	14.3	0.9	16.30	26		19.0	0.400	YES	NA
4	1.342	14.5	3.4	4.29	44		18.3	0.620	YES	NA	1.274	14.5	0.9	15.44	37		19.1	0.400	YES	NA
5	1.280	14.4	3.2	4.53	34		18.3	0.620	YES	NA	1.364	14.6	0.9	15.53	26		18.9	0.400	YES	NA
6	1.276	14.3	3.5	4.11	51		18.2	0.590	YES	NA	1.275	14.4	1.0	14.49	31		18.9	0.390	YES	NA
7	1.357	14.3	3.4	4.19	30		18.2	0.580	YES	NA	1.346	14.5	1.0	13.89	27		18.8	0.390	YES	NA
8	1.000	14.4	3.5	4.10	43		18.3	0.570	YES	NA	1.000	14.4	1.0	14.70	27		18.9	0.380	YES	NA
9	1.443	14.3	3.4	4.15	28		17.1	0.520	YES	NA	1.505	14.9	1.1	13.82	77		19.0	0.400	YES	NA
10	1.452	14.4	3.6	4.02	40		18.3	0.580	YES	NA	1.200	14.4	1.0	14.40	32		19.0	0.390	YES	NA
11	1.271	14.3	3.7	3.92	46		18.2	0.570	YES	NA	1.224	14.3	1.1	13.39	31		18.8	0.390	YES	NA
12	1.286	14.3	3.8	3.73	26		18.3	0.550	YES	NA	1.250	14.4	1.1	12.63	27		18.8	0.300	YES	NA
13	1.000	14.6	4.0	3.65	41		18.2	0.540	YES	NA	1.000	14.4	1.3	11.09	27		18.0	0.380	YES	NA
14	1.000	14.5	4.0	3.82	50		18.3	0.530	YES	NA	1.000	14.5	1.1	12.75	25		18.7	0.380	YES	NA
15	1.381	14.3	4.0	3.60	29		18.2	0.550	YES	NA	1.399	14.5	1.2	12.27	32		18.8	0.380	YES	NA
16	1.262	14.3	3.8	3.82	30		18.3	0.550	YES	NA	1.185	14.4	1.1	13.29	33		18.7	0.400	YES	NA
17	1.354	14.4	3.9	3.68	32		18.3	0.570	YES	NA	1.386	14.4	1.1	12.74	29		18.9	0.390	YES	NA
18	1.284	14.3	3.7	3.88	29		18.3	0.580	YES	NA	1.291	14.4	1.1	13.42	32		18.9	0.390	YES	NA
19	1.328	14.3	4.0	3.63	42		18.3	0.540	YES	NA	1.268	14.4	1.1	12.74	28		18.8	0.380	YES	NA
20	1.314	14.3	3.8	3.82	40		18.2	0.580	YES	NA	1.782	14.4	1.1	13.34	26		18.9	0.390	YES	NA
21	1.504	14.4	4.4	3.27	53		18.3	0.550	YES	NA	1.508	14.4	1.0	14.40	53		18.9	0.390	YES	NA
22	1.384	14.3	3.8	3.74	29		18.3	0.570	YES	NA	1.345	14.4	1.1	12.95	29		18.9	0.390	YES	NA
23	1.280	14.3	4.2	3.45	50		18.3	0.550	YES	NA	1.274	14.4	1.2	12.19	50		18.8	0.380	YES	NA
24	1.324	14.3	4.2	3.46	40		18.2	0.550	YES	NA	1.365	14.4	1.2	11.62	40		18.7	0.390	YES	NA
25	1.286	14.3	4.4	3.29	40		18.2	0.530	YES	NA	1.236	14.3	1.3	11.47	26		18.7	0.380	YES	NA
26	1.352	14.3	4.4	3.23	29		18.2	0.550	YES	NA	1.372	14.4	1.3	10.90	38		18.7	0.380	YES	NA
27	1.235	14.3	4.6	3.11	44		18.2	0.550	YES	NA	1.264	14.4	1.3	10.75	28		18.8	0.380	YES	NA
28	1.300	14.4	4.9	2.95	32		18.2	0.560	YES	NA	1.300	14.4	1.5	9.96	31		18.7	0.380	YES	NA
29	1.300	14.3	3.7	3.90	43		18.2	0.550	YES	NA	1.300	13.9	1.5	9.57	38	YES	18.8	0.380	YES	NA
30	1.370	14.3	4.5	3.20	28		18.2	0.570	YES	NA	1.368	14.4	0.8	18.97	28		18.2	0.620	YES	NA
31																				

SUMMARY	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. WO0023530, A Surface and Grade: WO0023530, A Surface Date: October 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: September

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 psi/min		Prev. Month	DIT _{test} date	Pass? Yes/No	C/A Success?	DIT Cond'n's	P _{test} psi	LRC -	UCL psi/min		Prev. Month	DIT _{test} date	Pass? Yes/No	C/A Success?
		16.5	2.8	1.650			8/31/14	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
1	1.362	14.5	1.5	8.88	14		19.0	0.430	YES	NA							
2	1.130	14.3	1.4	9.83	18		19.1	0.420	YES	NA							
3	1.334	14.3	1.4	10.15	18		19.0	0.420	YES	NA							
4	1.278	14.5	1.5	9.83	17		19.1	0.420	YES	NA							
6	1.580	14.5	1.6	9.67	16		18.9	0.400	YES	NA							
6	1.279	14.3	1.5	9.41	14		19.0	0.390	YES	NA							
7	1.331	14.3	1.6	8.85	16		18.9	0.380	YES	NA							
8	1.000	14.5	1.6	8.81	14		19.0	0.380	YES	NA							
9	1.509	14.6	1.7	8.83	17		19.0	0.400	YES	NA							
10	1.152	14.4	1.5	9.45	17		19.0	0.410	YES	NA							
11	1.302	14.3	1.7	8.56	16		18.9	0.390	YES	NA							
12	1.298	14.3	1.7	8.48	18		18.9	0.390	YES	NA							
13	1.000	14.4	2.0	7.10	15		18.8	0.370	YES	NA							
14	1.000	14.4	2.0	7.24	17		18.9	0.370	YES	NA							
15	1.310	14.3	1.8	8.01	18		19.0	0.370	YES	NA							
16	1.348	14.3	1.7	8.57	16		18.9	0.380	YES	NA							
17	1.323	14.4	1.7	8.44	23		18.9	0.380	YES	NA							
18	1.362	14.3	1.7	8.52	14		19.0	0.380	YES	NA							
19	1.303	14.3	1.7	8.38	17		19.0	0.370	YES	NA							
20	1.333	14.3	1.7	8.24	14		19.0	0.380	YES	NA							
21	1.629	14.5	1.8	7.95	31		19.0	0.380	YES	NA							
22	1.373	14.4	1.8	8.02	19		18.9	0.380	YES	NA							
23	1.294	14.3	1.8	7.97	15		18.8	0.400	YES	NA							
24	1.344	14.3	2.0	7.35	14		18.9	0.370	YES	NA							
25	1.214	14.3	1.9	7.57	15		18.8	0.400	YES	NA							
26	1.290	14.3	2.1	6.95	15		18.9	0.360	YES	NA							
27	1.332	14.3	2.0	7.12	16		18.7	0.380	YES	NA							
28	1.300	14.4	2.1	6.74	15		18.9	0.370	YES	NA							
29	1.300	14.4	2.1	6.99	15		18.8	0.380	YES	NA							
30	1.275	14.3	2.0	7.05	15		19.0	0.370	YES	NA							
31																	

SUMMARY	Unit No. 5									Unit No. 6								
	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								
	Number of dates with treatment technique violation									0								
Comments	General Remarks									Additional Comments								

SUBMITTED BY:



Certificate No.
and Grade:

WO0023530, A Surface

Date: October 10, 2014

TCEQ - 20359-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.)

LT2ESWTR Summary Page

PUBLIC WATER SYSTEM NAME: City of Wichita Falls PLANT NAME: Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001 Plant ID No.: 21567 OR NUMBER: September 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	Pressed. 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 CFE Perform.	Optimized IFE Perform.	Crypto Chemical Disinfect.	UV Disinfect. (ISA)	UV Disinfect. (CDA)	Watershed Protection	Perform. Demon.	
								FALSE	FALSE	TRUE								TRUE
Overall	FALSE	FALSE	FALSE	TRUE	TRUE	FALSE	FALSE				TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	TRUE	
Train 1				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.)

LTZESWTR Summary Page (cont)

PUBLIC WATER

SYSTEM NAME: City of Wichita Falls

PWS ID No.: 2430001

Plant ID No.: 21567

PLANT NAME

OR NUMBER: Cypress DPR (Microfiltration/RO)

Month: September

Year: 2014

GIARDIA AND CRYPTOSPORIDIUM TREATMENT CREDITS										GIARDIA INACTIVATION CREDITS					VIRAL INACTIVATION CREDITS																
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											
Overall	TRUE		FALSE		FALSE		FALSE		Minimum	TRUE		FALSE		FALSE		FALSE		Minimum	TRUE		FALSE		FALSE		Minimum	TRUE		FALSE		FALSE	
Train 1																															
Train 2																															
Train 3																															
Train 4																															
Train 5																															
1	7.30								7.30	2.80									2.80	8.18							21.54				21.54
2	7.30								7.30	2.80									2.80	8.45							19.58				19.58
3	7.30								7.30	2.80									2.80	8.60							21.54				21.54
4	7.30								7.30	2.80									2.80	9.16							19.85				19.85
5	7.30								7.30	2.80									2.80	8.31							18.60				18.60
6	7.30								7.30	2.80									2.80	7.17							15.17				15.17
7	7.30								7.30	2.80									2.80	9.83							19.39				19.39
8	7.30								7.30	2.80									2.80	10.32							21.75				21.75
9	7.30								7.30	2.80									2.80	7.92							20.60				20.60
10	7.30								7.30	2.80									2.80	6.60							16.47				16.47
11	7.30								7.30	2.80									2.80	9.46							19.27				19.27
12	7.30								7.30	2.80									2.80	7.81							15.75				15.75
13	7.30								7.30	2.80									2.80	7.80							15.71				15.71
14	7.30								7.30	2.80									2.80	7.16							14.40				14.40
15	7.30								7.30	2.80									2.80	8.47							17.27				17.27
16	7.30								7.30	2.80									2.80	8.32							18.20				18.20
17	7.30								7.30	2.80									2.80	9.02							19.03				19.03
18	7.30								7.30	2.80									2.80	9.51							19.77				19.77
19	7.30								7.30	2.80									2.80	8.79							18.64				18.64
20	7.30								7.30	2.80									2.80	6.98							15.65				15.65
21	7.30								7.30	2.80									2.80	6.90							15.72				15.72
22	7.30								7.30	2.80									2.80	8.33							17.66				17.66
23	7.30								7.30	2.80									2.80	7.37							15.06				15.06
24	7.30								7.30	2.80									2.80	8.84							17.72				17.72
25	7.30								7.30	2.80									2.80	8.11							16.38				16.38
26	7.30								7.30	2.80									2.80	9.39							16.64				16.64
27	7.30								7.30	2.80									2.80	8.08							16.10				16.10
28	7.30								7.30	2.80									2.80	8.44							16.73				16.73
29	7.30								7.30	2.80									2.80	7.91							15.90				15.90
30	7.30								7.30	2.80									2.80	7.91							16.25				16.25
31																															
MIN	7.30								7.30	2.80									2.80	6.60							14.40				14.40
AVG	7.30								7.30	2.80									2.80	8.30							17.81				17.81
MAX	7.30								7.30	2.80									2.80	6.60							14.40				14.40