

No. 1, Failure to report a failed DIT and the corrective action taken on August 25, 2014 on the Cypress DPR (microfiltration) SWMOR.

Please see the attached copy of the corrected DPR SWMOR. The correction was made on page 1 of the Membranes, PBT form, August 25, DIT data. The DIT was corrected to reflect the highest average pressure drop as noted in the TCEQ guidance manual, How to Complete the Membrane Filters worksheet of the SWMOR-Alt. Comments were also added to briefly describe corrective actions taken.

RECEIVED

DEC 01 2014

TEXAS COMMISSION ON
ENVIRONMENTAL QUALITY
ABILENE REGION

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.: 2450001

Plant ID No.: 21587

Report for
the Month of: August 2014

Operator's Signature: _____

Certificate No. & Grade: WO0023530, A Surface

Date: November 20, 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: <u>188</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>0.02</u> NTU	Standard deviation: <u>0.014</u> NTU	
CFE 95 th percentile value: <u>0.10</u> NTU	IFE 95 th percentile: <u>0.285</u> NTU	

Bin Class: <u>4</u>	Crypto Credit Required: <u>5.6</u> (7A)	Crypto Credit Achieved: <u>6.9</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>	
Precedimentation 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>0.0</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>8.45</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>20.08</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	
Total number of readings this month: <u>118</u> (at least 100 required) (8)	Percentage of readings with a low residual this month: <u>0.0</u> % (9A)
Average disinfectant residual value: <u>3.20</u>	Percentage of readings with a low residual last month: <u>0.0</u> % (9B)
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-TOC/MOR

Advanced Technology

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:

34,115

Month:

August

Year:

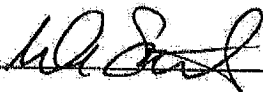
2014

Population:

PERFORMANCE DATA																		
Date	Raw Water Pumpage (MGD)	Treated Water Pumpage (MGD)	RAW WATER ANALYSES		SETTLED WATER TURBIDITY (Optional Data)						FINISHED WATER QUALITY							
			NTU	AUC	Basin No.						Combined Filter Effluent Turbidity						Lowest Residual	TimeG
					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					0.08	0.07	0.06	0.06	0.06	0.06	2.4	
3	7.200	10.990	2	47	1.4	2.2					0.08	0.06	0.06	0.06	0.06	0.05	2.4	
4	7.100	8.770	3	53	1.1	1.1					0.06	0.06	0.06	0.06	0.06	0.06	2.8	
5	7.100	8.620	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	1.9	
7	7.100	12.211	2	95	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	0.06	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	8.695	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	84	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	8.860	3	48	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	8.107	2	65	1.5	2.0					0.08	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	0.08	0.06	0.05	0.08	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	0.06	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	0.06	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	9.548	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 "TimeG" 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:

WC0023530, A Surface

Date:

November 20, 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)

PWS ID No.: 2430001

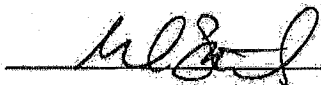
Plant ID No.: 21567

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	0.10	0.06	0.18	0.05	0.19	0.08	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	0.06	x	0.06	x	0.06	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	0.06	0.12	x	0.29	0.12	0.42	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	0.05	0.27	x	0.29	0.09	0.05	x											
19	0.06	x	0.05	x	0.11	x	0.06	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	0.09	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	0.18	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: November 20, 2014

SURFACE WATER MONTHLY OPERATING REPORT

FOR SURFACE 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:

Covess 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		
T ₁₀ (minutes)	857.00	223.20	5.60	67.10	223.30	2.0	5.0

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	6.78	17.39	3.38	
	CLA D4	4.3	10.000	28.3	6.1			(G)	
	CLA D5	3.0	10.000	28.6	6.1				
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	22.08	4.41	
	CLA D4	3.5	10.000	27.5	6.2			(V)	
	CLA D5	3.5	10.000	27.2	6.1				
19	CLA D1	2.5	7.100	27.6	6.7				
	CLA D2	2.8	7.100	26.5	6.5				
	CLA D3	2.7	2.200	26.4	6.6	10.26	23.69	4.78	
	CLA D4	3.8	10.000	27.7	6.2			(V)	
	CLA D5	3.3	10.000	28.2	6.2				
20	CLA D1	2.4	7.200	28.2	6.6				
	CLA D2	1.5	7.200	26.3	6.4				
	CLA D3	1.4	2.200	26.4	6.6	6.64	16.54	3.71	
	CLA D4	3.5	10.000	26.4	6.2			(V)	
	CLA D5	3.2	10.000	26.5	6.2				
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	6.2			(V)	
	CLA D5	3.3	10.000	27.0	6.2				
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	6.72	19.69	4.00	
	CLA D4	3.5	10.000	28.0	6.2			(V)	
	CLA D5	3.3	10.000	27.3	6.1				
23	CLA D1	1.6	7.200	30.8	6.5				
	CLA D2	0.6	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	6.2			(G)	
	CLA D5	3.1	10.000	27.9	6.1				
24	CLA D1	2.5	7.100	28.6	6.6				
	CLA D2	1.5	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	6.2			(V)	
	CLA D5	3.3	10.000	26.9	6.1				

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	6.4				
	CLA D3	2.0	2.200	29.1	6.8	6.49	17.25	3.25	
	CLA D4	3.9	10.000	29.7	6.0			(G)	
	CLA D5	3.4	10.000	29.6	6.1				
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	6.5	9.69	22.98	4.50	
	CLA D4	4.0	10.000	27.9	6.1			(V)	
	CLA D5	3.9	10.000	27.7	6.1				
27	CLA D1	1.9	7.200	31.1	6.6				
	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	6.2			(G)	
	CLA D5	3.6	10.000	28.9	6.1				
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	6.2			(V)	
	CLA D5	3.7	10.000	27.5	6.1				
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	28.7	6.5	7.21	15.76	3.15	
	CLA D4	4.0	10.000	26.7	6.0			(V)	
	CLA D5	3.7	10.000	26.4	6.0				
30	CLA D1	3.0	7.300	26.3	6.5				
	CLA D2	1.7	7.300	27.0	6.2				
	CLA D3	1.3	2.200	26.7	6.6	10.28	21.58	4.32	
	CLA D4	4.1	10.000	24.7	6.1			(V)	
	CLA D5	3.6	10.000	25.6	6.0				
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	6.0			(V)	
	CLA D5	3.7	10.000	27.4	6.0				
						Max	10.73	25.24	
						Min	5.46	13.89	
						Avg	6.65	20.06	
						SD	1.30	2.62	

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: November 20, 2014

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

PAGE 5

SWMOR-Air (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

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	
T10 (minutes)	857.0	223.2	5.6	87.1	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	6.6				
	CLA D3	2.2	2.200	26.5	6.8	8.55	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	25.6	6.6				
	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	2.0	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	28.0	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	2.6	7.100	27.4	6.7				
	CLA D2	1.5	7.100	27.2	6.5				
	CLA D3	1.2	2.200	27.0	6.8	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	3.69	
	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	2.8	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	3.5	10.000	27.3	9.3			(V)	
	CLA D5	3.5	10.000	27.1	9.3				

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	6.8	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	9.3				
10	CLA D1	0.1	7.200	30.9	6.8				
	CLA D2	2.2	7.200	28.7	6.7				
	CLA D3	1.7	2.200	27.8	6.7	9.40	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	4.61	
	CLA D4	3.7	10.000	27.7	9.3			(S)	
	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			(S)	
	CLA D5	3.7	10.000	28.3	9.3				
13	CLA D1	2.8	7.100	28.3	6.6				
	CLA D2	1.7	7.100	28.6	6.4				
	CLA D3	1.5	2.200	28.0	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	6.8	7.48	18.41	3.68	
	CLA D4	3.1	10.000	27.5	9.1			(V)	
	CLA D5	3.1	10.000	27.5	9.1				
15	CLA D1	0.1	7.100	31.6	6.8				
	CLA D2	2.0	7.100	29.3	6.7				
	CLA D3	0.1	2.100	29.3	6.7	5.48	13.89	2.74	
	CLA D4	3.2	10.000	29.1	9.1			(S)	
	CLA D5	3.1	10.000	28.8	9.1				
16	CLA D1	2.4	7.100	25.8	6.6				
	CLA D2	2.0	7.100	26.8	6.5				
	CLA D3	1.3	2.200	26.4	6.7	8.84	19.03	3.81	
	CLA D4	3.6	10.000	25.6	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: November 20, 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.)
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

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	2,841	11	0.37%	0		26				
2	2,831	10	0.34%	0		27				
3	2,845	14	0.48%	0		28				
4	2,842	14	0.48%	0		29				
5	2,842	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: November 20, 2014

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

Enhanced IFE Performance

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.: 21507

Month: August

Year: 2014

TEST PARAMETERS & ADDITIONAL DATA

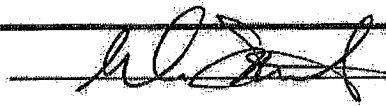
DIT CONDITIONS & ADDITIONAL DATA	Unit No. 1										Unit No. 2									
	DIT Cond'n	P _{test} psi	LRC	UCL psi/min	Prev. Month Data	DIT test date	Pass? Year/No	C/A Success?			DIT Cond'n	P _{test} psi	LRC	UCL psi/min	Prev. Month Data	DIT test date	Pass? Year/No	C/A Success?		
		16.5	2.8	1.580		7/31/14	YES	NA				16.5	2.8	1.580		7/31/14	YES	NA		
Optional Data	FIL Flux gfd	TMP psi									Optional Data	FIL Flux gfd	TMP psi							

PERFORMANCE DATA

Date	Unit No. 1										Unit No. 2									
	Operational Data					DIT Data					Operational Data					DIT Data				
	Daily Pump. MO	Norm. FIL Flux gfd	TMP psi	Norm. Sps. Flux gfd/psi	Daily Max. mMTU	CIP done?	P _{test} psi	AP _{test} /At psi/min	DIT pass?	C/A success?	Daily Pump. MO	Norm. FIL Flux gfd	TMP psi	Norm. Sps. Flux gfd/psi	Daily Max. mMTU	CIP done?	P _{test} psi	AP _{test} /At psi/min	DIT pass?	C/A success?
1	1,266	14.2	3.4	4.24	39		18.3	0.620	YES	NA	1,318	14.2	2.5	5.61	38		18.5	0.510	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	0.510	YES	NA
3	1,539	14.2	3.3	4.28	38		18.3	0.630	YES	NA	0,180	14.1	2.4	5.25	23		18.5	0.510	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	0.520	YES	NA
5	1,716	14.2	3.2	4.43	42		18.3	0.640	YES	NA	0,602	14.1	2.3	6.28	24		19.6	0.510	YES	NA
6	1,360	14.2	3.3	4.97	38		18.4	0.630	YES	NA	1,280	14.3	2.3	6.12	38		18.6	0.540	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	0.520	YES	NA
8	1,378	14.2	3.2	4.44	33		18.5	0.650	YES	NA	1,125	14.3	2.3	6.22	25		18.8	0.520	YES	NA
9	1,232	14.2	3.1	4.58	42		18.4	0.620	YES	NA	1,331	14.3	2.3	6.22	23		18.8	0.520	YES	NA
10	1,317	14.2	3.2	4.40	35		18.4	0.630	YES	NA	1,251	14.8	2.4	6.18	45		18.8	0.500	YES	NA
11	1,220	14.2	3.1	4.58	38		18.4	0.620	YES	NA	1,310	14.1	2.3	6.18	18		18.5	0.510	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	0.500	YES	NA
13	1,297	14.2	3.3	4.30	40		18.4	0.610	YES	NA	1,360	14.2	2.3	6.17	27		18.6	0.500	YES	NA
14	1,420	14.3	3.4	4.21	37		17.4	0.550	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	1,502	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	20		18.7	0.490	YES	NA
17	1,288	14.2	3.2	4.33	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	14.6	3.4	4.28	28		18.5	0.610	YES	NA	1,228	14.5	2.3	6.30	27		18.9	0.480	YES	NA
19	1,322	14.5	3.3	4.44	38		18.4	0.620	YES	NA	1,300	14.8	2.4	5.99	24		18.6	0.490	YES	NA
20	1,287	14.3	3.3	4.28	38		18.5	0.610	YES	NA	1,277	14.4	2.3	6.18	28		18.7	0.480	YES	NA
21	1,305	14.2	3.2	4.48	29		18.5	0.610	YES	NA	1,908	14.2	2.4	6.03	24		19.7	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		19.7	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	1,288	14.2	3.1	4.59	32		18.5	0.610	YES	NA	1,285	14.2	2.3	6.24	27		18.8	0.500	YES	NA
25	0,730	14.9	2.3	6.01	53	YES	14.9	1.120	NO	YES	1,595	14.8	2.5	5.85	27		18.7	0.470	YES	NA
26	1,495	14.6	2.8	5.88	30		17.6	0.870	YES	NA	1,499	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		18.6	0.480	YES	NA
28	1,334	14.2	2.7	5.28	27		18.4	0.690	YES	NA	1,259	14.1	2.3	6.09	22		18.7	0.480	YES	NA
29	1,288	14.3	2.7	5.30	40		17.9	0.730	YES	NA	1,268	14.2	2.4	5.98	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	5.93	28		18.0	0.740	YES	NA	1,266	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									
	General Remarks										General Remarks									
	Additional Comments										Additional Comments									
	Maintenance personnel performed the leak test and replaced o-rings on micro-filtration membranes that showed the largest leak. After replacing o-rings, the DIT passed with a start pressure of 18.64 PSI and a pressure drop of 1.02 PSI/min.																			

SUBMITTED BY:



Certificate No. and Grade: W00023530, A Surface

Date: November 20, 2014

TCER - 20328-MOD (07-01-13)

Membrane, PBT

MMCR

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.: 21547

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 psi/min		Prev. Month	DIT _{test} date	Pass? Year/No	C/A Success?	DIT Cond'n's	P _{test} psi	LRC	UCL psi/min		Prev. Month	DIT _{test} date	Pass? Year/No	C/A Success?
		18.5	2.8	1.650			8/15/14	YES	NA		18.8	2.8	1.650			8/18/14	YES	NA
	Optional Data	Flt.Flux gfd	TMP psi							Optional Data	Flt.Flux gfd	TMP psi						

PERFORMANCE DATA																				
Date	Unit No. 3										Unit No. 4									
	Operational Data						DIT Data				Operational Data						DIT Data			
	Daily Pump. No	Norm. Fil.Flux gfd	TMP psi	Norm. Sps.Flux gfd/psi	Daily Max. mMTU	CIP done?	P _{test} psi	AP _{test} /At psi/min	DIT pass?	C/A success?	Daily Pump. No	Norm. Fil.Flux gfd	TMP psi	Norm. Sps.Flux gfd/psi	Daily Max. mMTU	CIP done?	P _{test} psi	AP _{test} /At 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	14.06	37		18.8	0.390	YES	NA
3	1.521	14.2	3.3	4.20	53		18.1	0.620	YES	NA	1.858	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	1.518	15.6	1.1	14.81	41		18.9	0.400	YES	NA
5	1.467	14.2	3.3	4.33	27		18.1	0.640	YES	NA	1.493	14.3	0.9	16.38	33		18.9	0.390	YES	NA
6	1.280	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	1.393	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	1.504	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		18.2	0.620	YES	NA	1.488	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	1.680	14.2	3.1	4.62	31		18.2	0.620	YES	NA	1.406	14.5	1.0	14.50	27		18.9	0.400	YES	NA
13	1.388	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	1.428	14.3	3.3	4.28	36		17.2	0.530	YES	NA	1.607	14.6	1.1	13.50	39		18.2	0.370	YES	NA
15	0.133	14.2	3.4	4.14	35		18.5	0.590	YES	NA	1.233	14.3	1.0	14.80	31		18.9	0.400	YES	NA
16	1.234	14.2	3.3	4.36	29		18.4	0.590	YES	NA	1.288	14.3	1.0	14.28	26		19.0	0.390	YES	NA
17	1.296	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	1.298	14.7	3.5	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	56		19.0	0.390	YES	NA
21	1.223	14.2	3.3	4.25	58		18.4	0.580	YES	NA	1.335	14.3	0.9	15.54	45		19.0	0.400	YES	NA
22	1.384	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	15.53	27		19.0	0.400	YES	NA
24	1.380	14.2	3.3	4.28	48		18.3	0.590	YES	NA	1.263	14.3	0.9	15.44	31		19.0	0.390	YES	NA
25	0.415	14.2	3.4	4.17	47	yes	18.4	0.580	YES	NA	1.653	15.4	1.2	13.31	40		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	86		19.1	0.390	YES	NA
27	1.348	14.2	2.9	4.97	54		17.8	0.800	YES	NA	1.348	14.6	1.0	14.46	79		19.1	0.390	YES	NA
28	1.282	14.2	3.0	4.73	54		17.9	0.710	YES	NA	1.276	14.3	0.9	15.59	29		19.0	0.400	YES	NA
29	1.376	14.3	3.2	4.47	29		17.9	0.710	YES	NA	1.340	14.6	1.1	13.27	24		18.9	0.390	YES	NA
30	1.467	14.3	3.5	4.09	50		18.0	0.660	YES	NA	1.650	15.7	1.1	14.27	36		18.9	0.390	YES	NA
31	1.370	14.4	3.2	4.60	44		18.1	0.650	YES	NA	1.280	14.7	1.0	14.70	25		19.0	0.400	YES	NA

SUMMARY	Unit No. 3			Unit No. 4		
	DIT			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	Number of days with a treatment technique violation			0		
	General Remarks			Additional Comments		

SUBMITTED BY:

Certificate No. and Grade: WQ0023530, A Surface

Date: November 20, 2014

TCEQ - 20368-MOD (07-01-13)

Membrane, PBT - Addendum

MWR

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.: 21547

Month: August

Year: 2014

TEST PARAMETERS & ADDITIONAL DATA																		
DIT CONDITIONS & ADDITIONAL DATA	Unit No. 5									Unit No. 6								
	DIT Cond'n's	Plant psi	LRC -	UCL gal/min		Prev. Month	DIT test date	Pass? Yes/No	C/A Success?	DIT Cond'n's	Plant psi	LRC -	UCL gal/min		Prev. Month	DIT test date	Pass? Yes/No	C/A Success?
		16.5	2.5	1.650			5/16/14	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. Filtr. Flux gfd	TMP, psi	Norm. Sps. Flux gfd/psi	Daily Max. mNTU	CIP done?	P _{total} , psi	AP _{max} /Δt, psi/min	DIT pass?	C/A success?	Daily Pump, MG	Norm. Filtr. Flux gfd	TMP, psi	Norm. Sps. Flux gfd/psi	Daily Max. mNTU	CIP done?	P _{total} , psi	AP _{max} /Δt, psi/min	DIT pass?	C/A success?	
1	1,284	14.4	1.8	7.80	24		18.0	0.880	YES	NA											
2	1,404	14.2	1.8	8.08	24		18.0	0.880	YES	NA											
3	1,542	14.7	1.8	7.97	27		18.0	0.870	YES	NA											
4	1,617	14.7	1.8	7.78	22		18.0	0.880	YES	NA											
5	1,344	14.2	1.7	8.49	26		18.9	0.990	YES	NA											
6	1,245	14.3	1.8	7.99	22		19.1	0.870	YES	NA											
7	1,298	14.2	1.8	8.88	23		19.1	0.880	YES	NA											
8	1,304	14.4	1.8	8.14	20		19.1	0.880	YES	NA											
9	1,302	14.4	1.7	8.49	23		18.1	0.870	YES	NA											
10	1,177	14.7	1.8	7.98	27		18.0	0.880	YES	NA											
11	1,321	14.2	1.8	8.03	20		18.9	0.880	YES	NA											
12	1,288	14.3	1.7	8.41	27		18.0	0.870	YES	NA											
13	1,218	14.2	1.8	8.88	33		19.0	0.880	YES	NA											
14	0,548	14.2	1.1	12.67	39		17.2	0.890	YES	NA											
15	1,333	14.2	1.3	10.78	31		17.8	0.770	YES	NA											
16	1,184	14.2	1.4	10.28	21		18.2	0.860	YES	NA											
17	1,329	14.3	1.4	10.97	22		18.2	0.820	YES	NA											
18	1,247	14.7	1.5	10.15	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	14.8	1.5	8.73	22		18.7	0.520	YES	NA											
21	1,329	14.2	1.4	10.15	22		18.7	0.520	YES	NA											
22	1,258	14.4	1.4	10.19	17		18.8	0.490	YES	NA											
23	1,306	14.2	1.4	10.13	18		18.7	0.490	YES	NA											
24	1,280	14.2	1.4	10.53	19		18.8	0.460	YES	NA											
25	1,783	15.1	1.7	8.78	20		18.8	0.480	YES	NA											
26	1,408	14.8	1.5	8.83	28		18.8	0.460	YES	NA											
27	1,217	14.3	1.5	9.45	17		18.0	0.450	YES	NA											
28	1,372	14.2	1.4	10.14	17		18.9	0.480	YES	NA											
29	1,271	14.4	1.6	9.00	18		18.9	0.420	YES	NA											
30	1,815	15.4	1.7	9.08	16		18.9	0.420	YES	NA											
31	1,314	14.5	1.5	8.87	10		18.0	0.410	YES	NA											
SUMMARY	Unit No. 5										Unit No. 5					Unit No. 6					
	DIT	Number of days with DIT triggered by high turbidity or particle count										0									
		Number of dates with monitoring violation										0									
	DIT	Number of dates with failure to pass DIT										0									
		Number of dates with treatment technique violation										0									
Comments	General Remarks										Additional Comments					Additional Comments					

SUBMITTED BY:

Certificate No.
and Grade:

W00023530, A Surface

Date:

November 20, 2014

TCEQ - 20036-MOD (07-01-13)

Membranes, PBT - Addendum

MMOR

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)

LITRES WATER SUMMARY PAGE

August	2014
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PCIC - 004020-MGD (Rev. 01-01-14)

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)

LT2ESVTR Summary Page (cont)

August Year: 2014

SENIOR-AR: Customized