

MAR-26 '12 15:44

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

Corrected
PWS/2430001/MRPUBLIC WATER
SYSTEM NAME: City of Wichita FallsPLANT NAME
OR NUMBER: Cypress 1961I 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.: 2430001
Report for
the Month of: August 2011Operator's Signature: *[Signature]*
Certificate No. & Grade: WO0023530, AW

Date: September 10, 2011 March 22, 2012

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	186	Number of 4-hour periods when plant was off-line:	0
Number of readings above 0.10 NTU:	10	Number of 4-hour periods when plant was on-line but turbidity data was not collected:	0
Number of readings above 0.3 NTU:	0	Number of days when plant was on-line but individual filter turbidity data was not collected:	0
Number of readings above 0.5 NTU:	0	Number of days with readings above 1.0 NTU:	0 (2)
Number of readings above 1.0 NTU:	0	Number of days with readings above 5.0 NTU:	0 (3)
Maximum allowable turbidity level:	0.3		
Percentage of readings above this limit:	0.0 % (1)		
Statistical Summary	Maximum turbidity reading: 0.12 NTU Minimum turbidity reading: 0.06 NTU CFE 95 th percentile value: 0.11 NTU	Average turbidity value: 0.09 NTU Standard deviation: 0.012 NTU IFE 95 th percentile: 0.171 NTU	
Number of days with a low CT for no more than 4.0 consecutive hours:	0	Average log inactivation for Giardia:	6.64
Number of days with a low CT for more than 4.0 consecutive hours:	0 (4)	Average log inactivation for viruses:	20.38
Minimum disinfectant residual required leaving the plant:	0.5 mg/L, measured as Total Chlorine	Number of days when profiling data was not collected:	0
Number of days with a low residual for no more than 4.0 consecutive hours:	0	Number of days when CT data was not collected:	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:	113 (at least 100 required) (8)
Average disinfectant residual value:	3.56
Number of readings with a low residual:	0
Number of readings with no detectable residual:	0
Percentage of readings with a low residual this month:	0.0 % (6A)
Percentage of readings with a low residual last month:	0.0 % (6B)

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.

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

Corrected

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 1961

PWS ID No.: 2430001

Connections: 34,618

Month: August Year: 2011

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.						Turbidity						Lowest Residual	Time
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6		
1	6.000	21.923	19	142							0.10	0.09	0.08	0.09	0.08	0.10	2.6	
2	6.000	20.638	19	143							0.09	0.10	0.11	0.09	0.09	0.08	2.4	
3	6.000	21.165	22	144							0.08	0.08	0.09	0.09	0.07	0.09	2.5	
4	6.000	20.636	20	146							0.10	0.09	0.10	0.09	0.08	0.08	2.6	
5	6.000	20.960	17	138							0.11	0.09	0.07	0.08	0.09	0.08	3.0	
6	4.333	21.020	11	123							0.09	0.10	0.08	0.10	0.08	0.08	2.5	
7	4.000	21.212	10	123							0.10	0.11	0.08	0.10	0.10	0.09	2.7	
8	4.000	20.232	16	143							0.09	0.09	0.08	0.08	0.07	0.06	1.8	
9	4.000	20.232	11	142							0.09	0.09	0.08	0.08	0.07	0.06	1.8	
10	5.000	20.079	20	140							0.08	0.08	0.09	0.08	0.07	0.08	1.9	
11	6.000	21.167	20	139							0.09	0.08	0.09	0.08	0.09	0.08	3.0	
12	6.000	21.171	23	142							0.11	0.09	0.10	0.09	0.10	0.07	2.8	
13	6.000	21.487	13	116							0.10	0.09	0.09	0.10	0.08	0.08	3.0	
14	6.000	18.759	15	122							0.09	0.09	0.10	0.10	0.08	0.09	3.1	
15	6.000	17.302	19	148							0.09	0.09	0.10	0.09	0.10	0.07	2.8	
16	6.000	19.108	25	147							0.09	0.08	0.12	0.09	0.09	0.10	2.1	
17	7.083	19.618	23	146							0.09	0.11	0.11	0.09	0.10	0.11	2.7	
18	6.000	20.197	10	148							0.09	0.09	0.09	0.08	0.10	0.09	2.4	
19	6.000	18.860	26	154							0.10	0.10	0.09	0.08	0.10	0.09	3.1	
20	7.500	19.743	21	134							0.11	0.10	0.09	0.08	0.11	0.08	3.2	
21	7.333	21.759	20	128							0.07	0.07	0.07	0.08	0.08	0.07	2.3	
22	6.000	20.115	25	153							0.08	0.07	0.07	0.07	0.08	0.07	1.9	
23	8.000	20.412	25	152							0.07	0.08	0.07	0.07	0.06	0.07	2.4	
24	8.000	20.814	22	155							0.08	0.07	0.08	0.07	0.07	0.07	2.9	
25	8.000	21.110	25	152							0.09	0.06	0.08	0.08	0.06	0.06	2.7	
26	8.000	19.366	25	157							0.09	0.08	0.08	0.06	0.07	0.07	2.3	
27	8.000	19.578	17	150							0.10	0.08	0.09	0.09	0.08	0.07	3.1	
28	8.000	20.195	16	156							0.08	0.08	0.07	0.09	0.09	0.08	2.7	
29	8.000	20.285	28	155							0.10	0.09	0.09	0.09	0.10	0.09	2.1	
30	8.000	18.310	27	156							0.07	0.08	0.08	0.09	0.06	0.07	2.7	
31	8.000	19.475	24	153							0.07	0.08	0.08	0.07	0.08	0.09	2.8	
Total	199.249	626.928			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.													
Avg	6.427	20.223																
Max	8.000	21.923																
Min	4.000	17.302																

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, AW

Date: ~~September 40, 2044~~ March 22, 2012



March 22, 2012

Texas Commission on Environmental Quality
Water Supply Division/Public Drinking Water Section (MC-155)
P.O. Box 13087
Austin, TX 78711-3087

RE: Corrected SWMORs

Dear Sir or Madam,

I am writing to notify the TCEQ of corrected SWMORs for the City of Wichita Falls, PWS 2430001. The corrections include the Jasper 1951 Plant and Jasper 2005 Plant, April 2011 SWMOR turbidity records and the Cypress 1961 Plant, Cypress 1987 Plant and Cypress (Microfiltration/R.O.) Plant, August 2011 SWMOR turbidity records.

Please see the enclosed pages for corrected forms.

Should you have any questions, please feel free to contact me.

Sincerely,

Mark Southard
Water Source/Purification Superintendent
City of Wichita Falls, TX
Mark.southard@wichitafallstx.gov
Ph 940-691-1153
Fax 940-691-4121

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 1961

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.: 2430001

Operator's Signature: [Signature]

Report for

the Month of: August 2011

Certificate No. & Grade: WO0023530, AW

Date: September 10, 2011

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	186	Number of 4-hour periods when plant was off-line:	0
Number of readings above 0.10 NTU:	11	Number of 4-hour periods when plant was on-line but turbidity data was not collected:	0
Number of readings above 0.3 NTU:	1	Number of days when plant was on-line but individual filter turbidity data was not collected:	0
Number of readings above 0.5 NTU:	1	Number of days with readings above 1.0 NTU:	0 (2)
Number of readings above 1.0 NTU:	0	Number of days with readings above 5.0 NTU:	0 (3)
Maximum allowable turbidity level:	0.3		
Percentage of readings above this limit:	0.5 % (1)		

Statistical Summary	Maximum turbidity reading:	0.90 NTU	Average turbidity value:	0.09 NTU
	Minimum turbidity reading:	0.06 NTU	Standard deviation:	0.061 NTU
	CFE 95 th percentile value:	0.11 NTU	IFE 95 th percentile:	0.171 NTU

Number of days with a low CT for no more than 4.0 consecutive hours:	0	Average log inactivation for Giardia:	6.64
Number of days with a low CT for more than 4.0 consecutive hours:	0 (4)	Average log inactivation for viruses:	20.38
		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:	113	(at least 100 required) (8)	
Average disinfectant residual value:	3.56	Percentage of readings with a low residual this month:	0.0 % (6A)
Number of readings with a low residual:	0	Percentage of readings with a low residual last month:	0.0 % (6B)
Number of readings with no detectable residual:	0		

ADDITIONAL REPORTS & WORKSHEETS

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Additional report(s) for individual filter monitoring required: ☒ NONE ☐ Filter Profile ☐ Filter Assessment ☐ CPE

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No additional IFE Reports are required this month.

SURFACE WATER MONTHLY OPERATING REPORT
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

SURFACE WATER MONTHLY OPERATING REPORT

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

Turbidity Data Page

PUBLIC WATER SYSTEM NAME: City of Wichita Falls PLANT NAME OR NUMBER: Cypress 1961

PWS ID No.: 2430001 Connections: 34,618

Month: August Year: 2011 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.						Turbidity						Lowest	Time
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6	Residual	
1	6.000	21.923	19	142							0.10	0.09	0.08	0.09	0.08	0.10	2.6	
2	6.000	20.638	19	143							0.09	0.10	0.11	0.09	0.09	0.08	2.4	
3	6.000	21.165	22	144							0.08	0.08	0.09	0.09	0.07	0.09	2.5	
4	6.000	20.636	20	146							0.10	0.09	0.10	0.09	0.08	0.08	2.6	
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Max	8.000	21.923																
Min	4.000	17.302																

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, AW Date: September 10, 2011

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 1961

PWS ID No.: 2430001

Month: August Year: 2011

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	0.09	x	0.09	x	0.33	0.10	0.40	0.11	0.07	x	0.08	x	x	x	x	x				
2	x	x	x	x	0.11	x	0.12	x	0.06	x	0.07	x	0.09	0.08	0.13	0.11				
3	x	x	x	x	0.09	x	0.08	x	x	x	x	x	0.07	x	0.10	x				
4	0.16	0.08	0.18	0.09	0.16	x	0.17	x	x	x	x	x	0.10	x	0.13	x				
5	0.11	x	0.11	x	x	x	x	x	0.05	0.05	0.06	0.05	0.05	x	0.08	x				
6	0.05	x	0.05	x	x	x	x	x	0.07	x	0.07	x	x	x	x	x				
7	x	x	x	x	x	x	x	x	0.09	x	0.09	x	x	x	x	x				
8	x	x	x	x	x	x	x	x	0.06	x	0.06	x	0.18	0.05	0.04	0.04				
9	x	x	x	x	0.05	0.04	0.07	0.05	x	x	x	x	0.10	x	0.09	x				
10	x	x	x	x	0.09	x	0.10	x	x	x	x	x	0.07	x	0.05	x				
11	0.14	0.13	0.13	0.13	0.07	x	0.08	x	x	x	x	x	0.06	x	0.06	x				
12	0.13	x	0.13	x	x	x	x	x	0.14	0.08	0.14	0.08	0.05	x	0.04	x				
13	0.12	x	0.12	x	x	x	x	x	0.13	x	0.13	x	x	x	x	x				
14	0.06	x	0.06	x	x	x	x	x	0.08	x	0.07	x	x	x	x	x				
15	0.07	x	0.07	x	0.49	0.17	0.31	0.18	0.09	x	0.09	x	0.10	0.08	0.09	0.06				
16	x	x	x	x	0.14	x	0.14	x	x	x	x	x	0.11	x	0.09	x				
17	x	x	x	x	0.08	x	0.09	x	x	x	x	x	0.08	x	0.07	x				
18	0.07	0.07	0.07	0.06	0.07	x	0.08	x	0.12	0.09	0.12	0.09	0.06	x	0.05	x				
19	0.10	x	0.09	x	x	x	x	x	0.11	x	0.11	x	x	x	x	x				
20	0.04	x	0.03	x	x	x	x	x	0.07	x	0.06	x	x	x	x	x				
21	0.04	x	0.04	x	0.18	0.04	0.22	0.06	0.04	x	0.05	x	x	x	x	x				
22	x	x	x	x	0.06	x	0.07	x	0.04	x	0.04	x	0.06	0.06	0.06	0.05				
23	x	x	x	x	0.04	x	0.05	x	x	x	x	x	0.06	x	0.04	x				
24	x	x	x	x	0.04	x	0.04	x	x	x	x	x	0.05	x	0.04	x				
25	0.06	0.05	0.10	0.05	0.03	x	0.04	x	0.06	0.05	0.05	0.05	0.04	x	0.04	x				
26	0.05	x	0.05	x	x	x	x	x	0.16	x	0.06	x	x	x	x	x				
27	0.05	x	0.04	x	x	x	x	x	0.05	x	0.05	x	x	x	x	x				
28	0.04	x	0.04	x	0.04	0.04	0.06	0.06	0.05	x	0.05	x	0.09	0.07	0.10	0.06				
29	x	x	x	x	0.10	x	0.08	x	x	x	x	x	0.08	x	0.07	x				
30	0.08	0.06	0.11	0.05	0.09	x	0.06	x	x	x	x	x	0.07	x	0.06	x				
31	0.07	x	0.07	x	x	x	x	x	x	x	x	x	0.05	x	0.04	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	0	0	0	0	0	
	Number of days with event(s) above 1.0 NTU this month	0	0	0	0	0	0	0	0	0	0	
	Number of days with event(s) above 1.0 NTU last month	0	0	0	0	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	0	0	0	0	
	Total number of days with event(s) above 1.0 NTU in three months	0	0	0	0	0	0	0	0	0	0	
	Number of days with event(s) above 2.0 NTU this month											0
	Number of days with event(s) above 2.0 NTU last month											0
	Does the filter/plant have an approved Corrective Action Plan?	N	N	N	N	N	N	N	N	N	N	N
	Is the plant required to submit a Filter Profile Report?	N	N	N	N	N	N	N	N	N	N	
	Is the plant required to submit a Filter Assessment Report?	N	N	N	N	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, AW

Date: September 10, 2011

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 1961

PWS ID No.:

2430001

Month:

August

Year:

2011

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)	32.000	32.000	32.000	15.900	15.900	0.5		2.0	
T ₁₀ (minutes)	1.3	1.6	14.2	118.0	27.0				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	NA D1								
	NA D2								
	NA D3					10.25	33.31	16.65	
	CLA D4	8.1	6.000	29.5	9.4			(V)	
	CLA D5	2.6	14.000	29.4	9.4				
2	NA D1								
	NA D2								
	NA D3					9.99	30.97	15.49	
	CLA D4	8.0	6.000	28.8	9.4			(V)	
	CLA D5	1.5	14.000	29.4	9.2				
3	NA D1								
	NA D2								
	NA D3					9.62	29.00	14.50	
	CLA D4	7.7	6.000	28.4	9.4			(V)	
	CLA D5	1.5	14.000	28.6	9.2				
4	NA D1								
	NA D2								
	NA D3					10.38	31.33	15.67	
	CLA D4	8.1	6.000	28.4	9.4			(V)	
	CLA D5	3.7	14.000	29.1	9.0				
5	NA D1								
	NA D2								
	NA D3					9.12	25.67	12.83	
	CLA D4	7.2	6.000	27.4	9.3			(V)	
	CLA D5	2.4	14.000	28.0	8.8				
6	NA D1								
	NA D2								
	NA D3					8.45	25.29	12.65	
	CLA D4	8.7	8.000	28.3	9.4			(V)	
	CLA D5	3.7	14.000	28.5	9.0				
7	NA D1								
	NA D2								
	NA D3					10.56	33.42	16.71	
	CLA D4	11.0	8.000	29.1	9.4			(V)	
	CLA D5	3.7	14.000	29.3	8.8				
8	NA D1								
	NA D2								
	NA D3					11.04	34.21	17.11	
	CLA D4	11.6	8.000	28.8	9.4			(V)	
	CLA D5	3.1	14.000	28.9	8.8				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	NA D1								
	NA D2								
	NA D3					7.19	29.72	14.39	
	CLA D4	11.3	12.000	33.0	9.4			(S)	
	CLA D5	2.2	14.000	31.7	9.2				
10	NA D1								
	NA D2								
	NA D3					5.89	16.57	8.28	
	CLA D4	9.3	12.000	27.4	9.4			(V)	
	CLA D5	1.6	14.000	27.3	9.0				
11	NA D1								
	NA D2								
	NA D3					4.84	13.99	7.00	
	CLA D4	7.6	12.000	27.8	9.0			(V)	
	CLA D5	1.5	14.000	27.9	9.0				
12	NA D1								
	NA D2								
	NA D3					5.71	15.10	7.55	
	CLA D4	8.9	12.000	26.5	9.0			(V)	
	CLA D5	2.1	14.000	26.9	8.8				
13	NA D1								
	NA D2								
	NA D3					5.76	17.24	8.62	
	CLA D4	9.0	12.000	28.3	9.2			(V)	
	CLA D5	2.0	14.000	28.4	8.6				
14	NA D1								
	NA D2								
	NA D3					4.37	11.18	5.59	
	CLA D4	6.7	12.000	26.0	9.1			(V)	
	CLA D5	1.9	12.000	26.5	8.7				
15	NA D1								
	NA D2								
	NA D3					4.21	14.38	7.19	
	CLA D4	6.4	12.000	30.2	9.1			(V)	
	CLA D5	2.4	14.000	30.2	8.7				
16	NA D1								
	NA D2								
	NA D3					3.66	11.12	5.56	
	CLA D4	7.4	16.000	28.5	9.1			(V)	
	CLA D5	2.4	16.000	29.0	8.6				

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

SUBMITTED BY:

Michael S. Zell

Certificate No.
and Grade:

WO0023530, AW

Date:

September 10, 2011

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 1961

PWS ID No.:

2430001

Month:

August

Year: 2011

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)	32.000	32.000	32.000	15.900	15.900	0.5	2.0
T ₁₀ (minutes)	1.3	1.6	14.2	118.0	27.0		

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
17	NA D1								
	NA D2								
	NA D3					4.32	12.69	6.35	
	CLA D4	6.4	12.000	28.0	8.9			(V)	
	CLA D5	2.8	12.000	28.5	9.0				
18	NA D1								
	NA D2								
	NA D3					5.24	14.87	7.44	
	CLA D4	8.0	12.000	27.5	9.4			(V)	
	CLA D5	2.8	14.000	28.0	8.7				
19	NA D1								
	NA D2								
	NA D3					5.22	14.30	7.15	
	CLA D4	7.9	12.000	27.0	9.3			(V)	
	CLA D5	3.1	14.000	27.5	8.8				
20	NA D1								
	NA D2								
	NA D3					5.76	17.99	9.00	
	CLA D4	6.0	8.000	28.9	9.4			(V)	
	CLA D5	2.3	16.000	29.4	9.1				
21	NA D1								
	NA D2								
	NA D3					7.30	22.48	11.24	
	CLA D4	5.8	6.000	28.7	9.4			(V)	
	CLA D5	1.8	16.000	29.1	8.9				
22	NA D1								
	NA D2								
	NA D3					6.77	20.56	10.28	
	CLA D4	7.1	8.000	28.5	9.3			(V)	
	CLA D5	2.6	18.000	28.7	9.2				
23	NA D1								
	NA D2								
	NA D3					6.57	21.75	10.87	
	CLA D4	6.8	8.000	29.8	9.4			(V)	
	CLA D5	3.0	16.000	28.9	9.0				
24	NA D1								
	NA D2								
	NA D3					6.06	18.91	9.46	
	CLA D4	6.3	8.000	28.9	9.4			(V)	
	CLA D5	2.5	16.000	29.2	8.9				

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
25	NA D1								
	NA D2								
	NA D3					6.18	17.18	8.59	
	CLA D4	6.4	8.000	27.2	9.4			(V)	
	CLA D5	2.8	16.000	27.9	9.1				
26	NA D1								
	NA D2								
	NA D3					6.46	17.44	8.72	
	CLA D4	6.7	8.000	26.8	9.1			(V)	
	CLA D5	2.8	16.000	27.3	9.0				
27	NA D1								
	NA D2								
	NA D3					6.19	20.00	10.00	
	CLA D4	6.4	8.000	29.4	8.9			(V)	
	CLA D5	2.9	16.000	29.5	8.9				
28	NA D1								
	NA D2								
	NA D3					5.68	19.95	9.97	
	CLA D4	5.9	8.000	30.6	9.2			(V)	
	CLA D5	2.4	16.000	30.9	9.0				
29	NA D1								
	NA D2								
	NA D3					2.98	10.79	5.40	
	CLA D4	3.3	12.000	31.0	9.0			(V)	
	CLA D5	3.4	6.000	31.2	9.0				
30	NA D1								
	NA D2								
	NA D3					5.19	16.33	8.16	
	CLA D4	5.3	8.000	29.0	9.1			(V)	
	CLA D5	2.6	14.000	29.5	9.0				
31	NA D1								
	NA D2								
	NA D3					5.04	14.03	7.01	
	CLA D4	5.1	8.000	27.2	9.4			(V)	
	CLA D5	2.9	14.000	28.0	9.0				

Max 11.04 34.21
Min 2.98 10.79
Avg 6.64 20.38
SD 2.18 7.14

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:

WO0023530, AW

Date: September 10, 2011

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 1961

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.: 2430001

Operator's Signature: _____

Report for

the Month of: September 2011

Certificate No. & Grade: WO0023530, AW

Date: October 10, 2011

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	180	Number of 4-hour periods when plant was off-line:	0
Number of readings above 0.10 NTU:	74	Number of 4-hour periods when plant was on-line	
Number of readings above 0.3 NTU:	0	but turbidity data was not collected:	0
Number of readings above 0.5 NTU:	0	Number of days when plant was on-line	
Number of readings above 1.0 NTU:	0	but individual filter turbidity data was not collected:	0
Maximum allowable turbidity level:	0.3	Number of days with readings above 1.0 NTU:	0 (2)
Percentage of readings above this limit:	0.0 % (1)	Number of days with readings above 5.0 NTU:	0 (3)

Statistical Summary	Maximum turbidity reading:	0.16 NTU	Average turbidity value:	0.10 NTU
	Minimum turbidity reading:	0.06 NTU	Standard deviation:	0.019 NTU
	CFE 95 th percentile value:	0.13 NTU	IFE 95 th percentile:	0.294 NTU

Number of days with a low CT for no more than 4.0 consecutive hours:	0	Average log inactivation for Giardia:	3.73
Number of days with a low CT for more than 4.0 consecutive hours:	0 (4)	Average log inactivation for viruses:	9.34
		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:	115	(at least 100 required) (8)	
Average disinfectant residual value:	3.61	Percentage of readings with a low residual this month:	0.0 % (6A)
Number of readings with a low residual:	0		
Number of readings with no detectable residual:	0	Percentage of readings with a low residual last month:	0.0 % (6B)

ADDITIONAL REPORTS & WORKSHEETS

The Page 1 Addendum (Public Notices) is 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.

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

RECEIVED

OCT 11 2011

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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 1961

PWS ID No.:

2430001

Connections:

34,691

Month:

September

Year: 2011

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.						Turbidity						Lowest Residual	Time
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6		
1	8.000	17.688	25	157							0.08	0.08	0.11	0.08	0.09	0.08	2.8	
2	8.000	19.846	23	157							0.10	0.10	0.10	0.11	0.12	0.09	3.1	
3	8.000	19.953	18	157							0.10	0.10	0.09	0.09	0.11	0.11	2.9	
4	7.250	16.924	16	138							0.09	0.09	0.08	0.08	0.09	0.08	2.4	
5	6.000	17.056	19	134							0.08	0.08	0.09	0.10	0.07	0.08	2.4	
6	8.000	17.106	14	162							0.07	0.08	0.08	0.06	0.06	0.07	2.5	
7	8.000	16.499	9	158							0.07	0.08	0.08	0.06	0.09	0.07	2.6	
8	8.167	16.298	28	160							0.09	0.08	0.09	0.07	0.08	0.09	2.5	
9	11.833	18.985	22	163							0.11	0.10	0.12	0.12	0.11	0.08	2.7	
10	10.000	18.595	25	147							0.08	0.09	0.09	0.08	0.08	0.09	2.9	
11	10.000	18.745	24	137							0.09	0.10	0.09	0.09	0.08	0.09	2.3	
12	10.000	18.362	23	167							0.10	0.10	0.11	0.10	0.09	0.10	2.3	
13	12.000	17.401	28	167							0.10	0.11	0.11	0.08	0.09	0.07	2.8	
14	11.000	14.300	26	164							0.11	0.11	0.09	0.09	0.09	0.08	3.1	
15	10.833	13.661	22	161							0.09	0.10	0.11	0.10	0.09	0.09	3.9	
16	12.000	13.525	24	163							0.12	0.13	0.13	0.11	0.12	0.15	4.1	
17	10.417	12.198	22	145							0.16	0.16	0.13	0.09	0.14	0.12	3.1	
18	8.000	11.456	24	165							0.11	0.12	0.13	0.13	0.11	0.10	2.6	
19	10.417	16.988	31	167							0.10	0.12	0.11	0.10	0.11	0.11	3.0	
20	10.000	12.675	26	166							0.12	0.14	0.10	0.11	0.10	0.09	2.7	
21	10.083	12.911	21	166							0.10	0.09	0.08	0.09	0.09	0.09	3.0	
22	9.500	10.782	14	166							0.11	0.10	0.12	0.13	0.11	0.13	3.0	
23	8.000	10.419	28	165							0.12	0.12	0.14	0.13	0.12	0.10	3.1	
24	8.000	10.745	17	165							0.11	0.11	0.10	0.09	0.08	0.08	3.2	
25	9.667	11.601	21	135							0.08	0.08	0.09	0.10	0.09	0.12	3.1	
26	10.000	12.647	27	169							0.11	0.11	0.12	0.11	0.11	0.10	3.0	
27	11.417	12.872	29	172							0.09	0.10	0.13	0.12	0.11	0.12	2.8	
28	12.000	14.585	29	170							0.10	0.12	0.11	0.11	0.12	0.11	3.1	
29	11.000	13.908	38	169							0.13	0.14	0.12	0.12	0.10	0.09	2.8	
30	10.333	13.334	28	165							0.10	0.12	0.12	0.11	0.11	0.11	3.1	
31																		
Total	287.917	452.065	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.															
Avg	9.597	15.069																
Max	12.000	19.953																
Min	6.000	10.419																

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, AW

Date: October 10, 2011

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 1961

PWS ID No.: 2430001

Month: September Year: 2011

PERFORMANCE DATA																				
Date	INDIVIDUAL FILTER TURBIDITY																			
	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	x	0.10	x	x	x	x	x	0.15	x	0.11	x	0.05	x	0.04	x				
2	0.10	x	0.11	x	x	x	x	x	0.10	x	0.10	x	x	x	x	x				
3	0.10	x	0.10	x	0.29	0.14	0.22	0.19	0.08	x	0.08	x	x	x	x	x				
4	x	x	x	x	0.06	x	0.07	x	0.05	x	0.05	x	0.09	0.07	0.09	0.06				
5	x	x	x	x	0.05	x	0.05	x	x	x	x	x	0.06	x	0.05	x				
6	x	x	x	x	0.04	x	0.04	x	0.10	0.07	0.10	0.06	0.05	x	0.04	x				
7	0.14	0.07	0.13	0.07	x	x	x	x	0.08	x	0.08	x	0.07	x	0.06	x				
8	0.09	x	0.08	x	x	x	x	x	0.07	x	0.06	x	x	x	x	x				
9	0.12	x	0.11	x	0.25	0.15	0.23	0.16	0.07	x	0.06	x	0.14	0.08	0.17	0.08				
10	0.06	x	0.06	x	0.08	x	0.07	x	0.20	0.10	0.17	0.10	0.08	x	0.08	x				
11	x	x	x	x	0.09	x	0.07	x	0.12	x	0.11	x	0.07	x	0.06	x				
12	0.29	0.22	0.26	0.19	0.10	x	0.07	x	0.09	x	0.08	x	0.08	x	0.06	x				
13	0.14	x	0.13	x	0.48	0.06	0.32	0.04	0.09	x	0.08	x	0.06	x	0.05	x				
14	0.10	x	0.08	x	0.15	x	0.14	x	0.08	x	0.08	x	0.26	0.09	0.30	0.08				
15	0.09	x	0.09	x	0.13	x	0.10	x	0.16	0.16	0.13	0.13	0.10	x	0.09	x				
16	0.25	0.23	0.20	0.20	0.16	x	0.12	x	0.17	x	0.15	x	0.13	x	0.11	x				
17	0.20	x	0.19	x	0.24	0.22	0.19	0.16	0.15	x	0.14	x	0.12	x	0.10	x				
18	0.12	x	0.12	x	x	x	x	x	0.11	x	0.10	x	0.12	0.05	0.10	0.10				
19	0.08	x	0.07	x	0.21	0.08	0.18	0.05	0.42	0.22	0.35	0.19	0.05	x	0.11	x				
20	x	x	x	x	0.14	x	0.12	x	0.24	x	0.21	x	0.05	x	0.09	x				
21	0.17	0.13	0.16	0.14	0.10	x	0.09	x	0.10	x	0.08	x	0.05	x	0.08	x				
22	0.15	x	0.13	x	0.09	x	0.08	x	0.11	x	0.09	x	0.26	0.11	0.26	0.11				
23	0.14	x	0.13	x	x	x	x	x	x	x	x	x	0.14	x	0.13	x				
24	0.08	x	0.07	x	x	x	x	x	x	x	x	x	0.08	x	0.07	x				
25	0.22	0.12	0.21	0.10	0.37	0.14	0.24	0.10	0.19	0.08	0.15	0.07	0.06	x	0.05	x				
26	0.12	x	0.11	x	0.17	x	0.11	x	0.11	x	0.10	x	x	x	x	x				
27	0.13	x	0.12	x	0.12	x	0.12	x	0.10	x	0.09	x	0.20	0.15	0.22	0.15				
28	0.12	x	0.10	x	0.43	0.19	0.39	0.19	0.40	0.11	0.37	0.11	0.18	x	0.19	x				
29	x	x	x	x	0.17	x	0.17	x	0.23	x	0.21	x	0.10	x	0.09	x				
30	x	x	x	x	0.16	x	0.16	x	0.18	x	0.18	x	0.16	x	0.14	x				
31																				

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	0	0	0	0	0	
Number of days with event(s) above 1.0 NTU this month	0	0	0	0	0	0	0	0	0	0	
Number of days with event(s) above 1.0 NTU last month	0	0	0	0	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	0	0	0	0	
Total number of days with event(s) above 1.0 NTU in three months	0	0	0	0	0	0	0	0	0	0	
Number of days with event(s) above 2.0 NTU this month											0
Number of days with event(s) above 2.0 NTU last month											0
Does the filter/plant have an approved Corrective Action Plan?	N	N	N	N	N	N	N	N	N	N	N
Is the plant required to submit a Filter Profile Report?	N	N	N	N	N	N	N	N	N	N	
Is the plant required to submit a Filter Assessment Report?	N	N	N	N	N	N	N	N	N	N	
Is the plant required to submit a Request for Compliance CPE?											

SUBMITTED BY:

Certificate No.
and Grade:

WO0023530, AW

Date: October 10, 2011

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
PWS ID No.: 2430001

PLANT NAME OR NUMBER: Cypress 1961
Month: September Year: 2011

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)	32.000	32.000	32.000	15.900	15.900	0.5		2.0	
T ₁₀ (minutes)	1.3	1.6	14.2	118.0	27.0				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	NA D1								
	NA D2								
	NA D3					5.35	13.78	6.89	
	CLA D4	5.4	8.000	26.1	9.3			(V)	
	CLA D5	3.2	14.000	26.6	8.9				
2	NA D1								
	NA D2								
	NA D3					5.80	15.35	7.68	
	CLA D4	5.6	8.000	26.5	9.4			(V)	
	CLA D5	3.1	8.000	26.7	9.1				
3	NA D1								
	NA D2								
	NA D3					5.85	17.25	8.62	
	CLA D4	5.9	8.000	28.1	9.4			(V)	
	CLA D5	3.5	14.000	28.0	9.0				
4	NA D1								
	NA D2								
	NA D3					6.27	16.95	8.48	
	CLA D4	6.4	8.000	26.8	9.3			(V)	
	CLA D5	3.2	14.000	27.4	9.0				
5	NA D1								
	NA D2								
	NA D3					6.63	15.98	7.99	
	CLA D4	5.2	8.000	24.6	9.4			(V)	
	CLA D5	3.4	12.000	26.0	8.9				
6	NA D1								
	NA D2								
	NA D3					5.14	12.56	6.28	
	CLA D4	6.2	8.000	23.0	8.6			(V)	
	CLA D5	2.7	14.000	24.5	8.5				
7	NA D1								
	NA D2								
	NA D3					4.26	10.43	5.21	
	CLA D4	5.2	8.000	22.7	9.4			(V)	
	CLA D5	2.9	14.000	23.0	9.1				
8	NA D1								
	NA D2								
	NA D3					3.93	9.59	4.79	
	CLA D4	4.7	8.000	23.2	9.4			(V)	
	CLA D5	1.9	14.000	23.9	9.0				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	NA D1								
	NA D2								
	NA D3					3.23	7.91	3.96	
	CLA D4	5.8	12.000	22.9	9.2			(V)	
	CLA D5	3.3	20.000	23.5	9.1				
10	NA D1								
	NA D2								
	NA D3					3.46	8.44	4.22	
	CLA D4	5.0	10.000	23.4	9.4			(V)	
	CLA D5	3.0	18.000	23.6	8.9				
11	NA D1								
	NA D2								
	NA D3					4.34	10.51	5.26	
	CLA D4	6.1	10.000	23.9	9.3			(V)	
	CLA D5	2.9	18.000	24.2	9.0				
12	NA D1								
	NA D2								
	NA D3					4.46	10.85	5.43	
	CLA D4	6.5	10.000	23.5	9.0			(V)	
	CLA D5	2.8	18.000	24.3	8.9				
13	NA D1								
	NA D2								
	NA D3					2.25	6.12	3.06	
	CLA D4	3.3	12.000	27.1	8.8			(V)	
	CLA D5	2.4	18.000	25.4	8.9				
14	NA D1								
	NA D2								
	NA D3					4.49	11.06	5.53	
	CLA D4	6.7	12.000	25.5	9.2			(V)	
	CLA D5	3.6	16.000	25.6	9.1				
15	NA D1								
	NA D2								
	NA D3					3.61	8.84	4.42	
	CLA D4	6.4	12.000	22.4	9.3			(V)	
	CLA D5	4.1	14.000	23.3	9.1				
16	NA D1								
	NA D2								
	NA D3					3.34	8.20	4.10	
	CLA D4	6.5	12.000	21.3	8.9			(V)	
	CLA D5	3.7	14.000	21.9	9.0				

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

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
PWS ID No.: 2430001

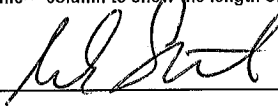
PLANT NAME OR NUMBER: Cypress 1961
Month: September Year: 2011

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)	32.000	32.000	32.000	15.900	15.900	0.5		2.0	
T ₁₀ (minutes)	1.3	1.6	14.2	118.0	27.0				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
17	NA D1								
	NA D2								
	NA D3					2.68	6.57	3.29	
	CLA D4	4.9	12.000	21.9	9.1			(V)	
	CLA D5	3.3	14.000	22.7	9.0				
18	NA D1								
	NA D2								
	NA D3					3.51	8.61	4.31	
	CLA D4	4.2	8.000	22.6	9.4			(V)	
	CLA D5	2.4	10.000	22.8	9.3				
19	NA D1								
	NA D2								
	NA D3					2.96	7.22	3.61	
	CLA D4	4.8	12.000	23.4	9.0			(V)	
	CLA D5	3.5	14.000	24.2	9.1				
20	NA D1								
	NA D2								
	NA D3					2.75	6.75	3.38	
	CLA D4	4.2	10.000	22.3	9.3			(V)	
	CLA D5	2.2	12.000	23.3	9.1				
21	NA D1								
	NA D2								
	NA D3					2.79	6.86	3.43	
	CLA D4	4.1	10.000	22.3	9.3			(V)	
	CLA D5	3.1	12.000	23.0	9.1				
22	NA D1								
	NA D2								
	NA D3					2.66	6.51	3.25	
	CLA D4	4.4	12.000	23.1	9.1			(V)	
	CLA D5	3.4	14.000	23.5	8.9				
23	NA D1								
	NA D2								
	NA D3					3.04	7.45	3.72	
	CLA D4	4.1	8.000	20.4	9.3			(V)	
	CLA D5	3.0	10.000	21.2	9.2				
24	NA D1								
	NA D2								
	NA D3					3.64	8.93	4.47	
	CLA D4	4.6	8.000	21.6	9.2			(V)	
	CLA D5	3.0	10.000	22.0	8.9				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
25	NA D1								
	NA D2								
	NA D3					3.26	7.99	4.00	
	CLA D4	4.9	10.000	22.1	8.6			(V)	
	CLA D5	3.4	12.000	22.8	8.8				
26	NA D1								
	NA D2								
	NA D3					2.59	6.36	3.18	
	CLA D4	4.1	10.000	20.5	8.0			(V)	
	CLA D5	3.6	10.000	21.1	8.8				
27	NA D1								
	NA D2								
	NA D3					2.42	5.92	2.96	
	CLA D4	4.1	12.000	22.6	8.4			(V)	
	CLA D5	3.4	14.000	23.1	8.7				
28	NA D1								
	NA D2								
	NA D3					2.36	5.78	2.89	
	CLA D4	4.1	12.000	22.6	9.2			(V)	
	CLA D5	2.9	14.000	22.9	9.0				
29	NA D1								
	NA D2								
	NA D3					2.43	5.93	2.96	
	CLA D4	4.0	12.000	23.4	9.3			(V)	
	CLA D5	2.7	14.000	23.6	9.1				
30	NA D1								
	NA D2								
	NA D3					2.30	5.61	2.81	
	CLA D4	3.8	12.000	23.2	9.4			(V)	
	CLA D5	2.7	14.000	23.9	9.3				
31	D1								
	D2								
	D3								
	D4								
	D5								
						Max	6.63	17.25	
						Min	2.25	5.61	
						Avg	3.73	9.34	
						SD	1.25	3.42	

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. WO0023530, AW Date: October 10, 2011

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 1961

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.: 2430001
Report for
the Month of: October 2011

Operator's Signature: [Signature]
Certificate No. & Grade: WO0023530, AW Date: November 10, 2011

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>25</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>0.15</u> NTU	Average turbidity value:	<u>0.09</u> NTU
	Minimum turbidity reading:	<u>0.06</u> NTU	Standard deviation:	<u>0.017</u> NTU
	CFE 95 th percentile value:	<u>0.12</u> NTU	IFE 95 th percentile:	<u>0.249</u> NTU

Number of days with a low CT for no more than 4.0 consecutive hours:	<u>0</u>	Average log inactivation for Giardia:	<u>2.54</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>6.19</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: 0.5 mg/L, measured as Total Chlorine

Total number of readings this month:	<u>116</u> (at least 100 required) (8)	Percentage of readings with a low residual this month:	<u>0.0</u> % (6A)
Average disinfectant residual value:	<u>3.48</u>	Percentage of readings with a low residual last month:	<u>0.0</u> % (6B)
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.

SURFACE WATER MONTHLY OPERATING REPORT
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

SURFACE WATER MONTHLY OPERATING REPORT

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

PUBLIC WATER
SYSTEM NAME:

City of Wichita Falls

PLANT NAME
OR NUMBER:

Cypress 1961

PWS ID No.:

2430001

Connections:

34,686

Month:

October

Year: 2011

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.						Turbidity						Lowest Residual	Time
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6		
1	12.167	13.793	23	156							0.14	0.15	0.13	0.14	0.14	0.12	2.8	
2	14.000	15.967	23	157							0.10	0.12	0.10	0.13	0.12	0.10	3.0	
3	12.917	15.233	24	173							0.10	0.11	0.12	0.10	0.10	0.10	2.9	
4	10.917	12.488	27	172							0.11	0.11	0.13	0.12	0.10	0.09	3.1	
5	10.000	12.585	22	171							0.11	0.10	0.14	0.12	0.10	0.10	3.0	
6	10.000	12.303	29	173							0.11	0.10	0.12	0.10	0.09	0.10	2.7	
7	9.083	11.069	22	172							0.12	0.10	0.09	0.08	0.07	0.07	2.9	
8	8.000	9.212	19	140							0.08	0.10	0.08	0.08	0.08	0.09	2.3	
9	8.000	10.954	24	131							0.09	0.09	0.08	0.08	0.08	0.07	2.8	
10	9.833	11.647	32	165							0.08	0.08	0.09	0.08	0.07	0.10	3.1	
11	8.000	10.143	31	168							0.08	0.08	0.09	0.07	0.07	0.07	2.9	
12	8.000	9.664	28	164							0.08	0.08	0.09	0.08	0.07	0.10	2.3	
13	6.667	9.714	26	166							0.13	0.12	0.10	0.08	0.09	0.09	2.9	
14	6.000	8.256	21	171							0.09	0.08	0.08	0.08	0.09	0.07	3.0	
15	6.083	8.701	24	128							0.08	0.09	0.09	0.07	0.09	0.08	2.8	
16	8.000	10.034	25	171							0.09	0.09	0.10	0.10	0.09	0.08	2.9	
17	9.583	10.270	30	173							0.09	0.09	0.10	0.08	0.07	0.07	3.0	
18	6.917	9.313	29	172							0.08	0.08	0.09	0.08	0.08	0.07	3.0	
19	6.083	9.283	29	174							0.10	0.08	0.08	0.08	0.09	0.08	3.2	
20	8.000	9.827	27	173							0.10	0.09	0.11	0.08	0.10	0.10	3.1	
21	8.000	10.163	22	170							0.09	0.08	0.07	0.08	0.07	0.07	3.3	
22	8.000	10.642	25	174							0.09	0.09	0.09	0.09	0.07	0.08	3.1	
23	8.000	9.827	21	172							0.08	0.10	0.10	0.10	0.09	0.09	3.1	
24	8.000	9.791	24	177							0.10	0.11	0.10	0.07	0.07	0.06	3.2	
25	8.000	9.791	33	172							0.07	0.08	0.07	0.06	0.07	0.07	3.4	
26	8.000	10.735	28	169							0.06	0.06	0.09	0.07	0.09	0.06	3.2	
27	7.083	9.096	27	173							0.08	0.10	0.08	0.08	0.08	0.07	3.5	
28	6.000	8.000	26	166							0.08	0.08	0.09	0.10	0.09	0.08	3.0	
29	6.083	8.445	31	169							0.08	0.10	0.08	0.08	0.08	0.10	2.9	
30	8.000	9.851	22	143							0.09	0.10	0.09	0.10	0.10	0.10	3.2	
31	8.000	10.093	16	168							0.09	0.08	0.09	0.07	0.06	0.08	3.7	
Total	261.416	326.890																
Avg	8.433	10.545																
Max	14.000	15.967																
Min	6.000	8.000																
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.																		

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, AW

Date: November 10, 2011

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 1961

PWS ID No.: 2430001

Month: October Year: 2011

PERFORMANCE DATA																				
Date	INDIVIDUAL FILTER TURBIDITY																			
	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	0.24	0.23	0.24	0.20	0.30	0.17	0.23	0.17	0.19	x	0.19	x	0.21	0.14	0.23	0.13				
2	0.11	x	0.10	x	0.23	x	0.22	x	0.25	0.14	0.24	0.13	0.16	x	0.15	x				
3	0.09	x	0.08	x	0.10	x	0.12	x	0.12	x	0.11	x	0.09	x	0.09	x				
4	0.22	0.20	0.29	0.23	0.11	x	0.12	x	0.12	x	0.12	x	0.10	x	0.10	x				
5	0.24	x	0.26	x	0.13	0.10	0.13	0.12	0.12	x	0.12	x	0.25	0.13	0.25	0.13				
6	0.07	x	0.08	x	0.09	x	0.10	x	x	x	x	x	0.08	x	0.07	x				
7	0.06	x	0.06	x	0.06	x	0.08	x	x	x	x	x	0.06	x	0.06	x				
8	0.09	0.07	0.09	0.08	0.14	x	0.16	x	0.20	0.14	0.21	0.21	0.06	x	0.05	x				
9	0.07	x	0.07	x	x	x	x	x	0.07	x	0.08	x	x	x	x	x				
10	0.07	x	0.06	x	x	x	x	x	0.07	x	0.06	x	0.08	0.08	0.07	0.07				
11	0.07	x	0.05	x	0.20	0.09	0.22	0.15	0.06	x	0.06	x	0.07	x	0.07	x				
12	0.20	0.10	0.18	0.08	0.10	x	0.14	x	x	x	x	x	0.09	x	0.06	x				
13	0.09	x	0.08	x	0.06	x	0.09	x	x	x	x	x	x	x	x	x				
14	0.07	x	0.06	x	0.05	x	0.07	x	x	x	x	x	x	x	x	x				
15	0.05	x	0.04	x	0.04	x	0.06	x	0.10	0.08	0.10	0.09	x	x	x	x				
16	0.04	x	0.03	x	0.10	0.07	0.14	0.11	0.07	x	0.07	x	x	x	x	x				
17	x	x	x	x	0.11	x	0.10	x	0.05	x	0.05	x	0.07	0.06	0.07	0.05				
18	x	x	x	x	0.11	x	0.10	x	x	x	x	x	0.06	x	0.06	x				
19	0.09	0.09	0.09	0.09	0.08	x	0.08	x	x	x	x	x	0.06	x	0.06	x				
20	0.08	x	0.08	x	x	x	x	x	0.23	0.12	0.21	0.10	0.06	x	0.06	x				
21	0.06	x	0.06	x	x	x	x	x	0.07	x	0.06	x	x	x	x	x				
22	0.07	x	0.07	x	0.36	0.20	0.26	0.17	0.08	x	0.07	x	x	x	x	x				
23	x	x	x	x	0.24	x	0.20	x	0.08	x	0.07	x	0.13	0.09	0.15	0.09				
24	x	x	x	x	0.12	x	0.11	x	x	x	x	x	0.09	x	0.10	x				
25	x	x	x	x	0.06	x	0.07	x	x	x	x	x	0.05	x	0.04	x				
26	0.12	0.04	0.17	0.04	0.06	x	0.06	x	x	x	x	x	0.05	x	0.04	x				
27	0.05	x	0.05	x	x	x	x	x	0.11	0.09	0.11	0.09	0.04	x	0.04	x				
28	0.06	x	0.06	x	x	x	x	x	0.10	x	0.10	x	x	x	x	x				
29	0.05	x	0.05	x	0.30	0.17	0.29	0.16	0.08	x	0.08	x	x	x	x	x				
30	x	x	x	x	0.13	x	0.13	x	0.07	x	0.07	x	0.07	0.07	0.08	0.08				
31	x	x	x	x	0.07	x	0.08	x	x	x	x	x	0.05	x	0.05	x				

SUMMARY & COMPLIANCE ACTIONS	Filter No.										Plant
	1	2	3	4	5	6	7	8	9	10	
Criteria											
Number of days with event(s) above 0.5 NTU at 4.0 hrs this month	0	0	0	0	0	0	0	0	0		
Number of days with event(s) above 1.0 NTU this month	0	0	0	0	0	0	0	0	0		
Number of days with event(s) above 1.0 NTU last month	0	0	0	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	0	0	0		
Total number of days with event(s) above 1.0 NTU in three months	0	0	0	0	0	0	0	0	0		
Number of days with event(s) above 2.0 NTU this month											0
Number of days with event(s) above 2.0 NTU last month											0
Does the filter/plant have an approved Corrective Action Plan?	N	N	N	N	N	N	N	N	N		N
Is the plant required to submit a Filter Profile Report?	N	N	N	N	N	N	N	N	N		
Is the plant required to submit a Filter Assessment Report?	N	N	N	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, AW

Date: November 10, 2011

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 1961

PWS ID No.:

2430001

Month:

October

Year: 2011

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)	32.000	32.000	32.000	15.900	15.900		
T ₁₀ (minutes)	1.3	1.6	14.2	118.0	27.0	0.5	2.0

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	NA D1								
	NA D2								
	NA D3					2.17	5.33	2.67	
	CLA D4	4.2	12.000	21.1	9.4			(M)	
	CLA D5	2.9	14.000	21.6	9.1				
2	NA D1								
	NA D2								
	NA D3					2.19	5.37	2.69	
	CLA D4	4.6	14.000	22.1	9.2			(M)	
	CLA D5	3.2	16.000	22.3	9.1				
3	NA D1								
	NA D2								
	NA D3					1.89	4.64	2.32	
	CLA D4	4.0	14.000	21.8	9.3			(M)	
	CLA D5	3.1	16.000	22.1	9.3				
4	NA D1								
	NA D2								
	NA D3					1.92	4.70	2.35	
	CLA D4	3.1	12.000	22.3	9.2			(M)	
	CLA D5	3.9	14.000	22.7	8.9				
5	NA D1								
	NA D2								
	NA D3					2.57	6.31	3.16	
	CLA D4	3.9	10.000	21.6	9.1			(M)	
	CLA D5	3.4	12.000	21.9	9.1				
6	NA D1								
	NA D2								
	NA D3					2.64	6.49	3.25	
	CLA D4	4.1	10.000	21.4	9.4			(M)	
	CLA D5	3.3	12.000	22.0	9.1				
7	NA D1								
	NA D2								
	NA D3					2.38	5.84	2.92	
	CLA D4	3.4	10.000	22.5	9.3			(M)	
	CLA D5	2.9	12.000	22.8	9.1				
8	NA D1								
	NA D2								
	NA D3					3.79	9.24	4.62	
	CLA D4	4.2	8.000	23.5	9.4			(M)	
	CLA D5	2.7	10.000	23.2	9.2				

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	NA D1								
	NA D2								
	NA D3					3.33	8.17	4.08	
	CLA D4	4.0	8.000	22.4	9.4			(M)	
	CLA D5	2.7	10.000	21.6	9.1				
10	NA D1								
	NA D2								
	NA D3					3.68	9.03	4.51	
	CLA D4	4.5	8.000	22.0	8.0			(M)	
	CLA D5	3.0	10.000	22.7	8.9				
11	NA D1								
	NA D2								
	NA D3					2.65	6.50	3.25	
	CLA D4	4.3	10.000	21.3	9.3			(M)	
	CLA D5	2.5	12.000	21.9	9.2				
12	NA D1								
	NA D2								
	NA D3					3.13	7.69	3.85	
	CLA D4	3.8	8.000	21.8	9.4			(M)	
	CLA D5	3.1	10.000	22.3	9.2				
13	NA D1								
	NA D2								
	NA D3					3.58	8.76	4.38	
	CLA D4	4.8	8.000	20.5	9.4			(M)	
	CLA D5	3.5	10.000	21.1	9.2				
14	NA D1								
	NA D2								
	NA D3					2.24	5.48	2.74	
	CLA D4	4.2	12.000	20.0	9.3			(M)	
	CLA D5	3.2	8.000	20.2	9.0				
15	NA D1								
	NA D2								
	NA D3					2.58	6.34	3.17	
	CLA D4	4.6	12.000	21.1	9.1			(M)	
	CLA D5	3.1	8.000	21.5	9.1				
16	NA D1								
	NA D2								
	NA D3					2.99	7.32	3.66	
	CLA D4	3.9	8.000	20.8	9.0			(M)	
	CLA D5	3.0	10.000	21.5	8.1				

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:

WO0023530, AW

Date: November 10, 2011

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 1961

PWS ID No.: 2430001

Month: October Year: 2011

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)	32.000	32.000	32.000	15.900	15.900	0.5		2.0	
T ₁₀ (minutes)	1.3	1.6	14.2	118.0	27.0				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
17	NA D1								
	NA D2								
	NA D3					2.64	6.48	3.24	
	CLA D4	4.4	10.000	20.8	9.1			(V)	
	CLA D5	2.8	12.000	21.3	9.0			(V)	
18	NA D1								
	NA D2								
	NA D3					2.37	5.81	2.90	
	CLA D4	4.5	12.000	20.5	9.3			(V)	
	CLA D5	2.8	8.000	20.1	9.0			(V)	
19	NA D1								
	NA D2								
	NA D3					2.16	5.23	2.62	
	CLA D4	4.4	12.000	18.8	8.8			(V)	
	CLA D5	3.1	8.000	19.4	9.0			(V)	
20	NA D1								
	NA D2								
	NA D3					2.98	7.21	3.80	
	CLA D4	4.5	8.000	19.0	8.8			(V)	
	CLA D5	2.8	10.000	18.4	8.9			(V)	
21	NA D1								
	NA D2								
	NA D3					1.91	4.64	2.32	
	CLA D4	5.1	16.000	19.0	9.4			(V)	
	CLA D5	3.4	10.000	19.9	9.1			(V)	
22	NA D1								
	NA D2								
	NA D3					1.99	4.80	2.40	
	CLA D4	5.5	16.000	18.7	8.5			(V)	
	CLA D5	3.5	10.000	18.7	8.7			(V)	
23	NA D1								
	NA D2								
	NA D3					3.50	8.59	4.29	
	CLA D4	4.7	8.000	20.8	9.4			(V)	
	CLA D5	2.8	10.000	21.8	8.9			(V)	
24	NA D1								
	NA D2								
	NA D3					3.03	7.33	3.67	
	CLA D4	4.5	8.000	19.1	8.9			(V)	
	CLA D5	2.9	10.000	19.4	8.8			(V)	

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
25	NA D1								
	NA D2								
	NA D3					1.91	4.65	2.33	
	CLA D4	5.1	16.000	19.7	9.0			(V)	
	CLA D5	2.8	10.000	19.9	9.1			(V)	
26	NA D1								
	NA D2								
	NA D3					2.04	5.00	2.50	
	CLA D4	4.8	16.000	20.8	8.2			(V)	
	CLA D5	3.6	10.000	20.7	8.9			(V)	
27	NA D1								
	NA D2								
	NA D3					1.79	4.33	2.16	
	CLA D4	4.8	16.000	18.9	8.5			(V)	
	CLA D5	3.3	10.000	19.2	8.8			(V)	
28	NA D1								
	NA D2								
	NA D3					2.00	4.73	2.37	
	CLA D4	4.6	12.000	17.3	9.0			(V)	
	CLA D5	2.6	8.000	17.9	8.9			(V)	
29	NA D1								
	NA D2								
	NA D3					1.72	3.93	1.97	
	CLA D4	4.3	12.000	15.5	8.9			(V)	
	CLA D5	2.6	8.000	15.7	8.9			(V)	
30	NA D1								
	NA D2								
	NA D3					1.75	4.09	2.04	
	CLA D4	5.3	16.000	16.4	9.0			(V)	
	CLA D5	3.8	10.000	17.3	9.1			(V)	
31	NA D1								
	NA D2								
	NA D3					3.24	7.69	3.85	
	CLA D4	5.2	8.000	17.6	9.2			(V)	
	CLA D5	3.6	10.000	17.8	9.2			(V)	
						Max	3.79	9.24	
						Min	1.72	3.93	
						Avg	2.54	6.19	
						SD	0.62	1.53	

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, AW

Date: November 10, 2011

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 1961

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.: 2430001

Operator's Signature: _____

Report for

the Month of: November 2011

Certificate No. & Grade: WO0023530, AW

Date: December 10, 2011

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	180	Number of 4-hour periods when plant was off-line:	0
Number of readings above 0.10 NTU:	73	Number of 4-hour periods when plant was on-line but turbidity data was not collected:	0
Number of readings above 0.3 NTU:	0	Number of days when plant was on-line but individual filter turbidity data was not collected:	0
Number of readings above 0.5 NTU:	0	Number of days with readings above 1.0 NTU:	0 (2)
Number of readings above 1.0 NTU:	0	Number of days with readings above 5.0 NTU:	0 (3)
Maximum allowable turbidity level:	0.3		
Percentage of readings above this limit:	0.0 % (1)		

Statistical Summary	Maximum turbidity reading: 0.22 NTU	Average turbidity value: 0.10 NTU
	Minimum turbidity reading: 0.06 NTU	Standard deviation: 0.025 NTU
	CFE 95 th percentile value: 0.15 NTU	IFE 95 th percentile: 0.270 NTU

Number of days with a low CT for no more than 4.0 consecutive hours:	0	Average log inactivation for Giardia:	2.54
Number of days with a low CT for more than 4.0 consecutive hours:	0 (4)	Average log inactivation for viruses:	5.75
		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:	115	(at least 100 required) (8)	
Average disinfectant residual value:	3.57	Percentage of readings with a low residual this month:	0.0 % (6A)
Number of readings with a low residual:	0		
Number of readings with no detectable residual:	0	Percentage of readings with a low residual last month:	0.0 % (6B)

ADDITIONAL REPORTS & WORKSHEETS

The Page 1 Addendum (Public Notices) is 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.

SURFACE WATER MONTHLY OPERATING REPORT
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

SURFACE WATER MONTHLY OPERATING REPORT

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

Turbidity Data Page

PUBLIC WATER
SYSTEM NAME: City of Wichita Falls

PLANT NAME
OR NUMBER: Cypress 1961

PWS ID No.: 2430001

Connections: 34,527

Month: November

Year: 2011

Population: _____

PERFORMANCE DATA																		
Date	Raw Water Pumpage (MGD)	Treated Water Pumpage (MGD)	RAW WATER ANALYSES		SETTLED WATER TURBIDITY (Optional Data)						FINISHED WATER QUALITY							
											Turbidity						Lowest	Time
			NTU	Alk.	1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6	Residual	
1	6.333	8.951	19	166							0.08	0.08	0.09	0.08	0.08	0.07	3.9	
2	7.583	9.852	19	171							0.07	0.11	0.10	0.08	0.08	0.10	3.6	
3	8.000	9.382	15	170							0.10	0.18	0.09	0.08	0.08	0.09	3.7	
4	8.000	9.415	18	168							0.12	0.12	0.15	0.14	0.10	0.09	3.6	
5	8.000	9.837	23	170							0.11	0.10	0.13	0.13	0.13	0.12	3.6	
6	8.000	8.828	21	176							0.11	0.11	0.11	0.12	0.09	0.10	3.8	
7	8.000	8.535	17	170							0.13	0.13	0.16	0.16	0.11	0.09	3.8	
8	8.000	7.315	18	173							0.09	0.09	0.11	0.07	0.09	0.07	4.2	
9	8.000	8.060	18	175							0.08	0.08	0.10	0.08	0.10	0.09	3.5	
10	8.000	8.070	18	173							0.09	0.10	0.10	0.11	0.11	0.10	3.1	
11	8.000	8.655	23	175							0.17	0.16	0.15	0.12	0.12	0.10	2.9	
12	8.000	9.557	21	172							0.10	0.12	0.15	0.14	0.12	0.09	3.3	
13	8.000	8.209	20	174							0.12	0.12	0.11	0.13	0.13	0.12	3.5	
14	8.000	9.517	19	165							0.11	0.11	0.12	0.11	0.11	0.10	2.7	
15	8.000	9.964	16	173							0.11	0.11	0.11	0.11	0.10	0.07	3.1	
16	8.000	9.549	20	169							0.07	0.07	0.14	0.08	0.10	0.08	3.4	
17	8.000	9.791	20	168							0.10	0.10	0.10	0.09	0.09	0.09	3.7	
18	7.667	9.062	21	173							0.07	0.07	0.22	0.11	0.11	0.09	3.6	
19	8.000	8.362	23	169							0.07	0.06	0.09	0.09	0.10	0.13	4.0	
20	8.000	8.396	21	169							0.12	0.12	0.14	0.10	0.12	0.11	3.9	
21	8.000	8.543	28	170							0.10	0.11	0.11	0.11	0.11	0.10	3.4	
22	8.000	9.199	25	169							0.15	0.17	0.13	0.09	0.08	0.08	3.4	
23	8.000	10.582	23	174							0.13	0.11	0.13	0.11	0.09	0.10	3.1	
24	8.000	10.768	9	137							0.11	0.12	0.12	0.08	0.08	0.09	3.2	
25	8.000	10.386	19	138							0.07	0.07	0.10	0.07	0.08	0.06	3.3	
26	8.000	9.548	26	173							0.07	0.10	0.08	0.09	0.11	0.09	3.0	
27	8.000	9.837	25	167							0.08	0.08	0.13	0.09	0.09	0.08	3.2	
28	8.000	10.618	34	170							0.08	0.08	0.09	0.08	0.08	0.09	3.0	
29	8.000	10.246	32	167							0.09	0.08	0.08	0.07	0.07	0.08	3.2	
30	8.000	10.183	23	166							0.08	0.08	0.10	0.07	0.07	0.08	2.8	
31																		
Total	237.583	279.197	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.															
Avg	7.919	9.307																
Max	8.000	10.768																
Min	6.333	7.315																

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, AW

Date: December 10, 2011

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 1961

PWS ID No.: 2430001

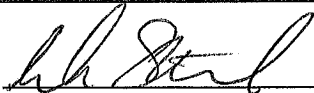
Month:

November

Year: 2011

PERFORMANCE DATA																				
Date	INDIVIDUAL FILTER TURBIDITY																			
	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	0.16	0.09	0.16	0.10	0.06	x	0.07	x	x	x	x	x	0.05	x	0.05	x				
2	0.11	x	0.12	x	x	x	x	x	0.16	0.09	0.14	0.10	0.06	x	0.55	x				
3	0.09	x	0.10	x	x	x	x	x	0.15	x	0.14	x	x	x	x	x				
4	0.10	x	0.11	x	x	x	x	x	0.14	x	0.13	x	x	x	x	x				
5	0.07	x	0.07	x	0.27	0.15	0.33	0.19	0.09	x	0.09	x	x	x	x	x				
6	x	x	x	x	0.09	x	0.14	x	0.09	x	0.08	x	0.18	0.16	0.20	0.15				
7	x	x	x	x	0.09	x	0.12	x	x	x	x	x	0.12	x	0.12	x				
8	x	x	x	x	0.04	x	0.07	x	0.15	0.07	0.17	0.07	0.06	x	0.05	x				
9	0.08	0.05	0.08	0.06	x	x	x	x	0.09	x	0.08	x	0.04	x	0.04	x				
10	0.15	x	0.16	x	x	x	x	x	0.17	x	0.16	x	x	x	x	x				
11	0.15	x	0.16	x	x	x	x	x	0.17	x	0.16	x	0.20	0.17	0.22	0.18				
12	0.07	x	0.07	x	0.27	0.16	0.32	0.23	x	x	x	x	0.19	x	0.19	x				
13	x	x	x	x	0.18	x	0.26	x	x	x	x	x	0.12	x	0.11	x				
14	x	x	x	x	0.12	x	0.17	x	x	x	x	x	0.10	x	0.10	x				
15	x	x	x	x	0.07	x	0.11	x	0.17	0.11	0.16	0.11	0.07	x	0.07	x				
16	0.08	0.04	0.10	0.06	0.04	x	0.07	x	0.06	x	0.07	x	x	x	x	x				
17	0.05	x	0.06	x	x	x	x	x	0.07	x	0.07	x	x	x	x	x				
18	0.04	x	0.05	x	x	x	x	x	0.07	x	0.07	x	0.09	0.07	0.09	0.07				
19	0.04	x	0.05	x	0.30	0.13	0.30	0.17	x	x	x	x	0.10	x	0.10	x				
20	x	x	x	x	0.11	x	0.14	x	x	x	x	x	0.09	x	0.09	x				
21	x	x	x	x	0.10	x	0.13	x	0.34	0.22	0.33	0.22	0.10	x	0.09	x				
22	0.14	0.13	0.28	0.15	0.08	x	0.10	x	0.22	x	0.22	x	x	x	x	x				
23	0.14	x	0.17	x	x	x	x	x	0.11	x	0.11	x	x	x	x	x				
24	0.05	x	0.06	x	x	x	x	x	0.11	x	0.11	x	x	x	x	x				
25	0.04	x	0.04	x	x	x	x	x	0.05	x	0.05	x	0.08	0.07	0.08	0.07				
26	0.03	x	0.05	x	0.24	0.11	0.23	0.12	x	x	x	x	0.07	x	0.07	x				
27	x	x	x	x	0.09	x	0.10	x	x	x	x	x	0.07	x	0.07	x				
28	x	x	x	x	0.07	x	0.09	x	0.13	0.13	0.11	0.11	0.07	x	0.09	x				
29	0.18	0.12	0.07	0.07	0.07	x	0.06	x	0.07	x	0.08	x	x	x	x	x				
30	0.11	x	0.09	x	x	x	x	x	0.07	x	0.07	x	x	x	x	x				
31																				
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	0	0	0	0	0		
	Number of days with event(s) above 1.0 NTU this month								0	0	0	0	0	0	0	0	0	0		
	Number of days with event(s) above 1.0 NTU last month								0	0	0	0	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	0	0	0	0		
	Total number of days with event(s) above 1.0 NTU in three months								0	0	0	0	0	0	0	0	0	0		
	Number of days with event(s) above 2.0 NTU this month																		0	
	Number of days with event(s) above 2.0 NTU last month																		0	
	Does the filter/plant have an approved Corrective Action Plan?								N	N	N	N	N	N	N	N	N	N	N	
	Is the plant required to submit a Filter Profile Report?								N	N	N	N	N	N	N	N	N	N		
	Is the plant required to submit a Filter Assessment Report?								N	N	N	N	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, AW

Date: December 10, 2011

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 1961

PWS ID No.: 2430001

Month: November Year: 2011

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)	32.000	32.000	32.000	15.900	15.900	0.5		2.0	
T ₁₀ (minutes)	1.3	1.6	14.2	118.0	27.0				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	NA D1								
	NA D2								
	NA D3					3.24	7.73	3.86	
	CLA D4	5.2	8.000	17.7	9.3			(V)	
	CLA D5	3.5	10.000	18.0	9.2				
2	NA D1								
	NA D2								
	NA D3					3.69	8.83	4.42	
	CLA D4	5.8	8.000	18.0	8.9			(V)	
	CLA D5	4.0	10.000	18.4	8.7				
3	NA D1								
	NA D2								
	NA D3					2.54	5.75	2.88	
	CLA D4	4.7	8.000	15.0	9.4			(V)	
	CLA D5	3.0	10.000	15.2	9.1				
4	NA D1								
	NA D2								
	NA D3					2.55	5.79	2.89	
	CLA D4	4.6	8.000	15.0	9.4			(V)	
	CLA D5	3.6	10.000	15.6	9.0				
5	NA D1								
	NA D2								
	NA D3					2.98	6.86	3.43	
	CLA D4	5.3	8.000	15.8	8.0			(V)	
	CLA D5	3.6	10.000	15.1	9.2				
6	NA D1								
	NA D2								
	NA D3					3.06	7.11	3.55	
	CLA D4	5.0	8.000	16.2	9.3			(V)	
	CLA D5	4.0	8.000	17.1	9.1				
7	NA D1								
	NA D2								
	NA D3					3.20	7.58	3.79	
	CLA D4	4.9	8.000	17.3	9.3			(V)	
	CLA D5	4.3	8.000	17.6	9.3				
8	NA D1								
	NA D2								
	NA D3					3.37	8.14	4.07	
	CLA D4	4.7	8.000	18.8	9.4			(V)	
	CLA D5	4.5	8.000	18.6	9.3				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	NA D1								
	NA D2								
	NA D3					2.82	6.49	3.24	
	CLA D4	4.5	8.000	15.8	8.0			(V)	
	CLA D5	4.8	8.000	15.9	8.6				
10	NA D1								
	NA D2								
	NA D3					2.08	4.72	2.36	
	CLA D4	3.3	8.000	14.8	9.3			(V)	
	CLA D5	4.4	8.000	15.7	9.0				
11	NA D1								
	NA D2								
	NA D3					1.84	4.18	2.09	
	CLA D4	3.0	8.000	15.2	8.0			(V)	
	CLA D5	3.3	8.000	15.4	8.7				
12	NA D1								
	NA D2								
	NA D3					2.22	4.99	2.49	
	CLA D4	4.1	8.000	14.6	9.2			(V)	
	CLA D5	3.0	10.000	15.5	9.3				
13	NA D1								
	NA D2								
	NA D3					2.81	6.15	3.07	
	CLA D4	3.8	8.000	17.0	8.8			(V)	
	CLA D5	4.8	8.000	16.9	9.3				
14	NA D1								
	NA D2								
	NA D3					2.02	4.62	2.31	
	CLA D4	3.5	8.000	15.4	9.3			(V)	
	CLA D5	3.2	10.000	15.8	9.2				
15	NA D1								
	NA D2								
	NA D3					2.68	6.28	3.14	
	CLA D4	4.2	8.000	16.8	8.2			(V)	
	CLA D5	3.7	8.000	17.1	9.1				
16	NA D1								
	NA D2								
	NA D3					2.61	6.01	3.00	
	CLA D4	4.6	8.000	15.7	9.2			(V)	
	CLA D5	3.3	10.000	16.3	8.5				

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:

WO0023530, AW

Date: December 10, 2011

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: <u>City of Wichita Falls</u> PWS ID No.: <u>2430001</u>	PLANT NAME OR NUMBER: <u>Cypress 1961</u> Month: <u>November</u> Year: <u>2011</u>
--	---

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)	32.000	32.000	32.000	15.900	15.900	0.5	2.0
T ₁₀ (minutes)	1.3	1.6	14.2	118.0	27.0		

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
17	NA D1								
	NA D2								
	NA D3					1.85	3.84	1.92	
	CLA D4	3.7	8.000	11.3	9.0			(V)	
	CLA D5	4.1	10.000	12.9	9.3				
18	NA D1								
	NA D2								
	NA D3					2.45	5.39	2.70	
	CLA D4	4.7	8.000	13.7	7.8			(V)	
	CLA D5	3.6	10.000	14.4	8.9				
19	NA D1								
	NA D2								
	NA D3					2.97	6.70	3.35	
	CLA D4	5.2	8.000	14.8	7.8			(V)	
	CLA D5	4.3	8.000	15.1	8.9				
20	NA D1								
	NA D2								
	NA D3					2.85	6.50	3.25	
	CLA D4	4.7	8.000	15.1	9.4			(V)	
	CLA D5	4.9	8.000	16.0	8.9				
21	NA D1								
	NA D2								
	NA D3					2.10	4.66	2.33	
	CLA D4	4.0	8.000	14.0	8.5			(V)	
	CLA D5	2.9	10.000	14.8	8.6				
22	NA D1								
	NA D2								
	NA D3					2.33	5.18	2.59	
	CLA D4	4.4	8.000	14.2	8.0			(V)	
	CLA D5	3.2	10.000	14.6	9.0				
23	NA D1								
	NA D2								
	NA D3					2.23	4.93	2.46	
	CLA D4	4.2	8.000	13.9	9.0			(V)	
	CLA D5	3.5	10.000	14.3	9.0				
24	NA D1								
	NA D2								
	NA D3					2.10	4.65	2.33	
	CLA D4	4.0	8.000	14.0	8.0			(V)	
	CLA D5	2.9	10.000	14.6	8.7				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
25	NA D1								
	NA D2								
	NA D3					2.50	5.63	2.82	
	CLA D4	4.5	8.000	14.8	8.2			(V)	
	CLA D5	3.8	10.000	15.2	9.0				
26	NA D1								
	NA D2								
	NA D3					3.18	7.36	3.68	
	CLA D4	5.6	8.000	16.0	7.7			(V)	
	CLA D5	3.6	10.000	16.4	9.2				
27	NA D1								
	NA D2								
	NA D3					2.20	4.69	2.35	
	CLA D4	4.5	8.000	12.5	8.6			(V)	
	CLA D5	3.2	10.000	12.8	9.2				
28	NA D1								
	NA D2								
	NA D3					1.98	3.99	2.00	
	CLA D4	4.4	8.000	10.5	8.0			(V)	
	CLA D5	3.0	10.000	11.4	8.9				
29	NA D1								
	NA D2								
	NA D3					1.87	3.77	1.89	
	CLA D4	4.1	8.000	10.5	9.4			(V)	
	CLA D5	3.2	10.000	11.1	9.4				
30	NA D1								
	NA D2								
	NA D3					1.93	4.10	2.05	
	CLA D4	4.0	8.000	12.4	8.0			(V)	
	CLA D5	2.5	10.000	13.2	8.8				
31	D1								
	D2								
	D3								
	D4								
	D5								
						Max	3.69	8.83	
						Min	1.84	3.77	
						Avg	2.54	5.75	
						SD	0.50	1.34	

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

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

PWS/2430001/MR

PUBLIC WATER

SYSTEM NAME: City of Wichita Falls

PLANT NAME

OR NUMBER: Cypress 1961

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.: 2430001

Operator's Signature: [Signature]

Report for

the Month of: December 2011

Certificate No. & Grade: WO0023530, AW

Date: January 10, 2012

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	186	Number of 4-hour periods when plant was off-line:	0
Number of readings above 0.10 NTU:	50	Number of 4-hour periods when plant was on-line but turbidity data was not collected:	0
Number of readings above 0.3 NTU:	0	Number of days when plant was on-line but individual filter turbidity data was not collected:	0
Number of readings above 0.5 NTU:	0	Number of days with readings above 1.0 NTU:	0 (2)
Number of readings above 1.0 NTU:	0	Number of days with readings above 5.0 NTU:	0 (3)
Maximum allowable turbidity level:	0.3		
Percentage of readings above this limit:	0.0 % (1)		

Statistical Summary	Maximum turbidity reading: <u>0.16</u> NTU Minimum turbidity reading: <u>0.06</u> NTU CFE 95 th percentile value: <u>0.13</u> NTU	Average turbidity value: <u>0.10</u> NTU Standard deviation: <u>0.019</u> NTU IFE 95 th percentile: <u>0.256</u> NTU
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Number of days with a low CT for no more than 4.0 consecutive hours:	0	Average log inactivation for Giardia:	3.70
Number of days with a low CT for more than 4.0 consecutive hours:	0 (4)	Average log inactivation for viruses:	11.14
		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: <u>0</u>

DISTRIBUTION SYSTEM

Minimum disinfectant residual required in distribution system:	0.5 mg/L, measured as Total Chlorine	
Total number of readings this month:	116	(at least 100 required) (8)
Average disinfectant residual value:	3.77	Percentage of readings with a low residual this month:
Number of readings with a low residual:	0	0.0 % (6A)
Number of readings with no detectable residual:	0	Percentage of readings with a low residual last month:
		0.0 % (6B)

ADDITIONAL REPORTS & WORKSHEETS

The Page 1 Addendum (Public Notices) is 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.

SURFACE WATER MONTHLY OPERATING REPORT
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

SURFACE WATER MONTHLY OPERATING REPORT

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

Turbidity Data Page

PUBLIC WATER
SYSTEM NAME:

City of Wichita Falls

PLANT NAME
OR NUMBER:

Cypress 1961

PWS ID No.:

2430001

Connections:

34,438

Month:

December

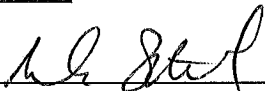
Year: 2011

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.						Turbidity						Lowest	Time
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6	Residual	
1	8.000	10.961	25	161							0.09	0.08	0.11	0.08	0.08	0.10	3.0	
2	8.000	9.641	23	169							0.10	0.10	0.11	0.10	0.11	0.10	3.0	
3	8.000	9.884	39	174							0.10	0.14	0.13	0.12	0.11	0.10	2.9	
4	8.000	10.931	37	176							0.10	0.11	0.11	0.10	0.10	0.09	2.9	
5	8.000	10.432	20	170							0.09	0.10	0.10	0.10	0.10	0.11	2.5	
6	8.000	9.967	23	168							0.11	0.12	0.11	0.10	0.09	0.09	3.5	
7	8.000	10.791	24	168							0.09	0.09	0.08	0.07	0.09	0.08	3.2	
8	8.000	10.200	24	168							0.08	0.09	0.11	0.08	0.09	0.09	3.7	
9	8.000	9.152	26	162							0.11	0.12	0.13	0.12	0.12	0.11	3.3	
10	8.000	9.953	23	172							0.15	0.11	0.12	0.13	0.13	0.11	3.3	
11	8.000	11.247	21	172							0.11	0.11	0.11	0.10	0.10	0.10	3.6	
12	8.000	9.757	25	172							0.10	0.12	0.15	0.13	0.12	0.12	3.1	
13	8.000	9.558	22	168							0.11	0.16	0.14	0.14	0.12	0.11	3.2	
14	8.000	10.116	24	165							0.10	0.10	0.08	0.09	0.09	0.09	3.5	
15	8.000	10.153	22	160							0.09	0.08	0.09	0.09	0.10	0.10	3.6	
16	8.000	10.269	20	135							0.09	0.09	0.08	0.09	0.07	0.07	3.4	
17	8.000	9.837	19	132							0.07	0.09	0.09	0.08	0.07	0.08	2.8	
18	8.000	10.618	24	166							0.07	0.07	0.08	0.08	0.07	0.10	2.8	
19	8.000	9.824	25	168							0.11	0.10	0.12	0.10	0.10	0.10	3.0	
20	8.000	10.256	25	169							0.07	0.07	0.10	0.08	0.08	0.07	3.2	
21	8.000	9.967	24	168							0.09	0.10	0.11	0.10	0.08	0.08	3.1	
22	8.000	10.083	23	166							0.08	0.09	0.11	0.10	0.10	0.11	2.9	
23	8.000	9.930	22	140							0.11	0.11	0.12	0.10	0.09	0.09	2.6	
24	8.000	9.744	22	140							0.11	0.09	0.09	0.07	0.07	0.08	3.0	
25	8.000	9.804	28	167							0.08	0.08	0.09	0.09	0.09	0.10	3.0	
26	8.000	10.688	27	163							0.10	0.12	0.10	0.09	0.09	0.09	2.7	
27	8.000	9.511	27	166							0.08	0.08	0.09	0.09	0.08	0.07	3.2	
28	8.000	10.060	28	167							0.08	0.09	0.09	0.07	0.10	0.08	3.3	
29	8.000	10.223	31	165							0.08	0.08	0.08	0.08	0.10	0.10	3.2	
30	8.000	10.116	30	164							0.08	0.07	0.08	0.07	0.07	0.06	3.3	
31	8.000	9.851	22	134							0.06	0.06	0.10	0.06	0.07	0.06	3.3	
Total	248.000	313.524	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.															
Avg	8.000	10.114																
Max	8.000	11.247																
Min	8.000	9.152																

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, AW

Date: January 10, 2012

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 1961

PWS ID No.: 2430001

Month:

December

Year: 2011

PERFORMANCE DATA

Date	INDIVIDUAL FILTER TURBIDITY																			
	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	x	0.07	x	x	x	x	x	0.06	x	0.06	x	0.15	0.12	0.15	0.12				
2	0.12	x	0.11	x	0.29	0.18	0.29	0.18	x	x	x	x	0.13	x	0.12	x				
3	x	x	x	x	0.18	x	0.18	x	x	x	x	x	0.12	x	0.12	x				
4	x	x	x	x	0.13	x	0.11	x	x	x	x	x	0.08	x	0.09	x				
5	x	x	x	x	0.11	x	0.11	x	0.23	0.04	0.23	0.10	0.08	x	0.09	x				
6	0.23	0.10	0.24	0.10	0.09	x	0.07	x	0.10	x	0.11	x	x	x	x	x				
7	0.07	x	0.07	x	x	x	x	x	0.07	x	0.07	x	x	x	x	x				
8	0.08	x	0.09	x	x	x	x	x	0.07	x	0.08	x	0.11	0.09	0.11	0.09				
9	0.11	x	0.11	x	0.29	0.25	0.24	0.21	x	x	x	x	0.13	x	0.14	x				
10	x	x	x	x	0.19	x	0.16	x	x	x	x	x	0.14	x	0.12	x				
11	x	x	x	x	0.18	x	0.14	x	0.24	0.10	0.25	0.09	0.10	x	0.11	x				
12	0.35	0.19	0.36	0.18	0.17	x	0.15	x	0.26	x	0.27	x	x	x	x	x				
13	0.19	x	0.18	x	x	x	x	x	0.11	x	0.12	x	x	x	x	x				
14	0.07	x	0.07	x	x	x	x	x	0.06	x	0.07	x	x	x	x	x				
15	0.06	x	0.06	x	x	x	x	x	0.06	x	0.07	x	0.11	0.09	0.11	0.10				
16	0.06	x	0.05	x	0.15	0.10	0.13	0.08	x	x	x	x	0.07	x	0.08	x				
17	x	x	x	x	0.07	x	0.05	x	x	x	x	x	0.05	x	0.06	x				
18	x	x	x	x	0.09	x	0.08	x	0.15	0.15	0.15	0.15	0.05	x	0.06	x				
19	0.11	0.11	0.11	0.11	0.08	x	0.07	x	0.13	x	0.13	x	x	x	x	x				
20	0.07	x	0.07	x	x	x	x	x	0.10	x	0.11	x	x	x	x	x				
21	0.18	x	0.08	x	x	x	x	x	0.10	x	0.11	x	0.12	0.07	0.14	0.10				
22	0.07	x	0.07	x	0.20	0.12	0.23	0.13	x	x	x	x	0.14	x	0.16	x				
23	x	x	x	x	0.16	x	0.18	x	x	x	x	x	0.09	x	0.10	x				
24	x	x	x	x	0.08	x	0.08	x	x	x	x	x	0.08	x	0.09	x				
25	x	x	x	x	0.09	x	0.09	x	0.30	0.11	0.36	0.12	0.08	x	0.10	x				
26	0.16	0.08	0.16	0.07	0.08	x	0.08	x	0.12	x	0.13	x	x	x	x	x				
27	0.05	x	0.05	x	x	x	x	x	0.06	x	0.08	x	x	x	x	x				
28	0.05	x	0.05	x	x	x	x	x	0.06	x	0.06	x	0.07	0.07	0.08	0.08				
29	0.04	x	0.05	x	0.08	0.07	0.07	0.07	x	x	x	x	0.06	x	0.07	x				
30	x	x	x	x	0.07	x	0.06	x	x	x	x	x	0.05	x	0.06	x				
31	x	x	x	x	0.05	x	0.05	x	0.12	0.09	0.12	0.10	0.04	x	0.05	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	0	0	0	0		
	Number of days with event(s) above 1.0 NTU this month	0	0	0	0	0	0	0	0	0		
	Number of days with event(s) above 1.0 NTU last month	0	0	0	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	0	0	0		
	Total number of days with event(s) above 1.0 NTU in three months	0	0	0	0	0	0	0	0	0		
	Number of days with event(s) above 2.0 NTU this month											0
	Number of days with event(s) above 2.0 NTU last month											0
	Does the filter/plant have an approved Corrective Action Plan?	N	N	N	N	N	N	N	N	N		N
	Is the plant required to submit a Filter Profile Report?	N	N	N	N	N	N	N	N	N		
	Is the plant required to submit a Filter Assessment Report?	N	N	N	N	N	N	N	N	N		
	Is the plant required to submit a Request for Compliance CPE?											N

SUBMITTED BY:

Mike Smith

Certificate No.

and Grade: WO0023530, AW

Date: January 10, 2012

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 1961

PWS ID No.:

2430001

Month:

December

Year: 2011

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)	32.000	32.000	32.000	15.900	15.900	0.5	2.0
T ₁₀ (minutes)	1.3	1.6	14.2	118.0	27.0		

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	NA D1								
	NA D2								
	NA D3					1.96	4.28	2.14	
	CLA D4	3.8	8.000	13.4	8.0			(V)	
	CLA D5	3.0	10.000	14.0	8.4				
2	NA D1								
	NA D2								
	NA D3					1.55	3.13	1.56	
	CLA D4	3.9	8.000	10.5	7.8			(V)	
	CLA D5	2.7	10.000	11.8	11.8				
3	NA D1								
	NA D2								
	CLO2 D3	0.2	8.000	11.9	8.5	3.47	10.32	5.16	
	CLA D4	4.0	8.000	10.4	9.3			(V)	
	CLA D5	2.6	10.000	11.4	9.0				
4	NA D1								
	NA D2								
	CLO2 D3	0.5	8.000	12.5	8.5	5.99	20.72	10.36	
	CLA D4	3.8	8.000	12.5	9.2			(V)	
	CLA D5	3.0	10.000	13.1	9.1				
5	NA D1								
	NA D2								
	CLO2 D3	0.1	8.000	11.6	8.4	2.42	5.98	2.99	
	CLA D4	4.1	8.000	10.7	9.4			(V)	
	CLA D5	2.9	10.000	11.3	9.3				
6	NA D1								
	NA D2								
	CLO2 D3	0.6	8.000	12.4	8.5	7.49	25.00	12.50	
	CLA D4	5.9	8.000	9.8	7.8			(V)	
	CLA D5	4.0	10.000	10.7	9.2				
7	NA D1								
	NA D2								
	CLO2 D3	0.2	8.000	8.6	8.5	3.70	9.40	4.70	
	CLA D4	5.5	8.000	9.3	9.4			(V)	
	CLA D5	3.4	10.000	10.6	9.3				
8	NA D1								
	NA D2								
	CLA D3	0.1	8.000	8.8	8.6	2.05	4.08	2.04	
	CLA D4	4.5	8.000	10.1	9.4			(V)	
	CLA D5	3.7	10.000	10.7	8.9				

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	NA D1								
	NA D2								
	CLO2 D3	0.3	8.000	9.1	8.5	4.33	12.45	6.22	
	CLA D4	4.4	8.000	10.2	7.8			(V)	
	CLA D5	3.7	10.000	10.7	9.3				
10	NA D1								
	NA D2								
	CLO2 D3	0.3	8.000	9.6	8.5	4.00	11.37	5.69	
	CLA D4	4.5	8.000	6.6	9.3			(V)	
	CLA D5	3.4	10.000	8.2	9.2				
11	NA D1								
	NA D2								
	CLO2 D3	0.4	8.000	9.3	8.3	4.99	14.67	7.33	
	CLA D4	4.7	8.000	9.9	9.2			(V)	
	CLA D5	4.2	10.000	10.6	9.0				
12	NA D1								
	NA D2								
	CLO2 D3	0.4	8.000	7.9	8.6	5.17	14.70	7.35	
	CLA D4	4.9	8.000	10.5	8.8			(V)	
	CLA D5	3.9	10.000	10.5	8.5				
13	NA D1								
	NA D2								
	CLO2 D3	1.6	8.000	10.7	8.3	13.94	50.29	25.14	
	CLA D4	3.7	8.000	11.2	8.0			(V)	
	CLA D5	3.9	10.000	11.1	8.6				
14	NA D1								
	NA D2								
	CLO2 D3	0.1	8.000	11.0	8.5	3.13	7.58	3.79	
	CLA D4	5.2	8.000	14.1	8.2			(V)	
	CLA D5	3.8	10.000	14.3	8.9				
15	NA D1								
	NA D2								
	CLO2 D3	0.2	8.000	11.6	8.5	3.74	10.29	5.14	
	CLA D4	5.0	8.000	13.5	8.8			(V)	
	CLA D5	3.6	10.000	13.4	8.7				
16	NA D1								
	NA D2								
	CLO2 D3	0.1	8.000	11.4	8.6	3.40	9.03	4.51	
	CLA D4	5.0	8.000	11.0	9.1			(V)	
	CLA D5	3.5	10.000	11.4	8.7				

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

SUBMITTED BY:

[Signature]

Certificate No.
and Grade:

WO0023530, AW

Date: January 10, 2012

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 1961

PWS ID No.: 2430001

Month: December Year: 2011

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)	32.000	32.000	32.000	15.900	15.900	0.5	2.0
T ₁₀ (minutes)	1.3	1.6	14.2	118.0	27.0		

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
17	NA D1								
	NA D2								
	CLO2 D3	0.2	8.000	10.3	8.6	2.67	7.98	3.99	
	CLA D4	5.0	16.000	9.3	9.1			(V)	
	CLA D5	2.8	10.000	10.2	9.1				
18	NA D1								
	NA D2								
	CLO2 D3	0.2	8.000	10.1	8.6	2.78	8.19	4.10	
	CLA D4	5.2	16.000	11.7	8.6			(V)	
	CLA D5	3.5	10.000	11.6	8.9				
19	NA D1								
	NA D2								
	CLO2 D3	0.2	8.000	10.8	8.4	2.94	9.44	4.72	
	CLA D4	4.2	16.000	12.5	8.6			(V)	
	CLA D5	2.3	10.000	12.4	9.2				
20	NA D1								
	NA D2								
	CLO2 D3	0.2	8.000	11.4	8.6	3.44	10.28	5.14	
	CLA D4	3.6	8.000	12.3	9.0			(V)	
	CLA D5	3.2	10.000	11.9	8.6				
21	NA D1								
	NA D2								
	CLO2 D3	0.3	8.000	9.7	8.4	3.50	11.08	5.54	
	CLA D4	4.5	16.000	8.7	9.2			(V)	
	CLA D5	3.0	10.000	9.6	9.3				
22	NA D1								
	NA D2								
	CLO2 D3	0.4	8.000	9.1	8.4	3.50	11.14	5.57	
	CLA D4	4.0	16.000	10.0	9.0			(V)	
	CLA D5	2.4	10.000	10.7	8.8				
23	NA D1								
	NA D2								
	CLO2 D3	0.2	8.000	9.3	8.5	2.54	7.66	3.83	
	CLA D4	3.9	16.000	8.8	9.1			(V)	
	CLA D5	2.9	10.000	9.2	8.5				
24	NA D1								
	NA D2								
	CLO2 D3	0.2	8.000	9.7	8.4	2.68	8.20	4.10	
	CLA D4	4.2	16.000	9.0	9.3			(V)	
	CLA D5	2.6	10.000	9.6	9.0				

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
25	NA D1								
	NA D2								
	CLO2 D3	0.3	8.000	8.7	8.5	2.79	8.42	4.21	
	CLA D4	4.0	16.000	10.4	9.1			(V)	
	CLA D5	2.8	10.000	10.7	9.1				
26	NA D1								
	NA D2								
	CLO2 D3	0.3	8.000	9.4	8.3	3.08	9.50	4.75	
	CLA D4	4.3	16.000	10.6	9.1			(V)	
	CLA D5	3.3	10.000	10.7	9.2				
27	NA D1								
	NA D2								
	CLO2 D3	0.2	8.000	8.7	8.5	2.72	7.95	3.97	
	CLA D4	4.6	16.000	8.7	9.3			(V)	
	CLA D5	3.0	10.000	9.7	9.2				
28	NA D1								
	NA D2								
	CLO2 D3	0.2	8.000	10.0	8.3	2.61	7.86	3.93	
	CLA D4	4.5	16.000	10.5	7.5			(V)	
	CLA D5	3.0	10.000	10.6	8.2				
29	NA D1								
	NA D2								
	CLO2 D3	0.3	8.000	9.0	8.4	2.97	8.95	4.47	
	CLA D4	4.6	16.000	9.5	9.0			(V)	
	CLA D5	2.9	10.000	10.1	8.9				
30	NA D1								
	NA D2								
	CLO2 D3	0.2	8.000	9.9	8.5	2.84	8.70	4.35	
	CLA D4	4.6	16.000	10.7	8.7			(V)	
	CLA D5	2.7	10.000	11.1	8.8				
31	NA D1								
	NA D2								
	CLO2 D3	0.2	8.000	10.2	8.6	2.32	6.75	3.37	
	CLA D4	4.6	16.000	9.6	8.2			(V)	
	CLA D5	3.1	10.000	10.6	8.4				
						Max	13.94	50.29	
						Min	1.55	3.13	
						Avg	3.70	11.14	
						SD	2.22	8.34	

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: WO0023530, AW

Date: January 10, 2012

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 1961

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.: 2430001

Operator's Signature: [Signature]

Report for

the Month of: January 2012

Certificate No. & Grade: WO0023530, AW

Date: February 10, 2012

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	186	Number of 4-hour periods when plant was off-line:	0
Number of readings above 0.10 NTU:	6	Number of 4-hour periods when plant was on-line but turbidity data was not collected:	0
Number of readings above 0.3 NTU:	0	Number of days when plant was on-line but individual filter turbidity data was not collected:	0
Number of readings above 0.5 NTU:	0	Number of days with readings above 1.0 NTU:	0 (2)
Number of readings above 1.0 NTU:	0	Number of days with readings above 5.0 NTU:	0 (3)
Maximum allowable turbidity level:	0.3		
Percentage of readings above this limit:	0.0 % (1)		

Statistical Summary	Maximum turbidity reading: 0.15 NTU	Average turbidity value: 0.08 NTU
	Minimum turbidity reading: 0.05 NTU	Standard deviation: 0.013 NTU
	CFE 95 th percentile value: 0.10 NTU	IFE 95 th percentile: 0.225 NTU

Number of days with a low CT for no more than 4.0 consecutive hours:	0	Average log inactivation for Giardia:	3.23
Number of days with a low CT for more than 4.0 consecutive hours:	0 (4)	Average log inactivation for viruses:	9.68
		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:	116	(at least 100 required)	(8)
Average disinfectant residual value:	4.03	Percentage of readings with a low residual this month:	0.0 % (6A)
Number of readings with a low residual:	0		
Number of readings with no detectable residual:	0	Percentage of readings with a low residual last month:	0.0 % (6B)

ADDITIONAL REPORTS & WORKSHEETS

The Page 1 Addendum (Public Notices) is 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.

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

FEB-14 12 08:25

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 1961

PWS ID No.: 2430001 Connections: 34,365

Month: January Year: 2012 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.						Turbidity						Lowest	
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6	Residual	Time
1	8.000	9.804	25	134							0.06	0.07	0.08	0.07	0.07	0.08	3.3	
2	8.000	9.697	29	163							0.08	0.15	0.12	0.12	0.09	0.09	3.1	
3	8.000	10.698	30	163							0.10	0.12	0.10	0.08	0.09	0.08	3.1	
4	8.000	9.944	33	163							0.08	0.08	0.09	0.08	0.07	0.09	3.1	
5	8.000	10.874	32	164							0.08	0.08	0.09	0.08	0.07	0.08	3.5	
6	8.000	9.907	33	166							0.08	0.08	0.09	0.07	0.07	0.07	3.4	
7	8.000	10.432	30	165							0.08	0.08	0.08	0.08	0.10	0.10	2.5	
8	8.000	9.585	28	165							0.08	0.09	0.10	0.09	0.10	0.10	3.1	
9	8.000	10.349	37	169							0.08	0.08	0.11	0.09	0.08	0.07	2.9	
10	9.167	14.084	32	167							0.08	0.08	0.07	0.07	0.06	0.07	2.4	
11	12.000	11.781	31	166							0.09	0.08	0.08	0.07	0.07	0.08	2.6	
12	12.000	11.641	30	167							0.09	0.08	0.09	0.07	0.08	0.09	3.1	
13	13.417	15.585	31	167							0.07	0.07	0.06	0.06	0.06	0.05	3.1	
14	9.750	15.010	19	127							0.06	0.08	0.07	0.07	0.06	0.08	3.4	
15	8.667	15.844	22	136							0.08	0.08	0.08	0.08	0.07	0.08	3.5	
16	10.667	16.643	40	169							0.07	0.08	0.07	0.08	0.07	0.07	3.9	
17	10.833	15.133	46	167							0.08	0.09	0.07	0.07	0.07	0.07	3.2	
18	8.000	14.489	53	166							0.08	0.07	0.09	0.08	0.06	0.09	3.7	
19	9.917	20.499	54	165							0.07	0.08	0.09	0.07	0.08	0.09	3.2	
20	12.000	16.337	60	164							0.09	0.09	0.11	0.09	0.07	0.08	2.9	
21	9.333	15.742	43	162							0.08	0.08	0.08	0.07	0.08	0.08	2.5	
22	8.000	14.930	46	163							0.08	0.09	0.08	0.07	0.08	0.08	3.1	
23	12.000	13.045	62	164							0.08	0.08	0.10	0.09	0.08	0.07	3.2	
24	10.667	15.805	64	164							0.07	0.08	0.08	0.07	0.07	0.09	3.5	
25	8.000	14.823	65	165							0.08	0.07	0.09	0.06	0.06	0.07	3.5	
26	11.833	16.068	63	164							0.07	0.07	0.09	0.09	0.09	0.08	3.5	
27	6.000	11.906	65	162							0.09	0.09	0.09	0.07	0.06	0.07	3.5	
28	12.000	19.850	46	141							0.08	0.07	0.07	0.06	0.06	0.06	3.3	
29	12.000	16.453	52	164							0.09	0.07	0.08	0.07	0.08	0.08	3.9	
30	9.833	15.716	66	163							0.07	0.08	0.07	0.06	0.07	0.08	3.5	
31	8.167	15.374	67	164							0.07	0.08	0.09	0.07	0.05	0.05	3.5	
Total	296.251	428.028	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.															
Avg	9.556	13.807																
Max	13.417	20.499																
Min	6.000	9.585																

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: W. J. Smith Certificate No. and Grade: WO0023530, AW Date: February 10, 2012

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 1961

PWS ID No.: 2430001

Month:

January

Year: 2012

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	0.25	0.13	0.06	0.04	0.07	x	0.07	x	0.11	x	0.12	x	x	x	x	x				
2	0.13	x	0.12	x	x	x	x	x	0.12	x	0.12	x	x	x	x	x				
3	0.08	x	0.13	x	x	x	x	x	0.11	x	0.12	x	x	x	x	x				
4	0.05	x	0.05	x	x	x	x	x	0.06	x	0.07	x	0.10	0.07	0.11	0.09				
5	0.04	x	0.03	x	0.14	0.07	0.13	0.07	x	x	x	x	0.06	x	0.06	x				
6	x	x	x	x	0.07	x	0.06	x	x	x	x	x	0.06	x	0.07	x				
7	x	x	x	x	0.32	x	0.27	x	0.23	0.09	0.21	0.09	0.07	x	0.08	x				
8	0.10	0.07	0.11	0.07	0.09	x	0.09	x	0.16	x	0.16	x	0.25	0.07	0.22	0.08				
9	0.07	x	0.07	x	x	x	x	x	x	x	x	x	0.07	x	0.07	x				
10	0.05	x	0.05	x	0.12	0.08	0.11	0.07	x	x	x	x	0.06	x	0.07	x				
11	0.04	x	0.04	x	0.08	x	0.06	x	0.09	0.07	0.08	0.07	0.10	0.07	0.11	0.08				
12	x	x	x	x	0.07	x	0.06	x	0.07	x	0.07	x	0.07	x	0.08	x				
13	0.08	0.04	0.10	0.04	0.05	x	0.04	x	0.09	x	0.10	x	0.05	x	0.05	x				
14	0.04	x	0.04	x	0.05	x	0.04	x	0.21	x	0.27	x	0.06	x	0.05	x				
15	0.03	x	0.03	x	0.11	0.06	0.09	0.05	0.17	0.06	0.13	0.06	0.07	x	0.05	x				
16	0.04	x	0.04	x	0.06	x	0.05	x	0.05	x	0.06	x	0.06	0.05	0.06	0.06				
17	x	x	x	x	0.06	x	0.05	x	0.06	x	0.06	x	0.06	x	0.07	x				
18	x	x	x	x	0.06	x	0.05	x	x	x	x	x	0.05	x	0.06	x				
19	0.15	0.07	0.17	0.08	x	x	x	x	0.14	0.09	0.12	0.09	0.06	x	0.06	x				
20	0.07	x	0.07	x	0.19	0.10	0.16	0.10	0.10	x	0.09	x	0.07	x	0.07	x				
21	0.05	x	0.05	x	0.07	x	0.05	x	0.07	x	0.06	x	x	x	x	x				
22	x	x	x	x	0.05	x	0.04	x	0.07	x	0.07	x	0.13	0.07	0.13	0.07				
23	0.19	0.10	0.10	0.06	0.05	x	0.04	x	0.25	0.12	0.25	0.11	0.08	x	0.08	x				
24	0.09	x	0.05	x	x	x	x	x	0.09	x	0.07	x	0.05	x	0.06	x				
25	0.06	x	0.04	x	x	x	x	x	0.10	x	0.08	x	x	x	x	x				
26	0.05	x	0.05	x	0.19	0.06	0.18	0.05	0.26	0.09	0.44	0.08	0.15	0.05	0.14	0.06				
27	x	x	x	x	0.07	x	0.06	x	0.09	x	0.08	x	0.06	x	0.07	x				
28	0.13	0.12	0.09	0.08	0.05	x	0.04	x	0.06	x	0.06	x	x	x	x	x				
29	0.12	x	0.08	x	0.09	0.07	0.08	0.05	0.06	x	0.05	x	0.07	0.04	0.08	0.05				
30	0.09	x	0.06	x	0.06	x	0.05	x	x	x	x	x	0.04	x	0.05	x				
31	0.07	x	0.05	x	x	x	x	x	x	x	x	x	0.04	x	0.04	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	0	0	0	0	0	
	Number of days with event(s) above 1.0 NTU this month	0	0	0	0	0	0	0	0	0	0	
	Number of days with event(s) above 1.0 NTU last month	0	0	0	0	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	0	0	0	0	
	Total number of days with event(s) above 1.0 NTU in three months	0	0	0	0	0	0	0	0	0	0	
	Number of days with event(s) above 2.0 NTU this month											0
	Number of days with event(s) above 2.0 NTU last month											0
	Does the filter/plant have an approved Corrective Action Plan?	N	N	N	N	N	N	N	N	N	N	N
	Is the plant required to submit a Filter Profile Report?	N	N	N	N	N	N	N	N	N	N	
	Is the plant required to submit a Filter Assessment Report?	N	N	N	N	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, AW

Date: February 10, 2012

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 1961

PWS ID No.: 2430001

Month: January Year: 2012

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)	32.000	32.000	32.000	15.900	15.900	0.5	2.0
T ₁₀ (minutes)	1.3	1.6	14.2	118.0	27.0		

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	NA D1								
	NA D2								
	CLO2 D3	0.2	8.000	10.2	8.5	2.65	8.05	4.03	
	CLA D4	4.6	16.000	11.4	8.8			(V)	
	CLA D5	2.5	10.000	11.6	8.7				
2	NA D1								
	NA D2								
	CLO2 D3	0.3	8.000	10.3	8.3	3.20	10.19	5.10	
	CLA D4	4.4	16.000	10.2	9.1			(V)	
	CLA D5	3.0	10.000	10.4	9.3				
3	NA D1								
	NA D2								
	CLO2 D3	0.3	8.000	9.7	8.3	3.09	9.54	4.77	
	CLA D4	4.6	16.000	9.4	8.0			(V)	
	CLA D5	3.0	10.000	9.4	8.8				
4	NA D1								
	NA D2								
	CLO2 D3	0.2	8.000	10.6	8.4	2.87	8.72	4.36	
	CLA D4	5.3	16.000	10.9	9.2			(V)	
	CLA D5	2.5	10.000	11.5	8.7				
5	NA D1								
	NA D2								
	CLO2 D3	0.3	8.000	9.1	8.5	3.49	10.77	5.38	
	CLA D4	4.9	16.000	10.2	9.3			(V)	
	CLA D5	2.7	10.000	10.6	9.1				
6	NA D1								
	NA D2								
	CLO2 D3	0.3	8.000	9.5	8.4	3.13	9.64	4.82	
	CLA D4	4.7	16.000	10.7	8.6			(V)	
	CLA D5	2.7	10.000	10.9	8.8				
7	NA D1								
	NA D2								
	CLO2 D3	0.3	12.000	10.5	8.4	2.75	8.11	4.06	
	CLA D4	4.3	12.000	11.8	8.4			(V)	
	CLA D5	3.2	13.800	11.6	8.7				
8	NA D1								
	NA D2								
	CLO2 D3	0.2	8.000	9.7	8.3	2.13	6.18	3.09	
	CLA D4	4.1	16.000	10.7	9.4			(V)	
	CLA D5	2.5	10.000	11.5	9.1				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	NA D1								
	NA D2								
	CLO2 D3	0.3	8.000	9.2	8.4	3.53	11.16	5.58	
	CLA D4	4.2	16.000	10.4	8.2			(V)	
	CLA D5	2.9	10.000	11.6	8.9				
10	NA D1								
	NA D2								
	CLO2 D3	0.4	12.000	9.3	8.5	2.99	8.83	4.42	
	CLA D4	4.3	12.000	10.7	8.4			(V)	
	CLA D5	2.8	16.000	10.8	9.1				
11	NA D1								
	NA D2								
	CLO2 D3	0.3	12.000	8.5	8.5	2.51	7.12	3.56	
	CLA D4	4.0	12.000	9.5	8.4			(V)	
	CLA D5	2.6	16.000	9.9	9.0				
12	NA D1								
	NA D2								
	CLO2 D3	0.4	12.000	8.9	8.6	2.81	8.18	4.09	
	CLA D4	4.1	12.000	7.9	8.8			(V)	
	CLA D5	3.1	16.000	10.2	9.2				
13	NA D1								
	NA D2								
	CLO2 D3	0.3	14.000	8.0	8.6	2.58	7.08	3.54	
	CLA D4	5.1	14.000	8.9	8.8			(V)	
	CLA D5	3.3	18.000	9.1	9.2				
14	NA D1								
	NA D2								
	CLO2 D3	0.3	14.000	10.2	8.8	2.52	7.14	3.57	
	CLA D4	5.1	14.000	8.8	9.1			(V)	
	CLA D5	4.1	16.000	9.2	9.3				
15	NA D1								
	NA D2								
	CLO2 D3	0.4	12.000	9.3	8.6	4.01	10.82	5.41	
	CLA D4	5.2	8.000	9.5	9.3			(V)	
	CLA D5	3.8	10.000	9.3	9.0				
16	NA D1								
	NA D2								
	CLO2 D3	0.2	12.000	11.6	8.5	2.76	8.18	4.09	
	CLA D4	4.4	12.000	12.4	8.4			(V)	
	CLA D5	4.0	14.000	12.5	8.9				

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: WO0023530, AW

Date: February 10, 2012

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 1961

PWS ID No.:

2430001

Month:

January

Year: 2012

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)	32.000	32.000	32.000	15.900	15.900	0.5	2.0
T ₁₀ (minutes)	1.3	1.6	14.2	118.0	27.0		

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
17	NA D1								
	NA D2								
	CLO2 D3	0.5	16.000	11.9	8.6	3.63	11.53	5.76	
	CLA D4	4.7	12.000	13.2	8.8			(V)	
	CLA D5	3.8	14.000	13.5	9.1				
18	NA D1								
	NA D2								
	CLO2 D3	0.4	12.000	10.0	8.6	3.99	11.73	5.86	
	CLA D4	4.1	8.000	11.0	8.8			(V)	
	CLA D5	3.0	10.000	11.2	9.1				
19	NA D1								
	NA D2								
	CLO2 D3	0.5	16.000	10.5	8.3	3.01	9.33	4.67	
	CLA D4	3.9	12.000	10.1	7.4			(V)	
	CLA D5	3.1	14.000	10.4	8.9				
20	NA D1								
	NA D2								
	CLO2 D3	0.5	16.000	10.5	8.3	2.97	9.22	4.61	
	CLA D4	3.7	12.000	11.7	7.6			(V)	
	CLA D5	3.3	14.000	11.9	8.9				
21	NA D1								
	NA D2								
	CLO2 D3	0.5	16.000	10.2	8.5	2.67	8.41	4.21	
	CLA D4	3.0	12.000	7.8	9.1			(V)	
	CLA D5	2.8	14.000	8.1	9.0				
22	NA D1								
	NA D2								
	CLO2 D3	0.5	12.000	9.9	8.4	4.65	13.51	6.76	
	CLA D4	5.1	8.000	8.1	9.3			(V)	
	CLA D5	3.1	10.000	8.0	8.4				
23	NA D1								
	NA D2								
	CLO2 D3	0.5	16.000	11.1	8.4	3.38	10.30	5.15	
	CLA D4	5.0	12.000	12.0	9.3			(V)	
	CLA D5	3.3	14.000	11.4	8.7				
24	NA D1								
	NA D2								
	CLO2 D3	0.5	16.000	9.8	8.4	3.24	9.52	4.76	
	CLA D4	4.7	12.000	10.7	8.0			(V)	
	CLA D5	4.4	14.000	10.6	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	NA D1								
	NA D2								
	CLO2 D3	0.5	12.000	10.8	8.4	4.77	14.26	7.13	
	CLA D4	4.9	8.000	10.7	9.0			(V)	
	CLA D5	3.8	10.000	11.0	8.9				
26	NA D1								
	NA D2								
	CLO2 D3	0.6	16.000	10.7	8.5	3.70	11.37	5.69	
	CLA D4	5.1	12.000	11.1	9.4			(V)	
	CLA D5	3.7	14.000	11.9	9.0				
27	NA D1								
	NA D2								
	CLO2 D3	0.6	14.000	10.6	8.6	4.48	14.01	7.01	
	CLA D4	4.6	10.000	10.6	7.9			(V)	
	CLA D5	4.1	12.000	10.5	9.0				
28	NA D1								
	NA D2								
	CLO2 D3	0.4	12.000	11.4	8.5	3.30	10.51	5.26	
	CLA D4	4.1	12.000	11.0	8.4			(V)	
	CLA D5	3.7	14.000	11.1	8.8				
29	NA D1								
	NA D2								
	CLO2 D3	0.3	16.000	10.4	8.4	2.47	6.74	3.37	
	CLA D4	4.7	12.000	8.7	9.4			(V)	
	CLA D5	4.3	14.000	11.1	8.9				
30	NA D1								
	NA D2								
	CLO2 D3	0.3	16.000	11.6	8.3	2.82	8.03	4.02	
	CLA D4	5.2	12.000	10.9	9.1			(V)	
	CLA D5	4.2	14.000	11.5	9.0				
31	NA D1								
	NA D2								
	CLO2 D3	0.3	12.000	11.4	8.5	4.07	11.96	5.98	
	CLA D4	4.5	8.000	13.1	8.6			(V)	
	CLA D5	3.7	10.000	12.5	9.0				
						Max	4.77	14.26	
						Min	2.13	6.18	
						Avg	3.23	9.68	
						SD	0.66	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:

[Signature]

Certificate No.
and Grade:

WO0023530, AW

Date: February 10, 2012

MAR-12 12 14:05

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

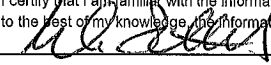
SYSTEM NAME: City of Wichita Falls

PLANT NAME

OR NUMBER: Cypress 1961

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.: 2430001

Operator's Signature: 

Report for

the Month of: February 2012

Certificate No. & Grade: WO0023530, AW

Date: March 10, 2012

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	48	Number of 4-hour periods when plant was off-line:	126
Number of readings above 0.10 NTU:	0	Number of 4-hour periods when plant was on-line but turbidity data was not collected:	0
Number of readings above 0.3 NTU:	0	Number of days when plant was on-line but individual filter turbidity data was not collected:	0
Number of readings above 0.5 NTU:	0	Number of days with readings above 1.0 NTU:	0 (2)
Number of readings above 1.0 NTU:	0	Number of days with readings above 5.0 NTU:	0 (3)
Maximum allowable turbidity level:	0.3		
Percentage of readings above this limit:	0.0 % (1)		
Statistical Summary	Maximum turbidity reading: 0.09 NTU	Average turbidity value:	0.06 NTU
	Minimum turbidity reading: 0.05 NTU	Standard deviation:	0.008 NTU
	CFE 95 th percentile value: 0.08 NTU	IFE 95 th percentile:	0.295 NTU
Number of days with a low CT for no more than 4.0 consecutive hours:	0	Average log inactivation for Giardia:	3.83
Number of days with a low CT for more than 4.0 consecutive hours:	0 (4)	Average log inactivation for viruses:	12.01
		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:	114 (at least 100 required) (8)
Average disinfectant residual value:	4.16
Percentage of readings with a low residual this month:	0.0 % (6A)
Number of readings with a low residual:	0
Percentage of readings with a low residual last month:	0.0 % (6B)
Number of readings with no detectable residual:	0

ADDITIONAL REPORTS & WORKSHEETS

The Page 1 Addendum (Public Notices) is not required because there were no treatment technique or monitoring/reporting violations reported.

Additional report(s) for individual filter monitoring required: ☒ NONE ☐ Filter Profile ☐ Filter Assessment ☐ CPE

Additional report(s) for individual filter monitoring submitted: ☒ NONE ☐ Filter Profile (9) ☐ Filter Assessment (10) ☐ CPE (11)

No additional IFE Reports are required this month.

SURFACE WATER MONTHLY OPERATING REPORT
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

SURFACE WATER MONTHLY OPERATING REPORT

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

Turbidity Data Page

PUBLIC WATER SYSTEM NAME: City of Wichita Falls PLANT NAME OR NUMBER: Cypress 1961

PWS ID No.: 2430001 Connections: 34,540

Month: February Year: 2012 Population: _____

PERFORMANCE DATA																		
Date	Raw Water Pumpage (MGD)	Treated Water Pumpage (MGD)	RAW WATER ANALYSES		SETTLED WATER TURBIDITY (Optional Data)						FINISHED WATER QUALITY							
											Turbidity						Lowest Residual	Time
			NTU	Alk.	Basin No.						NTU1	NTU2	NTU3	NTU4	NTU5	NTU6		
					1	2	3	4	5	6								
1	12.000	15.720	68	14							0.08	0.07	0.07	0.06	0.06	0.06	3.4	
2	10.333	15.166	67	166							0.06	0.06	0.06	0.06	0.06	0.06	3.5	
3	10.000	16.381	62	163							0.05	0.07	0.07	0.06	0.06	0.07	3.3	
4	11.250	18.939	56	153							0.06	0.07	0.07	0.06	0.06	0.06	3.6	
5	14.000	19.730	50	139							0.06	0.07	0.08	0.07	0.07	0.07	3.8	
6	10.750	12.603	66	161							0.07	0.07	0.06	0.06	0.05	0.06	3.1	
7	5.333	9.220	60	158							0.07	0.06	0.07	0.08	0.06	0.05	3.0	
8	2.667	8.472	47	155							0.09	0.07	0.07	0.06	0.05	0.06	3.2	
9	0.000	8.539	X	X	X	X					X	X	X	X	X	X	3.5	
10	0.000	7.855	X	X	X	X					X	X	X	X	X	X	3.6	
11	0.000	5.976	X	X	X	X					X	X	X	X	X	X	2.9	
12	0.000	7.157	X	X	X	X					X	X	X	X	X	X	2.8	
13	0.000	2.070	X	X	X	X					X	X	X	X	X	X	3.0	
14	0.000	0.000	X	X	X	X					X	X	X	X	X	X	X	
15	0.000	0.000	X	X	X	X					X	X	X	X	X	X	X	
16	0.000	0.000	X	X	X	X					X	X	X	X	X	X	X	
17	0.000	3.954	X	X	X	X					X	X	X	X	X	X	3.0	
18	0.000	0.000	X	X	X	X					X	X	X	X	X	X	X	
19	0.000	0.000	X	X	X	X					X	X	X	X	X	X	X	
20	0.000	0.000	X	X	X	X					X	X	X	X	X	X	X	
21	0.000	4.006	X	X	X	X					X	X	X	X	X	X	3.2	
22	0.000	6.640	X	X	X	X					X	X	X	X	X	X	2.9	
23	0.000	8.707	X	X	X	X					X	X	X	X	X	X	3.1	
24	0.000	7.841	X	X	X	X					X	X	X	X	X	X	2.5	
25	0.000	8.256	X	X	X	X					X	X	X	X	X	X	3.1	
26	0.000	7.622	X	X	X	X					X	X	X	X	X	X	3.0	
27	0.000	7.241	X	X	X	X					X	X	X	X	X	X	2.9	
28	0.000	7.986	X	X	X	X					X	X	X	X	X	X	2.7	
29	0.000	7.045	X	X	X	X					X	X	X	X	X	X	3.0	
30																		
31																		
Total	76.333	217.126	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.															
Avg	2.632	7.487																
Max	14.000	19.730																
Min	0.000	0.000																

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, AW

Date: March 10, 2012

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 1961

PWS ID No.: 2430001

Month:

February

Year:

2012

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	0.09	0.05	0.11	0.07	0.13	x	0.13	x	0.15	0.06	0.12	0.06	0.04	x	0.04	x				
2	0.05	x	0.06	x	0.06	x	0.04	x	0.05	x	0.05	x	x	x	x	x				
3	0.04	x	0.05	x	0.05	x	0.04	x	0.05	x	0.05	x	x	x	x	x				
4	0.04	x	0.05	x	0.29	0.08	0.30	0.06	0.26	0.10	0.05	0.04	0.08	0.05	0.08	0.05				
5	0.32	0.06	0.33	0.08	0.07	x	0.05	x	0.10	x	0.04	x	0.06	x	0.06	x				
6	0.05	x	0.06	x	0.06	x	0.05	x	0.09	x	0.05	x	0.05	x	0.05	x				
7	0.04	0.03	0.20	0.05	0.05	x	0.04	x	0.08	x	0.04	x	x	x	x	x				
8	0.03	x	0.05	x	x	x	x	x	x	x	x	x	x	x	x	x				
9	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
10	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
11	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
12	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
13	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
14	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
15	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
16	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
17	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
18	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
19	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
20	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
21	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
22	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
23	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
24	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
25	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
26	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
27	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
28	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
29	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
30																				
31																				

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	0	0	0	0	0		
	Number of days with event(s) above 1.0 NTU this month	0	0	0	0	0	0	0	0	0	0		
	Number of days with event(s) above 1.0 NTU last month	0	0	0	0	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	0	0	0	0		
	Total number of days with event(s) above 1.0 NTU in three months	0	0	0	0	0	0	0	0	0	0		
	Number of days with event(s) above 2.0 NTU this month											0	
	Number of days with event(s) above 2.0 NTU last month											0	
	Does the filter/plant have an approved Corrective Action Plan?	N	N	N	N	N	N	N	N	N	N		N
	Is the plant required to submit a Filter Profile Report?	N	N	N	N	N	N	N	N	N	N		
	Is the plant required to submit a Filter Assessment Report?	N	N	N	N	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, AW

Date:

March 10, 2012

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
PWS ID No.: 2430001

PLANT NAME OR NUMBER: Cypress 1961
Month: February Year: 2012

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)	32.000	32.000	32.000	15.900	15.900	0.5	2.0
T ₁₀ (minutes)	1.3	1.6	14.2	118.0	27.0		

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	NA D1								
	NA D2								
	CLO2 D3	0.4	16.000	11.6	8.5	3.25	10.03	5.02	
	CLA D4	4.6	12.000	13.3	9.2			(M)	
	CLA D5	3.9	14.000	12.8	8.7				
2	NA D1								
	NA D2								
	CLO2 D3	0.5	16.000	11.5	8.4	3.50	10.98	5.49	
	CLA D4	4.6	12.000	13.5	8.4			(M)	
	CLA D5	3.9	14.000	12.6	9.2				
3	NA D1								
	NA D2								
	CLO2 D3	0.4	14.000	14.5	8.4	4.06	13.56	6.78	
	CLA D4	4.4	10.000	13.4	9.0			(M)	
	CLA D5	3.8	12.000	16.1	9.2				
4	NA D1								
	NA D2								
	CLO2 D3	0.5	16.000	13.8	8.4	3.80	12.84	6.42	
	CLA D4	4.6	12.000	11.8	8.6			(M)	
	CLA D5	4.0	14.000	11.9	9.0				
5	NA D1								
	NA D2								
	CLO2 D3	0.5	17.000	11.9	8.4	3.05	9.60	4.80	
	CLA D4	4.8	14.000	11.3	8.1			(M)	
	CLA D5	4.2	15.800	14.0	9.0				
6	NA D1								
	NA D2								
	CLO2 D3	0.5	18.000	11.0	8.4	3.00	9.29	4.65	
	CLA D4	4.6	14.000	11.9	8.1			(M)	
	CLA D5	4.3	16.000	11.3	9.2				
7	NA D1								
	NA D2								
	CLO2 D3	0.4	8.000	11.5	8.4	5.04	15.92	7.96	
	CLA D4	4.5	8.000	12.8	7.7			(M)	
	CLA D5	2.8	10.000	12.5	8.8				
8	NA D1								
	NA D2								
	CLO2 D3	0.2	8.000	11.7	8.6	4.89	13.88	6.94	
	CLA D4	5.8	8.000	12.2	8.6			(M)	
	CLA D5	3.9	6.000	12.1	8.7				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
10	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
11	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
12	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
13	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
14	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
15	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
16	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								

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

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
PWS ID No.: 2430001

PLANT NAME
OR NUMBER: Cypress 1961
Month: February Year: 2012

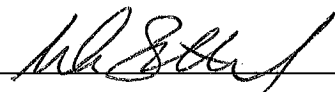
DISINFECTION PROCESS PARAMETERS									
APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS			
Parameters	Disinfection Zones					Log Inactivations			
	D1	D2	D3	D4	D5	Giardia lamblia Cysts		Virus	
Flow Rate (MGD)	32.000	32.000	32.000	15.900	15.900	0.5		2.0	
T ₁₀ (minutes)	1.3	1.6	14.2	118.0	27.0				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
17	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
18	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
19	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
20	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
21	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
22	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
23	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
24	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
25	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
26	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
27	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
28	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
29	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
30	D1								
	D2								
	D3								
	D4								
	D5								
31	D1								
	D2								
	D3								
	D4								
	D5								
						Max	5.04	15.92	
						Min	3.00	9.29	
						Avg	3.83	12.01	
						SD	0.74	2.24	

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, AW

Date: March 10, 2012

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 1961

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.: 2430001

Operator's Signature: [Signature]

Report for

the Month of: March 2012

Certificate No. & Grade: WO0023530, AW

Date: April 10, 2012

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings: <u>0</u>	Number of 4-hour periods when plant was off-line: <u>186</u>
Number of readings above 0.10 NTU: <u>0</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>NA</u> % (1)	

Statistical Summary	Maximum turbidity reading: <u>NA</u> NTU Minimum turbidity reading: <u>NA</u> NTU CFE 95 th percentile value: <u>NA</u> NTU	Average turbidity value: <u>NA</u> NTU Standard deviation: <u>NA</u> NTU IFE 95 th percentile: <u>NA</u> NTU
---------------------	--	---

Number of days with a low CT for no more than 4.0 consecutive hours: <u>0</u> Number of days with a low CT for more than 4.0 consecutive hours: <u>0</u> (4)	Average log inactivation for Giardia: <u>NA</u> Average log inactivation for viruses: <u>NA</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: <u>0.5</u> 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 with a low residual for more than 4.0 consecutive hours: <u>0</u> (5)	Number of days when disinfectant residual leaving the plant was not properly monitored: <u>0</u>
--	--

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>115</u> (at least 100 required) (8)	Percentage of readings with a low residual this month: <u>0.0</u> % (6A)
Average disinfectant residual value: <u>3.98</u>	Percentage of readings with a low residual last month: <u>0.0</u> % (6B)
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.

SURFACE WATER MONTHLY OPERATING REPORT
 TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
 WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
 P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

SURFACE WATER MONTHLY OPERATING REPORT

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

Turbidity Data Page

PUBLIC WATER SYSTEM NAME: City of Wichita Falls PLANT NAME OR NUMBER: Cypress 1961

PWS ID No.: 2430001 Connections: 34,599

Month: March Year: 2012 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.						Turbidity						Lowest Residual	Time	
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6			
1	0.000	7.362	X	X	X	X						X	X	X	X	X	X	3.3	
2	0.000	7.790	X	X	X	X						X	X	X	X	X	X	3.2	
3	0.000	7.349	X	X	X	X						X	X	X	X	X	X	3.0	
4	0.000	8.055	X	X	X	X						X	X	X	X	X	X	3.1	
5	0.000	8.041	X	X	X	X						X	X	X	X	X	X	3.1	
6	0.000	7.427	X	X	X	X						X	X	X	X	X	X	3.2	
7	0.000	7.576	X	X	X	X						X	X	X	X	X	X	3.4	
8	0.000	7.241	X	X	X	X						X	X	X	X	X	X	3.4	
9	0.000	7.711	X	X	X	X						X	X	X	X	X	X	3.4	
10	0.000	8.362	X	X	X	X						X	X	X	X	X	X	3.3	
11	0.000	7.094	X	X	X	X						X	X	X	X	X	X	3.4	
12	0.000	8.157	X	X	X	X						X	X	X	X	X	X	3.6	
13	0.000	7.412	X	X	X	X						X	X	X	X	X	X	3.7	
14	0.000	6.288	X	X	X	X						X	X	X	X	X	X	3.5	
15	0.000	7.258	X	X	X	X						X	X	X	X	X	X	3.5	
16	0.000	7.734	X	X	X	X						X	X	X	X	X	X	3.5	
17	0.000	7.342	X	X	X	X						X	X	X	X	X	X	3.5	
18	0.000	7.799	X	X	X	X						X	X	X	X	X	X	3.3	
19	0.000	7.613	X	X	X	X						X	X	X	X	X	X	3.3	
20	0.000	8.843	X	X	X	X						X	X	X	X	X	X	3.1	
21	0.000	8.172	X	X	X	X						X	X	X	X	X	X	3.3	
22	0.000	7.622	X	X	X	X						X	X	X	X	X	X	3.3	
23	0.000	8.023	X	X	X	X						X	X	X	X	X	X	3.4	
24	0.000	7.883	X	X	X	X						X	X	X	X	X	X	3.1	
25	0.000	8.311	X	X	X	X						X	X	X	X	X	X	3.1	
26	0.000	7.613	X	X	X	X						X	X	X	X	X	X	3.0	
27	0.000	8.995	X	X	X	X						X	X	X	X	X	X	3.0	
28	0.000	8.159	X	X	X	X						X	X	X	X	X	X	3.2	
29	0.000	6.924	X	X	X	X						X	X	X	X	X	X	2.9	
30	0.000	7.776	X	X	X	X						X	X	X	X	X	X	3.1	
31	0.000	9.196	X	X	X	X						X	X	X	X	X	X	2.9	
Total	0.000	241.128	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.																
Avg	0.000	7.778																	
Max	0.000	9.196																	
Min	0.000	6.288																	

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, AW Date: April 10, 2012

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

PWS ID No.: 2430001

PLANT NAME

OR NUMBER: Cypress 1961

Month:

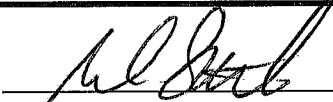
March

Year: 2012

PERFORMANCE DATA																				
Date	INDIVIDUAL FILTER TURBIDITY																			
	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	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	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	0	0	0			
	Number of days with event(s) above 1.0 NTU this month	0	0	0	0	0	0	0	0			
	Number of days with event(s) above 1.0 NTU last month	0	0	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	0	0			
	Total number of days with event(s) above 1.0 NTU in three months	0	0	0	0	0	0	0	0			
	Number of days with event(s) above 2.0 NTU this month											0
	Number of days with event(s) above 2.0 NTU last month											0
	Does the filter/plant have an approved Corrective Action Plan?	N	N	N	N	N	N	N	N			N
	Is the plant required to submit a Filter Profile Report?	N	N	N	N	N	N	N	N			
	Is the plant required to submit a Filter Assessment Report?	N	N	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, AW

Date: April 10, 2012

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 1961

PWS ID No.:

2430001

Month:

March

Year:

2012

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)	NA	NA	NA	NA	NA	NA	NA
T ₁₀ (minutes)	NA	NA	NA	NA	NA		

PERFORMANCE DATA

Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time (min)
1	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
2	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
3	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
4	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
5	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
6	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
7	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
8	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								

PERFORMANCE DATA

Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time (min)
9	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
10	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
11	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
12	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
13	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
14	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
15	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
16	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								

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:

WO0023630, AW

Date: April 10, 2012

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 1961

PWS ID No.:

2430001

Month:

March

Year: 2012

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)	NA	NA	NA	NA	NA	NA	NA
T ₁₀ (minutes)	NA	NA	NA	NA	NA		

PERFORMANCE DATA

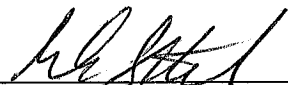
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
17	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
18	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
19	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
20	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
21	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
22	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
23	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
24	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
25	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
26	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
27	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
28	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
29	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
30	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
31	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
						Max	NA	NA	
						Min	NA	NA	
						Avg	NA	NA	
						SD	NA	NA	

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:

WO0023530, AW

Date: April 10, 2012

MAY-14 '12 16:21

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

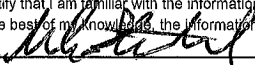
PUBLIC WATER

SYSTEM NAME: City of Wichita Falls

PLANT NAME

OR NUMBER: Cypress 1961

PWS ID No.: 2430001

Operator's Signature: 

Report for

the Month of: April 2012

Certificate No. & Grade: WO0023530, AW

Date: May 10, 2012

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:	42	Number of 4-hour periods when plant was off-line:	138
Number of readings above 0.10 NTU:	18	Number of 4-hour periods when plant was on-line but turbidity data was not collected:	0
Number of readings above 0.3 NTU:	0	Number of days when plant was on-line but individual filter turbidity data was not collected:	0
Number of readings above 0.5 NTU:	0	Number of days with readings above 1.0 NTU:	0 (2)
Number of readings above 1.0 NTU:	0	Number of days with readings above 5.0 NTU:	0 (3)
Maximum allowable turbidity level:	0.3		
Percentage of readings above this limit:	0.0 % (1)		
Statistical Summary	Maximum turbidity reading: 0.14 NTU	Average turbidity value:	0.10 NTU
	Minimum turbidity reading: 0.07 NTU	Standard deviation:	0.015 NTU
	CFE 95 th percentile value: 0.13 NTU	IFE 95 th percentile:	0.247 NTU
Number of days with a low CT for no more than 4.0 consecutive hours:	0	Average log inactivation for Giardia:	3.23
Number of days with a low CT for more than 4.0 consecutive hours:	0 (4)	Average log inactivation for viruses:	10.57
		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:	114 (at least 100 required) (8)
Average disinfectant residual value:	3.60
Percentage of readings with a low residual this month:	0.0 % (6A)
Number of readings with a low residual:	0
Percentage of readings with a low residual last month:	0.0 % (6B)
Number of readings with no detectable residual:	0

ADDITIONAL REPORTS & WORKSHEETS

The Page 1 Addendum (Public Notices) is not required because there were no treatment technique or monitoring/reporting violations reported.

Additional report(s) for individual filter monitoring required: ☒ NONE ☐ Filter Profile ☐ Filter Assessment ☐ CPE

Additional report(s) for individual filter monitoring submitted: ☒ NONE ☐ Filter Profile (9) ☐ Filter Assessment (10) ☐ CPE (11)

No additional IFE Reports are required this month.

SURFACE WATER MONTHLY OPERATING REPORT
 TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
 WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
 P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

SURFACE WATER MONTHLY OPERATING REPORT

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

Turbidity Data Page

PUBLIC WATER
SYSTEM NAME: City of Wichita Falls

PLANT NAME
OR NUMBER: Cypress 1961

PWS ID No.: 2430001

Connections: 34,610

Month: April Year: 2012

Population: _____

PERFORMANCE DATA																		
Date	Raw Water Pumpage (MGD)	Treated Water Pumpage (MGD)	RAW WATER ANALYSES		SETTLED WATER TURBIDITY (Optional Data)						FINISHED WATER QUALITY							
											Turbidity						Lowest	Time
			NTU	Alk.	1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6	Residual	
1	0.000	7.832	X	X	X	X					X	X	X	X	X	X	2.7	
2	0.000	8.231	X	X	X	X					X	X	X	X	X	X	3.2	
3	0.000	7.072	X	X	X	X					X	X	X	X	X	X	3.2	
4	0.000	6.874	X	X	X	X					X	X	X	X	X	X	3.6	
5	0.000	7.218	X	X	X	X					X	X	X	X	X	X	3.3	
6	0.000	7.603	X	X	X	X					X	X	X	X	X	X	3.3	
7	0.000	7.590	X	X	X	X					X	X	X	X	X	X	3.1	
8	0.000	7.288	X	X	X	X					X	X	X	X	X	X	2.9	
9	0.000	7.875	X	X	X	X					X	X	X	X	X	X	2.7	
10	0.000	6.250	X	X	X	X					X	X	X	X	X	X	2.9	
11	0.000	8.203	X	X	X	X					X	X	X	X	X	X	2.7	
12	0.000	7.707	X	X	X	X					X	X	X	X	X	X	2.8	
13	0.000	8.362	X	X	X	X					X	X	X	X	X	X	3.0	
14	0.000	7.595	X	X	X	X					X	X	X	X	X	X	3.3	
15	0.000	7.753	X	X	X	X					X	X	X	X	X	X	3.1	
16	0.000	8.413	X	X	X	X					X	X	X	X	X	X	3.1	
17	0.000	7.986	X	X	X	X					X	X	X	X	X	X	3.1	
18	0.000	8.172	X	X	X	X					X	X	X	X	X	X	2.8	
19	0.000	8.754	X	X	X	X					X	X	X	X	X	X	2.8	
20	0.000	7.222	X	X	X	X					X	X	X	X	X	X	2.9	
21	0.000	8.483	X	X	X	X					X	X	X	X	X	X	3.0	
22	0.000	7.697	X	X	X	X					X	X	X	X	X	X	2.7	
23	0.000	8.073	X	X	X	X					X	X	X	X	X	X	3.0	
24	1.833	9.506	30	152							0.08	0.08	0.08	0.07	0.08	0.09	3.1	
25	7.500	11.460	29	162							0.11	0.14	0.11	0.12	0.10	0.10	3.1	
26	10.000	9.604	27	161							0.13	0.09	0.10	0.10	0.09	0.08	3.0	
27	10.000	10.013	24	159							0.11	0.10	0.08	0.08	0.10	0.10	3.3	
28	10.000	9.608	19	149							0.10	0.10	0.13	0.11	0.11	0.10	2.9	
29	8.500	11.168	18	155							0.11	0.10	0.12	0.12	0.11	0.11	3.2	
30	13.167	13.278	25	159							0.11	0.10	0.11	0.12	0.10	0.11	3.2	
31																		
Total	61.000	252.890	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.															
Avg	2.033	8.430																
Max	13.167	13.278																
Min	0.000	6.250																

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, AW

Date: May 10, 2012

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 1961

PWS ID No.: 2430001

Month:

April

Year: 2012

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	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
24	0.24	0.18	0.24	0.19	x	x	x	x	x	x	x	x	x	x	x	x				
25	0.24	0.06	0.24	0.04	0.06	0.04	0.07	0.05	0.13	0.10	0.11	0.08	x	x	x	x				
26	0.08	x	0.06	x	0.07	x	0.09	x	0.14	x	0.12	x	x	x	x	x				
27	0.08	x	0.07	x	0.08	x	0.10	x	0.18	x	0.17	x	0.24	0.22	0.20	0.19				
28	0.22	0.11	0.20	0.10	0.13	0.11	0.13	0.13	0.16	x	0.14	x	0.24	x	0.20	x				
29	0.16	x	0.13	x	0.17	x	0.25	x	x	x	x	x	0.11	x	0.09	x				
30	0.09	x	0.07	x	0.07	x	0.09	x	0.33	0.10	0.27	0.11	0.10	0.09	0.10	0.08				
31																				

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	0	0	0	0	0	
	Number of days with event(s) above 1.0 NTU this month	0	0	0	0	0	0	0	0	0	0	
	Number of days with event(s) above 1.0 NTU last month	0	0	0	0	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	0	0	0	0	
	Total number of days with event(s) above 1.0 NTU in three months	0	0	0	0	0	0	0	0	0	0	
	Number of days with event(s) above 2.0 NTU this month											0
	Number of days with event(s) above 2.0 NTU last month											0
	Does the filter/plant have an approved Corrective Action Plan?	N	N	N	N	N	N	N	N	N	N	N
	Is the plant required to submit a Filter Profile Report?	N	N	N	N	N	N	N	N	N	N	
	Is the plant required to submit a Filter Assessment Report?	N	N	N	N	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, AW

Date: May 10, 2012

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 1961

PWS ID No.: 2430001

Month: April

Year: 2012

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)	42.000	42.000	42.000	8.000	25.999	0.5	2.0
T ₁₀ (minutes)	1.0	1.2	13.8	142.7	1.8		

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
2	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
3	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
4	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
5	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
6	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
7	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
8	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
10	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
11	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
12	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
13	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
14	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
15	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
16	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								

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: WO0023530, AW

Date: May 10, 2012

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 1961

PWS ID No.: 2430001

Month: April

Year: 2012

DISINFECTION PROCESS PARAMETERS							
APPROVED CT STUDY PARAMETERS					PERFORMANCE STANDARDS		
Parameters	Disinfection Zones					Log Inactivations	
	D6A	D6B	D6C	D7	D8	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	36,400	6,759	8,840			0.5	2.0
T ₁₀ (minutes)	59.2	53.0	24.3				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
2	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
3	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
4	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
5	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
6	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
7	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
8	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
10	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
11	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
12	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
13	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
14	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
15	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
16	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								

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: WO0023530, AW

Date: May 10, 2012

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 1961

PWS ID No.:

2430001

Month:

April

Year: 2012

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)	42.000	42.000	42.000	8.000	25.999	0.5	2.0
T ₁₀ (minutes)	1.0	1.2	13.8	142.7	1.8		

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
17	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
18	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
19	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
20	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
21	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
22	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
23	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
24	NA D1								
	NA D2								
	CLO2 D3	0.2	12.000	21.2	8.3	4.48	14.85	7.43	
	CLA D4	2.3	4.000	23.7	9.4				
	CLA D5	3.6	4.000	22.0	8.7				

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
25	NA D1								
	NA D2								
	CLO2 D3	0.2	12.000	21.2	8.3	3.28	11.90	5.95	
	CLA D4	3.0	12.000	24.7	9.3				
	CLA D5	3.5	12.000	23.0	8.9				
26	NA D1								
	NA D2								
	CLO2 D3	0.2	10.000	21.8	8.5	3.85	14.37	7.19	
	CLA D4	3.5	10.000	22.6	9.2				
	CLA D5	3.4	10.000	22.2	9.3				
27	NA D1								
	NA D2								
	CLO2 D3	0.2	10.000	21.8	8.5	4.24	16.32	8.16	
	CLA D4	3.4	10.000	22.5	8.4				
	CLA D5	3.6	10.000	22.0	8.5				
28	NA D1								
	NA D2								
	NA D3					1.86	4.55	2.28	
	CLA D4	3.0	10.000	23.0	8.0				
	CLA D5	3.5	10.000	22.4	8.1				
29	NA D1								
	NA D2								
	NA D3					2.60	6.36	3.18	
	CLA D4	3.9	8.000	23.0	8.5				
	CLA D5	3.6	8.000	22.5	8.8				
30	NA D1								
	NA D2								
	NA D3					2.29	5.61	2.80	
	CLA D4	3.0	8.000	22.7	9.4				
	CLA D5	3.6	8.000	22.4	8.6				
31	D1								
	D2								
	D3								
	D4								
	D5								

Max	4.48	16.32
Min	1.86	4.55
Avg	3.23	10.57
SD	0.94	4.57

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:

WO0023530, AW

Date: May 10, 2012

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
PWS ID No.: 2430001

PLANT NAME
OR NUMBER: Cypress 1961
Month: April Year: 2012

DISINFECTION PROCESS PARAMETERS							
APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
Parameters	Disinfection Zones					Log Inactivations	
	D6A	D6B	D6C	D7	D8	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	36.400	6.759	8.840			0.5	2.0
T ₁₀ (minutes)	59.2	53.0	24.3				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
17	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
18	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
19	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
20	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
21	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
22	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
23	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
24	NA D6A								
	CLA D6B	3.4	7.500	21.0	8.8				
	CLA D6C	3.4	4.500	21.0	8.8				
	D7								
	D8								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
25	NA D6A								
	CLA D6B	3.5	7.500	23.4	8.9				
	CLA D6C	3.5	4.500	23.4	8.9				
	D7								
	D8								
26	NA D6A								
	CLA D6B	3.2	6.250	21.6	9.2				
	CLA D6C	3.2	3.750	21.6	9.2				
	D7								
	D8								
27	NA D6A								
	CLA D6B	3.4	6.250	21.8	9.3				
	CLA D6C	3.4	3.750	21.8	9.3				
	D7								
	D8								
28	NA D6A								
	CLA D6B	3.7	6.250	22.3	8.0				
	CLA D6C	3.7	3.750	22.3	8.0				
	D7								
	D8								
29	NA D6A								
	CLA D6B	3.0	5.000	22.4	8.4				
	CLA D6C	3.0	3.000	22.4	8.4				
	D7								
	D8								
30	NA D6A								
	CLA D6B	3.7	5.000	22.2	8.8				
	CLA D6C	3.7	3.000	22.2	8.8				
	D7								
	D8								
31	D6A								
	D6B								
	D6C								
	D7								
	D8								

Max
Min
Avg
SD

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

JUN-15 '12

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 1961

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.: 2430001

Operator's Signature:

Report for

the Month of: May 2012

Certificate No. & Grade: WO0023530, AW

Date: June 10, 2012

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	186	Number of 4-hour periods when plant was off-line:	0
Number of readings above 0.10 NTU:	12	Number of 4-hour periods when plant was on-line	
Number of readings above 0.3 NTU:	0	but turbidity data was not collected:	0
Number of readings above 0.5 NTU:	0	Number of days when plant was on-line	
Number of readings above 1.0 NTU:	0	but individual filter turbidity data was not collected:	0
Maximum allowable turbidity level:	0.3	Number of days with readings above 1.0 NTU:	0 (2)
Percentage of readings above this limit:	0.0 % (1)	Number of days with readings above 5.0 NTU:	0 (3)
Statistical Summary	Maximum turbidity reading: 0.19 NTU	Average turbidity value:	0.09 NTU
	Minimum turbidity reading: 0.06 NTU	Standard deviation:	0.022 NTU
	CFE 95 th percentile value: 0.12 NTU	IFE 95 th percentile:	0.212 NTU
Number of days with a low CT		Average log inactivation for Giardia:	2.81
for no more than 4.0 consecutive hours:	0	Average log inactivation for viruses:	6.83
Number of days with a low CT		Number of days when profiling data was not collected:	0
for more than 4.0 consecutive hours:	0 (4)	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		Number of days when disinfectant residual	
for more than 4.0 consecutive hours:	0 (5)	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:	114 (at least 100 required) (8)
Average disinfectant residual value:	3.70
Percentage of readings with a low residual this month:	0.0 % (6A)
Number of readings with a low residual:	0
Percentage of readings with a low residual last month:	0.0 % (6B)
Number of readings with no detectable residual:	0

ADDITIONAL REPORTS & WORKSHEETS

The Page 1 Addendum (Public Notices) is not required because there were no treatment technique or monitoring/reporting violations reported.

Additional report(s) for individual filter monitoring required: ☒ NONE ☐ Filter Profile ☐ Filter Assessment ☐ CPE

Additional report(s) for individual filter monitoring submitted: ☒ NONE ☐ Filter Profile (9) ☐ Filter Assessment (10) ☐ CPE (11)

No additional IFE Reports are required this month.

SURFACE WATER MONTHLY OPERATING REPORT
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

SURFACE WATER MONTHLY OPERATING REPORT

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

Turbidity Data Page

PUBLIC WATER
SYSTEM NAME:

City of Wichita Falls

PLANT NAME
OR NUMBER:

Cypress 1961

PWS ID No.:

2430001

Connections:

34,707

Month:

May

Year: 2012

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.						Turbidity						Lowest Residual	Time
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6		
1	13.333	18.766	23	154							0.17	0.10	0.18	0.19	0.18	0.08	3.1	
2	11.750	15.934	25	159							0.08	0.08	0.09	0.10	0.10	0.16	3.4	
3	9.833	16.402	18	160							0.14	0.13	0.19	0.10	0.08	0.09	2.8	
4	4.000	12.112	25	158							0.08	0.08	0.09	0.09	0.09	0.10	2.9	
5	4.000	12.107	22	133							0.12	0.10	0.09	0.10	0.16	0.10	2.9	
6	4.000	12.517	20	137							0.11	0.10	0.10	0.10	0.08	0.08	3.3	
7	8.250	12.523	24	165							0.08	0.07	0.07	0.07	0.08	0.08	3.1	
8	14.000	13.361	29	160							0.08	0.09	0.10	0.08	0.09	0.09	2.9	
9	11.000	15.899	31	157							0.09	0.07	0.09	0.08	0.08	0.08	2.5	
10	13.083	12.578	29	162							0.08	0.06	0.07	0.07	0.06	0.07	2.6	
11	11.417	10.382	29	164							0.06	0.10	0.08	0.07	0.07	0.07	3.0	
12	6.000	8.980	30	118							0.08	0.08	0.07	0.07	0.08	0.07	3.0	
13	6.000	10.304	35	138							0.09	0.07	0.08	0.07	0.07	0.07	3.1	
14	7.833	12.732	33	162							0.08	0.08	0.07	0.07	0.06	0.09	3.1	
15	11.000	8.649	29	164							0.08	0.07	0.10	0.07	0.08	0.08	3.3	
16	12.410	11.368	33	165							0.08	0.08	0.09	0.08	0.09	0.08	3.1	
17	12.000	12.488	23	169							0.08	0.08	0.08	0.08	0.07	0.07	3.1	
18	12.000	12.423	23	166							0.08	0.08	0.09	0.10	0.09	0.09	2.9	
19	12.000	11.287	21	144							0.09	0.08	0.10	0.10	0.10	0.09	3.0	
20	12.000	11.804	20	164							0.09	0.10	0.09	0.09	0.09	0.08	3.3	
21	8.667	13.196	16	159							0.09	0.09	0.11	0.08	0.08	0.08	3.3	
22	8.667	11.990	17	167							0.07	0.07	0.09	0.08	0.07	0.07	3.1	
23	11.167	13.601	16	161							0.08	0.06	0.07	0.08	0.09	0.09	3.3	
24	16.000	16.748	18	164							0.08	0.07	0.07	0.07	0.08	0.09	3.6	
25	11.000	16.802	22	165							0.10	0.09	0.08	0.08	0.07	0.08	3.5	
26	8.000	16.166	17	129							0.08	0.09	0.08	0.08	0.08	0.08	3.4	
27	10.292	17.503	18	136							0.09	0.08	0.07	0.06	0.06	0.07	3.1	
28	5.542	16.557	21	169							0.07	0.06	0.08	0.07	0.08	0.07	3.1	
29	10.500	12.774	22	164							0.09	0.08	0.08	0.08	0.08	0.07	3.1	
30	8.000	14.648	19	165							0.08	0.07	0.08	0.08	0.08	0.08	3.1	
31	8.000	14.692	23	166							0.08	0.07	0.10	0.07	0.08	0.09	3.0	
Total	301.744	417.293	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.															
Avg	9.734	13.461																
Max	16.000	18.766																
Min	4.000	8.649																

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, AW

Date: June 10, 2012

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 1961

PWS ID No.: 2430001

Month:

May

Year:

2012

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	0.13	0.10	0.12	0.09	0.04	x	0.05	x	0.14	x	0.12	x	0.11	x	0.10	x				
2	0.11	x	0.11	x	0.13	0.13	0.21	0.21	0.23	0.12	0.25	0.11	0.09	x	0.07	x				
3	0.08	x	0.07	x	0.18	x	0.18	x	0.16	x	0.15	x	0.08	x	0.06	x				
4	x	x	x	x	0.08	x	0.12	x	x	x	x	x	x	x	x	x				
5	x	x	x	x	0.07	x	0.09	x	0.17	0.09	0.15	0.08	x	x	x	x				
6	x	x	x	x	x	x	x	x	0.09	x	0.08	x	x	x	x	x				
7	0.13	0.11	0.11	0.09	0.17	0.07	0.18	0.05	0.07	x	0.06	x	0.13	0.06	0.11	0.06				
8	0.08	x	0.06	x	0.07	x	0.06	x	0.09	x	0.08	x	0.13	x	0.12	x				
9	0.08	x	0.06	x	0.07	x	0.06	x	0.17	0.08	0.15	0.07	0.09	x	0.09	x				
10	0.21	0.19	0.17	0.07	0.13	0.09	0.17	0.08	0.08	x	0.07	x	0.05	x	0.05	x				
11	0.08	x	0.07	x	0.10	x	0.09	x	0.08	x	0.07	x	0.21	0.08	0.21	0.08				
12	0.06	x	0.05	x	0.06	x	0.04	x	x	x	x	x	0.06	x	0.07	x				
13	x	x	x	x	0.05	x	0.04	x	x	x	x	x	0.04	x	0.05	x				
14	0.12	0.07	0.11	0.05	0.13	0.06	0.10	0.05	0.13	0.13	0.10	0.10	0.05	x	0.05	x				
15	0.12	x	0.10	x	0.11	x	0.11	x	0.12	x	0.10	x	x	x	x	x				
16	0.12	x	0.10	x	0.11	x	0.11	x	0.12	x	0.10	x	0.15	0.12	0.11	0.11				
17	0.36	0.19	0.33	0.17	0.08	x	0.07	x	0.16	0.13	0.13	0.11	0.10	x	0.10	x				
18	0.19	x	0.17	x	x	x	x	x	0.16	x	0.14	x	0.11	x	0.11	x				
19	0.10	x	0.08	x	0.11	0.08	0.12	0.08	0.09	x	0.08	x	0.10	x	0.07	x				
20	0.08	x	0.07	x	0.10	x	0.08	x	0.07	x	0.06	x	0.11	0.07	0.09	0.08				
21	0.08	x	0.08	x	0.12	x	0.09	x	x	x	x	x	0.07	x	0.08	x				
22	0.32	0.10	0.18	0.09	0.07	x	0.06	x	0.17	0.10	0.16	0.09	0.07	x	0.07	x				
23	0.09	x	0.08	x	x	x	x	x	0.11	x	0.10	x	0.07	x	0.07	x				
24	0.08	x	0.08	x	0.19	x	0.22	x	0.12	x	0.11	x	0.14	0.11	0.14	0.10				
25	0.07	x	0.06	x	0.07	x	0.07	x	0.08	x	0.07	x	0.08	x	0.08	x				
26	x	x	x	x	0.06	x	0.06	x	x	x	x	x	0.06	x	0.06	x				
27	0.12	0.06	0.12	0.05	0.08	0.05	0.09	0.05	0.25	0.06	0.27	0.06	0.05	x	0.05	x				
28	0.11	x	0.11	x	0.11	x	0.12	x	x	x	x	x	x	x	x	x				
29	0.06	0.05	0.06	0.04	0.05	0.05	0.06	0.06	0.16	0.12	0.14	0.09	x	x	x	x				
30	0.21	0.12	0.22	0.14	0.06	x	0.06	x	0.12	x	0.13	x	x	x	x	x				
31	0.10	x	0.12	x	x	x	x	x	0.09	x	0.09	x	x	x	x	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	0	0	0	0		
	Number of days with event(s) above 1.0 NTU this month	0	0	0	0	0	0	0	0	0		
	Number of days with event(s) above 1.0 NTU last month	0	0	0	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	0	0	0		
	Total number of days with event(s) above 1.0 NTU in three months	0	0	0	0	0	0	0	0	0		
	Number of days with event(s) above 2.0 NTU this month											0
	Number of days with event(s) above 2.0 NTU last month											0
	Does the filter/plant have an approved Corrective Action Plan?	N	N	N	N	N	N	N	N	N		N
	Is the plant required to submit a Filter Profile Report?	N	N	N	N	N	N	N	N	N		
	Is the plant required to submit a Filter Assessment Report?	N	N	N	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, AW

Date:

June 10, 2012

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
PWS ID No.: 2430001

PLANT NAME OR NUMBER: Cypress 1961
Month: May Year: 2012

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)	42.000	42.000	42.000	8.000	25.999	0.5	2.0
T ₁₀ (minutes)	1.0	1.2	13.8	142.7	1.8		

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	NA D1								
	NA D2								
	NA D3					1.56	3.81	1.91	
	CLA D4	3.2	16.000	23.3	8.9			(V)	
	CLA D5	3.8	16.000	23.0	8.5				
2	NA D1								
	NA D2								
	NA D3					1.94	4.70	2.35	
	CLA D4	3.1	12.000	24.4	9.0			(V)	
	CLA D5	3.9	12.000	24.2	9.3				
3	NA D1								
	NA D2								
	NA D3					1.42	3.47	1.73	
	CLA D4	2.8	14.000	23.6	8.5			(V)	
	CLA D5	2.8	14.000	23.0	8.8				
4	NA D1								
	NA D2								
	NA D3					5.49	13.31	6.65	
	CLA D4	4.1	4.000	23.9	8.0			(V)	
	CLA D5	3.3	4.000	23.8	9.0				
5	NA D1								
	NA D2								
	NA D3					4.51	11.04	5.52	
	CLA D4	3.5	4.000	22.4	9.0			(V)	
	CLA D5	4.8	4.000	22.9	7.9				
6	NA D1								
	NA D2								
	NA D3					6.01	14.43	7.21	
	CLA D4	4.1	4.000	24.8	9.4			(V)	
	CLA D5	5.0	4.000	24.4	9.4				
7	NA D1								
	NA D2								
	NA D3					3.74	9.11	4.55	
	CLA D4	3.7	6.000	23.6	8.7			(V)	
	CLA D5	4.1	6.000	23.3	8.5				
8	NA D1								
	NA D2								
	NA D3					2.14	5.22	2.61	
	CLA D4	3.3	14.000	23.3	9.4			(V)	
	CLA D5	4.6	14.000	23.4	9.1				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	NA D1								
	NA D2								
	NA D3					1.53	3.74	1.87	
	CLA D4	3.1	14.000	21.4	8.4			(V)	
	CLA D5	2.7	16.000	22.0	8.9				
10	NA D1								
	NA D2								
	NA D3					1.50	3.68	1.84	
	CLA D4	3.2	14.000	20.5	9.0			(V)	
	CLA D5	2.7	16.000	21.5	8.8				
11	NA D1								
	NA D2								
	NA D3					1.74	4.27	2.14	
	CLA D4	3.4	14.000	21.5	9.4			(V)	
	CLA D5	3.2	16.000	21.6	9.0				
12	NA D1								
	NA D2								
	NA D3					4.34	10.60	5.30	
	CLA D4	3.8	6.000	23.2	8.7			(V)	
	CLA D5	3.3	8.000	23.4	8.8				
13	NA D1								
	NA D2								
	NA D3					4.00	9.81	4.91	
	CLA D4	4.1	6.000	20.8	8.9			(V)	
	CLA D5	3.6	8.000	20.6	8.3				
14	NA D1								
	NA D2								
	NA D3					2.81	6.89	3.45	
	CLA D4	4.0	10.000	22.4	9.3			(V)	
	CLA D5	3.6	12.000	22.6	8.8				
15	NA D1								
	NA D2								
	NA D3					2.55	6.24	3.12	
	CLA D4	4.4	12.000	23.0	9.2			(V)	
	CLA D5	3.7	14.000	22.5	8.8				
16	NA D1								
	NA D2								
	NA D3					1.89	4.64	2.32	
	CLA D4	3.6	14.000	21.4	9.3			(V)	
	CLA D5	3.2	16.000	21.5	7.7				

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

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 1961

PWS ID No.: 2430001

Month: May

Year: 2012

DISINFECTION PROCESS PARAMETERS							
APPROVED CT STUDY PARAMETERS					PERFORMANCE STANDARDS		
Parameters	Disinfection Zones					Log Inactivations	
	D6A	D6B	D6C	D7	D8	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	36.400	6.759	8.840				
T ₁₀ (minutes)	59.2	53.0	24.3			0.5	2.0

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	CLA D6A	3.6	11.120	22.6	9.3				
	CLA D6B	3.6	5.540	22.6	9.3				
	CLA D6C	3.6	3.340	22.6	9.3				
	D7								
	D8								
2	CLA D6A	3.7	11.120	22.9	8.9				
	CLA D6B	3.7	5.540	22.9	8.9				
	CLA D6C	3.7	3.340	22.9	8.9				
	D7								
	D8								
3	CLA D6A	3.3	12.232	23.4	8.9				
	CLA D6B	3.3	6.094	23.4	8.9				
	CLA D6C	3.0	3.696	23.4	8.9				
	D7								
	D8								
4	CLA D6A	3.1	6.672	23.8	8.6				
	CLA D6B	3.1	3.324	23.8	8.6				
	CLA D6C	3.1	2.004	23.8	8.6				
	D7								
	D8								
5	CLA D6A	3.1	6.672	23.5	8.2				
	CLA D6B	3.1	3.324	23.5	8.2				
	CLA D6C	3.1	2.004	23.5	8.2				
	D7								
	D8								
6	CLA D6A	3.4	6.672	23.8	8.5				
	CLA D6B	3.4	3.324	23.8	8.5				
	CLA D6C	3.4	2.004	23.8	8.5				
	D7								
	D8								
7	CLA D6A	3.7	7.784	23.6	8.7				
	CLA D6B	3.7	3.878	23.6	8.7				
	CLA D6C	3.7	2.338	23.6	8.7				
	D7								
	D8								
8	CLA D6A	3.7	7.784	23.5	9.0				
	CLA D6B	3.7	3.878	23.5	9.0				
	CLA D6C	3.7	2.338	23.5	9.0				
	D7								
	D8								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	CLA D6A	2.7	8.896	23.6	9.0				
	CLA D6B	2.7	4.432	23.6	9.0				
	CLA D6C	2.7	2.672	23.6	9.0				
	D7								
	D8								
10	CLA D6A	3.1	8.896	21.6	8.8				
	CLA D6B	3.1	4.432	21.6	8.8				
	CLA D6C	3.1	2.672	21.6	8.8				
	D7								
	D8								
11	CLA D6A	3.3	8.896	23.1	9.2				
	CLA D6B	3.3	4.432	23.1	9.2				
	CLA D6C	3.3	2.672	23.1	9.2				
	D7								
	D8								
12	CLA D6A	3.4	4.448	23.4	8.9				
	CLA D6B	3.4	2.216	23.4	8.9				
	CLA D6C	3.4	1.363	23.4	8.9				
	D7								
	D8								
13	CLA D6A	3.3	4.448	22.7	8.7				
	CLA D6B	3.3	2.216	22.7	8.7				
	CLA D6C	3.3	1.336	22.7	8.7				
	D7								
	D8								
14	CLA D6A	3.8	6.672	22.6	8.7				
	CLA D6B	3.8	3.324	22.6	8.7				
	CLA D6C	3.8	2.004	22.6	8.7				
	D7								
	D8								
15	CLA D6A	3.8	7.764	22.5	8.7				
	CLA D6B	3.8	3.878	22.5	8.7				
	CLA D6C	3.8	2.338	22.5	8.7				
	D7								
	D8								
16	CLA D6A	3.8	8.896	22.7	8.8				
	CLA D6B	3.8	4.432	22.7	8.8				
	CLA D6C	3.8	2.672	22.7	8.8				
	D7								
	D8								

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: WO0023530, AW

Date: June 10, 2012

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 1961
PWS ID No.: 2430001 Month: May Year: 2012

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)	42.000	42.000	42.000	8.000	25.999	0.5		2.0	
T ₁₀ (minutes)	1.0	1.2	13.8	142.7	1.8				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
17	NA D1								
	NA D2								
	NA D3					2.18	5.33	2.67	
	CLA D4	3.5	12.000	23.0	9.4			(M)	
	CLA D5	2.7	14.000	22.9	9.1			(M)	
18	NA D1								
	NA D2								
	NA D3					2.53	6.17	3.09	
	CLA D4	3.6	12.000	23.3	8.1			(M)	
	CLA D5	3.3	12.000	23.2	9.0			(M)	
19	NA D1								
	NA D2								
	NA D3					2.63	6.43	3.22	
	CLA D4	4.1	12.000	22.5	9.4			(M)	
	CLA D5	4.0	12.000	22.6	8.5			(M)	
20	NA D1								
	NA D2								
	NA D3					2.48	6.04	3.02	
	CLA D4	3.3	12.000	23.6	8.3			(M)	
	CLA D5	3.4	12.000	23.5	8.3			(M)	
21	NA D1								
	NA D2								
	NA D3					2.63	6.43	3.22	
	CLA D4	3.8	12.000	22.9	8.7			(M)	
	CLA D5	3.9	12.000	22.5	8.9			(M)	
22	NA D1								
	NA D2								
	NA D3					2.63	6.39	3.20	
	CLA D4	3.9	12.000	23.8	9.4			(M)	
	CLA D5	4.2	12.000	23.4	9.4			(M)	
23	NA D1								
	NA D2								
	NA D3					2.39	5.79	2.90	
	CLA D4	3.7	12.000	23.4	9.3			(M)	
	CLA D5	4.0	14.000	23.5	8.8			(M)	
24	NA D1								
	NA D2								
	NA D3					2.26	5.45	2.73	
	CLA D4	4.6	16.000	24.4	9.2			(M)	
	CLA D5	3.8	18.000	23.6	8.7			(M)	

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
25	NA D1								
	NA D2								
	NA D3					2.40	5.89	2.95	
	CLA D4	4.4	16.000	25.7	9.0			(M)	
	CLA D5	3.5	18.000	24.4	9.0			(M)	
26	NA D1								
	NA D2								
	NA D3					3.43	8.55	4.27	
	CLA D4	4.3	8.000	25.8	8.3			(M)	
	CLA D5	3.7	10.000	24.7	8.6			(M)	
27	NA D1								
	NA D2								
	NA D3					2.13	5.15	2.57	
	CLA D4	3.6	11.000	24.0	8.0			(M)	
	CLA D5	2.5	13.000	23.8	8.6			(M)	
28	NA D1								
	NA D2								
	NA D3					3.57	8.57	4.29	
	CLA D4	4.1	7.000	24.5	9.4			(M)	
	CLA D5	3.2	9.000	24.5	8.9			(M)	
29	NA D1								
	NA D2								
	NA D3					2.43	5.90	2.95	
	CLA D4	3.8	12.000	23.9	9.4			(M)	
	CLA D5	3.0	14.000	23.7	9.4			(M)	
30	NA D1								
	NA D2								
	NA D3					3.07	7.39	3.69	
	CLA D4	3.9	8.000	24.2	7.8			(M)	
	CLA D5	3.1	10.000	23.6	8.3			(M)	
31	NA D1								
	NA D2								
	NA D3					3.07	7.45	3.72	
	CLA D4	3.7	8.000	23.8	7.5			(M)	
	CLA D5	2.8	10.000	23.2	9.0			(M)	
						Max	6.01	14.43	
						Min	1.42	3.47	
						Avg	2.81	6.83	
						SD	1.11	2.68	

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. WO0023530, AW Date: June 10, 2012
TCEQ - 0102C (11-10-09) PAGE 5 SWMOR

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: <u>City of Wichita Falls</u> PWS ID No.: <u>2430001</u>	PLANT NAME OR NUMBER: <u>Cypress 1961</u> Month: <u>May</u> Year: <u>2012</u>
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DISINFECTION PROCESS PARAMETERS							
APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
Parameters	Disinfection Zones					Log Inactivations	
	D6A	D6B	D6C	D7	D8	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	36.400	6.759	8.840			0.5	2.0
T ₁₀ (minutes)	59.2	53.0	24.3				

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
17	CLA D6A	3.4	7.784	23.1	8.5				
	CLA D6B	3.4	3.878	23.1	8.5				
	CLA D6C	3.4	2.338	23.1	8.5				
	D7								
	D8								
18	CLA D6A	3.6	6.672	23.4	9.1				
	CLA D6B	3.6	3.324	23.4	9.1				
	CLA D6C	3.6	2.004	23.4	9.1				
	D7								
	D8								
19	CLA D6A	3.7	6.672	23.1	8.6				
	CLA D6B	3.7	3.324	23.1	8.6				
	CLA D6C	3.7	2.004	23.1	8.6				
	D7								
	D8								
20	CLA D6A	3.6	6.672	23.6	8.7				
	CLA D6B	3.6	3.324	23.6	8.7				
	CLA D6C	3.6	2.004	23.6	8.7				
	D7								
	D8								
21	CLA D6A	3.9	6.672	23.0	8.9				
	CLA D6B	3.9	3.324	23.0	8.9				
	CLA D6C	3.9	2.004	23.0	8.9				
	D7								
	D8								
22	CLA D6A	3.4	6.672	23.5	8.8				
	CLA D6B	3.4	3.324	23.5	8.8				
	CLA D6C	3.4	2.004	23.5	8.8				
	D7								
	D8								
23	CLA D6A	3.4	7.784	24.1	9.0				
	CLA D6B	3.4	3.878	24.1	9.0				
	CLA D6C	3.4	2.338	24.1	9.0				
	D7								
	D8								
24	CLA D6A	3.9	10.008	24.0	8.8				
	CLA D6B	3.9	4.986	24.0	8.8				
	CLA D6C	3.9	3.006	24.0	8.8				
	D7								
	D8								

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
25	CLA D6A	4.3	10.008	24.3	9.3				
	CLA D6B	4.3	4.986	24.3	9.3				
	CLA D6C	4.3	3.006	24.3	9.3				
	D7								
	D8								
26	CLA D6A	3.8	10.008	23.8	8.5				
	CLA D6B	3.8	4.986	23.8	8.5				
	CLA D6C	3.8	3.006	23.8	8.5				
	D7								
	D8								
27	CLA D6A	3.6	13.344	25.1	8.7				
	CLA D6B	3.6	6.648	25.1	8.7				
	CLA D6C	3.6	4.008	25.1	8.7				
	D7								
	D8								
28	CLA D6A	3.3	8.896	24.5	9.1				
	CLA D6B	3.3	4.432	24.5	9.1				
	CLA D6C	3.3	2.672	24.5	9.1				
	D7								
	D8								
29	CLA D6A	3.5	7.784	23.4	9.0				
	CLA D6B	3.5	3.878	23.4	9.0				
	CLA D6C	3.5	2.338	23.4	9.0				
	D7								
	D8								
30	CLA D6A	3.5	10.008	25.1	9.1				
	CLA D6B	3.5	4.986	25.1	9.1				
	CLA D6C	3.5	3.006	25.1	9.1				
	D7								
	D8								
31	CLA D6A	3.2	7.784	25.3	8.8				
	CLA D6B	3.2	3.878	25.3	8.8				
	CLA D6C	3.2	2.338	25.3	8.8				
	D7								
	D8								

Max		
Min		
Avg		
SD		

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

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 1961

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.: 2430001

Operator's Signature: [Signature]

Report for

the Month of: June 2012

Certificate No. & Grade: WO0023530, AW

Date: July 10, 2012

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	180	Number of 4-hour periods when plant was off-line:	0
Number of readings above 0.10 NTU:	30	Number of 4-hour periods when plant was on-line	
Number of readings above 0.3 NTU:	0	but turbidity data was not collected:	0
Number of readings above 0.5 NTU:	0	Number of days when plant was on-line	
Number of readings above 1.0 NTU:	0	but individual filter turbidity data was not collected:	0
Maximum allowable turbidity level:	0.3	Number of days with readings above 1.0 NTU:	0 (2)
Percentage of readings above this limit:	0.0 % (1)	Number of days with readings above 5.0 NTU:	0 (3)

Statistical Summary

Maximum turbidity reading:	0.15 NTU	Average turbidity value:	0.09 NTU
Minimum turbidity reading:	0.06 NTU	Standard deviation:	0.013 NTU
CFE 95 th percentile value:	0.11 NTU	IFE 95 th percentile:	0.263 NTU

Number of days with a low CT for no more than 4.0 consecutive hours:	0	Average log inactivation for Giardia:	3.13
Number of days with a low CT for more than 4.0 consecutive hours:	0 (4)	Average log inactivation for viruses:	7.91
		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:	115 (at least 100 required) (8)		
Average disinfectant residual value:	3.40	Percentage of readings with a low residual this month:	0.0 % (6A)
Number of readings with a low residual:	0		
Number of readings with no detectable residual:	0	Percentage of readings with a low residual last month:	0.0 % (6B)

ADDITIONAL REPORTS & WORKSHEETS

The Page 1 Addendum (Public Notices) is 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.

SURFACE WATER MONTHLY OPERATING REPORT

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

SURFACE WATER MONTHLY OPERATING REPORT

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

Turbidity Data Page

PUBLIC WATER SYSTEM NAME: City of Wichita Falls

PLANT NAME OR NUMBER: Cypress 1961

PWS ID No.: 2430001

Connections: 34,633

Month: June Year: 2012

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.						Turbidity						Lowest Residual	Time
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6		
1	8.000	15.202	22	175							0.08	0.08	0.11	0.09	0.09	0.09	2.9	
2	8.000	16.962	33	171							0.10	0.09	0.09	0.09	0.09	0.09	2.7	
3	12.250	18.912	21	168							0.11	0.09	0.09	0.09	0.09	0.10	3.0	
4	12.000	19.009	19	168							0.09	0.09	0.09	0.09	0.08	0.09	3.0	
5	6.000	14.009	18	175							0.07	0.08	0.08	0.08	0.09	0.06	3.1	
6	6.000	12.308	21	167							0.06	0.06	0.10	0.07	0.08	0.08	3.0	
7	6.000	9.094	19	173							0.08	0.08	0.09	0.08	0.08	0.09	3.0	
8	6.000	9.928	18	168							0.08	0.08	0.09	0.08	0.08	0.08	3.0	
9	6.750	9.541	36	171							0.11	0.10	0.10	0.10	0.10	0.11	2.7	
10	11.167	12.898	44	169							0.10	0.12	0.10	0.11	0.11	0.09	2.7	
11	10.000	14.375	17	183							0.11	0.11	0.11	0.08	0.08	0.08	2.4	
12	6.667	10.049	19	182							0.10	0.09	0.11	0.09	0.11	0.08	3.0	
13	6.000	7.907	20	179							0.09	0.08	0.10	0.08	0.09	0.09	2.6	
14	6.333	9.822	15	179							0.08	0.09	0.09	0.09	0.11	0.11	2.7	
15	10.000	10.715	20	170							0.09	0.08	0.09	0.09	0.09	0.08	2.3	
16	6.500	9.759	14	152							0.09	0.09	0.09	0.08	0.08	0.07	3.0	
17	6.000	11.064	31	135							0.10	0.09	0.08	0.08	0.09	0.08	2.5	
18	6.667	12.519	19	180							0.08	0.09	0.07	0.07	0.08	0.08	3.1	
19	10.000	12.920	21	179							0.09	0.08	0.10	0.09	0.10	0.09	2.7	
20	10.000	15.081	22	184							0.10	0.10	0.09	0.09	0.10	0.11	2.5	
21	10.000	14.603	23	187							0.15	0.12	0.11	0.09	0.08	0.09	2.0	
22	10.000	9.571	24	187							0.10	0.09	0.09	0.06	0.07	0.07	2.4	
23	10.000	11.359	18	164							0.10	0.09	0.07	0.09	0.09	0.09	2.7	
24	6.667	13.715	19	183							0.09	0.08	0.08	0.08	0.08	0.08	2.7	
25	6.167	15.686	14	187							0.10	0.09	0.08	0.08	0.08	0.09	2.9	
26	9.500	17.516	15	189							0.08	0.09	0.10	0.10	0.09	0.09	3.2	
27	12.750	21.255	13	178							0.10	0.09	0.11	0.11	0.10	0.09	3.2	
28	14.000	19.175	22	163							0.12	0.11	0.11	0.10	0.10	0.11	3.1	
29	14.000	19.864	11	162							0.13	0.12	0.11	0.12	0.10	0.09	3.8	
30	8.000	16.159	15	146							0.09	0.09	0.11	0.11	0.09	0.09	2.6	
31																		
Total	261.418	410.977									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.							
Avg	8.714	13.699																
Max	14.000	21.255																
Min	6.000	7.907																

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, AW Date: July 10, 2012

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 1961

PWS ID No.: 2430001

Month: June Year: 2012

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	0.09	x	0.11	x	x	x	x	x	0.08	x	0.08	x	0.17	0.16	0.16	0.13				
2	0.10	x	0.12	x	x	x	x	x	x	x	x	x	0.19	x	0.17	x				
3	0.12	0.08	0.14	0.09	0.12	0.06	0.13	0.06	0.40	0.12	0.39	0.11	0.15	x	0.13	x				
4	0.10	x	0.09	x	0.07	x	0.07	x	0.14	x	0.12	x	0.11	x	0.10	x				
5	0.08	x	0.08	x	x	x	x	x	0.07	x	0.07	x	0.14	0.11	0.13	0.11				
6	0.10	x	0.10	x	0.11	0.10	0.10	0.10	x	x	x	x	0.18	x	0.18	x				
7	x	x	x	x	0.10	x	0.10	x	x	x	x	x	0.15	x	0.15	x				
8	x	x	x	x	0.14	x	0.13	x	x	x	x	x	0.19	x	0.18	x				
9	0.39	0.11	0.37	0.11	0.14	x	0.14	x	0.20	0.09	0.17	0.07	0.20	0.11	0.28	0.12				
10	0.15	x	0.15	x	x	x	x	x	0.12	x	0.16	x	0.11	x	0.26	x				
11	0.14	x	0.13	x	x	x	x	x	0.11	x	0.09	x	0.10	x	0.10	x				
12	0.08	x	0.10	x	0.13	0.10	0.13	0.10	0.07	x	0.07	x	0.06	x	0.07	x				
13	x	x	x	x	0.13	x	0.13	x	0.28	0.08	0.28	0.08	0.06	x	0.06	x				
14	0.24	0.09	0.23	0.10	0.08	x	0.08	x	0.12	x	0.12	x	x	x	x	x				
15	0.21	x	0.22	x	0.07	x	0.08	x	0.12	x	0.10	x	x	x	x	x				
16	0.07	x	0.09	x	0.06	x	0.06	x	0.07	x	0.06	x	0.06	0.04	0.08	0.05				
17	0.05	x	0.06	x	x	x	x	x	x	x	x	x	0.05	x	0.06	x				
18	x	x	x	x	0.30	0.06	0.09	0.06	0.12	0.12	0.13	0.09	0.09	x	0.10	x				
19	0.20	0.15	0.22	0.15	0.11	x	0.12	x	0.18	x	0.14	x	0.10	x	0.11	x				
20	0.16	x	0.16	x	0.08	x	0.09	x	0.14	x	0.11	x	x	x	x	x				
21	0.05	x	0.05	x	0.04	x	0.05	x	0.30	x	0.11	x	0.10	0.05	0.11	0.06				
22	0.05	x	0.05	x	0.12	0.07	0.13	0.07	0.07	x	0.06	x	0.04	x	0.06	x				
23	0.05	x	0.05	x	0.06	x	0.06	x	0.10	0.09	0.08	0.07	0.05	x	0.05	x				
24	x	x	x	x	0.06	x	0.07	x	0.13	x	0.09	x	0.05	x	0.05	x				
25	0.08	0.06	0.07	0.05	0.05	x	0.05	x	0.09	x	0.07	x	x	x	x	x				
26	0.10	x	0.08	x	0.08	0.08	0.10	0.06	0.09	x	0.08	x	0.07	0.05	0.06	0.04				
27	0.14	x	0.12	x	0.14	x	0.16	x	0.18	0.09	0.15	0.06	0.14	x	0.12	x				
28	0.16	x	0.13	x	0.16	x	0.20	x	0.20	x	0.16	x	0.14	x	0.12	x				
29	0.21	0.10	0.18	0.08	0.21	0.13	0.24	0.16	0.13	x	0.10	x	0.28	0.12	0.24	0.10				
30	0.17	x	0.10	x	0.12	x	0.16	x	0.09	x	0.07	x	0.14	x	0.12	x				
31																				

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	0	0	0	0			
	Number of days with event(s) above 1.0 NTU this month		0	0	0	0	0	0	0	0				
	Number of days with event(s) above 1.0 NTU last month		0	0	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	0	0				
	Total number of days with event(s) above 1.0 NTU in three months		0	0	0	0	0	0	0	0				
	Number of days with event(s) above 2.0 NTU this month												0	
	Number of days with event(s) above 2.0 NTU last month												0	
	Does the filter/plant have an approved Corrective Action Plan?		N	N	N	N	N	N	N	N	N			N
Is the plant required to submit a Filter Profile Report?		N	N	N	N	N	N	N	N	N				
Is the plant required to submit a Filter Assessment Report?		N	N	N	N	N	N	N	N	N				
Is the plant required to submit a Request for Compliance CPE?												N		

SUBMITTED BY:

Certificate No.
and Grade: W00023530, AW

Date: July 10, 2012

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
PWS ID No.: 2430001

PLANT NAME OR NUMBER: Cypress 1961
Month: June Year: 2012

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)	42.000	42.000	42.000	8.000	25.999	0.5	2.0
T ₁₀ (minutes)	1.0	1.2	13.8	142.7	1.8		

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	NA D1								
	NA D2								
	NA D3					2.69	6.60	3.30	
	CLA D4	3.6	8.000	22.6	7.7			(V)	
	CLA D5	3.4	10.000	22.2	9.2				
2	NA D1								
	NA D2								
	NA D3					2.87	6.95	3.47	
	CLA D4	3.5	8.000	23.5	9.4			(V)	
	CLA D5	2.9	10.000	23.5	9.2				
3	NA D1								
	NA D2								
	NA D3					1.71	4.12	2.06	
	CLA D4	3.5	14.000	24.1	9.4			(V)	
	CLA D5	2.9	16.000	23.8	9.3				
4	NA D1								
	NA D2								
	NA D3					1.94	4.68	2.34	
	CLA D4	3.9	14.000	25.2	9.4			(V)	
	CLA D5	3.3	16.000	25.1	8.2				
5	NA D1								
	NA D2								
	NA D3					3.91	9.46	4.73	
	CLA D4	3.8	6.000	25.3	9.4			(V)	
	CLA D5	2.7	8.000	24.9	9.1				
6	NA D1								
	NA D2								
	NA D3					4.16	10.06	5.03	
	CLA D4	3.5	6.000	25.2	6.8			(V)	
	CLA D5	3.3	8.000	24.7	8.0				
7	NA D1								
	NA D2								
	NA D3					3.93	9.67	4.84	
	CLA D4	3.9	6.000	22.8	8.9			(V)	
	CLA D5	3.7	8.000	23.3	8.8				
8	NA D1								
	NA D2								
	NA D3					4.63	11.36	5.68	
	CLA D4	3.9	6.000	23.1	9.3			(V)	
	CLA D5	3.3	8.000	22.9	8.9				

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	NA D1								
	NA D2								
	NA D3					2.34	5.63	2.81	
	CLA D4	3.3	12.000	25.1	9.4			(V)	
	CLA D5	3.5	14.000	24.7	8.9				
10	NA D1								
	NA D2								
	NA D3					2.36	5.67	2.84	
	CLA D4	3.5	12.000	24.3	8.9			(V)	
	CLA D5	4.1	14.000	23.9	8.6				
11	NA D1								
	NA D2								
	NA D3					2.15	5.42	2.71	
	CLA D4	2.5	10.000	25.9	7.9			(V)	
	CLA D5	3.2	12.000	25.9	8.4				
12	NA D1								
	NA D2								
	NA D3					2.70	6.54	3.27	
	CLA D4	3.4	10.000	25.3	8.0			(V)	
	CLA D5	3.1	12.000	25.6	8.6				
13	NA D1								
	NA D2								
	NA D3					4.28	10.26	5.13	
	CLA D4	3.3	6.000	24.6	9.1			(V)	
	CLA D5	3.4	8.000	24.6	8.6				
14	NA D1								
	NA D2								
	NA D3					4.90	12.01	6.00	
	CLA D4	4.2	6.000	24.7	8.4			(V)	
	CLA D5	3.7	8.000	24.5	8.6				
15	NA D1								
	NA D2								
	NA D3					2.94	7.03	3.52	
	CLA D4	3.8	10.000	25.1	8.0			(V)	
	CLA D5	4.1	12.000	25.2	8.6				
16	NA D1								
	NA D2								
	NA D3					4.74	11.96	5.98	
	CLA D4	4.1	6.000	26.2	9.2			(V)	
	CLA D5	3.9	10.000	25.8	8.4				

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: WO0023530, AW

Date: July 10, 2012

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
PWS ID No.: 2430001

PLANT NAME OR NUMBER: Cypress 1961
Month: June Year: 2012

DISINFECTION PROCESS PARAMETERS							
APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
Parameters	Disinfection Zones					Log Inactivations	
	D6A	D6B	D6C	D7	D8	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	36.400	6.759	8.840			0.5	2.0
T ₁₀ (minutes)	59.2	53.0	24.3				

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	CLA D6A	3.3	7.784	22.7	9.0				
	CLA D6B	3.3	3.878	22.7	9.0				
	CLA D6C	3.3	2.338	22.7	9.0				
	D7								
	D8								
2	CLA D6A	3.2	7.784	24.4	9.1				
	CLA D6B	3.2	3.878	24.4	9.1				
	CLA D6C	3.2	2.338	24.4	9.1				
	D7								
	D8								
3	CLA D6A	3.1	13.344	24.9	9.0				
	CLA D6B	3.1	6.648	24.9	9.0				
	CLA D6C	3.1	4.008	24.9	9.0				
	D7								
	D8								
4	CLA D6A	3.3	13.344	24.4	9.2				
	CLA D6B	3.3	6.648	24.4	9.2				
	CLA D6C	3.3	4.008	24.4	9.2				
	D7								
	D8								
5	CLA D6A	3.3	8.896	24.7	9.1				
	CLA D6B	3.3	4.432	24.7	9.1				
	CLA D6C	3.3	2.672	24.7	9.1				
	D7								
	D8								
6	CLA D6A	3.5	6.672	25.3	8.9				
	CLA D6B	3.5	3.324	25.3	8.9				
	CLA D6C	3.5	2.004	25.3	8.9				
	D7								
	D8								
7	CLA D6A	3.4	6.672	25.6	8.8				
	CLA D6B	3.4	3.324	25.6	8.8				
	CLA D6C	3.4	2.004	25.6	8.8				
	D7								
	D8								
8	CLA D6A	3.3	4.448	25.5	8.9				
	CLA D6B	3.3	2.216	25.5	8.9				
	CLA D6C	3.3	1.336	25.5	8.9				
	D7								
	D8								

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	CLA D6A	3.1	7.784	24.5	8.7				
	CLA D6B	3.1	3.878	24.5	8.7				
	CLA D6C	3.1	2.338	24.5	8.7				
	D7								
	D8								
10	CLA D6A	3.0	7.784	25.1	8.8				
	CLA D6B	3.0	3.878	25.1	8.8				
	CLA D6C	3.0	2.338	25.1	8.8				
	D7								
	D8								
11	CLA D6A	3.1	8.896	25.8	8.7				
	CLA D6B	3.1	4.432	25.8	8.7				
	CLA D6C	3.1	2.672	25.8	8.7				
	D7								
	D8								
12	CLA D6A	2.7	6.672	25.1	8.8				
	CLA D6B	2.7	3.324	25.1	8.8				
	CLA D6C	2.7	2.004	25.1	8.8				
	D7								
	D8								
13	CLA D6A	2.9	4.448	25.1	8.7				
	CLA D6B	2.9	2.216	25.1	8.7				
	CLA D6C	2.9	1.336	25.1	8.7				
	D7								
	D8								
14	CLA D6A	2.8	4.448	26.0	8.5				
	CLA D6B	2.8	2.216	26.0	8.5				
	CLA D6C	2.8	1.336	26.0	8.5				
	D7								
	D8								
15	CLA D6A	2.8	6.672	25.0	8.5				
	CLA D6B	2.8	3.324	25.0	8.5				
	CLA D6C	2.8	2.004	25.0	8.5				
	D7								
	D8								
16	CLA D6A	3.2	5.560	25.1	8.9				
	CLA D6B	3.2	2.770	25.1	8.9				
	CLA D6C	3.2	1.670	25.1	8.9				
	D7								
	D8								

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: WO0023530, AW Date: July 10, 2012

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 1961

PWS ID No.:

2430001

Month:

June

Year: 2012

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)	42.000	42.000	42.000	8.000	25.999	0.5	2.0
T ₁₀ (minutes)	1.0	1.2	13.8	142.7	1.8		

PERFORMANCE DATA

Date	DISINFECTION PROCESS DATA									
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time	
17	NA D1									
	NA D2									
	NA D3					4.70	11.60	5.80		
	CLA D4	4.3	6.000	25.5	7.2			(V)		
	CLA D5	4.3	10.000	25.3	8.9					
18	NA D1									
	NA D2									
	NA D3					3.32	9.04	4.52		
	CLA D4	3.5	8.000	27.5	8.5			(V)		
	CLA D5	3.5	12.000	27.5	8.6					
19	NA D1									
	NA D2									
	NA D3					2.96	7.65	3.83		
	CLA D4	3.9	10.000	26.0	8.6			(V)		
	CLA D5	4.5	14.000	26.0	8.9					
20	NA D1									
	NA D2									
	NA D3					3.06	7.68	3.84		
	CLA D4	4.3	10.000	25.6	8.0			(V)		
	CLA D5	4.4	14.000	25.6	8.7					
21	NA D1									
	NA D2									
	NA D3					2.28	5.63	2.82		
	CLA D4	3.3	10.000	24.6	8.5			(V)		
	CLA D5	3.5	14.000	24.2	7.4					
22	NA D1									
	NA D2									
	NA D3					3.44	8.49	4.24		
	CLA D4	5.5	10.000	25.2	8.4			(V)		
	CLA D5	5.9	14.000	24.9	9.1					
23	NA D1									
	NA D2									
	NA D3					3.49	9.27	4.63		
	CLA D4	5.2	10.000	26.5	8.5			(V)		
	CLA D5	3.1	14.000	26.3	9.3					
24	NA D1									
	NA D2									
	NA D3					3.18	8.43	4.21		
	CLA D4	4.6	10.000	26.6	9.4			(V)		
	CLA D5	3.4	14.000	26.3	8.5					

PERFORMANCE DATA

Date	DISINFECTION PROCESS DATA									
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time	
25	NA D1									
	NA D2									
	NA D3					4.33	11.60	5.80		
	CLA D4	4.2	6.000	26.9	9.0			(V)		
	CLA D5	4.1	10.000	27.0	8.6					
26	NA D1									
	NA D2									
	NA D3					3.51	9.14	4.57		
	CLA D4	5.6	10.000	26.4	9.1			(V)		
	CLA D5	5.1	14.000	26.7	8.8					
27	NA D1									
	NA D2									
	NA D3					2.22	6.93	3.47		
	CLA D4	4.5	14.000	29.1	9.4			(V)		
	CLA D5	3.8	18.000	28.4	8.8					
28	NA D1									
	NA D2									
	NA D3					1.80	4.95	2.47		
	CLA D4	3.3	14.000	27.1	8.9			(V)		
	CLA D5	3.5	18.000	27.4	9.0					
29	NA D1									
	NA D2									
	NA D3					1.83	4.74	2.37		
	CLA D4	3.0	14.000	26.2	9.1			(V)		
	CLA D5	3.1	18.000	27.2	9.3					
30	NA D1									
	NA D2									
	NA D3					1.57	4.76	2.38		
	CLA D4	2.9	14.000	28.4	9.2			(V)		
	CLA D5	2.6	18.000	28.3	9.2					
31	D1									
	D2									
	D3									
	D4									
	D5									

Max	4.90	12.01
Min	1.57	4.12
Avg	3.13	7.91
SD	0.99	2.41

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

SUBMITTED BY:



Certificate No.
and Grade:

WO0023530, AW

Date: July 10, 2012

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
PWS ID No.: 2430001

PLANT NAME OR NUMBER: Cypress 1961
Month: June Year: 2012

DISINFECTION PROCESS PARAMETERS									
APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS			
Parameters	Disinfection Zones					Log Inactivations			
	D6A	D6B	D6C	D7	D8	Giardia lamblia Cysts		Virus	
Flow Rate (MGD)	36.400	6.759	8.840			0.5		2.0	
T ₁₀ (minutes)	59.2	53.0	24.3						

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time (min)
17	CLA D6A	2.8	5.560	25.6	8.8				
	CLA D6B	2.8	2.770	25.6	8.8				
	CLA D6C	2.8	1.670	25.6	8.8				
	D7								
	D8								
18	CLA D6A	3.1	6.672	26.1	8.6				
	CLA D6B	3.1	3.324	26.1	8.6				
	CLA D6C	3.1	2.004	26.1	8.6				
	D7								
	D8								
19	CLA D6A	3.2	7.784	26.5	8.5				
	CLA D6B	3.2	3.878	26.5	8.5				
	CLA D6C	3.2	2.338	26.5	8.5				
	D7								
	D8								
20	CLA D6A	3.0	7.784	26.0	8.4				
	CLA D6B	3.0	3.878	26.0	8.4				
	CLA D6C	3.0	2.338	26.0	8.4				
	D7								
	D8								
21	CLA D6A	2.2	7.784	26.6	8.6				
	CLA D6B	2.2	3.878	26.6	8.6				
	CLA D6C	2.2	2.338	26.6	8.6				
	D7								
	D8								
22	CLA D6A	2.5	7.784	26.4	8.6				
	CLA D6B	2.5	3.878	26.4	8.6				
	CLA D6C	2.5	2.338	26.4	8.6				
	D7								
	D8								
23	CLA D6A	3.1	7.784	26.8	8.6				
	CLA D6B	3.1	3.878	26.8	8.6				
	CLA D6C	3.1	2.338	26.8	8.6				
	D7								
	D8								
24	CLA D6A	3.0	7.784	26.4	8.5				
	CLA D6B	3.0	3.878	26.4	8.5				
	CLA D6C	3.0	2.338	26.4	8.5				
	D7								
	D8								

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time (min)
25	CLA D6A	3.1	7.784	26.2	8.6				
	CLA D6B	3.1	3.878	26.2	8.6				
	CLA D6C	3.1	2.338	26.2	8.6				
	D7								
	D8								
26	CLA D6A	3.7	11.120	26.0	8.8				
	CLA D6B	3.7	5.540	26.0	8.8				
	CLA D6C	3.7	3.340	26.0	8.8				
	D7								
	D8								
27	CLA D6A	3.7	13.900	28.5	8.8				
	CLA D6B	3.7	6.925	28.5	8.8				
	CLA D6C	3.7	4.175	28.5	8.8				
	D7								
	D8								
28	CLA D6A	3.1	12.232	27.0	8.8				
	CLA D6B	3.1	6.094	27.0	8.8				
	CLA D6C	3.1	3.674	27.0	8.8				
	D7								
	D8								
29	CLA D6A	3.0	10.008	26.2	9.1				
	CLA D6B	3.0	4.986	26.2	9.1				
	CLA D6C	3.0	3.006	26.2	9.1				
	D7								
	D8								
30	CLA D6A	2.7	12.232	28.6	9.1				
	CLA D6B	2.7	6.094	28.6	9.1				
	CLA D6C	2.7	3.674	28.6	9.1				
	D7								
	D8								
31	D6A								
	D6B								
	D6C								
	D7								
	D8								

Max
Min
Avg
SD

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: WO0023530, AW

Date: July 10, 2012

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

PWS/2430001/MP

PUBLIC WATER

SYSTEM NAME: City of Wichita Falls

PLANT NAME

OR NUMBER: Cypress 1981

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.: 2430001

Operator's Signature: _____

Report for
the Month of: July 2012

Certificate No. & Grade: WO0023530, AW

Date: August 10, 2012

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>51</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>0.14</u> NTU	Average turbidity value: <u>0.10</u> NTU
Minimum turbidity reading: <u>0.06</u> NTU	Standard deviation: <u>0.017</u> NTU
CFE 95 th percentile value: <u>0.13</u> NTU	IFE 95 th percentile: <u>0.300</u> NTU

Number of days with a low CT for no more than 4.0 consecutive hours: <u>0</u>	Average log inactivation for Giardia: <u>2.72</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>7.85</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 with a low residual for more than 4.0 consecutive hours: <u>0</u> (5)	Number of days when disinfectant residual leaving the plant was not properly monitored: <u>0</u>

DISTRIBUTION SYSTEM

Minimum disinfectant residual required in distribution system: 0.5 mg/L, measured as Total Chlorine

Total number of readings this month: <u>117</u> (at least 100 required) (8)	Percentage of readings with a low residual this month: <u>0.0</u> % (6A)
Average disinfectant residual value: <u>3.20</u>	Percentage of readings with a low residual last month: <u>0.0</u> % (6B)
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.

SURFACE WATER MONTHLY OPERATING REPORT

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

SURFACE WATER MONTHLY OPERATING REPORT
 FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
 OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
Turbidity Data Page

PUBLIC WATER SYSTEM NAME: City of Wichita Falls PLANT NAME OR NUMBER: Cypress 1961

PWS ID No.: 2430001 Connections: 34,801

Month: July Year: 2012 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.						Turbidity						Lowest Residual	Time
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6		
1	6.000	13.513	13	132							0.09	0.09	0.09	0.09	0.10	0.10	2.4	
2	9.167	17.791	12	160							0.11	0.10	0.09	0.08	0.08	0.06	2.7	
3	11.167	19.055	12	149							0.08	0.09	0.09	0.08	0.07	0.08	3.1	
4	12.000	19.110	18	152							0.09	0.08	0.09	0.10	0.08	0.09	2.5	
5	12.000	18.804	17	172							0.09	0.09	0.09	0.08	0.08	0.09	2.7	
6	12.000	21.949	9	174							0.09	0.09	0.08	0.08	0.08	0.09	2.7	
7	8.500	15.026	15	145							0.09	0.09	0.09	0.10	0.10	0.09	2.7	
8	8.000	12.999	11	144							0.10	0.09	0.09	0.09	0.09	0.09	2.8	
9	8.000	13.643	7	177							0.09	0.09	0.09	0.08	0.07	0.07	3.5	
10	8.000	16.069	11	162							0.10	0.08	0.08	0.07	0.07	0.07	2.7	
11	8.000	21.128	9	149							0.07	0.07	0.09	0.08	0.08	0.09	2.4	
12	8.333	19.887	20	161							0.09	0.08	0.08	0.08	0.07	0.07	2.8	
13	12.000	23.877	18	163							0.07	0.10	0.09	0.12	0.11	0.10	2.7	
14	11.954	19.786	16	153							0.11	0.10	0.09	0.10	0.09	0.10	2.9	
15	13.258	14.245	16	138							0.11	0.10	0.10	0.11	0.11	0.09	3.4	
16	12.413	16.245	11	163							0.09	0.09	0.09	0.09	0.07	0.08	4.0	
17	12.283	19.351	12	155							0.09	0.08	0.08	0.08	0.09	0.08	2.5	
18	14.121	20.856	9	157							0.09	0.10	0.11	0.10	0.10	0.10	1.7	
19	14.033	21.453	7	154							0.10	0.11	0.10	0.09	0.09	0.09	1.6	
20	14.021	23.021	10	156							0.08	0.09	0.10	0.10	0.10	0.11	1.3	
21	9.829	17.411	16	145							0.10	0.11	0.11	0.11	0.10	0.10	2.0	
22	8.054	15.888	17	143							0.10	0.10	0.09	0.08	0.08	0.08	3.0	
23	7.992	17.774	8	158							0.08	0.08	0.08	0.08	0.08	0.08	3.1	
24	11.075	19.991	12	149							0.07	0.07	0.08	0.09	0.08	0.09	3.1	
25	12.850	22.490	11	146							0.10	0.12	0.11	0.11	0.10	0.11	3.0	
26	14.058	21.530	9	149							0.14	0.12	0.14	0.10	0.10	0.11	3.4	
27	12.175	21.256	20	148							0.12	0.12	0.13	0.12	0.11	0.12	2.9	
28	4.825	15.588	14	133							0.13	0.13	0.13	0.13	0.13	0.12	3.1	
29	3.800	16.417	12	129							0.13	0.12	0.12	0.12	0.11	0.11	3.3	
30	4.342	18.933	15	148							0.11	0.11	0.14	0.11	0.11	0.11	3.0	
31	9.821	23.890	13	148							0.11	0.12	0.13	0.13	0.14	0.13	3.1	
Total	314.071	578.776																
Avg	10.131	18.670																
Max	14.121	23.890																
Min	3.800	12.999																
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.																		

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, AW

Date: August 10, 2012

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 1961

PWS ID No.: 2430001

Month: July Year: 2012

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	x	x	x	x	0.06	x	0.08	x	x	x	x	x	x	0.06	x	0.05	x				
2	0.10	0.07	0.12	0.08	0.09	x	0.10	x	x	x	x	x	x	0.19	x	0.17	x				
3	0.08	x	0.08	x	0.15	0.08	0.20	0.19	0.10	0.09	0.09	0.07	x	x	x	x	x				
4	0.08	x	0.05	x	0.09	x	0.11	x	0.10	x	0.07	x	x	x	x	x	x				
5	0.09	x	0.07	x	0.09	x	0.11	x	0.11	x	0.08	x	0.12	0.12	0.12	0.12					
6	0.19	0.18	0.19	0.17	0.08	x	0.07	x	0.29	0.18	0.25	0.15	0.10	x	0.09	x					
7	0.11	x	0.11	x	x	x	x	x	0.12	x	0.10	x	0.08	x	0.07	x					
8	0.08	x	0.07	x	x	x	x	x	0.09	x	0.07	x	x	x	x	x					
9	0.08	x	0.07	x	0.19	0.05	0.22	0.06	0.10	x	0.07	x	0.10	0.05	0.07	0.05					
10	x	x	x	x	0.08	x	0.09	x	x	x	x	x	0.06	x	0.06	x					
11	x	x	x	x	0.08	x	0.09	x	x	x	x	x	0.06	x	0.06	x					
12	0.27	0.09	0.21	0.08	0.08	x	0.09	x	x	x	x	x	0.06	x	0.06	x					
13	0.21	x	0.20	x	0.22	0.16	0.34	0.17	0.33	0.17	0.28	0.13	0.06	x	0.06	x					
14	0.10	x	0.11	x	0.10	x	0.12	x	0.13	x	0.09	x	x	x	x	x					
15	0.07	x	0.05	x	0.06	x	0.08	x	0.10	x	0.06	x	x	x	x	x					
16	0.12	0.10	0.10	0.09	0.05	x	0.07	x	0.15	x	0.09	x	0.08	0.07	0.09	0.08					
17	0.17	x	0.17	x	0.26	0.13	0.27	0.11	0.16	x	0.10	x	0.09	x	0.08	x					
18	0.16	x	0.15	x	0.28	x	0.30	x	0.16	x	0.10	x	0.10	x	0.09	x					
19	0.54	0.10	0.47	0.12	0.11	x	0.11	x	0.49	0.19	0.45	0.13	0.42	0.21	0.35	0.19					
20	0.19	x	0.18	x	0.08	x	0.08	x	0.22	x	0.14	x	0.12	x	0.12	x					
21	0.18	x	0.16	x	0.07	x	0.07	x	0.15	x	0.10	x	0.08	x	0.08	x					
22	0.08	x	0.16	x	x	x	x	x	0.16	x	0.10	x	x	x	x	x					
23	0.17	0.10	0.18	0.09	0.12	0.07	0.11	0.07	0.14	x	0.07	x	0.12	0.12	0.13	0.12					
24	0.11	0.11	0.10	0.10	0.06	x	0.07	0.07	0.22	0.19	0.14	0.12	0.07	0.07	0.07	0.07					
25	0.11	0.10	0.17	0.09	0.17	0.09	0.18	0.08	0.19	0.16	0.12	0.08	0.07	0.06	0.07	0.06					
26	0.16	0.12	0.15	0.12	0.15	0.10	0.16	0.10	0.19	0.19	0.11	0.11	0.24	0.20	0.26	0.19					
27	0.24	0.18	0.24	0.19	0.10	0.10	0.12	0.06	0.20	0.17	0.12	0.08	0.23	0.11	0.21	0.12					
28	0.16	0.14	0.18	0.14	x	x	x	x	x	x	x	x	0.07	x	0.08	x					
29	0.09	0.08	0.09	0.09	x	x	x	x	x	x	x	x	x	x	x	x					
30	0.09	0.08	0.09	0.09	0.15	0.10	0.23	0.09	0.26	0.22	0.18	0.16	x	x	x	x					
31	0.45	0.16	0.32	0.12	0.13	0.10	0.11	0.09	0.25	0.22	0.18	0.14	0.15	0.09	0.11	0.08					

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	0	0	0	0	0	
	Number of days with event(s) above 1.0 NTU this month	0	0	0	0	0	0	0	0	0	0	
	Number of days with event(s) above 1.0 NTU last month	0	0	0	0	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	0	0	0	0	
	Total number of days with event(s) above 1.0 NTU in three months	0	0	0	0	0	0	0	0	0	0	
	Number of days with event(s) above 2.0 NTU this month											0
	Number of days with event(s) above 2.0 NTU last month											0
	Does the filter/plant have an approved Corrective Action Plan?	N	N	N	N	N	N	N	N	N	N	N
	Is the plant required to submit a Filter Profile Report?	N	N	N	N	N	N	N	N	N	N	
	Is the plant required to submit a Filter Assessment Report?	N	N	N	N	N	N	N	N	N	N	
	Is the plant required to submit a Request for Compliance CPE?											N

SUBMITTED BY:



Certificate No.

and Grade:

W00023530, AW

Date:

August 10, 2012

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 1981

PWS ID No.: 2430001

Month: July Year: 2012

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)	42.000	42.000	42.000	8.000	25.999	0.5	2.0
T ₁₀ (minutes)	1.0	1.2	13.8	142.7	1.8		

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	NA D1								
	NA D2								
	NA D3					2.98	8.22	4.11	
	CLA D4	2.7	6.000	27.1	9.2			(V)	
	CLA D5	3.3	10.000	26.7	8.6				
2	NA D1								
	NA D2								
	NA D3					2.52	6.95	3.48	
	CLA D4	3.1	10.000	26.0	7.3			(V)	
	CLA D5	4.9	14.000	25.7	8.6				
3	NA D1								
	NA D2								
	NA D3					2.03	6.00	3.00	
	CLA D4	2.9	12.000	28.3	9.3			(V)	
	CLA D5	1.4	16.000	28.0	8.3				
4	NA D1								
	NA D2								
	NA D3					1.59	4.49	2.25	
	CLA D4	2.1	12.000	26.5	9.4			(V)	
	CLA D5	1.8	14.000	25.9	8.2				
5	NA D1								
	NA D2								
	NA D3					2.00	5.62	2.81	
	CLA D4	3.3	12.000	26.9	8.5			(V)	
	CLA D5	2.5	14.000	26.0	9.1				
6	NA D1								
	NA D2								
	NA D3					1.86	5.20	2.60	
	CLA D4	3.1	12.000	26.8	9.4			(V)	
	CLA D5	5.6	16.000	25.4	7.4				
7	NA D1								
	NA D2								
	NA D3					3.28	8.83	4.41	
	CLA D4	5.7	12.000	26.6	9.4			(V)	
	CLA D5	4.6	16.000	26.5	7.7				
8	NA D1								
	NA D2								
	NA D3					3.54	9.54	4.77	
	CLA D4	3.9	8.000	26.5	8.0			(V)	
	CLA D5	5.2	10.000	26.9	8.0				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	NA D1								
	NA D2								
	NA D3					3.60	10.69	5.34	
	CLA D4	4.0	8.000	28.0	8.3			(V)	
	CLA D5	5.4	10.000	27.3	8.0				
10	NA D1								
	NA D2								
	NA D3					3.38	9.10	4.55	
	CLA D4	3.7	8.000	26.5	7.6			(V)	
	CLA D5	4.3	10.000	26.5	8.4				
11	NA D1								
	NA D2								
	NA D3					3.42	9.11	4.55	
	CLA D4	4.3	8.000	25.9	8.0			(V)	
	CLA D5	4.9	10.000	25.7	8.5				
12	NA D1								
	NA D2								
	NA D3					2.58	6.93	3.46	
	CLA D4	3.9	10.000	26.8	8.5			(V)	
	CLA D5	4.8	12.000	27.4	8.4				
13	NA D1								
	NA D2								
	NA D3					1.93	5.57	2.79	
	CLA D4	3.3	12.000	27.4	9.3			(V)	
	CLA D5	2.8	16.000	27.9	9.3				
14	NA D1								
	NA D2								
	NA D3					2.47	7.18	3.59	
	CLA D4	4.3	12.000	27.5	8.8			(V)	
	CLA D5	4.2	14.000	27.5	8.8				
15	NA D1								
	NA D2								
	NA D3					4.13	10.84	5.42	
	CLA D4	6.5	10.000	24.3	8.7			(V)	
	CLA D5	6.4	12.000	25.0	9.1				
16	NA D1								
	NA D2								
	NA D3					2.89	8.14	4.07	
	CLA D4	3.9	12.000	27.4	9.1			(V)	
	CLA D5	3.8	16.000	28.0	9.3				

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: WO0023530, AW

Date: August 10, 2012

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 1961

PWS ID No.: 2430001

Month: July Year: 2012

DISINFECTION PROCESS PARAMETERS									
APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS			
Parameters	Disinfection Zones					Log Inactivations			
	D6A	D6B	D6C	D7	D8	Giardia lamblia Cysts	Virus		
Flow Rate (MGD)	36.400	6.759	8.840			0.5	2.0		
T ₁₀ (minutes)	59.2	53.0	24.3						

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	CLA D6A	2.5	7.784	27.3	8.6				
	CLA D6B	2.5	3.878	27.3	8.6				
	CLA D6C	2.5	2.338	27.3	8.6				
	D7								
	D8								
2	CLA D6A	3.8	10.008	28.6	8.4				
	CLA D6B	3.8	4.986	28.6	8.4				
	CLA D6C	3.8	3.006	28.6	8.4				
	D7								
	D8								
3	CLA D6A	3.7	11.120	27.9	8.8				
	CLA D6B	3.7	5.540	27.9	8.8				
	CLA D6C	3.7	3.340	27.9	8.8				
	D7								
	D8								
4	CLA D6A	2.8	10.008	28.4	8.9				
	CLA D6B	2.8	4.986	28.4	8.9				
	CLA D6C	2.8	3.006	28.4	8.9				
	D7								
	D8								
5	CLA D6A	2.9	11.120	28.3	9.1				
	CLA D6B	2.9	5.540	28.3	9.1				
	CLA D6C	2.9	3.340	28.3	9.1				
	D7								
	D8								
6	CLA D6A	2.8	12.232	28.3	9.0				
	CLA D6B	2.8	6.094	28.3	9.0				
	CLA D6C	2.8	3.674	28.3	9.0				
	D7								
	D8								
7	CLA D6A	4.8	12.232	27.1	8.7				
	CLA D6B	4.8	6.094	27.1	8.7				
	CLA D6C	4.8	3.674	27.1	8.7				
	D7								
	D8								
8	CLA D6A	3.5	7.784	27.3	8.8				
	CLA D6B	3.5	3.878	27.3	8.8				
	CLA D6C	3.5	2.338	27.3	8.8				
	D7								
	D8								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	CLA D6A	3.5	7.784	28.6	8.9				
	CLA D6B	3.5	3.878	28.6	8.9				
	CLA D6C	3.5	2.338	28.6	8.9				
	D7								
	D8								
10	CLA D6A	3.5	7.951	27.2	8.7				
	CLA D6B	3.5	3.961	27.2	8.7				
	CLA D6C	3.5	2.388	27.2	8.7				
	D7								
	D8								
11	CLA D6A	3.3	10.008	28.4	8.4				
	CLA D6B	3.3	4.986	28.4	8.4				
	CLA D6C	3.3	3.006	28.4	8.4				
	D7								
	D8								
12	CLA D6A	2.7	10.008	26.6	8.3				
	CLA D6B	2.7	4.986	26.6	8.3				
	CLA D6C	2.7	3.006	26.6	8.3				
	D7								
	D8								
13	CLA D6A	2.9	12.232	28.5	8.3				
	CLA D6B	2.9	6.094	28.5	8.3				
	CLA D6C	2.9	3.674	28.5	8.3				
	D7								
	D8								
14	CLA D6A	3.2	11.120	28.7	8.4				
	CLA D6B	3.2	5.540	28.7	8.4				
	CLA D6C	3.2	3.340	28.7	8.4				
	D7								
	D8								
15	CLA D6A	4.1	8.896	28.8	9.1				
	CLA D6B	4.1	4.432	28.8	9.1				
	CLA D6C	4.1	2.672	28.8	9.1				
	D7								
	D8								
16	CLA D6A	4.4	8.896	27.5	9.2				
	CLA D6B	4.4	4.432	27.5	9.2				
	CLA D6C	4.4	2.672	27.5	9.2				
	D7								
	D8								

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: WO0023530, AW

Date: August 10, 2012

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 1981

PWS ID No.: 2430001

Month: July Year: 2012

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)	42.000	42.000	42.000	8.000	25.999	0.5	2.0
T ₁₀ (minutes)	1.0	1.2	13.8	142.7	1.8		

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
17	NA D1								
	NA D2								
	NA D3					1.35	3.88	1.93	
	CLA D4	2.3	14.000	27.0	8.7			(V)	
	CLA D5	2.4	18.000	27.1	9.3				
18	NA D1								
	NA D2								
	NA D3					1.27	3.75	1.88	
	CLA D4	2.5	14.000	27.7	9.4			(V)	
	CLA D5	2.7	18.000	28.0	9.3				
19	NA D1								
	NA D2								
	NA D3					0.99	3.38	1.69	
	CLA D4	1.8	14.000	30.1	9.0			(V)	
	CLA D5	2.8	18.000	30.2	9.0				
20	NA D1								
	NA D2								
	NA D3					1.24	3.58	1.79	
	CLA D4	2.7	14.000	26.9	9.3			(V)	
	CLA D5	3.0	18.000	27.1	9.4				
21	NA D1								
	NA D2								
	NA D3					1.98	5.61	2.81	
	CLA D4	4.6	14.000	26.7	8.6			(V)	
	CLA D5	2.7	16.000	27.0	9.1				
22	NA D1								
	NA D2								
	NA D3					4.03	11.92	5.96	
	CLA D4	5.5	8.000	27.7	9.4			(V)	
	CLA D5	5.0	10.000	28.0	9.1				
23	NA D1								
	NA D2								
	NA D3					3.51	9.46	4.73	
	CLA D4	5.5	10.000	26.9	8.7			(V)	
	CLA D5	4.2	12.000	27.9	8.5				
24	NA D1								
	NA D2								
	NA D3					3.20	10.99	5.49	
	CLA D4	6.2	12.000	30.5	9.4			(V)	
	CLA D5	6.1	16.000	28.0	9.3				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
25	NA D1								
	NA D2								
	NA D3					2.45	7.80	3.90	
	CLA D4	5.3	14.000	29.1	9.3			(V)	
	CLA D5	5.7	18.000	29.3	9.4				
26	NA D1								
	NA D2								
	NA D3					2.24	7.16	3.58	
	CLA D4	4.7	14.000	29.2	9.0			(V)	
	CLA D5	2.8	14.000	29.5	9.0				
27	NA D1								
	NA D2								
	NA D3					2.27	6.67	3.34	
	CLA D4	4.7	14.000	27.3	9.3			(V)	
	CLA D5	4.3	14.000	26.9	9.4				
28	NA D1								
	NA D2								
	NA D3					3.74	10.66	5.33	
	CLA D4	4.9	8.000	27.5	8.2			(V)	
	CLA D5	5.1	8.000	27.5	9.2				
29	NA D1								
	NA D2								
	NA D3					6.84	19.28	9.64	
	CLA D4	4.9	4.000	27.4	9.3			(V)	
	CLA D5	4.1	4.000	27.6	8.9				
30	NA D1								
	NA D2								
	NA D3					3.28	11.58	5.79	
	CLA D4	4.2	8.000	30.5	9.2			(V)	
	CLA D5	4.3	8.000	30.5	9.1				
31	NA D1								
	NA D2								
	NA D3					1.75	5.28	2.64	
	CLA D4	2.7	12.000	28.4	8.0			(V)	
	CLA D5	3.3	12.000	28.2	9.1				

Max	6.84	19.28
Min	0.99	3.38
Avg	2.72	7.85
SD	1.14	3.23

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

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Date: August 10, 2012

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 1961

PWS ID No.: 2430001

Month: July Year: 2012

DISINFECTION PROCESS PARAMETERS									
APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS			
Parameters	Disinfection Zones					Log Inactivations			
	D6A	D6B	D6C	D7	D8	Giardia lamblia Cysts		Virus	
Flow Rate (MGD)	36.400	6.759	8.840			0.5		2.0	
T ₁₀ (minutes)	59.2	53.0	24.3						

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time ₁₀
17	CLA D6A	2.8	13.344	28.5	9.1				
	CLA D6B	2.8	6.648	28.5	9.1				
	CLA D6C	2.8	4.008	28.5	9.1				
	D7								
	D8								
18	CLA D6A	2.1	13.344	28.9	9.1				
	CLA D6B	2.1	6.648	28.9	9.1				
	CLA D6C	2.1	4.008	28.9	9.1				
	D7								
	D8								
19	CLA D6A	1.9	13.900	30.5	9.0				
	CLA D6B	1.9	6.925	30.5	9.0				
	CLA D6C	1.9	4.175	30.5	9.0				
	D7								
	D8								
20	CLA D6A	1.7	13.900	30.0	8.7				
	CLA D6B	1.7	6.925	30.0	8.7				
	CLA D6C	1.7	4.175	30.0	8.7				
	D7								
	D8								
21	CLA D6A	2.2	12.788	29.7	8.8				
	CLA D6B	2.2	6.371	29.7	8.8				
	CLA D6C	2.2	3.841	29.7	8.8				
	D7								
	D8								
22	CLA D6A	2.9	9.452	29.6	8.7				
	CLA D6B	2.9	4.709	29.6	8.7				
	CLA D6C	2.9	2.839	29.6	8.7				
	D7								
	D8								
23	CLA D6A	3.5	10.008	26.5	8.8				
	CLA D6B	3.5	4.986	26.5	8.8				
	CLA D6C	3.5	3.006	26.5	8.8				
	D7								
	D8								
24	CLA D6A	3.9	13.344	29.8	8.8				
	CLA D6B	3.9	6.648	29.8	8.8				
	CLA D6C	3.9	4.008	29.8	8.8				
	D7								
	D8								

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time ₁₀
25	CLA D6A	3.6	14.456	29.4	8.9				
	CLA D6B	3.6	7.202	29.4	8.9				
	CLA D6C	3.6	4.342	29.4	8.9				
	D7								
	D8								
26	CLA D6A	3.6	14.456	29.4	9.0				
	CLA D6B	3.6	7.202	29.4	9.0				
	CLA D6C	3.6	4.342	29.4	9.0				
	D7								
	D8								
27	CLA D6A	3.6	14.122	29.5	8.9				
	CLA D6B	3.6	7.036	29.5	8.9				
	CLA D6C	3.6	4.242	29.5	8.9				
	D7								
	D8								
28	CLA D6A	3.5	11.120	27.9	9.1				
	CLA D6B	3.5	5.540	27.9	9.1				
	CLA D6C	3.5	3.340	27.9	9.1				
	D7								
	D8								
29	CLA D6A	3.7	8.896	27.6	8.8				
	CLA D6B	3.7	4.432	27.6	8.8				
	CLA D6C	3.7	2.672	27.6	8.8				
	D7								
	D8								
30	CLA D6A	3.3	11.120	31.2	8.6				
	CLA D6B	3.3	5.540	31.2	8.6				
	CLA D6C	3.3	3.340	31.2	8.6				
	D7								
	D8								
31	CLA D6A	3.5	14.122	28.4	9.0				
	CLA D6B	3.5	7.036	28.4	9.0				
	CLA D6C	3.5	4.242	28.4	9.0				
	D7								
	D8								
						Max			
						Min			
						Avg			
						SD			

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