

SURFACE WATER MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER

Summary Page

PUBLIC WATER SYSTEM NAME: <u>City of Corsicana</u>	PLANT NAME OR NUMBER: <u>Lake Halbert</u>
I certify that I am familiar with the information contained in this report and that, to the best of my knowledge, the information is true, complete, and accurate.	
PWS ID No.: <u>1750002</u> Report for the Month of: <u>July 2009</u>	Operator's Signature: _____ Certificate No. & Grade: <u>W00012234 A</u> Date: <u>August 3, 2009</u>

TREATMENT PLANT PERFORMANCE			
Total number of turbidity readings:	167	Number of 4-hour periods when plant was off-line:	19
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:	0		
Number of readings above 0.5 NTU:	0		
Number of readings above 1.0 NTU:	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:	Average turbidity value:	0.08 NTU
	Minimum turbidity reading:	Standard deviation:	0.016 NTU
Additional report(s) for individual filter monitoring required:		<input checked="" type="radio"/> NONE <input type="radio"/> Filter Profile <input type="radio"/> Filter Assessment <input type="radio"/> CPE	
Additional report(s) for individual filter monitoring submitted:		<input checked="" type="radio"/> NONE <input type="radio"/> Filter Profile <input type="radio"/> Filter Assessment <input type="radio"/> CPE	
		Number of days when plant was on-line but individual filter turbidity data was not collected: <u>0</u>	
Number of days with a low CT for no more than 4.0 consecutive hours:	0	Average log inactivation for Giardia:	NA
Number of days with a low CT for more than 4.0 consecutive hours:	0 (4)	Average log inactivation for viruses:	NA
		Number of days when profiling data was not collected:	31
		Number of days when CT data was not collected:	31
Minimum disinfectant residual required leaving the plant:	0.2 mg/L	<input checked="" type="radio"/> Free Chlorine <input type="radio"/> 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:	0.2 mg/L	<input checked="" type="radio"/> Free Chlorine <input type="radio"/> Total Chlorine	
Total number of readings this month:	61	Percentage of readings with a low residual this month:	0.0 % (6A)
Average disinfectant residual value:	1.43	Percentage of readings with a low residual last month:	0.0 % (6B)
Number of readings with a low residual:	0		
Number of readings with no detectable residual:	0		

PUBLIC NOTIFICATION			
TREATMENT TECHNIQUE VIOLATIONS	YES/NO	If YES, date when notice was given to:	
		COMMISSIONERS	CUSTOMERS*
Were more than 5.0% of the turbidity readings above the acceptable level? - see (1) above	No		
Were there any days with turbidity readings above 1.0 NTU? - see (2) above	No		
Were there any days with turbidity readings above 5.0 NTU? - see (3) above	No		
Were there any periods when the plant failed to meet the CT requirements for more than 4.0 consecutive hours? - see (4) above	No		
Were there any periods when the residuals leaving the plant fell below the acceptable level for more than 4.0 consecutive hours? - see (5) above	No		
Were more than 5.0% of the residuals in the distribution system below the acceptable level for two months in a row? - see (6A) and (6B) above	No		

Due by the end of the next business day.
 * Copies of each Public Notice must accompany this report.

Submit the report by the 10th of the month following the reporting period to:

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

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 Corsicana

PLANT NAME OR NUMBER: Lake Halbert

PWS ID No.: 1750002

Connections: 11,500

Month: July Year: 2009

Population: 28,500

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	3.389	3.200	28	126							0.07	0.07	0.09	0.08	0.08	0.08	3.0	
2	2.008	1.790	58	118							X	X	X	X	0.08	0.08	2.5	
3	1.812	1.571	27	115							0.10	0.07	0.07	0.06	0.07	0.08	3.0	
4	2.437	2.337	13	115							0.09	0.08	0.09	0.09	0.08	0.08	2.9	
5	1.454	1.327	20	120							X	X	X	0.08	0.09	0.08	2.9	
6	2.125	2.113	32	125							0.06	X	0.09	0.07	0.06	0.06	3.0	
7	2.002	1.642	34	124							0.07	0.06	0.08	0.08	0.08	0.09	2.7	
8	1.702	1.439	31	122							0.06	0.06	0.07	0.07	0.08	0.08	3.3	
9	1.748	1.374	47	115							0.08	0.08	0.08	0.08	0.06	0.07	2.7	
10	1.736	1.395	47	115							0.07	0.07	0.06	0.11	0.16	0.11	2.7	
11	1.732	1.490	34	116							0.11	0.09	0.09	0.07	0.07	0.07	3.0	
12	1.734	1.488	31	122							0.08	0.08	0.10	0.08	0.08	0.09	3.1	
13	1.801	1.546	30	120							0.09	0.09	0.08	0.07	0.08	0.08	3.0	
14	2.256	2.148	29	119							0.07	0.07	0.07	0.07	0.08	0.10	3.2	
15	1.910	1.472	27	119							0.09	0.08	0.10	0.09	0.07	0.08	3.2	
16	2.550	2.442	32	120							0.08	0.08	0.08	0.07	0.07	0.07	2.9	
17	2.680	2.579	57	117							0.07	0.08	0.10	0.08	0.07	0.08	2.8	
18	1.914	1.541	41	117							0.08	0.10	0.08	0.08	0.07	0.08	2.9	
19	1.501	1.258	36	125							X	X	0.08	0.08	0.09	0.08	2.8	
20	1.432	1.122	40	125							X	X	X	X	0.14	0.13	2.5	
21	1.994	1.670	27	121							0.10	0.09	0.09	0.08	0.06	0.06	2.8	
22	2.587	2.514	30	121							0.07	0.07	0.07	0.07	0.06	0.08	3.0	
23	2.125	2.111	31	117							0.08	0.09	0.08	0.07	0.11	0.08	3.1	
24	2.024	1.915	28	117							0.07	0.07	0.09	0.08	0.08	0.10	2.9	
25	2.022	1.998	40	117							0.09	0.08	0.08	0.08	0.08	0.08	2.8	
26	2.300	2.286	34	124							0.09	0.09	0.07	0.07	0.06	0.07	3.3	
27	1.565	1.162	36	123							X	X	0.09	0.11	0.07	0.08	2.2	
28	2.100	2.085	31	121							0.09	0.09	0.09	0.08	0.09	0.08	2.8	
29	2.701	2.603	25	117							0.07	0.07	0.07	0.09	0.09	0.09	3.2	
30	1.959	1.537	30	119							0.13	0.12	X	0.14	0.08	0.08	3.1	
31	1.650	1.631	30	120							0.09	0.08	0.10	X	X	0.08	2.5	
Total	62.950	56.786																
Avg	2.031	1.832																
Max	3.389	3.200																
Min	1.432	1.122																

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: W00012234 A Date: August 3, 2009

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 Corsicana
PWS ID No.: 1750002

PLANT NAME
OR NUMBER: Lake Halbert
Month: July Year: 2009

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																		
1	0.05	X	0.04	X	0.06	X	0.06	X												
2	0.04	0.04	0.06	0.06	0.05	0.05	0.07	0.07												
3	0.03	X	X	X	0.08	X	0.06	0.05												
4	0.07	0.07	0.05	0.05	0.08	X	0.06	X												
5	0.05	0.05	X	X	0.07	0.07	0.06	0.05												
6	0.04	0.04	X	X	0.04	0.04	0.06	0.05												
7	0.06	0.06	X	X	0.04	X	0.05	X												
8	0.04	X	X	X	0.04	X	X	X												
9	0.04	X	0.04	0.04	0.04	X	0.08	0.08												
10	0.11	0.11	0.16	X	X	X	0.20	X												
11	0.06	X	X	X	X	X	0.09	X												
12	0.07	0.07	X	X	X	X	0.08	X												
13	0.07	X	X	X	X	X	0.07	X												
14	0.04	X	X	X	0.08	0.08	0.11	0.11												
15	0.08	0.08	X	X	0.04	0.04	0.13	X												
16	0.05	X	X	X	0.03	0.03	0.13	X												
17	0.04	X	X	X	0.06	X	0.10	X												
18	0.03	X	0.04	0.03	X	X	0.09	X												
19	0.08	0.08	X	X	0.07	0.07	0.05	0.04												
20	0.05	0.05	X	X	0.05	0.05	0.12	0.12												
21	0.05	X	X	X	0.05	X	0.13	X												
22	0.04	X	0.03	0.03	0.04	X	0.08	X												
23	X	X	0.03	X	0.04	X	0.08	X												
24	X	X	0.12	X	0.06	X	0.07	X												
25	X	X	0.09	0.03	0.06	X	0.06	X												
26	X	X	0.08	X	0.05	X	0.05	X												
27	0.08	0.08	X	X	0.07	0.07	0.06	0.06												
28	0.05	X	X	X	0.04	X	0.11	0.11												
29	0.04	X	X	X	0.07	X	0.09	X												
30	0.08	0.08	X	X	0.06	0.06	0.07	0.07												
31	0.05	0.05	X	X	0.05	0.05	0.08	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								
	Number of days with event(s) above 1.0 NTU this month	0	0	0	0								
	Number of days with event(s) above 1.0 NTU last month	0	0	0	0								
	Number of days with event(s) above 1.0 NTU two months ago	0	0	0	0								
	Total number of days with event(s) above 1.0 NTU in three months	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 plant have an approved Corrective Action Plan?	N	N	N	N							N	
Is the plant required to submit a Filter Profile Report?	N	N	N	N									
Is the plant required to submit a Filter Assessment Report?	N	N	N	N									
Is the plant required to submit a Request for Compliance CPE?											N		

SUBMITTED BY: _____ Certificate No. and Grade: W00012234 A Date: August 3, 2009

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 Corsicana PLANT NAME OR NUMBER: Lake Halbert PUBLIC SYSTEM ID No.: 1750002 Month: July Year: 2009 PWS IC

DISINFECTION PROCESS PARAMETERS										
APPROVED CT STUDY PARAMETERS					PERFORMANCE STANDARDS					
Parameters	Disinfection Zones					Log Inactivations				Param
	D1	D2	D3	D4	D5	Giardia lamblia Cysts		Viruses		
Flow Rate (MGD)	4.000	4.000	4.000			0.5		2.0		Flow
T ₁₀ (minutes)	78.3	15.1	9.0							T ₁₀ (n

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								
	FCL D2	3.6	4.000	30.0	7.2				
	FCL D3	3.5	4.000	30.0	7.2				
	D4								
	D5								
2	NA D1								
	FCL D2	2.8	4.000	29.0	7.6				
	FCL D3	2.5	4.000	30.0	7.6				
	D4								
	D5								
3	NA D1								
	FCL D2	3.5	2.500	29.0	7.8				
	FCL D3	3.3	2.500	29.0	7.6				
	D4								
	D5								
4	NA D1								
	FCL D2	3.1	4.000	3.0	7.7				
	FCL D3	2.9	4.000	3.0	7.6				
	D4								
	D5								
5	NA D1								
	FCL D2	3.3	2.500	29.0	7.5				
	FCL D3	2.9	2.500	29.0	7.5				
	D4								
	D5								
6	NA D1								
	FCL D2	3.6	2.500	30.0	7.4				
	FCL D3	3.6	2.500	30.0	7.4				
	D4								
	D5								
7	NA D1								
	FCL D2	3.4	2.400	29.0	7.4				
	FCL D3	3.3	2.400	30.0	7.3				
	D4								
	D5								
8	NA D1								
	FCL D2	3.6	2.000	29.0	7.6				
	FCL D3	3.7	2.000	29.0	7.3				
	D4								
	D5								

PERFORMANCE DATA										
DISINFECTION PROCESS DATA										
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time	Date
9	NA D1									17
	FCL D2	3.6	2.000	29.0	7.5					
	FCL D3	3.3	2.000	29.0	7.5					
	D4									
	D5									
10	NA D1									18
	FCL D2	3.9	2.000	28.0	7.0					
	FCL D3	3.8	2.000	28.0	6.9					
	D4									
	D5									
11	NA D1									19
	FCL D2	3.6	2.000	27.0	7.5					
	FCL D3	3.6	2.000	27.0	7.4					
	D4									
	D5									
12	NA D1									20
	FCL D2	3.6	2.000	29.0	7.5					
	FCL D3	3.4	2.000	30.0	7.4					
	D4									
	D5									
13	NA D1									21
	FCL D2	3.8	2.000	29.0	7.4					
	FCL D3	3.4	2.000	30.0	7.3					
	D4									
	D5									
14	NA D1									22
	FCL D2	3.7	2.400	30.0	7.3					
	FCL D3	3.3	2.400	31.0	7.3					
	D4									
	D5									
15	NA D1									23
	FCL D2	3.7	2.200	30.0	7.4					
	FCL D3	3.6	2.200	31.0	7.2					
	D4									
	D5									
16	NA D1									24
	FCL D2	3.8	2.300	30.0	7.5					
	FCL D3	3.5	2.300	30.0	7.3					
	D4									
	D5									

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

SUBMITTED BY: _____ Certificate No. _____ and Grade: W00012234 A Date: August 3, 2009 SUBMI

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.)

C WATER PLANT NAME
 EM NAME: City of Corsicana OR NUMBER: Lake Halbert
 D No.: 1750002 Month: July Year: 2009

DISINFECTION PROCESS PARAMETERS							
APPROVED CT STUDY PARAMETERS					PERFORMANCE STANDARDS		
meters	Disinfection Zones					Log Inactivations	
	D1	D2	D3	D4	D5	Giardia lamblia Cysts	Virus
Rate (MGD)	4.000	4.000	4.000			0.5	2.0
minutes)	78.3	15.1	9.0				

PERFORMANCE DATA								
DISINFECTION PROCESS DATA								
Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
NA D1								
FCL D2	3.9	3.000	28.0	7.5				
FCL D3	2.8	3.000	30.0	7.3				
D4								
D5								
NA D1								
FCL D2	4.2	2.300	27.0	7.2				
FCL D3	2.9	2.300	27.0	7.4				
D4								
D5								
NA D1								
FCL D2	3.4	2.300	29.0	7.5				
FCL D3	2.8	2.300	28.0	7.2				
D4								
D5								
NA D1								
FCL D2	2.5	2.300	28.0	7.5				
FCL D3	2.6	2.300	29.0	7.4				
D4								
D5								
NA D1								
FCL D2	3.2	2.300	29.0	7.4				
FCL D3	3.0	2.300	29.0	7.3				
D4								
D5								
NA D1								
FCL D2	3.8	2.500	28.0	7.2				
FCL D3	3.3	2.500	29.0	7.2				
D4								
D5								
NA D1								
FCL D2	3.7	2.300	28.0	7.5				
FCL D3	3.9	2.300	29.0	7.3				
D4								
D5								
NA D1								
FCL D2	4.2	2.300	28.0	7.3				
FCL D3	3.2	2.300	25.0	7.3				
D4								
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								
	FCL D2	3.5	2.300	26.0	7.6				
	FCL D3	3.3	2.300	26.0	7.5				
	D4								
	D5								
26	NA D1								
	FCL D2	3.7	2.300	28.0	7.3				
	FCL D3	3.5	2.300	29.0	7.5				
	D4								
	D5								
27	NA D1								
	FCL D2	2.9	2.300	27.0	7.4				
	FCL D3	2.8	2.300	27.0	7.4				
	D4								
	D5								
28	NA D1								
	FCL D2	3.4	2.300	28.0	7.3				
	FCL D3	3.1	2.300	29.0	7.3				
	D4								
	D5								
29	NA D1								
	FCL D2	3.7	2.300	28.0	7.4				
	FCL D3	3.3	2.300	29.0	7.4				
	D4								
	D5								
30	NA D1								
	FCL D2	3.2	2.400	27.0	7.5				
	FCL D3	3.5	2.400	27.0	7.5				
	D4								
	D5								
31	NA D1								
	FCL D2	3.7	2.400	28.0	7.5				
	FCL D3	3.3	2.400	27.0	7.4				
	D4								
	D5								
						Max	NA	NA	
						Min	NA	NA	
						Avg	NA	NA	
						SD	NA	NA	

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

ISSUED BY: _____ Certificate No. _____ and Grade: W00012234 A Date: August 3, 2009