

# 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 Corsicana

PLANT NAME OR NUMBER: Lake Halbert

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.: 1750002  
Report for the Month of: September 2006

Operator's Signature: \_\_\_\_\_  
Certificate No. & Grade: W00012234 A Date: October 2, 2006

TREATMENT PLANT PERFORMANCE			
Total number of turbidity readings:	<u>159</u>	Number of 4-hour periods when plant was off-line:	<u>21</u>
Number of readings above 0.10 NTU:	<u>18</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 readings above 0.5 NTU:	<u>0</u>		
Number of readings above 1.0 NTU:	<u>0</u>		
Maximum allowable turbidity level:	<u>0.3</u>	Number of days with readings above 1.0 NTU:	<u>0</u> (2)
Percentage of readings above this limit:	<u>0.0</u> % (1)	Number of days with readings above 5.0 NTU:	<u>0</u> (3)
Statistical Summary	Maximum turbidity reading: <u>0.12</u> NTU	Average turbidity value:	<u>0.08</u> NTU
	Minimum turbidity reading: <u>0.04</u> NTU	Standard deviation:	<u>0.019</u> NTU
Additional report(s) for individual filter monitoring required:	<input checked="" type="radio"/> NONE	<input type="radio"/> Filter Profile	<input type="radio"/> Filter Assessment
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	<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:	<u>0</u>	Average log inactivation for Giardia:	<u>NA</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>NA</u>
		Number of days when profiling data was not collected:	<u>29</u>
		Number of days when CT data was not collected:	<u>29</u>
Minimum disinfectant residual required leaving the plant:	<u>0.5</u> mg/L	<input type="radio"/> Free Chlorine	<input checked="" type="radio"/> 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	<input type="radio"/> Free Chlorine	<input checked="" type="radio"/> Total Chlorine
Total number of readings this month:	<u>55</u>	Percentage of readings with a low residual this month:	<u>0.0</u> % (6A)
Average disinfectant residual value:	<u>2.69</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>		

PUBLIC NOTIFICATION			
TREATMENT TECHNIQUE VIOLATIONS	YES/NO	If YES, date when notice was given to:	
		COMMISSION	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: 8,734

Month: September Year: 2006

Population: 24,485

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	3.375	3.368	33	124							X	0.08	0.07	0.06	0.07	0.07	3.1	
2	3.700	3.694	27	122							0.06	0.07	0.05	0.05	0.05	0.06	3.6	
3	3.453	3.111	28	125							0.04	0.05	0.06	0.05	0.05	0.05	3.3	
4	3.055	2.992	34	122							0.08	0.08	0.09	0.09	0.08	0.09	2.5	
5	3.540	3.536	30	118							0.07	0.07	0.10	0.08	0.08	0.07	2.5	
6	2.015	1.921	29	122							0.07	0.08	0.11	0.08	0.07	0.07	3.2	
7	2.178	2.154	22	123							0.06	0.07	0.09	0.07	0.06	0.06	3.2	
8	2.390	2.386	22	122							0.07	0.06	0.08	0.09	0.06	0.07	3.0	
9	3.880	3.874	34	123							0.06	0.06	0.05	0.05	0.04	0.05	3.3	
10	3.008	2.826	38	127							0.04	0.05	0.06	0.05	0.05	0.05	3.2	
11	3.141	3.074	46	138							0.07	0.07	0.08	0.08	0.07	0.07	2.7	
12	3.368	3.262	41	125							0.06	0.07	0.09	0.09	0.08	0.08	3.2	
13	2.000	1.961	43	125							0.08	0.07	0.09	0.08	0.08	0.07	3.2	
14	2.005	1.909	32	126							0.10	0.09	0.09	0.09	0.07	0.07	2.7	
15	2.717	2.600	32	125							0.07	0.07	0.12	0.11	0.11	0.09	2.5	
16	2.750	2.743	24	124							0.09	0.11	0.11	0.07	0.07	0.10	3.0	
17	2.802	2.738	30	123							0.07	0.07	0.08	0.07	0.07	0.08	2.5	
18	1.225	1.216	36	125							0.08	X	X	X	0.09	0.08	3.1	
19	2.793	2.705	36	125							0.07	0.07	0.08	0.07	0.08	X	2.6	
20	2.578	2.508	23	124							X	X	0.12	0.11	0.09	0.10	3.2	
21	1.760	1.758	24	125							0.09	0.09	0.08	0.08	0.08	X	3.2	
22	0.415	0.407	19	129							X	X	X	X	X	0.10	3.0	
23	2.145	2.101	36	126							0.09	0.07	0.09	0.07	0.07	0.06	2.8	
24	0.000	0.000	X	X	X	X					X	X	X	X	X	X	X	
25	2.430	2.428	35	126							X	X	0.12	0.10	0.12	0.08	2.7	
26	2.180	2.135	31	126							0.10	0.10	0.11	0.10	0.10	0.09	3.3	
27	2.170	1.952	29	126							0.09	0.10	0.11	0.11	0.09	0.07	3.3	
28	2.177	2.156	31	126							0.10	0.11	0.12	0.11	0.10	0.11	3.1	
29	2.575	2.571	38	127							0.09	0.10	0.11	0.06	0.07	0.10	3.1	
30	3.200	3.196	32	125							0.10	0.10	0.07	0.06	0.05	0.07	3.0	
31																		
<b>Total</b>	75.025	73.282																
<b>Avg</b>	2.501	2.443																
<b>Max</b>	3.880	3.874																
<b>Min</b>	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: W00012234 A Date: October 2, 2006

# 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: September Year: 2006

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		
1	0.09	0.09	0.05	0.05	0.06	0.06	0.07	0.07												
2	0.06	X	0.05	X	0.05	X	0.06	X												
3	0.08	0.08	0.09	0.09	0.05	X	0.09	0.07												
4	0.08	X	0.08	0.07	0.10	0.09	0.09	X												
5	0.06	X	0.07	X	0.09	X	0.07	X												
6	0.07	0.07	X	X	0.06	X	0.07	X												
7	0.06	X	X	X	0.05	X	0.07	X												
8	0.05	X	X	X	0.05	X	0.06	X												
9	0.07	X	0.05	0.05	0.05	X	0.06	X												
10	0.07	0.07	0.08	0.08	0.05	X	0.06	X												
11	0.08	X	0.08	X	0.04	X	0.09	0.09												
12	0.07	X	0.07	X	0.14	0.10	0.08	X												
13	0.05	X	0.07	X	0.08	X	0.08	X												
14	0.05	X	0.06	X	0.07	X	0.06	X												
15	0.11	0.11	0.14	0.13	0.08	X	0.08	X												
16	0.09	X	0.09	X	0.07	X	0.07	X												
17	0.07	X	0.06	0.06	0.07	X	0.09	0.09												
18	0.06	0.06	0.06	X	0.05	0.05	0.12	0.06												
19	0.05	X	0.05	0.05	0.08	0.08	0.12	X												
20	0.11	0.11	0.05	X	0.09	0.09	0.07	0.07												
21	0.08	X	0.04	X	0.07	X	0.06	X												
22	0.06	0.06	X	X	0.07	0.07	0.07	0.07												
23	0.06	X	X	X	0.07	X	0.07	X												
24	X	X	X	X	X	X	X	X												
25	0.05	0.05	0.11	0.11	0.06	0.06	0.06	0.06												
26	0.05	X	0.09	X	0.06	X	0.05	X												
27	0.11	0.11	0.07	X	0.06	X	0.08	0.06												
28	0.08	X	0.06	X	0.09	0.09	0.08	X												
29	0.07	X	0.05	X	0.09	X	0.08	X												
30	0.07	X	0.05	X	0.08	X	0.08	X												
31																				

  

SUMMARY & COMPLIANCE ACTIONS	Filter No.											Plant	
	Criteria	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: October 2, 2006

# 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  
PWS ID No.: 1750002

PLANT NAME OR NUMBER: Lake Halbert  
Month: September Year: 2006 PWS IC

DISINFECTION PROCESS PARAMETERS										
APPROVED CT STUDY PARAMETERS					PERFORMANCE STANDARDS					
Parameters	Disinfection Zones					Log Inactivations				Parar
	D1	D2	D3	D4	D5	Giardia lamblia Cysts		Viruses		
Flow Rate (MGD)	4.000					0.5		2.0		Flow
T <sub>10</sub> (minutes)	18.0									T <sub>10</sub> (m

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time <sup>h</sup>
1	FCL D1	2.7	3.700	26.0	7.3				
	D2								
	D3								
	D4								
	D5								
2	FCL D1	3.9	3.700	27.0	7.3				
	D2								
	D3								
	D4								
	D5								
3	FCL D1	3.8	3.700	29.0	7.3				
	D2								
	D3								
	D4								
	D5								
4	FCL D1	3.1	3.700	28.0	7.3				
	D2								
	D3								
	D4								
	D5								
5	FCL D1	3.7	3.700	27.0	7.3				
	D2								
	D3								
	D4								
	D5								
6	FCL D1	4.0	2.500	24.0	7.4				
	D2								
	D3								
	D4								
	D5								
7	FCL D1	3.4	2.500	26.0	7.4				
	D2								
	D3								
	D4								
	D5								
8	FCL D1	3.8	3.700	25.0	7.3				
	D2								
	D3								
	D4								
	D5								

PERFORMANCE DATA										
DISINFECTION PROCESS DATA										
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time <sup>h</sup>	Date
9	FCL D1	3.5	4.000	24.0	7.2					17
	D2									
	D3									
	D4									
	D5									
10	FCL D1	3.6	4.000	26.0	7.2					18
	D2									
	D3									
	D4									
	D5									
11	FCL D1	3.9	3.900	25.0	7.3					19
	D2									
	D3									
	D4									
	D5									
12	FCL D1	3.4	3.700	25.0	7.4					20
	D2									
	D3									
	D4									
	D5									
13	FCL D1	3.8	2.300	25.0	7.3					21
	D2									
	D3									
	D4									
	D5									
14	FCL D1	3.5	2.300	24.0	7.4					22
	D2									
	D3									
	D4									
	D5									
15	FCL D1	3.8	3.700	25.0	7.5					23
	D2									
	D3									
	D4									
	D5									
16	FCL D1	3.2	3.700	25.0	7.5					24
	D2									
	D3									
	D4									
	D5									

NOTE:  ONLY use the "Time<sup>h</sup>" 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: October 2, 2006 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  
M NAME: City of Corsicana  
D No.: 1750002

PLANT NAME  
OR NUMBER: Lake Halbert  
Month: September Year: 2006

DISINFECTION PROCESS PARAMETERS							
APPROVED CT STUDY PARAMETERS					PERFORMANCE STANDARDS		
Disinfection Zones					Log Inactivations		
meters	D1	D2	D3	D4	D5	Giardia lamblia Cysts	Virus
Rate (MGD)	4.000					0.5	2.0
minutes)	18.0						

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time	
FCL D1	4.0	3.700	26.0	7.2					
D2									
D3									
D4									
D5									
FCL D1	3.7	3.700	26.0	7.2					
D2									
D3									
D4									
D5									
FCL D1	3.7	3.700	26.0	7.3					
D2									
D3									
D4									
D5									
FCL D1	3.7	3.700	23.0	7.5					
D2									
D3									
D4									
D5									
FCL D1	3.6	3.700	25.0	7.5					
D2									
D3									
D4									
D5									
FCL D1	3.3	2.300	25.0	7.4					
D2									
D3									
D4									
D5									
FCL D1	3.8	2.800	24.0	7.4					
D2									
D3									
D4									
D5									
NA D1									
D2									
D3					NA	NA	NA		
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	FCL D1	3.1	3.700	23.0	7.3				
	D2								
	D3								
	D4								
	D5								
26	FCL D1	3.6	2.500	24.0	7.4				
	D2								
	D3								
	D4								
	D5								
27	FCL D1	3.8	2.500	24.0	7.4				
	D2								
	D3								
	D4								
	D5								
28	FCL D1	3.6	2.500	24.0	7.4				
	D2								
	D3								
	D4								
	D5								
29	FCL D1	4.5	3.500	23.0	7.5				
	D2								
	D3								
	D4								
	D5								
30	FCL D1	3.3	3.500	23.0	7.3				
	D2								
	D3								
	D4								
	D5								
31	D1								
	D2								
	D3								
	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: October 2, 2006