

# 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: October 2005

Operator's Signature: \_\_\_\_\_  
Certificate No. & Grade: W00012234 Water A Date: November 1, 2005

TREATMENT PLANT PERFORMANCE			
Total number of turbidity readings:	104	Number of 4-hour periods when plant was off-line:	82
Number of readings above 0.10 NTU:	2	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:	0.12 NTU	Average turbidity value:
	Minimum turbidity reading:	0.04 NTU	0.07 NTU
			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
Additional report(s) for individual filter monitoring submitted:	<input checked="" type="radio"/> NONE	<input type="radio"/> Filter Profile	<input type="radio"/> Filter Assessment
#NAME?		Number of days when plant was on-line but individual filter turbidity data was not collected:	0
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:	26
		Number of days when CT data was not collected:	26
Minimum disinfectant residual required leaving the plant:	0.5 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:	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	<input type="radio"/> Free Chlorine	<input checked="" type="radio"/> Total Chlorine
Total number of readings this month:	56		
Average disinfectant residual value:	2.69	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)

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: October Year: 2005

Population: 24,285

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	0.000	X	X	X	X						X	X	X	X	X	X	
2	1.216	1.194	48	118								X	X	X	X	0.06	0.06	2.6
3	2.530	2.522	46	121								0.06	0.07	0.07	0.10	0.06	0.07	3.2
4	0.000	0.000	X	X	X	X						X	X	X	X	X	X	X
5	2.398	2.329	24	124								X	X	0.07	0.05	0.05	0.07	3.5
6	2.645	2.564	31	118								0.05	0.04	0.05	0.05	0.06	X	3.4
7	2.125	2.100	32	121								X	X	X	0.05	0.05	0.05	3.2
8	3.485	3.428	36	120								0.06	0.07	0.07	0.06	0.06	0.05	3.4
9	0.398	0.393	26	125								0.06	0.08	X	X	X	X	3.6
10	0.000	0.000	X	X	X	X						X	X	X	X	X	X	X
11	2.310	2.223	33	122								X	X	0.11	0.10	0.10	0.08	3.0
12	1.610	1.493	32	122								0.08	0.09	0.08	0.08	X	X	3.7
13	0.955	0.952	56	122								X	X	X	X	X	0.08	3.3
14	2.083	1.865	31	125								0.08	0.08	0.08	0.08	0.08	0.09	3.4
15	2.475	2.471	22	119								0.09	0.09	0.07	0.08	0.07	0.08	3.3
16	0.000	0.000	X	X	X	X						X	X	X	X	X	X	X
17	2.410	2.405	24	122								X	X	0.09	0.08	0.08	0.08	2.9
18	3.410	3.404	29	123								0.08	0.07	0.07	0.07	0.08	0.09	3.2
19	0.815	0.812	31	122								0.08	0.08	X	X	X	0.09	3.6
20	3.209	3.030	30	127								0.08	0.07	0.07	0.07	0.07	0.08	3.1
21	2.189	1.974	28	127								0.10	0.12	0.10	X	0.10	0.09	2.9
22	2.335	2.142	26	127								0.10	0.09	0.08	0.07	0.10	0.07	2.9
23	0.000	0.000	X	X	X	X						X	X	X	X	X	X	X
24	1.185	1.088	35	124								X	X	X	X	0.09	0.05	2.9
25	3.507	3.434	31	126								0.06	0.05	0.06	0.06	0.06	0.06	3.0
26	2.340	2.337	39	128								X	X	X	0.08	0.06	0.05	3.6
27	1.841	1.776	30	126								0.06	0.07	0.06	0.07	X	X	3.4
28	1.305	1.301	30	136								X	X	X	X	0.05	0.05	3.2
29	1.298	1.223	25	124								0.06	0.06	0.05	0.05	X	X	3.3
30	1.055	0.990	29	124								X	X	X	X	X	0.08	3.3
31	1.421	1.357	20	125								0.06	0.06	0.07	X	X	X	3.2
Total	52.550	50.807																
Avg	1.695	1.639																
Max	3.507	3.434																
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: W00012234 Water A Date: November 1, 2005

# 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: October Year: 2005

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	X	X	X	X	X	X	X	X												
2	0.07	0.07	0.10	0.10	0.09	0.09	0.20	0.20												
3	0.11	X	0.10	X	0.08	X	0.14	X												
4	X	X	X	X	X	X	X	X												
5	0.06	0.06	0.12	0.12	0.07	0.07	0.14	0.14												
6	0.06	X	0.11	X	0.11	0.11	0.14	X												
7	0.05	0.05	0.11	0.10	0.10	0.10	0.14	0.14												
8	0.09	0.09	0.10	X	0.10	X	0.14	X												
9	0.07	X	0.09	X	0.09	X	0.14	X												
10	X	X	X	X	X	X	X	X												
11	0.06	0.06	0.15	0.15	0.08	0.08	0.15	0.15												
12	0.06	X	0.13	X	0.08	X	0.17	0.16												
13	0.05	0.05	0.11	0.11	0.08	0.07	0.16	0.15												
14	0.08	0.07	0.11	X	0.10	0.10	0.16	X												
15	0.08	X	0.09	X	0.10	X	0.14	X												
16	X	X	X	X	X	X	X	X												
17	0.06	0.06	0.13	0.13	0.09	0.09	0.14	0.14												
18	0.06	X	0.11	X	0.09	X	0.14	X												
19	0.05	0.05	0.10	0.10	0.08	0.08	0.14	0.14												
20	0.08	0.08	0.10	X	0.12	0.12	0.14	X												
21	0.07	0.06	0.09	0.09	0.10	0.09	0.14	0.13												
22	0.06	X	0.12	0.12	0.08	X	0.15	0.14												
23	X	X	X	X	X	X	X	X												
24	0.06	0.05	0.11	0.11	0.08	0.08	0.15	0.13												
25	0.09	0.09	0.11	X	0.08	X	0.15	X												
26	0.07	0.07	0.10	0.10	0.08	0.08	0.14	0.14												
27	0.07	X	0.10	X	0.13	0.13	0.14	X												
28	0.06	0.06	0.10	0.09	0.11	0.11	0.14	0.14												
29	0.06	X	0.12	0.12	0.09	X	0.13	X												
30	0.05	0.05	0.12	0.12	0.09	0.09	0.14	0.14												
31	0.08	0.08	0.12	X	0.09	X	0.14	X												

  

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 Water A Date: November 1, 2005

# 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: October Year: 2005

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)	4.000					0.5	2.0
T <sub>10</sub> (minutes)	18.0						

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							
D2									
D3						NA	NA	NA	
D4									
D5									
2	FCL D1	3.5	3.300	26.0	7.4				
	D2								
	D3								
	D4								
	D5								
3	FCL D1	3.8	3.300	26.0	7.4				
	D2								
	D3								
	D4								
	D5								
4	NA D1								
	D2								
	D3					NA	NA	NA	
	D4								
	D5								
5	FCL D1	2.8	3.300	25.0	7.5				
	D2								
	D3								
	D4								
	D5								
6	FCL D1	3.4	3.500	25.0	7.4				
	D2								
	D3								
	D4								
	D5								
7	FCL D1	3.0	3.500	23.0	7.6				
	D2								
	D3								
	D4								
	D5								
8	FCL D1	3.1	3.500	23.0	7.6				
	D2								
	D3								
	D4								
	D5								

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
	9	FCL D1	3.2	3.500	21.0	7.6			
D2									
D3									
D4									
D5									
10	NA D1								
	D2								
	D3					NA	NA	NA	
	D4								
	D5								
11	FCL D1	3.2	3.500	21.0	7.4				
	D2								
	D3								
	D4								
	D5								
12	FCL D1	3.4	3.500	21.0	7.4				
	D2								
	D3								
	D4								
	D5								
13	FCL D1	3.5	3.500	20.0	7.5				
	D2								
	D3								
	D4								
	D5								
14	FCL D1	3.4	3.500	21.0	7.6				
	D2								
	D3								
	D4								
	D5								
15	FCL D1	3.4	3.500	21.0	7.3				
	D2								
	D3								
	D4								
	D5								
16	NA D1								
	D2								
	D3					NA	NA	NA	
	D4								
	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: W00012234 Water A Date: November 1, 2005

# 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 Corsicana  
PWS ID No.: 1750002

PLANT NAME OR NUMBER: Lake Halbert  
Month: October Year: 2005

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)	4.000					0.5	2.0
T <sub>10</sub> (minutes)	18.0						

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
	17	FCL D1	2.8	3.500	21.0	7.4			
D2									
D3									
D4									
D5									
18	FCL D1	3.6	3.500	22.0	7.5				
	D2								
	D3								
	D4								
	D5								
19	FCL D1	3.8	3.300	23.0	7.5				
	D2								
	D3								
	D4								
	D5								
20	FCL D1	3.4	3.300	23.0	7.4				
	D2								
	D3								
	D4								
	D5								
21	FCL D1	3.9	3.300	22.0	7.5				
	D2								
	D3								
	D4								
	D5								
22	FCL D1	4.3	3.000	21.0	7.2				
	D2								
	D3								
	D4								
	D5								
23	NA D1								
	D2								
	D3					NA	NA	NA	
	D4								
	D5								
24	FCL D1	3.9	3.800	19.0	7.4				
	D2								
	D3								
	D4								
	D5								

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
	25	FCL D1	3.8	3.800	19.0	7.5			
D2									
D3									
D4									
D5									
26	FCL D1	4.0	3.800	18.0	7.0				
	D2								
	D3								
	D4								
	D5								
27	FCL D1	3.8	3.800	18.0	7.1				
	D2								
	D3								
	D4								
	D5								
28	FCL D1	3.5	3.800	19.0	7.5				
	D2								
	D3								
	D4								
	D5								
29	FCL D1	3.6	3.800	17.0	7.6				
	D2								
	D3								
	D4								
	D5								
30	FCL D1	2.8	3.800	18.0	7.3				
	D2								
	D3								
	D4								
	D5								
31	FCL D1	3.4	3.800	19.0	7.4				
	D2								
	D3								
	D4								
	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: W00012234 Water A Date: November 1, 2005