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

Operator's Signature:

Report for the Month of: November 2008

Certificate No. & Grade: W00012234 A

Date: December 1, 2008

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	72	Number of 4-hour periods when plant was off-line:	108
Number of readings above 0.10 NTU:	3	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 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:	0.07 NTU
Minimum turbidity reading:	0.04 NTU	Standard deviation:	0.017 NTU

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 ( ) Filter Assessment ( ) CPE

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
		Average log inactivation for viruses:	NA
Number of days with a low CT for more than 4.0 consecutive hours:	0 (4)	Number of days when profiling data was not collected:	24
		Number of days when CT data was not collected:	24

Minimum disinfectant residual required leaving the plant: 0.5 mg/L ( ) Free Chlorine (●) 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 ( ) Free Chlorine (●) Total Chlorine

Total number of readings this month:	60		
Average disinfectant residual value:	2.20	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: 11,500
Month: November **Year:** 2008
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							
					Basin No.						Turbidity						Lowest	
			NTU	Alk.	1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6	Residual	Time*
1	0.000	0.000	X	X	X	X					X	X	X	X	X	X	X	
2	0.944	0.882	34	126							X	X	0.10	0.08	0.04	X	2.8	
3	1.586	1.532	32	128							X	X	X	X	0.09	0.05	3.2	
4	2.150	2.136	30	126							0.06	0.07	0.06	0.06	X	X	3.4	
5	2.364	2.149	34	125							X	X	X	0.07	0.09	0.06	3.4	
6	2.500	2.492	35	124							0.12	0.09	0.08	0.07	0.06	0.06	3.5	
7	0.000	0.000	X	X	X	X					X	X	X	X	X	X	X	
8	1.251	1.127	30	122							X	X	0.07	0.06	X	X	2.9	
9	0.364	0.300	34	126							X	X	X	0.08	X	X	3.2	
10	0.600	0.527	39	128							X	X	X	X	0.07	0.06	3.1	
11	0.000	0.000	X	X	X	X					X	X	X	X	X	X	X	
12	0.222	0.164	41	124							X	X	X	X	X	0.07	3.2	
13	0.000	0.000	X	X	X	X					X	X	X	X	X	X	X	
14	1.635	1.535	33	121							X	X	X	0.08	0.09	0.07	2.6	
15	0.800	0.797	36	120							0.06	0.07	X	X	X	X	2.9	
16	1.113	1.066	35	124							X	X	X	0.10	0.12	X	3.3	
17	0.234	0.174	40	121							X	X	X	X	0.07	X	3.0	
18	1.900	1.883	34	124							X	X	0.11	0.06	0.04	0.05	2.7	
19	1.786	1.698	34	123							X	X	0.07	0.07	0.05	0.05	3.0	
20	2.192	2.075	36	124							X	X	0.07	0.06	0.07	0.06	2.8	
21	0.000	0.000	X	X	X	X					X	X	X	X	X	X	X	
22	1.390	1.189	31	123							X	X	X	0.07	0.08	0.08	2.7	
23	1.075	1.071	31	126							0.07	0.06	0.09	X	X	X	3.5	
24	0.880	0.677	34	124							X	X	X	X	0.05	0.05	2.8	
25	2.375	2.362	30	130							0.09	0.08	0.08	0.07	0.05	0.05	3.2	
26	0.000	0.000	X	X	X	X					X	X	X	X	X	X	X	
27	2.275	2.258	28	125							X	X	0.09	0.07	0.06	0.08	3.0	
28	0.950	0.945	31	128							X	X	X	X	0.05	0.08	3.2	
29	2.768	2.605	23	126							0.06	0.08	0.08	0.09	0.08	0.08	3.4	
30	1.025	1.016	28	124							X	X	0.04	0.06	X	X	2.8	
31																		
Total	34.379	32.660																
Avg	1.146	1.089																
Max	2.768	2.605																
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 A **Date:** December 1, 2008

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
PLANT NAME OR NUMBER: Lake Halbert
PWS ID No.: 1750002
Month: November **Year:** 2008

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												
2	0.04	0.04	0.04	0.04	0.03	0.03	X	X												
3	0.03	0.03	0.04	0.03	0.03	0.03	0.04	0.04												
4	0.04	X	0.04	X	0.03	X	0.03	X												
5	0.05	0.05	0.06	0.06	0.03	0.03	0.03	0.02												
6	0.06	X	0.08	X	0.07	X	0.03	X												
7	X	X	X	X	X	X	X	X												
8	0.03	0.03	0.04	0.03	0.05	0.05	0.02	0.02												
9	0.03	0.03	0.03	0.03	0.03	0.03	X	X												
10	0.02	0.02	0.03	0.03	0.03	0.03	X	X												
11	X	X	X	X	X	X	X	X												
12	0.02	0.02	0.03	0.03	0.03	0.03	X	X												
13	X	X	X	X	X	X	X	X												
14	0.03	0.02	0.04	0.02	0.04	0.04	0.03	0.02												
15	X	X	0.05	X	0.06	X	0.03	X												
16	0.12	0.12	0.11	0.11	0.07	0.07	X	X												
17	0.04	0.04	0.03	0.03	0.03	0.03	X	X												
18	0.05	0.05	0.04	0.04	0.03	0.03	X	X												
19	0.04	0.04	0.03	0.03	0.05	0.05	X	X												
20	0.05	0.05	0.05	0.05	0.05	0.05	0.02	0.02												
21	X	X	X	X	X	X	X	X												
22	0.04	0.04	0.05	0.04	0.06	0.06	X	X												
23	0.04	X	0.04	X	0.05	X	X	X												
24	0.02	0.02	0.02	0.02	X	X	0.05	0.05												
25	0.05	0.05	0.05	0.05	X	X	0.04	X												
26	X	X	X	X	X	X	X	X												
27	0.04	0.04	0.04	0.04	X	X	0.04	0.04												
28	0.03	0.03	0.04	0.03	0.04	0.04	0.03	0.03												
29	0.05	0.05	0.04	X	0.04	X	0.03	X												
30	0.04	0.04	0.03	0.03	0.03	0.03	X	X												
31																				

SUMMARY & COMPLIANCE ACTIONS

Criteria	Filter No. 1	2	3	4	5	6	7	8	9	10	Plant
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:** December 1, 2008

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 SYSTE**

PWS ID No.: 1750002 **Month:** November **Year:** 2008 **PWS ID**

DISINFECTION PROCESS PARAMETERS

APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS		
	Disinfection Zones					Log Inactivations		
Parameters	D1	D2	D3	D4	D5	Giardia lamblia Cysts	Viruses	Param
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☑	Date
1	NA *D1*									17
	NA *D2*									
	NA *D3*					NA	NA	NA		
	D4									
	D5									
2	NA *D1*									18
	FCL *D2*	3.1	2.500	19.0	7.7					
	CLA *D3*	2.8	2.500	19.0	7.6					
	D4									
	D5									
3	NA *D1*									19
	FCL *D2*	3.4	4.000	20.0	7.6					
	CLA *D3*	3.2	4.000	19.0	7.4					
	D4									
	D5									
4	NA *D1*									20
	FCL *D2*	3.7	4.000	20.0	7.6					
	CLA *D3*	3.5	4.000	20.0	7.4					
	D4									
	D5									
5	NA *D1*									21
	FCL *D2*	3.4	4.000	20.0	7.6					
	CLA *D3*	3.4	4.000	20.0	7.6					
	D4									
	D5									
6	NA *D1*									22
	FCL *D2*	3.6	2.300	20.0	7.6					
	CLA *D3*	3.5	2.300	20.0	7.5					
	D4									
	D5									
7	NA *D1*									23
	NA *D2*									
	NA *D3*					NA	NA	NA		
	D4									
	D5									
8	NA *D1*									24
	FCL *D2*	3.6	4.000	18.0	7.5					
	CLA *D3*	2.9	4.000	18.0	7.6					
	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*	3.5	2.300	18.0	7.7					
	CLA *D3*	3.2	2.300	18.0	7.6					
	D4									
	D5									
10	NA *D1*									18
	FCL *D2*	3.3	2.300	17.0	7.6					
	CLA *D3*	3.1	2.300	17.0	7.5					
	D4									
	D5									
11	NA *D1*									19
	NA *D2*									
	NA *D3*					NA	NA	NA		
	D4									
	D5									
12	NA *D1*									20
	FCL *D2*	3.4	2.300	17.0	7.6					
	CLA *D3*	3.2	2.300	17.0	7.6					
	D4									
	D5									
13	NA *D1*									21
	NA *D2*									
	NA *D3*					NA	NA	NA		
	D4									
	D5									
14	NA *D1*									22
	FCL *D2*	2.9	2.500	19.0	7.7					
	CLA *D3*	2.6	2.500	19.0	7.8					
	D4									
	D5									
15	NA *D1*									23
	FCL *D2*	3.5	2.500	19.0	7.4					
	CLA *D3*	3.9	2.500	20.0	7.5					
	D4									
	D5									
16	NA *D1*									24
	FCL *D2*	3.5	2.500	18.0	7.6					
	CLA *D3*	3.3	2.500	17.0	7.5					
	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:** December 1, 2008 **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
EM NAME: City of Corsicana

PLANT NAME
OR NUMBER: Lake Halbert

D No.: 1750002

Month: November **Year:** 2008

DISINFECTION PROCESS PARAMETERS

APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
	Disinfection Zones					Log Inactivations	
neters	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[1]
NA *D1*								
FCL *D2*	3.1	2.500	19.0	7.6				
CLA *D3*	3.0	2.500	18.0	7.6				
D4								
D5								
NA *D1*								
FCL *D2*	2.6	2.800	16.0	7.2				
CLA *D3*	2.7	2.800	16.0	7.1				
D4								
D5								
NA *D1*								
FCL *D2*	2.9	2.800	17.0	7.5				
CLA *D3*	3.4	2.800	16.0	7.3				
D4								
D5								
NA *D1*								
FCL *D2*	2.5	2.800	16.0	7.4				
CLA *D3*	2.8	2.800	16.0	7.3				
D4								
D5								
NA *D1*								
NA *D2*								
NA *D3*					NA	NA	NA	
D4								
D5								
NA *D1*								
FCL *D2*	3.2	2.500	15.0	7.6				
CLA *D3*	2.7	2.500	14.0	7.6				
D4								
D5								
NA *D1*								
FCL *D2*	3.6	2.500	13.0	7.8				
CLA *D3*	3.5	2.500	14.0	7.9				
D4								
D5								
NA *D1*								
FCL *D2*	3.0	2.500	15.0	7.7				
CLA *D3*	2.8	2.500	15.0	7.7				
D4								
D5								

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*	3.8	2.500	15.0	7.7				
25	CLA *D3*	3.5	2.500	15.0	7.6				
	D4								
	D5								
	NA *D1*								
	NA *D2*								
26	NA *D3*					NA	NA	NA	
	D4								
	D5								
	NA *D1*								
	FCL *D2*	3.0	2.600	16.0	7.4				
27	CLA *D3*	3.1	2.600	16.0	7.6				
	D4								
	D5								
	NA *D1*								
	FCL *D2*	3.8	2.600	18.0	7.3				
28	CLA *D3*	3.2	2.600	16.0	7.4				
	D4								
	D5								
	NA *D1*								
	FCL *D2*	4.2	2.600	17.0	7.6				
29	CLA *D3*	3.8	2.600	17.0	7.5				
	D4								
	D5								
	NA *D1*								
	FCL *D2*	3.1	3.000	14.0	7.6				
30	CLA *D3*	2.8	3.000	14.0	7.6				
	D4								
	D5								
	D1								
	D2								
31	*D3*								
	D4								
	D5								
				Max		NA	NA		
				Min		NA	NA		
				Avg		NA	NA		
				SD		NA	NA		

[1] ONLY use the "Time[1]" column to show the length of time that the total inactivation ratio was less than 1.00.

ITTED BY: **Certificate No. and Grade:** W00012234 A **Date:** December 1, 2008