

# 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 WTP

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: September 2010

Certificate No. & Grade: WO0012234, A

Date: October 1, 2010

## TREATMENT PLANT PERFORMANCE

Total number of turbidity readings: <u>108</u>	Number of 4-hour periods when plant was off-line: <u>72</u>
Number of readings above 0.10 NTU: <u>97</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>0.33</u> NTU	Average turbidity value: <u>0.18</u> NTU
Minimum turbidity reading: <u>0.08</u> NTU	Standard deviation: <u>0.049</u> NTU
CFE 95 <sup>th</sup> percentile value: <u>0.25</u> NTU	IFE 95 <sup>th</sup> percentile: <u>0.280</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>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>26</u>
	Number of days when CT data was not collected: <u>26</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>60</u> (at least 30 required) (8)	Percentage of readings with a low residual this month: <u>0.0</u> % (6A)
Average disinfectant residual value: <u>1.89</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 required because there was at least one treatment technique or monitoring/reporting violation reported.

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 (9)	<input type="radio"/> Filter Assessment (10)	<input type="radio"/> 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 Corsicana

PLANT NAME OR NUMBER: Lake Halbert WTP

PWS ID No.: 1750002

Connections: 10,716

Month: September Year: 2010

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	2.083	1.822	29	115								0.19	0.19	0.20	0.19	0.18	0.16	2.1	
2	2.649	2.582	30	116								0.19	0.18	0.18	0.18	0.14	0.14	2.5	
3	2.093	1.535	39	116								0.13	0.13	0.10	0.10	0.09	0.09	2.6	
4	1.986	1.427	35	115								0.10	0.10	0.09	0.09	0.09	0.08	2.2	
5	0.000	0.000	X	X	X	X						X	X	X	X	X	X	X	
6	1.494	1.373	33	115								X	X	0.11	0.11	0.13	0.12	2.5	
7	1.322	1.064	30	115								X	X	0.14	0.13	0.14	0.14	2.2	
8	1.326	1.020	28	117								X	X	0.18	0.19	0.15	0.14	2.6	
9	1.628	1.216	26	118								X	X	X	0.15	0.18	0.16	2.3	
10	0.744	0.616	23	114								0.14	0.12	X	X	X	X	3.7	
11	2.362	2.155	28	117								X	0.15	0.13	0.12	0.11	0.10	2.4	
12	1.085	0.933	28	116								0.13	X	X	X	0.14	0.14	2.4	
13	1.621	1.305	28	115								0.16	0.16	X	0.16	0.16	0.18	2.1	
14	0.994	0.886	30	116								X	X	X	X	0.21	0.18	2.2	
15	2.390	2.346	30	112								0.20	0.19	0.19	0.19	0.19	0.18	2.6	
16	2.378	1.728	32	113								0.21	0.22	0.24	0.22	0.22	X	2.5	
17	2.743	2.566	35	115								0.33	0.29	0.28	0.23	0.26	0.22	2.4	
18	1.166	1.046	34	115								0.21	0.19	X	X	X	0.19	2.5	
19	0.000	0.000	X	X	X	X						X	X	X	X	X	X	X	
20	1.917	1.563	22	115								X	X	0.25	0.21	0.20	0.21	2.5	
21	1.574	1.146	20	111								X	X	0.13	0.21	0.21	0.20	2.5	
22	1.111	0.616	20	114								X	X	X	X	0.21	0.19	2.5	
23	1.697	0.995	19	119								X	X	X	0.23	X	0.25	2.4	
24	2.708	2.412	23	115								0.26	0.22	0.22	0.20	0.24	0.22	3.0	
25	0.806	0.573	30	120								X	X	X	X	0.20	0.18	2.6	
26	0.000	0.000	X	X	X	X						X	X	X	X	X	X	X	
27	2.008	1.446	26	118								X	X	0.16	0.21	0.19	0.20	2.9	
28	0.000	0.000	X	X	X	X						X	X	X	X	X	X	X	
29	2.066	1.917	31	114								X	0.17	0.18	0.18	0.20	0.21	2.4	
30	1.954	1.573	29	115								X	X	X	0.23	0.23	0.24	2.4	
31																			
<b>Total</b>	45.905	37.861																	
<b>Avg</b>	1.530	1.262																	
<b>Max</b>	2.743	2.582																	
<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 1, 2010

# 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 WTP  
Month: September Year: 2010

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		
1	X	X	X	X	0.10	X	0.21	X												
2	0.10	X	0.32	0.32	0.10	X	0.22	0.22												
3	X	X	0.14	X	0.04	X	0.15	X												
4	0.10	X	0.13	X	X	X	0.09	X												
5	X	X	X	X	X	X	X	X												
6	0.12	0.10	X	X	0.16	0.13	0.10	0.08												
7	0.13	0.11	X	X	0.13	0.11	0.11	0.09												
8	0.10	0.09	X	X	0.07	0.06	0.11	0.10												
9	0.23	0.21	0.29	0.29	0.10	0.07	0.14	0.08												
10	X	X	X	X	0.07	X	0.14	X												
11	0.21	0.21	X	X	0.06	X	0.13	X												
12	0.15	0.14	X	X	0.20	0.20	0.15	0.15												
13	0.24	0.24	X	X	0.20	0.17	0.11	0.08												
14	0.21	0.20	X	X	0.12	0.11	0.19	0.18												
15	0.19	X	X	X	0.14	X	0.27	X												
16	0.17	X	X	X	0.16	X	0.27	0.23												
17	0.24	0.24	0.28	0.28	0.23	0.23	0.19	X												
18	0.13	0.12	0.24	X	0.12	X	0.18	0.18												
19	X	X	X	X	X	X	X	X												
20	0.17	0.14	X	X	0.16	0.15	0.15	0.12												
21	0.11	0.10	X	X	0.17	0.12	0.18	0.11												
22	X	X	X	X	0.08	0.08	0.23	0.23												
23	0.28	0.24	X	X	0.22	0.09	0.20	0.20												
24	0.27	X	X	X	0.28	X	0.18	X												
25	0.12	0.11	X	X	0.10	0.10	0.08	0.08												
26	X	X	X	X	X	X	X	X												
27	0.28	0.28	X	X	0.12	0.10	0.12	0.11												
28	X	X	X	X	X	X	X	X												
29	0.28	0.26	X	X	0.10	0.07	0.10	0.09												
30	0.19	0.18	X	X	0.19	0.19	0.28	0.22												
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								
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 filter/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: WO0012234, A Date: October 1, 2010

# 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 WTP  
Month: September Year: 2010

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	4.000	4.000			0.5	2.0
T <sub>10</sub> (minutes)	78.3	15.1	9.0				

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								
	FCL D2	1.3	2.100	29.0	7.4				
	CLA D3	2.1	2.100	30.0	7.1				
	D4								
	D5								
2	NA D1								
	FCL D2	1.0	3.700	27.0	7.3				
	CLA D3	3.1	3.700	28.0	7.1				
	D4								
	D5								
3	NA D1								
	FCL D2	1.4	2.100	28.0	7.0				
	CLA D3	3.1	2.100	28.0	6.9				
	D4								
	D5								
4	NA D1								
	FCL D2	1.3	2.100	27.0	7.1				
	CLA D3	3.6	2.100	28.0	6.9				
	D4								
	D5								
5	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	D4								
	D5								
6	NA D1								
	FCL D2	1.2	2.300	27.0	7.4				
	CLA D3	2.7	2.300	28.0	7.4				
	D4								
	D5								
7	NA D1								
	FCL D2	1.7	2.400	27.0	7.5				
	CLA D3	2.4	2.400	28.0	7.4				
	D4								
	D5								
8	NA D1								
	FCL D2	1.5	2.400	27.0	7.3				
	CLA D3	2.6	2.400	27.0	7.5				
	D4								
	D5								

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								
	FCL D2	1.0	2.900	27.0	7.3				
	CLA D3	2.3	2.900	26.0	7.4				
	D4								
	D5								
10	NA D1								
	FCL D2	1.5	2.100	27.0	7.5				
	CLA D3	3.8	2.100	27.0	7.5				
	D4								
	D5								
11	NA D1								
	FCL D2	1.0	2.400	27.0	7.5				
	CLA D3	3.5	2.400	27.0	7.4				
	D4								
	D5								
12	NA D1								
	FCL D2	1.4	2.400	30.0	7.4				
	CLA D3	3.3	2.400	30.0	7.4				
	D4								
	D5								
13	NA D1								
	FCL D2	1.5	2.400	29.0	7.4				
	CLA D3	3.1	2.400	29.0	7.3				
	D4								
	D5								
14	NA D1								
	FCL D2	1.0	2.400	28.0	7.3				
	CLA D3	2.2	2.400	28.0	7.2				
	D4								
	D5								
15	NA D1								
	FCL D2	1.2	2.400	28.0	7.4				
	CLA D3	2.8	2.400	28.0	7.2				
	D4								
	D5								
16	NA D1								
	FCL D2	1.6	2.400	28.0	7.3				
	CLA D3	3.5	2.400	28.0	7.1				
	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, A Date: October 1, 2010

# 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 WTP  
Month: September Year: 2010

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	4.000	4.000			0.5	2.0
T <sub>10</sub> (minutes)	78.3	15.1	9.0				

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								
	FCL D2	2.0	3.600	29.0	7.2				
	CLA D3	2.6	3.600	29.0	7.2				
	D4								
	D5								
18	NA D1								
	FCL D2	1.3	3.600	28.0	7.1				
	CLA D3	3.6	3.600	29.0	6.9				
	D4								
	D5								
19	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	D4								
	D5								
20	NA D1								
	FCL D2	1.0	3.600	28.0	7.1				
	CLA D3	2.6	3.600	29.0	7.3				
	D4								
	D5								
21	NA D1								
	FCL D2	1.3	2.100	27.0	7.3				
	CLA D3	2.9	2.100	27.0	7.5				
	D4								
	D5								
22	NA D1								
	FCL D2	1.0	2.100	28.0	7.4				
	CLA D3	2.5	2.100	28.0	7.3				
	D4								
	D5								
23	NA D1								
	FCL D2	1.0	2.200	28.0	7.6				
	CLA D3	2.4	2.200	28.0	7.5				
	D4								
	D5								
24	NA D1								
	FCL D2	2.1	3.900	28.0	7.4				
	CLA D3	3.3	3.900	28.0	7.1				
	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	NA D1								
	FCL D2	1.7	2.100	27.0	7.2				
	CLA D3	2.6	2.100	27.0	7.0				
	D4								
	D5								
26	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	D4								
	D5								
27	NA D1								
	FCL D2	2.0	2.900	26.0	7.2				
	CLA D3	2.7	2.900	27.0	7.2				
	D4								
	D5								
28	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	D4								
	D5								
29	NA D1								
	FCL D2	1.2	2.400	25.0	7.0				
	CLA D3	2.8	2.400	26.0	7.0				
	D4								
	D5								
30	NA D1								
	FCL D2	1.0	3.400	24.0	7.4				
	CLA D3	2.4	3.400	25.0	7.3				
	D4								
	D5								
31	D1								
	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: WO0012234, A Date: October 1, 2010

# MONTHLY TOTAL ORGANIC CARBON REMOVAL REPORT (TOCMOR)

## FOR SURFACE WATER OR GROUND WATER UNDER THE INFLUENCE OF SURFACE WATER SYSTEMS

PUBLIC WATER SYSTEM NAME: City Of Corsicana  
 PWS ID No.: 1750002  
 Type of treatment:  Conventional  Unconventional explain: \_\_\_\_\_

PLANT NAME OR NUMBER: Lake Halbert WTP  
 Month: September Year: 2010

Note: Systems are required to run one TOC Sample Set every month. Additional space is provided for those systems that do additional sampling

Test No.	Test Date	Monthly TOC Sample Set			Actual % TOC Removed	Step 1 Required Removal %	Step 1 Removal Ratio	Optional data		COMPLIANCE REMOVAL RATIO
		Raw Alkalinity	Raw TOC	Treated TOC				Step 2 Required % Removal	Step 2 Removal Ratio	
		Enter the Sample Set results						calculated	calculated from matrix	
1	9/7	115	5.22	4.31	17.4	35	0.50	17.4	1.0	1.00
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
<b>Avg</b>		115.00	5.22	4.31	17.43		0.50		1.0	1.00
<b>Max</b>		115.00	5.22	4.31	17.43		0.50		1.0	1.00
<b>Min</b>		115.00	5.22	4.31	17.43		0.50		1.0	1.00

### TOTAL ORGANIC CARBON (TOC) REMOVAL SUMMARY

<b>TOC Summary: Don't forget to include a copy of your P.8-TOC Step 2 worksheet with your report.</b>					<b>Monthly Compliance Ratio</b>
Raw Water Alkalinity	Raw Water TOC	Treated Water TOC	TOC % Removal	ACC # used	
115	5.22	4.31	17.4	NA	1.00

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.

Operator's Signature: \_\_\_\_\_ Certificate No. and Grade: WO0012234, A

Date: October 1, 2010

**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

**TOC ALTERNATIVE COMPLIANCE CRITERIA REPORT**  
FOR SURFACE WATER OR GROUND WATER UNDER THE INFLUENCE OF SURFACE WATER SYSTEMS

PUBLIC WATER SYSTEM NAME: City Of Corsicana  
PWS ID No.: 1750002

PLANT NAME OR NUMBER: Lake Halbert WTP  
Month: September Year: 2010

This Alternative Compliance Criteria (ACC) Report is being submitted to request the following ACC: (check one)  
(Before you can begin entering data, you must put an "X" in the box that shows the number of the Alternative Compliance Criteria you are applying for.)

#1  #2  #3  #4  #5  #6  #7  #8

ACC #1	Source Water TOC less than 2.0? (either based on most recent month's data OR calculated quarterly as a running annual average)												
	Current Month TOC	Q1			Q2			Q3			Q4		
	5.22	10/2009	11/2009	12/2009	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010	07/2010	08/2010	09/2010
	Average Raw Water TOC Quarterly Average RAA												

ACC #2	Treated Water TOC less than 2.0? (either based on most recent month's data OR calculated quarterly as a running annual average)												
	Current Month TOC	Q1			Q2			Q3			Q4		
	4.31	10/2009	11/2009	12/2009	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010	07/2010	08/2010	09/2010
	Average Treated Water TOC Quarterly Average RAA												

ACC #3	Source Water TOC less than 4.0? (calculated quarterly as a running annual average) AND Source water alkalinity over 60 mg/L (as CaCO3)? (calculated quarterly as a running annual average)												
	Average Raw Water TOC Quarterly Average RAA	Q1			Q2			Q3			Q4		
		10/2009	11/2009	12/2009	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010	07/2010	08/2010	09/2010
	Average Raw Water Alkalinity Quarterly Average RAA												

AND TTHM and HAA5 no greater than 0.040 mg/L and 0.030 mg/L, respectively? (calculated as a running annual average of quarterly averages)  
TTHM RAA for the 4 quarters that end September 2010:  mg/L      HAA5 RAA for the 4 quarter that end September 2010:  mg/L

ACC #4	TTHM and HAA5 no greater than 0.040 mg/L and 0.030 mg/L, respectively? (calculated as a running annual average of quarterly averages)											
	TTHM RAA for the 4 quarters that end September 2010: <input type="text"/> mg/L	HAA5 RAA for the 4 quarters that end September 2010: <input type="text"/> mg/L						Chlorine only?: <input type="text"/>				

AND only chlorine is used in the whole plant and distribution system.

I certify that for the last 12 months, only free chlorine was used as a disinfectant for primary disinfection and for maintenance of a residual in the distribution system.

\_\_\_\_\_  
Certified Operators Signature/ Certificate Number / Date

ACC #5	Source water SUVA less than or equal to 2.0 L/mg-m? (either based on most recent month's data OR calculated quarterly as a running annual average) <small>(Source water SUVA is the dissolved organic carbon concentration divided by the ultraviolet light absorption at 254 nanometers in the source water before any treatment of any kind. Measure monthly.)</small>												
	Current Month SUVA	Q1			Q2			Q3			Q4		
		10/2009	11/2009	12/2009	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010	07/2010	08/2010	09/2010
	Monthly Raw Water SUVA Quarterly Average RAA												

ACC #6	Treated water SUVA less than or equal to 2.0 L/mg-m? (either based on most recent month's data OR calculated quarterly as a running annual average) <small>(Treated water SUVA is the dissolved organic carbon concentration divided by the ultraviolet light absorption at 254 nanometers in the finished water before any disinfection of any kind, or measured using a finished water SUVA jar test. (See the Instructions worksheet for more info.) Measure monthly.)</small>											
	Treated water SUVA measured: <input type="text"/>	In Plant										
	<input type="text"/>	By Finished Water SUVA Jar Test										
	Current Month SUVA	Q1			Q2			Q3			Q4	
	10/2009	11/2009	12/2009	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010	07/2010	08/2010	09/2010
Monthly Treated Water SUVA Quarterly Average RAA												

\_\_\_\_\_  
Certified Operators Signature / Certificate Number / Date

ACC #7	Treated water alkalinity less than 60 mg/L (as CaCO3)? (softening practiced) (either based on most recent month's data OR calculated quarterly as a running annual average)												
	Current Month ALK	Q1			Q2			Q3			Q4		
		10/2009	11/2009	12/2009	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010	07/2010	08/2010	09/2010
	Monthly Treated Alkalinity Quarterly Average RAA												

ACC #8	Magnesium hardness removal greater than or equal to 10 mg/L (as CaCO3)? (softening practiced) (either based on most recent month's data OR calculated quarterly as a running annual average)												
	Current Month Mg Hardness	Q1			Q2			Q3			Q4		
	Raw	10/2009	11/2009	12/2009	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010	07/2010	08/2010	09/2010
	Treated												
Removal	Monthly Raw Mg Hardness												
	Monthly Treated Mg Hardness												
	Monthly Mg Removal												
	Quarterly Average Removal RAA Removal												

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.

Operator's Signature: \_\_\_\_\_ Certificate No. and Grade: WO0012234, A Date: October 1, 2010

# STEP 2 JAR TEST REPORT

FOR SURFACE WATER OR GROUND WATER UNDER THE INFLUENCE OF SURFACE WATER SYSTEMS

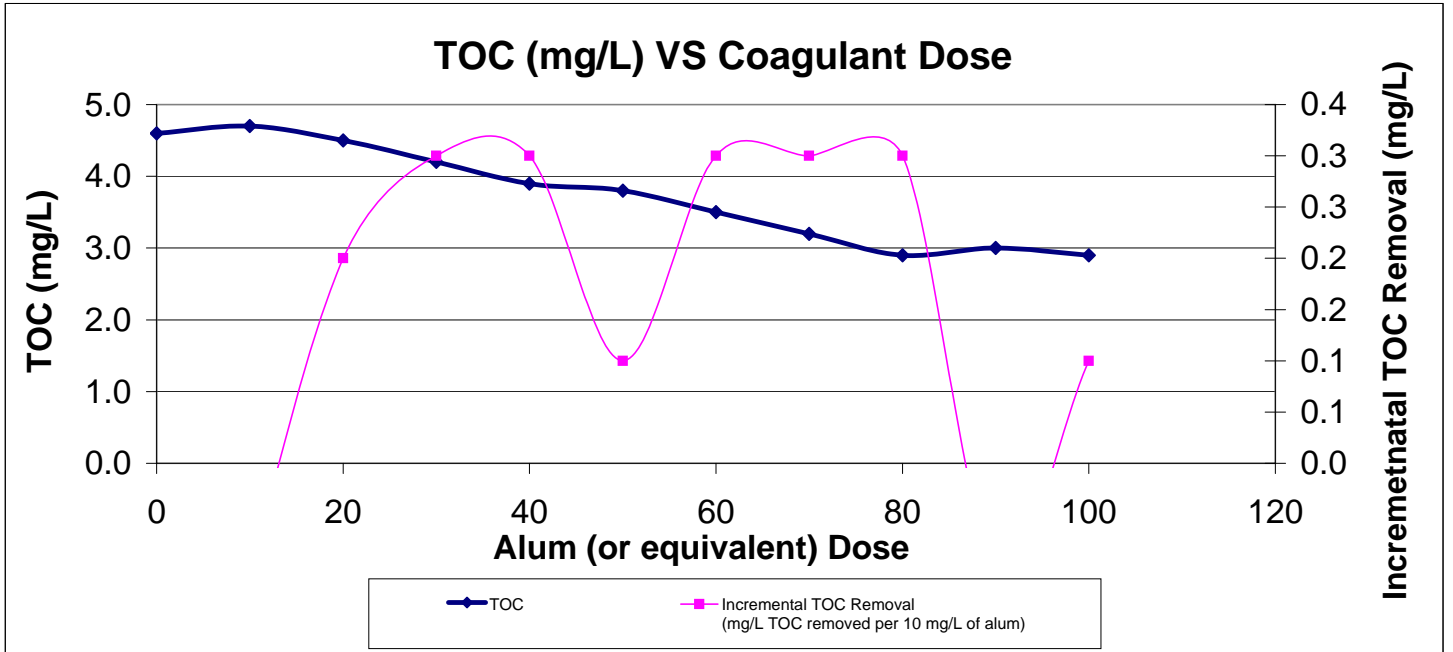
PUBLIC WATER  
 SYSTEM NAME: City Of Corsicana  
 PWS ID No.: 1750002

PLANT NAME  
 OR NUMBER: Lake Halbert WTP  
 DATE OF JAR TEST: June 22, 2010

PLANT CONDITIONS								
RAW WATER SOURCE(s)	COAGULANT		COAGULANT AID		FLOC AID		pH ADJUSTMENT	
	Type	Dose (mg/L)	Type	Dose (mg/L)	Type	Dose (mg/L)	Type	Dose (mg/L)
Surface	Alum Blend	106.00	N/A	0.00	N/A	0.00	Soda Ash	26.00

STEP 2 JAR TEST PARAMETERS									
COAGULANT		BASE		JAR SIZE	JAR TEST CONDITIONS				
Type	Stock Solution Concentration (g/L)	Type	Stock Solution Concentration (g/L)	Volume (liters)	Rapid Mix		Flocculation		Settling
					Speed (rpm)	Duration (minutes)	Speed (rpm)	Duration (minutes)	Duration (minutes)
Dry Alum	11	N/A	-	1000	100.0	1.0	30.0	20.0	40.0

JAR TEST RESULTS										
Jar No.	COAGULANT		BASE		Alkalinity (mg/L as CaCO <sub>3</sub> )	pH	TOC (mg/L)	Incremental TOC Removal (mg/L TOC removed per 10 mg/L of alum)	Cumulative TOC Removal (%)	
	Dose (Alum eq.) (mg/L)	Volume (mL)	Dose (mg/L)	Volume (mL)						
RAW					107	7.3	4.6			
1	10	1.00			Target pH (based on raw water alkalinity)	7.5	4.7	-0.1	bad data point	
2	20	2.00				7.3	4.5	0.2	2.2	
3	30	3.00				7.1	4.2	0.3	8.7	
4	40	4.00				7.0	3.9	0.3	15.2	
5	50	5.00				6.8	3.8	0.1	17.4	
6	60	6.00				6.7	3.5	0.3	23.9	
7	70	7.00				6.6	3.2	0.3	30.4	
8	80	8.00				6.5	2.9	0.3	37.0	
9	90	9.00				6.4	3.0	-0.1	bad data point	
10	100	10.00				6.3	2.9	0.1	37.0	
11										
12										
Has the TCEQ approved this source as "Not Amenable" to Treatment even though Target pH was not reached? If "yes", provide the date of the TCEQ letter or e-mail.					TOC, % Removal at Apparent PODR: More than one PODR found; please enter correct PODR value:			More than 1 PODR 17.4%		



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.

Operator's Signature: \_\_\_\_\_

Certificate No. \_\_\_\_\_  
 and Grade: WO0012234, A