

# 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: June 2012

Certificate No. & Grade: WO0012234, A

Date: July 2, 2012

### TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	169	Number of 4-hour periods when plant was off-line:	11
Number of readings above 0.10 NTU:	144	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 days when plant was on-line but individual filter turbidity data was not collected:	0
Number of readings above 0.5 NTU:	0	Number of days with readings above 1.0 NTU:	0 (2)
Number of readings above 1.0 NTU:	0	Number of days with readings above 5.0 NTU:	0 (3)
Maximum allowable turbidity level:	0.3		
Percentage of readings above this limit:	0.0 % (1)		
<b>Statistical Summary</b>		Maximum turbidity reading:	0.24 NTU
		Minimum turbidity reading:	0.08 NTU
		CFE 95 <sup>th</sup> percentile value:	0.21 NTU
		Average turbidity value:	0.15 NTU
		Standard deviation:	0.037 NTU
		IFE 95 <sup>th</sup> percentile:	0.230 NTU
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:	30
		Number of days when CT data was not collected:	30
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:	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, measured as Total Chlorine		
Total number of readings this month:	60	(at least 30 required) (8)	
Average disinfectant residual value:	1.97	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)

### ADDITIONAL REPORTS & WORKSHEETS

The Page 1 Addendum (Public Notices) is required because there was at least one treatment technique or monitoring/reporting violation reported.

#NAME?  NONE     Filter Profile     Filter Assessment     CPE  
 Additional report(s) for individual filter monitoring submitted:  NONE     Filter Profile (9)     Filter Assessment (10)     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: 10,866

Month: June Year: 2012

Population: 23,770

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	2.170	2.149	90	92								0.19	0.15	0.14	0.14	0.15	0.16	3.1	
2	2.170	2.156	37	93								0.16	0.14	0.15	0.13	0.13	0.12	3.3	
3	2.140	1.916	28	97								0.13	0.12	0.12	0.11	0.14	0.16	2.0	
4	2.010	1.711	25	95								0.17	0.15	0.19	X	0.21	0.19	2.5	
5	1.670	1.669	64	96								0.19	0.19	0.12	0.15	0.16	0.16	3.2	
6	2.020	1.999	57	98								0.15	0.15	0.14	0.14	0.14	0.12	2.7	
7	2.130	1.961	47	96								0.14	0.19	0.22	0.20	0.20	0.18	3.0	
8	1.827	1.827	40	94								0.19	0.17	0.16	0.16	0.16	0.15	3.0	
9	1.660	1.637	42	96								0.15	0.17	0.14	0.14	0.16	0.16	3.3	
10	1.670	1.596	43	95								0.15	0.15	0.14	0.13	0.15	0.19	3.0	
11	1.670	1.636	54	94								0.20	0.19	X	0.20	0.19	0.18	2.7	
12	2.170	2.054	39	94								0.21	0.18	0.20	0.18	0.20	0.19	3.2	
13	1.150	0.922	53	94								0.19	0.18	0.20	X	X	0.19	3.1	
14	2.070	1.867	72	94								0.21	0.21	0.24	0.21	0.18	0.19	2.6	
15	2.150	2.150	50	96								0.18	0.17	0.17	0.16	0.16	0.16	2.9	
16	2.060	2.013	49	99								0.16	0.14	0.18	0.16	0.15	0.13	1.7	
17	2.070	1.921	61	98								0.19	0.19	0.18	0.16	0.16	0.17	3.1	
18	2.060	1.983	43	97								0.14	0.15	0.19	0.19	0.20	0.17	3.4	
19	1.290	1.234	35	97								0.18	0.18	0.17	0.17	X	X	3.5	
20	1.300	1.283	25	98								X	X	X	X	0.23	0.19	2.1	
21	1.980	1.796	27	96								0.20	0.18	0.21	X	0.19	0.18	2.8	
22	2.000	1.903	10	94								0.19	0.17	0.19	0.14	0.13	0.13	2.1	
23	1.990	1.990	7	86								0.13	0.15	0.14	0.13	0.12	0.12	2.9	
24	2.360	2.122	8	81								0.12	0.11	0.11	0.10	0.10	0.11	3.0	
25	2.241	2.138	4	86								0.11	0.10	0.10	0.09	0.09	0.08	2.8	
26	1.752	1.752	6	101								0.09	0.10	0.10	0.10	0.09	0.08	2.7	
27	1.823	1.823	4	97								0.09	0.09	0.10	0.11	0.10	0.09	2.2	
28	2.327	1.885	3	92								0.10	0.09	0.12	0.12	0.09	0.12	2.0	
29	2.320	2.233	3	92								0.08	0.09	0.13	0.13	0.08	0.11	2.0	
30	2.213	2.007	3	92								0.10	0.12	0.12	0.12	0.11	0.11	1.1	
31																			
Total	58.463	55.333																	
Avg	1.949	1.844																	
Max	2.360	2.233																	
Min	1.150	0.922																	

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: WO0012234, A Date: July 2, 2012

# 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: June Year: 2012

### 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																	
1	0.13	X	0.13	X	0.10	X	0.17	0.13													
2	0.11	X	0.11	X	X	X	0.18	X													
3	0.08	X	0.16	0.14	0.16	0.16	0.12	X													
4	0.15	0.15	0.13	0.13	0.17	0.17	X	X													
5	0.15	X	0.13	X	0.17	X	X	X													
6	0.11	X	0.11	X	0.14	X	X	X													
7	0.17	0.17	0.17	0.17	0.22	0.22	X	X													
8	0.13	X	0.13	X	0.18	X	X	X													
9	0.11	X	0.12	X	0.17	X	X	X													
10	0.19	0.19	0.21	0.21	0.16	X	X	X													
11	0.15	0.09	0.22	0.18	0.29	0.27	X	X													
12	0.14	X	0.17	X	0.25	X	X	X													
13	0.17	0.17	0.14	0.14	0.19	X	X	X													
14	0.19	X	0.12	0.12	0.25	0.25	X	X													
15	0.15	X	0.21	X	0.16	X	X	X													
16	0.23	0.20	0.16	X	0.14	X	X	X													
17	0.15	X	0.12	X	0.18	0.18	X	X													
18	0.21	0.21	0.21	0.21	0.15	X	X	X													
19	0.19	X	0.16	X	0.12	X	X	X													
20	0.20	0.20	0.18	0.18	0.23	0.23	X	X													
21	0.17	0.11	0.17	X	0.22	0.13	0.26	0.24													
22	0.17	0.17	X	X	0.12	X	0.21	X													
23	0.11	X	0.16	0.16	0.08	X	0.14	X													
24	0.09	X	0.10	X	0.08	0.08	0.11	X													
25	0.13	X	0.12	0.12	0.08	X	0.08	X													
26	0.09	X	0.11	X	0.08	X	0.08	X													
27	0.09	X	0.11	X	0.07	X	X	X													
28	0.13	0.13	0.14	0.14	0.12	0.11	0.10	0.09													
29	0.09	X	0.13	X	0.11	X	X	X													
30	0.12	0.12	0.11	X	0.09	X	0.13	0.13													
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																		
	Number of days with event(s) above 1.0 NTU this month	#####	#####	#####	#####																		
	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	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	
	Number of days with event(s) above 2.0 NTU this month	#####	#####	#####	#####																	#####	
	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?	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	
	Is the plant required to submit a Filter Assessment Report?	#####	#####	#####	#####																		
	Is the plant required to submit a Request for Compliance CPE?																					#####	

SUBMITTED BY: \_\_\_\_\_ Certificate No. and Grade: WO0012234, A Date: July 2, 2012

# 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: June Year: 2012

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	1.4	2.200	26.0	6.5				
	CLA D3	3.7	2.200	26.0	7.7				
	D4								
	D5								
2	NA D1								
	FCL D2	1.7	2.200	25.0	6.6				
	CLA D3	3.6	2.200	26.0	7.4				
	D4								
	D5								
3	NA D1								
	FCL D2	1.5	2.200	26.0	7.0				
	CLA D3	3.8	2.200	26.0	7.5				
	D4								
	D5								
4	NA D1								
	FCL D2	2.2	4.000	26.0	7.4				
	CLA D3	2.9	4.000	26.0	7.0				
	D4								
	D5								
5	NA D1								
	FCL D2	1.5	1.700	26.0	7.2				
	CLA D3	3.7	1.700	27.0	7.7				
	D4								
	D5								
6	NA D1								
	FCL D2	1.0	2.200	26.0	6.9				
	CLA D3	3.7	2.200	26.0	6.9				
	D4								
	D5								
7	NA D1								
	FCL D2	1.4	2.200	26.0	7.0				
	CLA D3	3.0	2.200	26.0	7.2				
	D4								
	D5								
8	NA D1								
	FCL D2	1.1	1.700	26.0	6.5				
	CLA D3	3.1	1.700	26.0	7.2				
	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	1.6	1.700	26.0	6.7				
	CLA D3	3.8	1.700	26.0	7.1				
	D4								
	D5								
10	NA D1								
	FCL D2	1.0	1.700	26.0	7.0				
	CLA D3	3.2	1.700	26.0	7.6				
	D4								
	D5								
11	NA D1								
	FCL D2	1.0	2.200	26.0	7.2				
	CLA D3	3.0	2.200	27.0	7.0				
	D4								
	D5								
12	NA D1								
	FCL D2	1.5	2.200	26.0	6.7				
	CLA D3	3.3	2.200	27.0	7.2				
	D4								
	D5								
13	NA D1								
	FCL D2	1.5	2.200	27.0	6.9				
	CLA D3	3.5	2.200	27.0	7.4				
	D4								
	D5								
14	NA D1								
	FCL D2	1.7	2.300	26.0	6.7				
	CLA D3	3.4	2.300	26.0	7.1				
	D4								
	D5								
15	NA D1								
	FCL D2	1.6	2.300	27.0	7.0				
	CLA D3	3.0	2.300	27.0	7.0				
	D4								
	D5								
16	NA D1								
	FCL D2	1.6	2.100	27.0	6.7				
	CLA D3	3.6	2.100	27.0	7.2				
	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: WO0012234, A Date: July 2, 2012

# 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: June Year: 2012

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									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
17	NA D1								
	FCL D2	1.8	2.100	27.0	6.9				
	CLA D3	3.5	2.100	27.0	6.8				
	D4								
	D5								
18	NA D1								
	FCL D2	1.5	2.100	27.0	6.9				
	CLA D3	3.5	2.100	27.0	7.2				
	D4								
	D5								
19	NA D1								
	FCL D2	1.7	2.100	27.0	7.0				
	CLA D3	3.5	2.100	28.0	7.6				
	D4								
	D5								
20	NA D1								
	FCL D2	1.0	2.400	27.0	7.1				
	CLA D3	2.5	2.400	27.0	7.4				
	D4								
	D5								
21	NA D1								
	FCL D2	1.5	2.100	27.0	6.8				
	CLA D3	3.4	2.100	27.0	7.2				
	D4								
	D5								
22	NA D1								
	FCL D2	1.0	2.000	26.0	7.0				
	CLA D3	3.6	2.000	27.0	7.6				
	D4								
	D5								
23	NA D1								
	FCL D2	1.8	2.000	26.0	6.4				
	CLA D3	3.2	2.000	27.0	6.9				
	D4								
	D5								
24	NA D1								
	FCL D2	1.3	2.500	26.0	6.8				
	CLA D3	3.2	2.500	26.0	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	1.2	2.300	27.0	7.2				
	CLA D3	3.0	2.300	27.0	7.7				
	D4								
	D5								
26	NA D1								
	FCL D2	1.5	2.000	26.0	7.1				
	CLA D3	3.4	2.000	27.0	7.5				
	D4								
	D5								
27	NA D1								
	FCL D2	1.4	1.800	27.0	7.0				
	CLA D3	3.0	1.800	27.0	7.6				
	D4								
	D5								
28	NA D1								
	FCL D2	1.2	3.000	27.0	7.0				
	CLA D3	2.0	3.000	28.0	7.4				
	D4								
	D5								
29	NA D1								
	FCL D2	1.3	2.400	27.0	6.8				
	CLA D3	2.0	2.400	28.0	7.6				
	D4								
	D5								
30	NA D1								
	FCL D2	1.3	2.400	27.0	6.8				
	CLA D3	1.8	2.400	27.0	7.4				
	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: July 2, 2012

# 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

PLANT NAME OR NUMBER: Lake Halbert WTP  
 Month: June Year: 2012

Type of treatment:  Conventional  Unconventional explain:

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						<i>calculated</i>	<i>calculated from matrix</i>	
1	6/5	106	5.65	3.90	31.0	#NAME?	#NAME?	25.9	1.2	#NAME?
2										#NAME?
3										#NAME?
4										#NAME?
5										#NAME?
6										#NAME?
7										#NAME?
8										#NAME?
9										#NAME?
10										#NAME?
11										#NAME?
12										#NAME?
13										#NAME?
14										#NAME?
15										#NAME?
16										#NAME?
17										#NAME?
18										#NAME?
19										#NAME?
20										#NAME?
21										#NAME?
22										#NAME?
23										#NAME?
24										#NAME?
25										#NAME?
26										#NAME?
27										#NAME?
28										#NAME?
29										#NAME?
30										#NAME?
31										#NAME?
Avg		106.00	5.65	3.90	30.97		#NAME?		1.2	#NAME?
Max		106.00	5.65	3.90	30.97		#NAME?		1.2	#NAME?
Min		106.00	5.65	3.90	30.97		#NAME?		1.2	#NAME?

### TOTAL ORGANIC CARBON (TOC) REMOVAL SUMMARY

#NAME?					Monthly Compliance Ratio
Raw Water Alkalinity	Raw Water TOC	Treated Water TOC	TOC % Removal	ACC # used	
106	5.65	3.90	31.0	#NAME?	#NAME?
				#NAME?	#NAME?

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: July 2, 2012

**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: June Year: 2012

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		
	5.65	07/2011	08/2011	09/2011	10/2011	11/2011	12/2011	01/2012	02/2012	03/2012	04/2012	05/2012	06/2012
	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		
	3.90	07/2011	08/2011	09/2011	10/2011	11/2011	12/2011	01/2012	02/2012	03/2012	04/2012	05/2012	06/2012
	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)												
	Month/Year	Q1			Q2			Q3			Q4		
	07/2011	08/2011	09/2011	10/2011	11/2011	12/2011	01/2012	02/2012	03/2012	04/2012	05/2012	06/2012	
	Average Raw Water TOC												
	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 June 2012:  mg/L HAA5 RAA for the 4 quarter that end June 2012:  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 June 2012: <input type="text"/> mg/L						HAA5 RAA for the 4 quarters that end June 2012: <input type="text"/> mg/L						
	AND only chlorine is used in the whole plant and distribution system. Chlorine only?: <input type="text"/>												

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)												
	Current Month SUVA	Q1			Q2			Q3			Q4		
	1.67	07/2011	08/2011	09/2011	10/2011	11/2011	12/2011	01/2012	02/2012	03/2012	04/2012	05/2012	06/2012
	Monthly Raw Water SUVA	1.67	1.73	1.68	1.58	1.64	1.70	2.74	2.83	2.77	3.07	2.54	
	Quarterly Average RAA			1.69			1.64			2.78			

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)												
	(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.												
	Treated water SUVA measured:	I certify that an oxidant was used upstream of the Treated Water TOC monitoring point during the period for which treated water SUVA data is reported.											
		In Plant			Certified Operators Signature / Certificate Number / Date								
		By Finished Water SUVA Jar Test											

Current Month SUVA	Q1			Q2			Q3			Q4			
	07/2011	08/2011	09/2011	10/2011	11/2011	12/2011	01/2012	02/2012	03/2012	04/2012	05/2012	06/2012	
	Monthly Treated Water SUVA												
	Quarterly Average RAA												

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		
		07/2011	08/2011	09/2011	10/2011	11/2011	12/2011	01/2012	02/2012	03/2012	04/2012	05/2012	06/2012
	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	07/2011	08/2011	09/2011	10/2011	11/2011	12/2011	01/2012	02/2012	03/2012	04/2012	05/2012	06/2012
	Treated												
	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: July 2, 2012

# 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

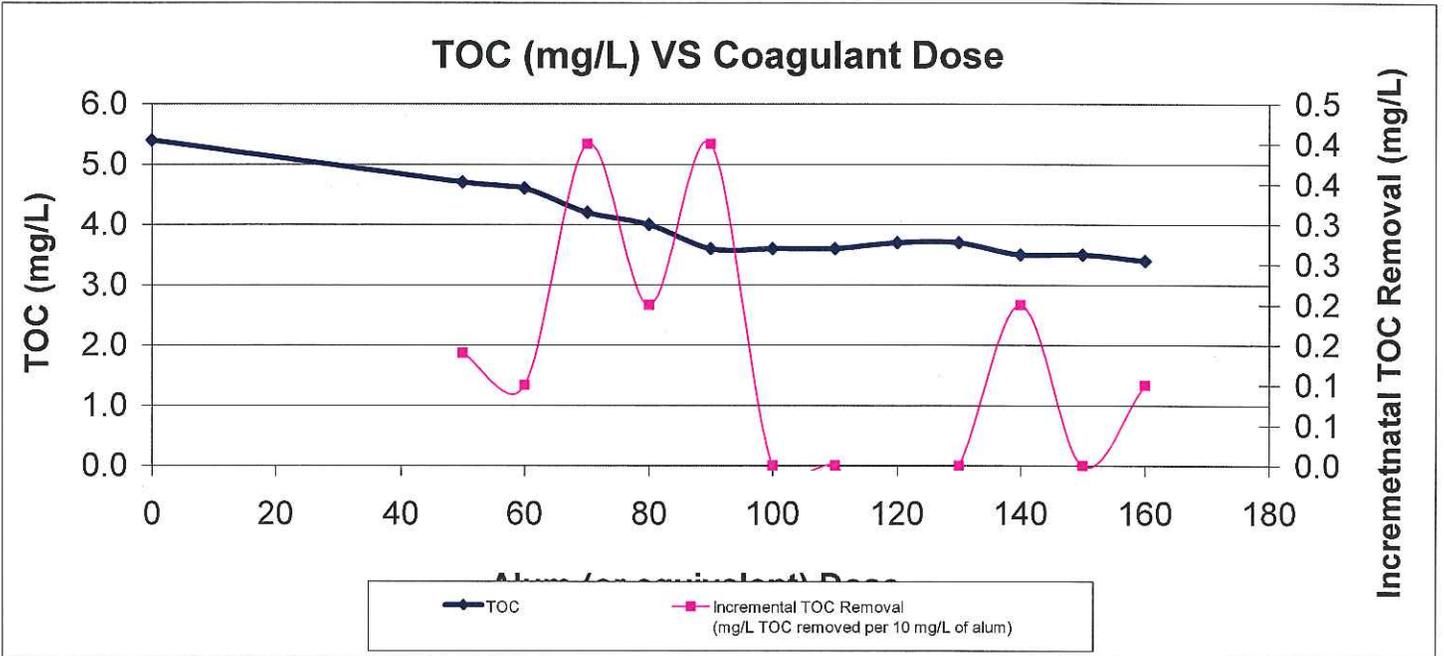
PLANT NAME OR NUMBER: Lake Halbert WTP  
 DATE OF JAR TEST: June 12, 2012

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	144.00	N/A	0.00	N/A	0.00	Caustic Soda	43.91

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)
Alum	11	None	-	0.5	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					105	7.9	5.4		
1	50	2.50	0.00		Target pH (based on raw water alkalinity)	7.5	4.7	0.1	13.0
2	60	3.00	0.00			7.5	4.6	0.1	14.8
3	70	3.50	0.00			7.4	4.2	0.4	22.2
4	80	4.00	0.00			7.3	4.0	0.2	25.9
5	90	4.50	0.00			7.1	3.6	0.4	33.3
6	100	5.00	0.00			7.1	3.6	0.0	33.3
7	110	5.50	0.00			7.1	3.6	0.0	33.3
8	120	6.00	0.00			6.3	3.7	-0.1	bad data point
9	130	6.50	0.00			6.8	3.7	0.0	31.5
10	140	7.00	0.00			6.7	3.5	0.2	35.2
11	150	7.50	0.00			6.6	3.5	0.0	35.2
12	160	8.00	0.00		6.6	3.4	0.1	37.0	

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 1 PODR
		More than one PODR found; please enter correct PODR value:	25.9%



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